

# Release Notes

ON THIS PAGE

Release Notes

▸ PingFederate 13.1.2 (August 2026)

New features and enhancements

Resolved issues

▸ PingFederate 13.1.1 (July 2026)

Resolved issues

▸ PingFederate 13.1 (June 2026)

New features and enhancements

## About Cookies On This Site

🌐 English ▾

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Accept All

Reject All

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## Resolved issues

### ▸ PingFederate 13.0.2 (April 2026)

## Resolved issues

### ▸ PingFederate 13.0.1 (February 2026)

## New features and enhancements

## Resolved issues

### ▸ PingFederate 13.0 (December 2025)

## New features and enhancements

## Resolved issues

## Known issues and limitations

## Deprecated features

### ▸ PingFederate 12.3.7 (July 2026)

## Resolved issues

### ▸ PingFederate 12.3.6 (April 2026)

## New features & enhancements

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New features and enhancements

Resolved issues

▸ PingFederate 12.3.1 (August 2025)

New features and enhancements

Resolved issues

▸ PingFederate 12.3 (June 2025)

New features and enhancements

Resolved issues

Known issues and limitations

Deprecated features

▸ PingFederate 12.2.8 (May 2026)

New features & enhancements

Resolved issues

▸ PingFederate 12.2.7 (February 2026)

Resolved issues

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▸ PingFederate 12.2.2 (March 2025)

Resolved issues

▸ PingFederate 12.2.1 (February 2025)

New features and enhancements

Resolved issues

▸ PingFederate 12.2 (December 2024)

New features and enhancements

Resolved issues

Known issues and limitations

Deprecated features

▸ PingFederate 12.1.11 (May 2026)

New features and enhancements

Resolved issues

▸ PingFederate 12.1.10 (October 2025)

Resolved issues

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▸ PingFederate 12.1.5 (January 2025)

Resolved issues

▸ PingFederate 12.1.4 (November 2024)

Resolved issues

▸ PingFederate 12.1.3 (September 2024)

New features and enhancements

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### Resolved issues

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### Resolved issues

- PingFederate 12.0.4 (July 2024)

### Resolved issues

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▸ PingFederate 11.3.14 (October 2025)

Resolved issues

▸ PingFederate 11.3.13 (September 2025)

Resolved issues

▸ PingFederate 11.3.12 (May 2025)

Resolved issues

▸ PingFederate 11.3.11 (April 2025)

New features and enhancements

Resolved issues

▸ PingFederate 11.3.10 (December 2024)

Resolved issues

▸ PingFederate 11.3.9 (November 2024)

Resolved issues

▸ PingFederate 11.3.8 (July 2024)

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### ▸ PingFederate 11.3.2 (September 2023)

#### New features and enhancements

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New features and enhancements

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▸ PingFederate 11.0 (December 2021)

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t and previous product updates.

Release Notes RSS feed

s for single sign-on (SSO), federated  
curity, social identity integration, and  
gFederate extends employee,  
out passwords, using only standard

identity protocols: SAML, WS-Federation, WS-Trust, OAuth, and System for Cross-domain Identity Management (SCIM).

## PingFederate 13.1.2 (August 2026)

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### New features and enhancements

#### *Upgrade utility*

[Info](#)[PF-39692](#)

We updated the upgrade utility to require the source installation to be PingFederate 10.3 or later.

### Resolved issues

#### *SAML HTTP-Redirect binding*

[Security](#)[PF-39710](#)

g the processing of signed SAML  
Redirect binding.

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ave allowed clients to authenticate a

#### *d signing keys*

VT access token when multiple JWT  
ngFederate now identifies the ATM

that issued the token and uses it to perform revocation.

## *IdP connection error routing in authentication policies*

Fixed

PF-39570

We fixed a defect that caused OIDC and SAML IdP connection errors to display an error page instead of routing to the Fail branch of an authentication policy when **Handle Failures Locally** was enabled.

## *Post-upgrade engine node startup failure*

Fixed

PF-39660

We fixed a defect that caused cluster nodes to fail on startup after another node that was upgraded with a newer maintenance version shared its upgraded replication data.

## *AuthN Context Authentication Selector override*

Fixed

PF-39666

We fixed a defect that caused AuthN Context Authentication Selector with **Override AuthN Context for Flow** enabled to override the AuthN context value for authentication flows that didn't match the incoming AuthN context.

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of `commons-lang.jar`. PingFederate removed the obsolete version.

Form Adapter was configured to

ing

Fixed

PF-39684

We fixed a defect where PingFederate transmitted multi-valued extended properties incorrectly when pushed authorization requests were enabled.

### *Collect support data froze target node*

Fixed

PF-39694

We fixed a defect where collecting support data in the admin console caused the target node to freeze.

### *Unwanted dynamic signing keys after restart*

Fixed

PF-39713

We fixed a defect that caused PingFederate to create dynamic signing keys after a cluster restart when static keys were configured.

### *PAR client `invalid_request_uri` error*

Fixed

PF-39724

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an `invalid_request_uri` error for  
when the client had Pushed  
abled.

nections without explicitly configured

## *CIMD loopback URL validation*

Fixed

PF-39501

We fixed a defect where PingFederate rejected `http://` loopback `client_id` URLs at runtime. Client ID Metadata Documents (CIMD) policies that use those URLs now display a warning.

## *PingID client-side authenticator failure*

Fixed

PF-39546

We fixed a defect that caused the PingID client-side authenticator to fail after the PingFederate 13.1 Jakarta migration.

## *Heartbeat endpoint failure with Redis*

Fixed

PF-39580

We fixed a defect that caused the heartbeat endpoint to fail when PingFederate was configured with Redis and an internally managed reference token manager.

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single logout (SLO) requests to fail  
ndpoint when using Redis for the

## *.O audit log*

issing from the SLO audit log entries  
edis mode.

## *dis mode*

Fixed

PF-39588

We fixed a defect that prevented SLO from terminating service provider (SP) adapter sessions in Redis mode, allowing users to remain authenticated after SLO.

### *OAuth client authentication method conflict*

Fixed

PF-39589

We fixed a defect where enabling **Client TLS Certificate** authentication alongside other authentication methods on an OAuth client caused some methods, such as **Client Secret**, to fail.

### *CIMD authorization failure with LDAP client storage*

Fixed

PF-39593

We fixed a defect that caused CIMD authorization requests to fail with HTTP 400 when PingFederate used LDAP client storage, requiring approximately 60 seconds of idle time before requests succeeded.

### *Token exchange failure with ID-IAG enabled*

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**JWT (ID-JAG)** on an SP connection  
s to fail due to an ID-JAG-specific

3843

PF-38844

We added support for storing data from the following services in a Redis cache:

- Assertion Replay Prevention Service data
- Dynamic JSON Web Keys
- Session Revocation Service data
- OAuth Reference Bearer Access Token Plugin data
- IdP Session Registry Service data
- SP Session Registry Service data

PingFederate stores short-lived data in a Redis cache to improve resiliency and scalability. It also eases upgrades in clustered environments.

Learn more in [Storing PingFederate data with Redis](#).

## *SP Connection for OAuth Token Exchange*

New

PF-38312

We added the ability to configure SP connections for OAuth token exchange.

This allows clients or AI agents to obtain tokens from third-party authorization servers

Identity Assertion JWT Authorization Grant

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token exchange.

IdP connection type.

from their macOS login.

Configuring Platform SSO for macOS in

**ST API datastore**

New

PF-38489

We added the ability to use private key JWT client assertions to request OAuth 2.0 bearer tokens for accessing REST API datastores.

This feature improves authentication security and ensures compatibility after Microsoft Exchange Online support for basic authentication ends in late 2026.

Learn more in [Configuring a REST API datastore](#).

### ***PUT, PATCH, and DELETE in REST API datastore***

New

PF-38492

We added support for PUT, PATCH, and DELETE requests to the REST API datastore.

These standard API request types give you more options for managing user data in a REST API datastore.

Learn more in [Configuring a REST API datastore](#).

### ***User and authentication context for authorization details***

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details and authentication context in

ent in custom authorization details

tion.

ts.

ou to centrally manage authentication

secrets for clients.



Learn more in [Configuring OAuth clients](#).

## *OAuth bearer token authentication for SMTP servers*

**New**

PF-38500

We added support for OAuth 2.0 bearer token authentication for SMTP servers.

This feature improves authentication security, and ensures compatibility after Microsoft Exchange Online support for basic authentication ends in late 2026.

Learn more in [Configuring an SMTP Notification Publisher instance](#).

## *Disable automatic IdP adapter validation*

**New**

PF-38501

We added a feature that allows you to disable automatic validation of IdP adapters when you go to the **Authentication > Integration > IdP Adapters** menu.

Disabling automatic validation can reduce loading time if you have a large number of IdP adapters configured.

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tion.

### (ID-JAG)

ation Grant (ID-JAG) flows in

uth token exchange and accept ID-  
pdate also adds a Refresh Token  
S.

rocessor instance.

New

PF-38826

We added the ability to apply tags to resources like OAuth clients.

Tags make it easier for you to categorize, organize, and filter resources. You can also create policies to make decisions based on resource tags.

Learn more in Tag Management.

### ***CIMD for OAuth clients***

New

PF-38827

We added support for Client ID Metadata Documents (CIMD) for OAuth clients.

This feature allows PingFederate to retrieve and validate client metadata during runtime transactions and dynamically create clients. This is especially useful for AI agents and other automated or short-lived clients that need dynamic access without being pre-registered individually.

Learn more in Client ID metadata documents (CIMD) and the CIMD specification [↗](#).

### ***Multiple authentication methods for OAuth clients***

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at authentication method for an

entication method to another

lient Management Service.

-of-Possession (DPoP) settings and

This feature lets you override global DPoP defaults for individual clients.

Learn more in [Configuring OAuth clients](#) and [Managing client configuration defaults](#).

### *EncryptedKey selection for encrypted SAML attributes*

**New**

PF-38882

We added support for `CarriedKeyName`-based decryption key selection for encrypted attributes in SAML 2.0 response processing.

This improves support for certificate rollover and deployments that use different decryption keys across recipients or clusters.

Learn more in [Specifying XML encryption policy \(for SAML 2.0\)](#).

### *Full JSON response mapping in REST API datastore*

**Improved**

PF-34615

We added support for mapping the full JSON response document to a local attribute in a REST API datastore.

ions depend on the complete

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ration form.

ing clients at a glance and to find and

ing OAuth clients.

*fecycle*

Improved

PF-38880

We changed how PingFederate invalidates `request_uri` values in Pushed Authorization Request (PAR) flows.

PingFederate now invalidates the `request_uri` when consent details are presented to the user, or when the **PAR Reference Timeout** expires. If consent details aren't presented, clients can reuse the `request_uri` until the **PAR Reference Timeout** expires.

Learn more in Pushed authorization requests endpoint.

### *Unconnected cluster node startup*

Improved

PF-38898

We added the `force.require.replication.data.on.startup` parameter to the `cluster-config-replication.conf` file.

This parameter allows you to prevent an engine node from starting up without establishing a connection to the cluster.

Learn more in Cluster management.

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lows Server 2025.

We updated PingFederate for Jakarta EE 9 migration, including dependency updates to Spring Framework 6.2.19, Jetty 12.0.36, Jersey 3, and OpenAPI 3.

## ***Oracle Unified Directory***

[Info](#)[PF-38046](#)

We qualified PingFederate for use with Oracle Unified Directory version 14c.

## ***PAR parameters***

[Info](#)[PF-38526](#)

We added a new configuration option to limit the Pushed Authorization Request (PAR) to the parameters mentioned in the specification when the connection is configured to use JWT-secured Authorization Request (JAR).

## ***log4j-core update***

[Info](#)[PF-38538](#)

We upgraded `log4j-core` to version 2.25.4.

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ained upstream dependencies and

n console to the Identity for AI  
n about how to configure Ping Identity  
al intelligence (AI).

## ***OAuth Playground 6.0***

[Info](#)

PF-38902

We released version 6.0 of the OAuth Playground.

Earlier versions of the OAuth Playground aren't compatible with PingFederate 13.1 or later.

Learn more in OAuth Playground.

## ***Amazon Aurora MySQL***

[Info](#)

PF-38913

We qualified PingFederate for use with Amazon Aurora MySQL 3.12.0 (compatible with MySQL 8.0.44)

## ***PostgreSQL***

[Info](#)

PF-38914

We qualified PingFederate for use with PostgreSQL versions 16.13, 17.9, and 18.3.

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a PostgreSQL (compatible with

We updated the following bundled integration kits to their latest versions:

- Agentless Integration Kit 2.3.1
- PingID Integration Kit 2.30
- PingOne Integration Kit 3.1.1
- PingOne MFA Integration Kit 3.3
- PingOne Protect Integration Kit 1.0.8
- PingOne Verify Integration Kit 2.3.4

## Resolved issues

### *Admin console cookie improvements*

Security

PF-34376

PF-37650

We updated how the cross-site request forgery (CSRF) cookie is issued and validated in the admin console for more effective CSRF protection.

### *Private key JWT OAuth client authentication improvements*

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private\_key\_jwt OAuth

23 [↗](#) specifications and security best

a PingFederate filepath when

We fixed a security vulnerability where a misconfigured PingFederate deployment could've executed code included in an OGNL expression.

### ***OGNL code test***

**Security**

PF-38742

We improved role-based access control (RBAC) for the administrative expression testing endpoint. Access to expression evaluation is now limited to appropriately-privileged roles, ensuring alignment with intended administrative permissions.

### ***jackson-core update***

**Security**

PF-38830

We've upgraded `jackson-core` to version 2.21.1 to continue alignment with maintained upstream dependencies and remove potential security vulnerabilities.

### ***SLO failure***

**Fixed**

PF-38442

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ts to `/idp/startSLO.ping` failed to

users to the base URL for the Multiple  
to the virtual host URL.

**reset**

from applying to password change



## ***pi.flow response\_mode fix***

Fixed

PF-38417

We fixed a defect where setting `response_mode` to `pi.flow` in Pushed Authorization Requests (PAR) or standard request objects resulted in an `INVALID_REQUEST` error.

## ***Fixed NPE when updating SP connection***

Fixed

PF-38508

We fixed a defect that caused a null pointer exception (NPE) error when an SP connection with backchannel authentication inbound authentication type set to **No Client Authentication** and **Require SSL** enabled was created or updated using the Admin API.

## ***Dynamic client registration failure***

Fixed

PF-38548

We fixed a defect that caused dynamic client registration to fail when **Retain Client Secret** was enabled and **Client Secret Retention Period** was set globally in **Authorization Server Settings**.

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creating, updating, or testing Kerberos was set to `false` in the `krb5.conf` file.

**krb5.conf**

erwrote the `krb5.conf` file during `krb5.conf` was disabled.

## *Heartbeat endpoint failure*

Fixed

PF-38595

We fixed a defect that caused the heartbeat endpoint to be potentially unresponsive in rare concurrent access situations.

## *Authentication policy error*

Fixed

PF-38623

We fixed a defect that caused an error when authentication policies with a Requested AuthN Context Authentication had **Add or Update AuthN Context Attribute** enabled.

## *Log settings not applied to new engine nodes*

Fixed

PF-38627

We fixed a defect where log settings weren't applied to newly-joined engine nodes.

## *Response code for refresh token exchange failure with revoked user session*

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ss token exchange to fail with 500  
st when the user's sessions had

n when the request to the  
endpoint resulted in a validation error.

t grant storage

Fixed

PF-38706

We fixed a defect that caused CIBA token requests to fail when persistent grants are stored in an LDAP directory like PingDirectory.

### ***Admin API OAuth authentication failure***

Fixed

PF-38722

We fixed a defect that caused OAuth and JWT authentication through the Admin API to fail when the **role attribute name** parameter used the scope claim containing space-delimited values.

### ***Local identity profile attribute caching***

Fixed

PF-38824

We fixed a defect that caused PingFederate to cache user registration form attributes for local identity profiles when the registration workflow is configured to run after account creation.

### ***Custom Authentication Selector error***

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tain custom Authentication Selectors

ect

request objects (signed JWT) sent to the  
iginal data type.

***dependency error warning***

We fixed a defect that caused PingFederate to continue displaying a dependency error warning for the Extended Property Authentication Selector after the selector instance is deleted.

### *Dynamic JWKS rotation timer*

Fixed

PF-38903

We fixed a defect that prevented dynamic JWKS rotation timing from resetting after a node joined a cluster.

### *URL validation for TargetResource*

Fixed

PF-38907

We fixed a defect where PingFederate rejected valid **TargetResource** values.

### *Cluster node joining failure*

Fixed

PF-39240

We fixed a defect that prevented an engine node from joining a cluster when both active upgrade.

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y

l behind a proxy with mTLS, used the  
warded in the client certificate

!.

PingFederate returns an unexpected error when you create an instance of the PingOne Verify Integration Kit version 2.2.2 in PingFederate with the Verify feature in PingOne disabled.

### *Third-party cookie blocking affecting single logout*

Issue

PF-35772

Due to multiple vendors' recent browser versions that block third-party cookies, you might experience issues related to single logout with OIDC (via Front-Channel) and WS-Federation.

Refer to browsers' documentation regarding third-party cookie management to unblock them, if feasible.

### *Passive admin console UI refresh*

Issue

PF-35643

When you promote a passive admin console to active, the UI doesn't refresh until you perform an action.

### *Multiple active admin consoles*

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console (especially large configuration console) when you promote a passive console to active. This can result in inconsistent

active administrative nodes.

#### **PI**

oP, a known limitation is that the PingFederate is the RP:

o The administrative console authentication scheme using OIDC

- The administrative API authentication scheme using OAuth 2.0
- /bulk: Only resource types currently supported by the administrative API are included in the exported data. We don't intend to introduce administrative API support to the following areas:
  - SAML 2.0 IdP Discovery
  - SAML 2.0 SP Affiliation
  - SMS Provider
- Previously, the administrative API did not accurately reflect a **Persistent Grant Max Lifetime** setting of 29 days (or shorter) with the selection of the **Grants Do Not Timeout Due To Inactivity** option. As a result, if you have configured such OAuth authorization server settings and have generated a bulk export in version 10.0 through 10.0.2, we recommend that you re-generate a new bulk export after upgrading to version 10.0.3 (or a more recent version). The newly exported data does not contain the aforementioned flaw, and you can safely import it to version 10.0.3 (or a more recent version).
- When enabling mTLS certificate-based authentication, administrators often configure a list of acceptable client certificate issuers. When you use a browser to access the console or the administrative API documentation, PingFederate returns to the browser the list of acceptable issuers as part of the TLS handshake. If the browser's client

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es, the browser often presents you the acceptable issuers. However, ;, Chrome presents you all its er the issuer matches one of the

to an LDAP server for administrative e doesn't support using a Microsoft

ne administrative API, you must available attributes are replaced with ate request fails.

erarchical plugin, the administrative e name/value pair (or without such

name/value pair altogether), ignores those with a value of `true`, and returns a 200 HTTP status code. No error messages are returned for the ignored objects.

- Using the browser's navigation mechanisms (for example, the **Back** button) causes inconsistent behavior in the administrative console. Use the navigation buttons provided at the bottom of windows in the PingFederate console.
- Using the PingFederate console in multiple tabs on one browser might cause inconsistent behavior which could corrupt its configuration.
- If authenticated to the PingFederate administrative console using certificate authentication, a session that has timed out might not appear to behave as expected. Normally (when using password authentication), when a session has timed out and a user attempts some action in the console, the browser is redirected to the sign-on page, and then back to the administrative console after authentication is complete. Similar behavior applies for certificate authentication, in principle. However, because the browser might automatically resubmit the certificate for authentication, the browser might redirect to the administrative console and not the sign on page.

## *TLS cipher suite customization*

### Issue

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modifying

for a similarly-named file if BCFIPS or an  
ing, all cluster nodes must be

icate as an SSL server certificate.

Algorithm smaller than the  
for example, a `signatureAlgorithm`  
sults in an error. Learn more in

ECDSA signing fails with "invalid mechanism" error starting with SDK 5.16 [↗](#) in the CloudHSM documentation.

- TLS 1.3 is not currently supported with Oracle JDK 17 or 21.

### Thales HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 isn't currently supported with Oracle JDK 17.

### Entrust HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to import a PKCS12- or PEM-formatted EC certificate.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 isn't currently supported with Oracle JDK 17.

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does not report an error when neither site is included in the metadata. Note data as indicated by the **validUntil**

used with the single logout (SLO) is included with the logout request. For all server IDs, PingFederate will recovery during an SP-initiated SSO

## Composite Adapter configuration



## Issue

SLO is not supported when users are authenticated through a Composite Adapter instance that contains another instance of the Composite Adapter.

## *Self-service password reset*

## Issue

Passwords can be reset for Microsoft Active Directory user accounts without the permission to change password.

## *OAuth*

## Issue

PingFederate does not support a case-sensitive naming convention for OAuth client ID values when client records are stored in a directory server. For example, after creating a client with an ID value of `sampleClient`, PingFederate does not allow the creation of another client with an ID value of `SampleClient`.

Although it's possible to create clients using the same ID values with different casings when using a directory server, or custom storage, we recommend

5.

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For fields that have been designed for more date-specific fields are defined as date (or both), end users must enter a date-picker user interface for those

- LDAP referrals return an error and cause provisioning to fail if the **user** or **group** objects are defined at the DC level, and not within an OU or within the Users CN.
- The **totalResults** value in SCIM responses indicates the number of results returned in the current response, not the total number of estimated results on the LDAP server.

## Logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant **USER\_KEY** attribute, the **USER\_KEY** attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## Database logging

### Issue

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...ing in an IdP adapter or IdP  
... OAuth's persistent grant **USER\_KEY**  
...ked in the server logs. Other

...masking in an IdP adapter and the  
...e user key, the user key attribute is

...Request packets when the  
...s. IPv6 is not supported.

## Amazon SNS Notification Publisher

### Issue

When deploying PingFederate with a forward proxy, plugins based on the AWS SDK, such as the Amazon SNS Notification Publisher, will only honor the `http.proxyHost`, `http.proxyPort`, `http.proxyUser`, and `http.proxyPassword` properties in `run.properties`. The plugin will rely on these properties even if the service URL is `https`.

## Deprecated features

No features were deprecated for PingFederate 13.1.

## PingFederate 13.0.5 (August 2026)

---

### New features and enhancements

#### Upgrade utility

[Info](#)[PF-39692](#)

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Installation to be PingFederate 10.3 or

`4j-layout-template-json` to  
ties.

We fixed a defect that could have allowed an admin to insert executable code into an OAuth client ID.

### *Secret manager authentication*

**Security**

PF-39710

We fixed a potential security vulnerability by improving the processing of signed SAML AuthnRequest messages received through the HTTP-Redirect binding.

### *JWT access token revocation fails with shared signing keys*

**Fixed**

PF-39526

We fixed a defect that could prevent revocation of a JWT access token when multiple JWT access token managers (ATMs) shared signing keys. PingFederate now identifies the ATM that issued the token and uses it to perform revocation.

### *IdP connection error routing in authentication policies*

**Fixed**

PF-39570

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nection errors to display an error authentication policy when **Handle**

startup after another node that was s upgraded replication data.

**ride**

ication Selector with **Override AuthN**

**CONTEXT FOR FLOW** enabled to override the AuthN context value for authentication flows

that didn't match the incoming AuthN context.

### *Unwanted dynamic signing keys after restart*

**Fixed**

PF-39713

We fixed a defect that caused PingFederate to create dynamic signing keys after a cluster restart when static keys were configured.

## PingFederate 13.0.4 (July 2026)

---

### New features and enhancements

#### *Apache MINA dependency*

**Info**

PF-39148

We updated Apache MINA to version 2.2.7.

### Resolved issues

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y

I behind an mTLS proxy, used the TLS of the client certificate forwarded in client certificate authentication to fail

We fixed a defect that caused Kerberos realm test connections without explicitly configured KDCs to fail.

### *User Count Utility startup failure*

Fixed

PF-39502

We updated the bundled User Count Utility to version 1.0.20 to fix a startup issue triggered by certain log4j configurations.

## PingFederate 13.0.3 (May 2026)

---

### New features and enhancements

#### *Unconnected cluster node startup*

Improved

PF-38898

We added the `force.require.replication.data.on.startup` parameter to the `cluster-config-replication.conf` file.

starting up without establishing a

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mbolic links, those links might no

longer work with Jetty 12.0.

You can allow support for the symbolic links by adding the `pf.assets.allowSymlinks=true` parameter to the `run.properties` file.

## Resolved issues

### *Multiple Sign-On Delay routing*

Fixed

PF-38801

We fixed a defect that caused PingFederate to route users to the base URL for the **Multiple Sign-On Delay** page when they should've been routed to the virtual host URL.

### *OAuth client management service response format*

Fixed

PF-38872

We fixed a defect in the OAuth Client Management Service where parameters that support multiple values were always returned as arrays, even with only a single value. Now single values are returned as strings and multiple values are returned as arrays.

This defect affects PingFederate version 13.0.3 or later that was upgraded using the in-place method.

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arrays for all parameters, you can set `pf.model.converter.Serialize` to `true` in the

tain custom Authentication Selectors

### *dependency error warning*

Fixed

PF-38901

We fixed a defect that caused PingFederate to continue displaying a dependency error warning for the Extended Property Authentication Selector after the selector instance is deleted.

### *Dynamic JWKS rotation timer*

Fixed

PF-38903

We fixed a defect that prevented dynamic JWKS rotation timing from resetting after a node joined a cluster.

### *URL validation for TargetResource*

Fixed

PF-38907

We fixed a defect where PingFederate rejected valid **TargetResource** values.

## PingFederate 13.0.2 (April 2026)

---

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administrative expression testing  
ed to appropriately-privileged roles,  
missions.

continue alignment with maintained  
y vulnerabilities.



### *Fixed NPE when updating SP connection*

Fixed

PF-38508

We fixed a defect that caused a null pointer exception (NPE) error when an SP connection with backchannel authentication inbound authentication type set to **No Client Authentication** and **Require SSL** enabled was created or updated using the Admin API.

### *Log settings not applied on new engine nodes*

Fixed

PF-38627

We fixed a defect where log settings weren't applied to newly joined engine nodes.

### *Response code for refresh token exchange failure with revoked user session*

Fixed

PF-38656

We fixed a defect that caused a refresh token for access token exchange to fail with **500 Internal Server Error** instead of **400 Bad Request** when the user's sessions had been revoked.

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## *Grant storage*

fail when persistent grants are stored

cation through the Admin API to fail  
e scope claim containing space-

# PingFederate 13.0.1 (February 2026)

## New features and enhancements

### *Disable automatic IdP adapter validation*

**New**

PF-38501

We've added a feature that allows you to disable automatic validation of IdP adapters when you go to the **Authentication > Integration > IdP Adapters** menu.

Disabling automatic validation can reduce loading time if you have a large number of IdP adapters configured.

Learn more in [Disabling automatic IdP adapter validation](#).

### *PAR parameters*

**Info**

PF-38526

We've added a new configuration option to limit the Pushed Authorization Request (PAR) to the connection is configured to use

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ained upstream dependencies and

We've fixed a defect where setting `response_mode` to `pi.flow` in Pushed Authorization Requests (PAR) or standard request objects resulted in an `INVALID_REQUEST` error.

### *Dynamic client registration failure*

Fixed

PF-38548

We've fixed a defect that caused dynamic client registration to fail when **Retain Client Secret** was enabled and **Client Secret Retention Period** was set globally in **Authorization Server Settings**.

### *Kerberos realm validation error*

Fixed

PF-38585

We've fixed a defect that prevented PingFederate from creating, updating, or testing Kerberos realms when the `AutoGenerateKrb5Conf` parameter was set to `false` in the `com.pingidentity.common.util.KerberosConfigUtil` file.

### *Kerberos realm test connectivity overwriting krb5.conf*

Fixed

PF-38585

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overwrote the `krb5.conf` file during `test` if `test` was disabled.

might be potentially unresponsive in

authentication policies with a Requested

AUTHN Context Authentication had **Add or Update AuthN Context Attribute** enabled.

# PingFederate 13.0 (December 2025)

## New features and enhancements

### *gMSA support for Kerberos realms on Windows*

**New**

PF-37270

We've added a feature that lets you use group Managed Service Account (gMSA) credentials in Kerberos realms when running PingFederate on Windows.

With this feature, you can let Active Directory automatically rotate your client password so you don't have to manage it.

Learn more in [Configuring a secret manager for Windows gMSA](#).

### *Verbose logging lifetime expiration*

**New**

PF-37374

We've added a feature that allows you to set an expiration time for verbose logging.

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it by configuring the `log4j-`

ation.

**DB**

age using AWS DynamoDB.

of scopes without replicating for every

pe storage.

### *Automatically replicate log changes to cluster*

New

PF-37684

We've added a feature that automatically replicates changes to log settings to cluster servers. This feature is enabled by default, but you can disable it from the **Cluster Management** page.

This feature makes it easier to change log settings across your cluster without running a full replication cycle.

Learn more in [Cluster management](#).

## Redis support

New

PF-37691

PF-38064

PF-38065

We've added support for connecting PingFederate to Redis.

PingFederate stores short-lived data in a Redis cache to improve resiliency and scalability. It also eases upgrades in clustered environments. PingFederate currently supports storing the following data in Redis:

- Account locking information
- Authorization artifacts

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ata

audience values for OAuth clients.

existing issuer into PingFederate.

ingFederate.

We've added a feature that allows the PingFederate User Count Utility (UCU) to parse JSON logs.

Learn more in PingFederate User Count Utility in the Ping Identity Support Knowledge Base.

## *Client Side Authenticators*

**New**

PF-37909

PingFederate now supports plugins with client-side authenticator functionality.

Client-side authenticators enable PingFederate to leverage authentication methods executed directly by the user's browser or operating system, such as Passkeys. This allows for stronger, often passwordless, authentication flows.

Learn more in [HTML Form Adapter advanced fields and Configuring an Identifier First Adapter instance](#).

## *Distributed tracing (Open Telemetry)*

**New**

PF-38051

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for inbound and outbound requests

better observability of server

ne-to-live (TTL) settings in PingDS to

PingDS.

## *Error handling IdP connections*

New

PF-38063

We've added a feature that lets you determine how incoming errors are handled before they're relayed to the requesting application or partner.

Learn more in [Overriding error handling in an IdP connection](#).

## *Authentication session storage in PingDS*

New

PF-38082

We've added support for storing authentication sessions on a PingDS server.

This update makes it easier to integrate your PingFederate and PingDS deployments.

Learn more in [Defining a datastore for persistent authentication sessions](#).

## *Support for response\_type none*

New

PF-38114

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one .

the Authorization Server without  
ntials.

ecification.

**ection**

onal parameters of an OIDC-enabled

values when creating attribute  
nections.

Learn more in [Configuring target session fulfillment](#).

## ***Bulkhead warning email***

Improved

PF-37011

Bulkhead warning emails now include the IP address and cluster index of the engine node that triggered the bulkhead.

## ***Thread pool management***

Improved

PF-37547

We've improved Jetty thread pool management so that PingFederate no longer creates unnecessary thread pools. The number of threads allocated to unused servers now depends on the operational mode.

## ***OpenID Connect Policy Selector***

Improved

PF-38033

The policy list is now sorted alphabetically by name in both the OAuth Client and Client

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## ***Duration***

default in the DynamoDB scope

pe storage.

## ***le runtime***

esses for administrative console



This update affects several notification features, such as runtime notifications and licensing events.

## Documentation restructuring

Improved

The PingFederate 13.0 documentation has been completely restructured to help customers get up and running faster, improve the overall flow, and make it easier to find information. This is an ongoing effort which will continue after the initial 13.0 release.

## Jersey library

info

PF-5069

We've upgraded the internal Jersey library to version 2.

This change will require you to upgrade some plugins. Learn more in [Upgrade considerations](#).

## Jetty library

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25.1.

5-p1 and `commons-lang3` to version  
m dependencies.

## ***TLS 1.3 support for Oracle Java 21***

[Info](#)

PF-37849

We've added support for TLS 1.3 for Oracle Java 21 with Thales and Entrust HSMs.

## ***Bouncy Castle FIPS***

[Info](#)

PF-37943

We've upgraded Bouncy Castle to version 2.0.1. This version is certified to operate in Federal Information Processing Standards (FIPS) mode 140-3.

## ***Amazon Aurora MySQL***

[Info](#)

PF-38045

We've qualified PingFederate for use with Amazon Aurora MySQL version 3.10 (compatible with MySQL 8.0.42).

## ***PostgreSQL***

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version 18.0.

MySQL version 8.4. This version has an  
database drivers.

3.12.0 to continue alignment with

## Resolved issues

### *Exposed credentials*

**Security**

PF-36848

We've fixed a security vulnerability in the admin console where passwords entered for certificate and key management were visible when navigating back to the previous page. Password fields are now masked.

### *Admin console IP exposure*

**Security**

PF-33113

We've fixed a security vulnerability that could have allowed malicious parties to extract PingFederate administrative console IP addresses using HTTP Response headers.

### *Session Revocation After Password Change*

**Security**

PF-36426

After a successful PingFederate administrative password change, all other active concurrent

mediately invalidated, enhancing  
credentials.

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continue alignment with maintained  
y vulnerabilities.

owed malicious parties to redirect  
ost header.

## *HTML Form Adapter browser history*

Security

PF-37902

We've corrected a security regression in the **HTML Form Adapter** to ensure that password credentials are cleared from the browser immediately after form submission, mitigating a risk of residual exposure in the browser's memory.

## *User Enumeration in Policy Password Reset*

Security

PF-38044

PingFederate now prevents user enumeration in the **Policy** mode **Password Reset** flow by eliminating the observable difference between valid and invalid usernames.

## *jakarta.mail upgrade*

Security

PF-38245

We've upgraded `jakarta.mail` to 1.6.8 to continue alignment with maintained upstream dependencies.

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e

here the language locale wasn't

or Microsoft Azure AD as an OIDC

Fixed

PF-37156

We've fixed a defect that caused failed AWS CloudHSM certificate linking to appear to succeed when the key alias was a value that was previously used in the environment.

### *Scope removal error*

Fixed

PF-37634

We've fixed a defect in the **Client Settings** menu where removing scopes using the search bar could result in removing the wrong scope.

### *JARM response with error parameter*

Fixed

PF-37688

We've fixed a defect where JARM responses with an **error** parameter caused PingFederate to return a **500** error. It now returns a **200** response with the appropriate error page.

### *Data Store Filter configuration*

Fixed

PF-36953

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ents where input contract values and  
e **Filter** configuration page when  
ocal identity mapping.

GNL expressions included in JWT  
connections not to be serialized

We've fixed a defect where unnecessary Jetty log warnings appeared after upgrading to new PingFederate versions.

### *ATM configuration error*

Fixed

PF-37716

We've fixed a defect that caused an error in PingFederate when configuring an access token manager if the administrative node (ATM) isn't the coordinator node.

### *Refresh token error*

Fixed

PF-37722

We've fixed a defect where PingFederate returned an incorrect error when a refresh token was used by a different client after the original client was deleted.

### *Data Store naming consistency*

Fixed

PF-37732

We've fixed a terminology inconsistency in the PingFederate UI and changed **Data-Store** to

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## Conclusion

`_details` parameter from the access

in the ClientHello message during a

## *willacara TLS certificate error in BCIPS mode*

Fixed

PF-37794

We've fixed a defect where PingFederate was refusing wildcard TLS certificates when running in BCFIPS mode.

### *Overly detailed Kerberos error messages*

Fixed

PF-37798

We've fixed a defect that caused lengthy stacktrace data to be included in ERROR level logging for Kerberos errors.

### *PingFailoverAppender race condition*

Fixed

PF-37816

We've fixed a defect where a race condition could cause the `PingFailoverAppender` to get stuck in a failed state without switching back to its primary appender.

### *DPoP proof JWTs with future *iat* value*

Fixed

PF-37818

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accepted DPoP proof JWTs with a

`Exception` on the admin console.

admin API during upgrade utility

## *Unused DevOps file*

Fixed

PF-37846

We've removed an unused file associated with the PingOne Advanced Identity Cloud DevOps deployment that was mistakenly included in the PingFederate Server `.zip` archive.

## *Forgot password flow failure*

Fixed

PF-37918

We've fixed a defect that caused the forgot password flow to fail when reCAPTCHA is enabled and the flow is initiated using the Enter key rather than a mouse click.

## *Password Credential Validator message override error*

Fixed

PF-37942

We've fixed a defect where overriding the reset password message in a Password Credential Validator incorrectly returned a generic `VALIDATION_ERROR` during the redirectless flow, preventing users who are required to change their password from doing so and associated `_links`.

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fail when handling invalid state

## itions

ectly used the primary PingFederate  
ail notifications.



## *URL validation for RelayState*

Fixed

PF-38028

We've fixed a defect where PingFederate would reject requests with valid, non-encoded relay state values.

## *HTML flow login and Authentication API*

Fixed

PF-38039

We've fixed a defect that could potentially allow a user to access an HTML browser sign-on page when the Authentication API redirectless mode is used.

Learn more in PingFederate unexpected template rendering in redirectless mode in the Ping Identity Support Knowledge Base.

## *New device speed bump parameter default*

Fixed

PF-38040

We've fixed a defect where the `show-speed-bump-for-new-devices` parameter in the `onRequestCheckingFilter.xml` file

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`show-speed-bump-for-new-devices` by default for new source version doesn't have the

ectly lock user accounts during an  
plies to all LDAP datastore types

Fixed

PF-38052

When PingFederate is configured to expect a JARM-secured JWT response from an IdP, it enforces this requirement by failing the transaction if a plain response is received instead, and logs the details for administrator investigation.

### *IdP Adapter duplicate attribute sources*

Fixed

PF-38060

We've fixed a defect that caused IdP adapters to duplicate attribute sources when an SP connection was updated using the Admin API.

### *Cluster Management message fix*

Fixed

PF-38116

We've fixed a defect where **Cluster Management** would present an incorrect success message although the replication failed.

### *Connection ID in Invalid Signature audit logs*

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Ensure that entries recorded for "Invalid  
d Connection ID.

wasn't being populated in templates  
ter's **Change Password** and **Forgot**

We've added trace logging to the RP-initiated logout endpoint to explicitly detail session and token claims, allowing administrators to pinpoint why the logout confirmation page isn't bypassed despite successful `id_token_hint` validation.

### *Server startup validation*

Fixed

PF-38243

We've added stricter validation during server startup so that PingFederate immediately halts the boot process and logs an error if an invalid or unrecognized value is detected for the `pf.hsm.mode` property in `run.properties`.

### *Corrected null SaasGuid*

Fixed

PF-38244

We've fixed a provisioning defect where disabled users weren't provisioned once their account was enabled and the **Provision Disabled Users** setting was set to false.

### *X-Forward-For IP*

Fixed

PF-38251

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sn't logged correctly in the

d during startup for the SCIM 2.0  
ure wasn't enabled or configured.

d to authenticate when a context

path is configured.

## Administrative API authentication fix

Fixed

PF-38393

We've fixed a defect that allowed Basic Authentication to access the Administrative API, even when it was disabled in the `pf.admin.api.authentication` property.

## OAuth error code fix

Fixed

PF-38468

We've fixed a defect where the `/as/introspect.oauth2` endpoint incorrectly returned a `500 Internal Server Error` instead of the expected `400 Bad Request` when the `token` parameter contained an invalid character like `%`.

## Known issues and limitations

### PingOne Verify IK unexpected error

Issue

PF-36573

PingFederate returns an unexpected error when you create an instance of the PingOne SDK with the Verify feature in PingOne.

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### Logout

To block third-party cookies, you might need to configure your browser (via Front-Channel) and WS-Federation.

For more information on cookie management to unblock

When you promote a passive admin console to active, the UI doesn't refresh until you perform an action.

## Multiple active admin consoles

Issue

PF-35439

When you make configuration changes on the active console (especially large configuration changes like bulk imports or data archive imports), then promote a passive console to active, it can cause multiple consoles to be active at once. This can result in inconsistent configurations.

Learn how to resolve this issue in [Resolving multiple active administrative nodes](#).

## Administrative console and administrative API

Issue

- Although PingFederate 11.3 and later support DPoP, a known limitation is that the following features don't support DPoP when PingFederate is the RP:
  - The administrative console authentication scheme using OIDC
  - The administrative API authentication scheme using OAuth 2.0

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For the administrative API are included in the administrative API support to the

may reflect a **Persistent Grant Max** election of the **Grants Do Not** you have configured such OAuth a bulk export in version 10.0 through a bulk export after upgrading to only exported data does not contain

the aforementioned flaw, and you can safely import it to version 10.0.3 (or a more recent version).

- When enabling mTLS certificate-based authentication, administrators often configure a list of acceptable client certificate issuers. When you use a browser to access the console or the administrative API documentation, PingFederate returns to the browser the list of acceptable issuers as part of the TLS handshake. If the browser's client certificate store contains multiple client certificates, the browser often presents you only the certificates whose issuer matches one of the acceptable issuers. However, when PingFederate runs in a Java 17 environment, Chrome presents you all its configured client certificates, regardless of whether the issuer matches one of the acceptable issuers or not.
- When using mTLS authentication to authenticate to an LDAP server for administrative console or administrative API access, PingFederate doesn't support using a Microsoft Active Directory server.
- Prior to toggling the status of a connection with the administrative API, you must ensure that any expired certificates or no longer available attributes are replaced with valid certificates or attributes; otherwise, the update request fails.
- When creating or updating a child instance of a hierarchical plugin, the administrative API retains objects with an `"inherited": false` name/value pair (or without such

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value of `true`, and returns a 200 response for the ignored objects.

For example, the **Back** button) causes the browser to reload the page. Use the navigation buttons to return to the administrative console.

In one browser might cause a configuration.

When you use the administrative console using certificate authentication, the console might not appear to behave as expected. For example, when a session has timed out and a browser is redirected to the sign-on page after authentication is complete. This is the expected behavior, in principle. However, because the browser uses the certificate for authentication, the browser is redirected to the console and not the sign on page.

## TLS cipher suite customization

### Issue

PingFederate's TLS cipher suites can be customized by modifying `com.pingidentity.crypto.SunJCEManager.xml` (or a similarly-named file if BCFIPS or an HSM is configured). After updating the file and replicating, all cluster nodes must be restarted for the change to take effect.

## HSMs

### Issue

#### AWS CloudHSM

- It is not possible to use an elliptic curve (EC) certificate as an SSL server certificate.
- When creating an EC certificate with a `signatureAlgorithm` smaller than the `keySize` value, a `500 Server error` occurs. For example, a `signatureAlgorithm` of `SHA256withECDSA` with a `keySize` of `384` results in an error. Learn more in ECDSA signing fails with "invalid mechanism" error starting with SDK 5.16 [↗](#) in the CloudHSM documentation.

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17 or 21.

s issue only arises if PingFederate is t keys, a static key is stored on the rrypted with this key.

. server certificate.

17.

s issue only arises if PingFederate is t keys, a static key is stored on the rrypted with this key.

hatted EC certificate.

- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 isn't currently supported with Oracle JDK 17.

## SSO and SLO

### Issue

- When consuming SAML metadata, PingFederate does not report an error when neither the `validUntil` nor the `cacheDuration` attribute is included in the metadata. Note that PingFederate does reject expired SAML metadata as indicated by the `validUntil` attribute value, if it is provided.
- The anchored-certificate trust model cannot be used with the single logout (SLO) redirect binding because the certificate cannot be included with the logout request.
- If an IdP connection is configured for multiple virtual server IDs, PingFederate will always use the default virtual server ID for IdP Discovery during an SP-initiated SSO event.

## Composite Adapter configuration

### Issue

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through a Composite Adapter instance  
ter.

user accounts without the permission

g convention for OAuth client ID  
rver. For example, after creating a



client with an ID value of `sampleClient`, PingFederate does not allow the creation of another client with an ID value of `SampleClient`.

Although it's possible to create clients using the same ID values with different casings when client records are stored in XML files, a database server, or custom storage, we recommend not doing so to avoid potential record migration issues.

## Customer identity and access management

### Issue

Some browsers display a date-picker user interface for fields that have been designed for date-specific inputs. Some browsers do not. If one or more date-specific fields are defined on the registration page or the profile management page (or both), end users must enter the dates manually if their browsers do not display a date-picker user interface for those fields.

## Provisioning

### Issue

- LDAP referrals return an error and cause provisioning to fail if the `user` or `group` is not in an OU or within the Users CN.

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indicates the number of results returned versus the estimated results on the LDAP server.

working in an IdP adapter or IdP  
OAuth's persistent grant `USER_KEY`  
logged in the server logs. Other

masking in an IdP adapter and the  
the user key, the user key attribute is

## Database logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant `USER_KEY` attribute, the `USER_KEY` attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## RADIUS NAS-IP-Address

### Issue

The RADIUS NAS-IP-Address is only included in Access-Request packets when the `pf.bind.engine.address` is set with an IPv4 address. IPv6 is not supported.

## Amazon SNS Notification Publisher

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plugins based on the AWS SDK, such as  
r the `http.proxyHost`,  
`proxyPassword` properties in  
rties even if the service URL is `https`.

## *Log4j update to 2.25.4*

**Security**

PF-39063

We updated `log4j-core`, `log4j-1.2-api`, and `log4j-layout-template-json` to version 2.25.4 to address potential security vulnerabilities.

## *Response code for refresh token exchange failure with revoked user session*

**Fixed**

PF-38656

We fixed a defect that caused a refresh token for access token exchange to fail with `500 Internal Server Error` instead of `400 Bad Request` when the user's sessions had been revoked.

## *Extended Property Authentication Selector dependency error warning*

**Fixed**

PF-38901

We fixed a defect that caused PingFederate to continue displaying a dependency error warning for the Extended Property Authentication Selector after the selector instance is

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connections without explicitly configured

### *d signing keys*

VT access token when multiple JWT  
ngFederate now identifies the ATM  
n.

# PingFederate 12.3.6 (April 2026)

## New features & enhancements

### *Unconnected cluster node startup*

**Improved**

PF-38898

We added the `force.require.replication.data.on.startup` parameter to the `cluster-config-replication.conf` file.

This parameter lets you prevent an engine node from starting up without establishing a connection to the cluster.

Learn more in [Cluster management](#).

## Resolved issues

### *OGNL code test*

**Security**

PF-38742

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administrative expression testing  
ed to appropriately privileged roles,  
missions.

### *Grant storage*

fail when persistent grants are stored

We fixed a defect that caused OAuth and JWT authentication through the Admin API to fail when the `role attribute name` parameter used the scope claim containing space-delimited values.

### *Multiple Sign-On Delay routing*

Fixed

PF-38801

We fixed a defect that caused PingFederate to route users to the base URL for the Multiple Sign-On Delay page when they should've been routed to the virtual host URL.

### *Custom Authentication Selector error*

Fixed

PF-38875

We fixed a defect that prevented viewing or editing certain custom Authentication Selectors in the admin console.

### *Dynamic JWKS rotation timer*

Fixed

PF-38903

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on timing from resetting after a node

`targetResource` values.

2026)

Info

PF-38526

We've added a new configuration option to limit the Pushed Authorization Request (PAR) to the parameters mentioned in the specification when the connection is configured to use JWT-secured Authorization Request (JAR).

## Resolved issues

### *User Enumeration in Policy Password Reset*

Security

PF-38628

PingFederate now prevents user enumeration in the **Policy** mode **Password Reset** flow by eliminating the observable difference between valid and invalid usernames.

### *Serialized OGNL Java objects*

Fixed

PF-37405

We've fixed a defect that caused JSON objects using OGNL expressions included in JWT request objects sent to the OIDC provider in OIDC IdP connections not to be serialized properly.

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When creating, updating, or testing a connection, the `enableContextAttribute` parameter was set to `false` in the `connection.xml` file.

When configuring authentication policies with a Requested Authentication Context Attribute enabled.

# PingFederate 12.3.4 (December 2025)

---

## Resolved issues

### *URL validation for RelayState*

Fixed

PF-38028

We've fixed a defect where PingFederate would reject requests with valid, non-encoded relay state values.

### *LDAP account lockout*

Fixed

PF-38043

We've fixed a defect where PingFederate could incorrectly lock user accounts during an LDAP connectivity failure with Active Directory. This applies to all LDAP datastore types except for Generic LDAP.

### *Cluster Management message fix*

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ould present an incorrect success

wasn't being populated in templates  
ter's **Change Password** and **Forgot**

We've fixed a provisioning defect where disabled users weren't provisioned after their account was enabled and the **Provision Disabled Users** setting was set to false.

### ***X-Forward-For IP***

Fixed

PF-38251

We've fixed a defect where the `X-Forward-For` IP wasn't logged correctly in the `admin.log`.

### ***Kerberos Adapter redirect URL***

Fixed

PF-38328

We've fixed a defect where the Kerberos Adapter failed to authenticate when a context path is configured.

### ***JWT Admin API authentication misconfiguration***

Fixed

PF-38336

We've fixed a defect that caused PingFederate to crash or shut down when attempting to [Token \(JWT\)](#) authentication setup.

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to access the Administrative API, `authentication` property.

`api.flow` in Pushed Authorization  
an `INVALID_REQUEST` error.



# PingFederate 12.3.3 (October 2025)

---

## Resolved issues

### *TLS 1.3 support for Oracle Java 21*

Info

PF-37849

We've added support for TLS 1.3 for Oracle Java 21 with Thales and Entrust HSMS.

### *Forgot password flow failure*

Fixed

PF-37918

We've fixed a defect that caused the forgot password flow to fail when reCAPTCHA is enabled and the flow is initiated using the Enter key rather than a mouse click.

### *Virtual hostname accuracy in email notifications*

Fixed

PF-37964

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ectly used the primary PingFederate  
ail notifications.

`r-new-devices` parameter in the  
`onRequestCheckingFilter.xml` file

`ew-devices` by default for new  
ource version doesn't have the

Fixed

PF-38060

We've fixed a defect that caused IdP adapters to duplicate attribute sources when an SP connection was updated using the Admin API.

## *HTML flow login and Authentication API*

Fixed

PF-38039

We've fixed a defect that could potentially allow a user to access an HTML browser sign-on page when the Authentication API redirectless mode is used.

Learn more in PingFederate unexpected template rendering in redirectless mode in the Ping Identity Support Knowledge Base.

## Known issues and limitations

### *HSMs*

Issue

#### AWS CloudHSM

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icate as an SSL server certificate.

Algorithm smaller than the  
or example, a signatureAlgorithm

sults in an error. Learn more in  
or starting with SDK 5.16 [↗](#) in the

11, 17, or 21.

s issue only arises if PingFederate is  
t keys, a static key is stored on the  
rypted with this key.

.server certificate.

- TLS 1.3 isn't currently supported with Oracle JDK 11 or 17.

#### Entrust HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to import a PKCS12- or PEM-formatted EC certificate.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 isn't currently supported with Oracle JDK 11 or 17.

## PingFederate 12.3.2 (September 2025)

---

### New features and enhancements

#### *Jetty library*

[info](#)

PF-37936

We've upgraded the Jetty library to version 10.0.26

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version is certified to operate in  
e 140-3.

I certificate linking to appear to  
ously used in the environment.

## ***authorization\_details access token inclusion***

Fixed

PF-37743

We've fixed a defect that omitted the `authorization_details` parameter from the access token if the value was an empty array.

## ***Overly detailed Kerberos error messages***

Fixed

PF-37798

We've fixed a defect that caused lengthy stacktrace data to be included in ERROR level logging for Kerberos errors.

## ***PingFailoverAppender race condition***

Fixed

PF-37816

We've fixed a defect where a race condition could cause the `PingFailoverAppender` to get stuck in a failed state without switching back to its primary appender.

## ***Admin console ClassNotFoundException error***

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`Exception` errors in the admin

cation method for the admin AP

We’ve removed an unused file associated with the PingOne Advanced Identity Cloud DevOps deployment that was mistakenly included in the PingFederate Server `.zip` archive.

# PingFederate 12.3.1 (August 2025)

## New features and enhancements

### Apache version upgrade

New

PF-37674

We’ve upgraded the Apache `commons-fileupload` version to 1.6.0.

## Resolved issues

### Admin console IP exposure

Security

PF-33113

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allowed malicious parties to extract the  
ough HTTP Response headers.

allowed malicious parties to redirect  
ost header.

Detailed Password Policy  
n errors to not show up in the Authn

API.

## *Firefox Kerberos negotiation*

Fixed

PF-37559

We've fixed a defect that caused Kerberos negotiations to fail with Firefox after the initial exchange.

## *CSD error in BCFIPS mode*

Fixed

PF-37667

We've fixed a defect that caused an error in the CSD when running in BCFIPS mode.

## *IdP connection Admin API error*

Fixed

PF-37670

We've fixed a defect that caused a failure when creating or updating an IdP connection with the **CLAIMS** source type in JIT provisioning user attribute mapping using the Administrative API.

## *Admin console and API alignment*

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d configuring an IdP connection  
error. The Admin API no longer

**error** parameter caused PingFederate  
with the appropriate error page.

Fixed

PF-37716

We've fixed a defect that caused an error in PingFederate when configuring an access token manager if the administrative node (ATM) isn't the coordinator node.

### ***Write Users attributes causing validation failures***

Fixed

PF-37776

We've fixed a defect where certain SCIM attribute mappings were incorrectly causing validation failures when updating IdP connections through the Admin API.

### ***SNI extension error in BCFIPS mode***

Fixed

PF-37793

PingFederate now always includes the SNI extension in the ClientHello message during a TLS handshake when running in BCFIPS mode.

### ***Wildcard TLS certificate error in BCFIPS mode***

Fixed

PF-37794

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wildcard TLS certificates when

w PingFederate responds when

This feature can improve user experience by allowing PingFederate to continue processing transactions when logging fails.

Learn more in [Configuring audit log failure settings](#).

### ***Remove IP address from account lockout criteria***

**New**

PF-36818

We've added the ability to remove a user's IP address from consideration when making account lockout decisions.

This can improve security by preventing malicious actors from masking their IP address to bypass account lockouts.

Learn more in [Configuring account lockout protection](#).

### ***CORS support for admin API endpoints***

**New**

PF-36856

We've added a feature that allows you to grant [cross-origin resource sharing \(CORS\)](#) access to administrative API endpoints.

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Applications like PingAccess to perform

Settings.

Introspection endpoint as part of an  
ature as part of a policy, but the

determine whether a user's ID token is



Learn more in [Configuring policy and ID token settings and Introspection endpoint](#).

### *Always return scopes in client credentials response*

**New**

PF-36862

We've added a feature that allows you to always return the scope parameter in the response to client credential requests.

This allows you return scopes if clients require scopes that users haven't authorized.

Learn more in [Returning scopes in authorization transactions](#)

### *Link and store CloudHSM keys*

**New**

PF-36871

PF-37272

We've added a feature that allows you to link private keys stored in [Amazon Web Services \(AWS\)](#) CloudHSM with their certificates, and store it in PingFederate's Java keystore.

This allows you to use existing private key and certificate pairs associated with your CloudHSM instance in PingFederate.

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in the `audit.log`, `request.log`,

errors.

We've added a feature that gives you the option to include a duplicate RSA key with the RS256 algorithm. You can enable this option by setting the `add-duplicate-rs256-alg-key` parameter in the `<pingfed-install>/pingfederate/server/default/data/config-store/jwks-endpoint-configuration.xml` file to `true`.

## HTTP request logging

**New**

PF-36976

We've updated the logging for HTTP requests to the runtime engine and admin console. These requests are now logged to the `runtime-request.log` and `admin-request.log` files. Like other PingFederate logs, you can configure outputs for these files in `log4j2.xml`.

This improves logging efficiency and customization by writing HTTP request logs using the same configurations as other PingFederate log files.

Learn more in [HTTP request logging](#).

## Revoke previous client secrets

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ous OAuth client secrets.

ts that are no longer in use. For  
e the old secret's grace period ends,  
t.

oDB relies on the DynamoDB Time to  
s from the database. Learn more in

## ***Publish certificate for dynamic keys***

**New**

PF-37219

We've added a feature that allows dynamic signing keys to publish their public certificates on the JWKS endpoint as an `x5c` parameter. Learn more in [Configuring dynamic signing keys](#)

## ***SCIM 2.0 supported for inbound user provisioning***

**New**

PF-37230

PingFederate now supports the SCIM 2.0 protocol for inbound user provisioning. Learn more in [System for Cross-domain Identity Management \(SCIM\)](#).

## ***User session quotas***

**New**

PF-37238

We've added a feature that allows you to limit the number of sessions a user can have active at one time and configure how PingFederate responds when that quota is exceeded.

active user sessions that have access to

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7

e `client_assertion` for JWT-based

S:

Learn more in [Configuring OpenID Provider information](#).

### ***Bouncy Castle FIPS 2.0 compatibility***

[Info](#)

PF-36846

We've upgraded Bouncy Castle to version 2.0. This versions is certified to operate in Federal Information Processing Standards (FIPS) mode 140-3.

### ***Java 21 compatibility***

[Info](#)

PF-36857

We've confirmed that PingFederate is compatible with Java 21.

### ***Red Hat Enterprise Linux 8.10 compatibility***

[Info](#)

PF-36972

We've confirmed that PingFederate is compatible with Red Hat Enterprise Linux ES 8.10.

### ***Integration Kit template parameters***

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template parameters for all

ole user-facing pages.

collapses long lists of authentication  
lapse these lists as needed, making it

verview, providing a list of the

## ***NATIVE\_S3\_PING update***

[Info](#)

PF-37234

We've updated the behavior of the NATIVE\_S3\_PING discovery protocol when the `remove_all_data_on_view_change` parameter is active.

Previously, the protocol would delete all files in the S3 bucket, which could lead to the creation of an unwanted subcluster.

Now the protocol deletes all files except for its own to prevent the S3 bucket from being empty.

Learn more in [Dynamic cluster discovery](#).

## ***Java Service Wrapper update***

[Info](#)

PF-37236

We've updated the Java Service Wrapper to the latest version, 3.5.60.

Learn more in the [Tanuki release notes](#) [↗](#).

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Amazon Aurora MySQL 3.09.

region, `pingone.sg`.

Security

PF-36745

We've fixed a security vulnerability that could allow denial of service attacks using legacy `d3-color` library versions.

### *Refresh token MySQL deadlocks*

Fixed

PF-35868

We've fixed a defect that caused multiple refresh token requests in short succession to result in [Java database connectivity \(JDBC\)](#) data source deadlocks and duplicated data entry into the database.

This feature can cause significant performance issues if PingFederate or the JDBC data source have insufficient resources.

### *Reencrypt data archive failure with KMS*

Fixed

PF-36487

We've fixed a defect where importing a valid configuration data archive with **Reencrypt Data** enabled failed with a `Could not reencrypt data archive` error message when using [Amazon Web Services Cloud Platform Key Management](#).

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nts that have passed idle timeout, storage.

reating or updating an access token

## *Refresh token error when authorization bypass enabled*

Fixed

PF-36851

We've fixed a defect that caused PingFederate to return a revoked or expired consent error when both **Bypass Authorization Approval** and **Bypass Authorization Approval for Previously Approved Consents** are enabled.

## *This is My Device error on HTML Form Adapter*

Fixed

PF-36864

We've fixed a defect that caused PingFederate to behave inconsistently when **This is My Device** is selected and an HTML Form Adapter instance has more than one session configuration in the session overrides.

## *TLS connection in BCFIPS mode*

Fixed

PF-36865

We've fixed a defect where PingFederate could not accept a TLS 1.2 connection in BCFIPS mode on Java 17.

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user group membership information  
ning operations.

ersion 9.5.53 caused HTTP header  
ial characters.

ect

Fixed

PF-37012

We've fixed a defect that caused the HTML Form Adapter Change Password using an authentication policy to fail when PingOne Protect is the risk provider.

### ***OGNL expressions with SDK classes***

Fixed

PF-37021

We've fixed a defect that caused OGNL expressions to fail to load when they contained SDK classes.

### ***RP-initiated logout error***

Fixed

PF-37173

We've fixed a defect that caused PingFederate to ignore the `id_token_hint` value during [relying party \(RP\)](#)-initiated logout when the OAuth client logout mode is set to `None`.

### ***Log rotation policy ignored***

Fixed

PF-37237

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the log file size limit and rotation `policy` parameter.

be omitted when an OAuth client

"end" error occurs when an `id_token_hint` parameter that doesn't match the



connection's primary issuer, but is added as an additional issuer.

### ***Simultaneous Administrative API requests***

**Fixed**

PF-37448

We've fixed a defect that caused configuration replication to fail when two or more simultaneous DELETE requests were sent to the Administrative API.

### ***Unnecessary ID token reissued with secondary client secret***

**Fixed**

PF-37450

We've fixed a defect that caused the token endpoint to unnecessarily reissue an ID token when using a secondary client secret and an asymmetric algorithm for token signing and encryption.

### ***Apache Commons BeanUtils***

**Fixed**

PF-37507

PingFederate now uses the Apache Commons BeanUtils library version 1.11.0.

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al prevented configurations from

d URL characters such as / couldn't

## *PingOne Verify IK unexpected error*

Issue

PF-36573

PingFederate returns an unexpected error when you create an instance of the PingOne Verify Integration Kit version 2.2.2 in PingFederate with the Verify feature in PingOne disabled.

## *Third-party cookie blocking affecting single logout*

Issue

PF-35772

Due to multiple vendors' recent browser versions that block third-party cookies, you might experience issues related to single logout with OIDC (via Front-Channel) and WS-Federation.

Refer to browsers' documentation regarding third-party cookie management to unblock them, if feasible.

## *Passive admin console UI refresh*

Issue

PF-35643

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the UI doesn't refresh until you

console (especially large configuration  
en promote a passive console to  
ce. This can result in inconsistent

active administrative nodes.

**PI**

- Although PingFederate 11.3 and later support DPoP, a known limitation is that the following features don't support DPoP when PingFederate is the RP:
  - The administrative console authentication scheme using OIDC
  - The administrative API authentication scheme using OAuth 2.0
- /bulk: Only resource types currently supported by the administrative API are included in the exported data. We don't intend to introduce administrative API support to the following areas:
  - SAML 2.0 IdP Discovery
  - SAML 2.0 SP Affiliation
  - SMS Provider
- Previously, the administrative API did not accurately reflect a **Persistent Grant Max Lifetime** setting of 29 days (or shorter) with the selection of the **Grants Do Not Timeout Due To Inactivity** option. As a result, if you have configured such OAuth authorization server settings and have generated a bulk export in version 10.0 through 10.0.2, we recommend that you re-generate a new bulk export after upgrading to version 10.0.3 (or a more recent version). The newly exported data does not contain the aforementioned flaw, and you can safely import it to version 10.0.3 (or a more recent version).

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tion, administrators often configure a  
ou use a browser to access the  
PingFederate returns to the browser  
ndshake. If the browser's client  
s, the browser often presents you  
the acceptable issuers. However,  
; Chrome presents you all its  
er the issuer matches one of the

to an LDAP server for administrative  
e doesn't support using a Microsoft

ne administrative API, you must  
available attributes are replaced with  
ate request fails.

- When creating or updating a child instance of a hierarchical plugin, the administrative API retains objects with an `"inherited": false` name/value pair (or without such name/value pair altogether), ignores those with a value of `true`, and returns a 200 HTTP status code. No error messages are returned for the ignored objects.
- Using the browser's navigation mechanisms (for example, the **Back** button) causes inconsistent behavior in the administrative console. Use the navigation buttons provided at the bottom of windows in the PingFederate console.
- Using the PingFederate console in multiple tabs on one browser might cause inconsistent behavior which could corrupt its configuration.
- If authenticated to the PingFederate administrative console using certificate authentication, a session that has timed out might not appear to behave as expected. Normally (when using password authentication), when a session has timed out and a user attempts some action in the console, the browser is redirected to the sign-on page, and then back to the administrative console after authentication is complete. Similar behavior applies for certificate authentication, in principle. However, because the browser might automatically resubmit the certificate for authentication, the browser might redirect to the administrative console and not the sign on page.

## *TLS cipher suite customization*

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modifying

or a similarly-named file if BCFIPS or an  
ing, all cluster nodes must be

icate as an SSL server certificate.

Algorithm smaller than the

or example, a `signatureAlgorithm`

of `SHA256withECDSA` with a `keySize` of `384` results in an error. Learn more in ECDSA signing fails with "invalid mechanism" error starting with SDK 5.16 [↗](#) in the CloudHSM documentation.

- TLS 1.3 is not currently supported with Oracle JDK 11, 17, or 21.

#### Thales HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 is not currently supported with Oracle JDK 11, 17, or 21.

#### Entrust HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to import a PKCS12- or PEM-formatted EC certificate.
- It is not possible to use an EC certificate as an SSL server certificate.

• TLS 1.3 is not currently supported with Oracle JDK 11, 17, or 21.

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does not report an error when neither state is included in the metadata. Note the metadata as indicated by the `validUntil`

used with the single logout (SLO) request is included with the logout request.

multiple server IDs, PingFederate will perform recovery during an SP-initiated SSO

## Composite Adapter configuration

Issue

SLO is not supported when users are authenticated through a Composite Adapter instance that contains another instance of the Composite Adapter.

## Self-service password reset

Issue

Passwords can be reset for Microsoft Active Directory user accounts without the permission to change password.

## OAuth

Issue

PingFederate does not support a case-sensitive naming convention for OAuth client ID values when client records are stored in a directory server. For example, after creating a client with an ID value of `sampleClient`, PingFederate does not allow the creation of another client with an ID value of `SampleClient`.

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ID values with different casings when  
er, or custom storage, we recommend  
s.

r fields that have been designed for  
more date-specific fields are defined  
age (or both), end users must enter  
date-picker user interface for those

- LDAP referrals return an error and cause provisioning to fail if the **user** or **group** objects are defined at the DC level, and not within an OU or within the Users CN.
- The **totalResults** value in SCIM responses indicates the number of results returned in the current response, not the total number of estimated results on the LDAP server.

## Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant **USER\_KEY** attribute, the **USER\_KEY** attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

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- OAuth's persistent grant **USER\_KEY** linked in the server logs. Other

masking in an IdP adapter and the user key, the user key attribute is

- Request packets when the
- IPv6 is not supported.

## Amazon SNS Notification Publisher

Issue

When deploying PingFederate with a forward proxy, plugins based on the AWS SDK, such as the Amazon SNS Notification Publisher, will only honor the `http.proxyHost`, `http.proxyPort`, `http.proxyUser`, and `http.proxyPassword` properties in `run.properties`. The plugin will rely on these properties even if the service URL is `https`.

## Deprecated features

No features were deprecated for PingFederate 12.3.

## PingFederate 12.2.8 (May 2026)

---

### New features & enhancements

#### *Unconnected cluster node startup*

Improved

PF-38898

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`on.startup` parameter to the

starting up without establishing a



We improved role-based access control (RBAC) for the administrative expression testing endpoint. Access to expression evaluation is now limited to appropriately privileged roles, ensuring alignment with intended administrative permissions.

### ***Multiple Sign-On Delay routing***

Fixed

PF-38801

We fixed a defect that caused PingFederate to route users to the base URL for the Multiple Sign-On Delay page when they should've been routed to the virtual host URL.

### ***Custom Authentication Selector error***

Fixed

PF-38875

We fixed a defect that prevented viewing or editing certain custom Authentication Selectors in the admin console.

### ***Extended Property Authentication Selector dependency error warning***

Fixed

PF-38901

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e displaying a dependency error  
ector after the selector instance is

on timing from resetting after a node

2026)

## *Kerberos Adapter redirect URL*

Fixed

PF-38328

We've fixed a defect where the Kerberos Adapter failed to authenticate when a context path is configured.

## *JWT Administrative API authentication misconfiguration*

Fixed

PF-38336

We've fixed a defect that caused PingFederate to crash or shut down when attempting to access the Administrative API with a misconfigured [JWT](#) authentication setup.

## *Administrative API authentication fix*

Fixed

PF-38393

We've fixed a defect that allowed Basic Authentication to access the Administrative API, even when it was disabled in the `pf.admin.api.authentication` property.

## *api.flow response mode fix*

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`api.flow` in Pushed Authorization  
an `INVALID_REQUEST` error.

Authentication policies with a Requested  
**thN Context Attribute** enabled.

er 2025)

## Resolved issues

### *PingFailoverAppender race condition*

Fixed

PF-37816

We've fixed a defect where a race condition could cause the `PingFailoverAppender` to get stuck in a failed state without switching back to its primary appender.

### *Virtual hostname accuracy in email notifications*

Fixed

PF-37964

We've fixed a defect where a template variable incorrectly used the primary PingFederate base URL instead of the virtual hostname in some email notifications.

### *URL validation for RelayState*

Fixed

PF-38028

We've fixed a defect where PingFederate would reject requests with valid, non-encoded relay state values.

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## Compress

ils library version 1.11.0 and the

to access an HTML browser sign-on  
s used.

Learn more in PingFederate unexpected template rendering in redirectless mode in the Ping Identity Support Knowledge Base.

### ***LDAP account lockout***

**Fixed**

PF-38043

We've fixed a defect where PingFederate could incorrectly lock user accounts during an LDAP connectivity failure with Active Directory. This fix applies to all LDAP datastore types except for Generic LDAP.

### ***IdP Adapter duplicate attribute sources***

**Fixed**

PF-38060

We've fixed a defect that caused IdP adapters to duplicate attribute sources when an SP connection was updated using the Admin API.

### ***Corrected null SaaSGuid***

**Fixed**

PF-38244

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s weren't provisioned once their  
rs setting was set to false.

## 025)

owed malicious parties to extract the  
ugh HTTP Response headers.

Security

PF-37460

We've fixed a security vulnerability that could have allowed malicious parties to redirect PingFederate admin console traffic using a spoofed Host header.

### *PingFederate error messaging*

Fixed

PF-36991

We've fixed an issue by adding a missing property to `pingfederate-messages.properties`.

### *JARM response with error parameter*

Fixed

PF-37688

We've fixed a defect where JARM responses with an `error` parameter caused PingFederate to return a `500` error. It now returns a `200` response with the appropriate error page.

### *ATM configuration error*

Fixed

PF-37716

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ate when configuring an access token  
rdinator node.

n the ClientHello message during a

e

wildcard TLS certificates when

## ***ClassNotFoundException error***

Fixed

PF-37819

We've fixed an issue that could cause `ClassNotFoundException` on the admin console.

## ***JWT API authentication method***

Fixed

PF-37841

We've added JWT as an authentication method for the admin API during upgrade utility validation.

# PingFederate 12.2.4 (June 2025)

## New features and enhancements

### ***PingOne Singapore region***

Info

PF-37451

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region, `pingone.sg`.

n requests in short succession to  
ata entry into the database.

if PingFederate or the JDBC data

e

Fixed

PF-37398

We've fixed a defect that caused the Collect Support Data tool to fail when executed in the admin console when running PingFederate as a Windows service.

### *Unnecessary ID token reissued with secondary client secret*

Fixed

PF-37450

We've fixed a defect that caused the token endpoint to unnecessarily reissue an ID token when using a secondary client secret and an asymmetric algorithm for token signing and encryption.

### *Firefox Kerberos negotiation*

Fixed

PF-37559

We've fixed a defect that caused Kerberos negotiations to fail with Firefox after the initial exchange.

## PingFederate 12.2.3 (May 2025)

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sions is certified to operate in Federal

discovery protocol when the  
tive.

Previously, the protocol would delete all files in the S3 bucket, which could lead to the creation of an unwanted subcluster.

Now the protocol deletes all files except for its own to prevent the S3 bucket from being empty.

Learn more in [Dynamic cluster discovery](#).

## Resolved issues

### *RP-initiated logout error*

**Fixed**

PF-37173

We've fixed a defect that caused PingFederate to ignore the `id_token_hint` value during RP-initiated logout when the OAuth client logout mode is set to `None`.

### *Log rotation policy ignored*

**Fixed**

PF-37237

We've fixed a defect that caused PingFederate to ignore the log file size limit and rotation `cy` parameter.

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be omitted when an OAuth client

25)



Fixed

PF-37046

We've fixed a defect where PingFederate failed to create or update [service provider \(SP\)](#) connections when using additional attributes from a data store in OGNL expressions, affecting both the `spConnections` endpoint in the Administrative API and the **Import Connection** process in the Admin console.

### *HTTP connection pool tracking*

Fixed

PF-37126

We've fixed a defect that could cause PingFederate to generate a large number of metric objects unnecessarily when making HTTP requests, which affected performance.

## PingFederate 12.2.1 (February 2025)

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### New features and enhancements

#### *Duplicate RSA key*

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Include a duplicate RSA key with the  
the `add-duplicate-rs256-alg-`

`nfig-store/jwks-endpoint-`

Red Hat Enterprise Linux ES 8.10.

## *Access token manager Admin API error*

Fixed

PF-36845

We've fixed a defect that caused a `500` error when creating or updating an access token manager using the Administrative API.

## *Refresh token error when authorization bypass enabled*

Fixed

PF-36851

We've fixed a defect that caused PingFederate to return a revoked or expired consent error when both **Bypass Authorization Approval** and **Bypass Authorization Approval for Previously Approved Consents** are enabled.

## *This is My Device error on HTML Form Adapter*

Fixed

PF-36864

We've fixed a defect that caused PingFederate to behave inconsistently when **This is My Device** is selected and an HTML Form Adapter instance has more than one session configuration in the session overrides.

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Accept a TLS 1.2 connection in BCFIPS

user group membership information  
ning operations.

ect

Fixed

PF-37012

We've fixed a defect that caused the HTML Form Adapter Change Password using an authentication policy to fail when PingOne Protect is the risk provider.

### *OGNL expressions with SDK classes*

Fixed

PF-37021

We've fixed a defect that caused OGNL expressions to fail to load when they contained SDK classes.

## PingFederate 12.2 (December 2024)

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New features and improvements in PingFederate 12.2.

### New features and enhancements

#### *Extended properties in adapter contract mapping*

New

PF-36314

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Added properties in adapter contract

Added properties as values for attributes in datastore.

Statement and Defining issuance criteria

#### *token exchange policy*

Added properties in token generator

ings.

This improves flexibility by allowing you to use extended properties in token generation and exchange operations. You can also use extended properties as lookup values from your data store.

### *Extended properties in IdP and SP connections*

**New**

PF-36316

We've added the ability for PingFederate to read extended properties in adapter and authentication policy contract (APC) mappings for browser single sign-on (SSO).

This improves flexibility by allowing you to use extended properties in identity provider (IdP) and service provider (SP) connections.

Learn more in [Configuring target session fulfillment](#).

### *Kerberos token validation without direct KDC communication*

**New**

PF-35864

We've added support for Kerberos validation when PingFederate is deployed in the cloud without direct Key Distribution Center (KDC) connectivity.

...te to validate Kerberos tickets locally

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...Kerberos realms.

...and fragments used during  
...n their respective log files:

...UG level)

...ation request (DEBUG level)

... NO match found for rules (DEBUG level)

- `audit.log`
  - Policies used in authentication request (INFO level)

Learn more about the `audit.log` changes in Security audit logging.

## *URL-encoded certificate headers*

**New**

PF-36649

We've added a feature that allows PingFederate to consume URL-encoded client certificate headers.

This improves compatibility with NGINX mTLS-terminating reverse proxy.

Learn more in [Configuring incoming proxy settings](#).

## *Automatic configuration data upgrade*

**New**

PF-34426

We've added a feature that automatically upgrades an imported configuration data archive from an older version of PingFederate to be compatible with the current version.

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ingFederate by allowing you to  
grade Utility.

orting and deploying admin console

omatically replicate configuration  
oaded to the drop-in deployer.

es have the same configuration data.

figuration-archive deployment.

## *Token exchange processor policies in persistent grants*

**New**

PF-35857

We've added a feature that allows you to also get a refresh token during OAuth token exchange.

This allows you to make extended interactions without using long-lived access tokens received from token exchange.

Learn more in [Managing processor policy grant mapping](#).

## *Token Endpoint response customization*

**New**

PF-35863

We've added a feature that allows you to customize which attributes are returned in the Token Endpoint response based on the scopes that are included in the request.

This improves flexibility by giving you more control over where PingFederate can return attributes.

Learn more in [Defining the token endpoint management contract](#).

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the API. When access to the  
MT authorization, and the access  
error and error\_description in

code and description when

'd

We've added an optional description field to the CIDR Authentication Selector.

This helps you keep track of your defined network ranges by giving them an easily identifiable name.

Learn more in [Configuring the CIDR Authentication Selector](#).

### *ID token included in token exchange*

**New**

PF-35859

We've added a feature that allows PingFederate to include an ID token along with an access token and refresh token in OAuth token exchanges.

This can improve your end-user experience by passing ID token information along with access tokens during SSO and other token exchange operations.

Learn more in [Configuring policy and ID token settings](#).

### *Logs in JSON format*

**New**

PF-36317

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most PingFederate logs through the

performance by producing logs in an

port data using the administrative

e by allowing you to more easily

Learn more in [Collecting support data in the admin console](#).

## *OAuth client name in HTML form templates*

**New**

PF-29353

We've added the ability to include the name of OAuth clients in HTML form login templates. You can use the `$escape` utility with the `$clientName` variable to include the client name.

This allows you to track the name of the client you use when customizing user-facing login pages.

Learn more in [Customizable user-facing pages](#).

## *TLS 1.3 support for HSMs*

**New**

PF-35854

We've added TLS 1.3 support for Hardware Security Modules (HSMs). New installations of PingFederate will have TLS 1.3 enabled by default when in HSM mode.

This improves security by adding TLS by default to your HSM, and streamlines the HSM configuration process by removing a step to manually add TLS.

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### Settings

urn ID tokens when issuing OpenID

ing device authorization flows. For  
e authorization message.

gs.



We've added support for Google Cloud Key Management System (KMS).

This improves security by allowing you to encrypt the master key file when PingFederate is running in Google Cloud Platform.

Learn more in [Implementing a MasterKeyEncryptor using Google Cloud KMS](#).

### ***Disable `MaxMaliciousActions` parameter globally***

**New**

PF-36298

We've made it possible to globally disable the `MaxMaliciousActions` parameter in the `<pf-install>/pingfederate/server/default/data/config-store/com.pingidentity.common.security.AccountLockingService.xml` file.

This prevents an issue during upgrades where PingFederate unintentionally locks out an OAuth client when it tries to revoke invalid Reference Bearer Access Tokens.

### ***Override `MaxMaliciousActions` parameter for OAuth client***

**New**

PF-36299

We've made it possible to override the `MaxMaliciousActions` parameter in the `<pf-install>/pingfederate/server/default/data/config-store/com.pingidentity.common.security.AccountLockingService.xml` file as it

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derate unintentionally locks out an  
Access Tokens.

en it's the client, not the account,

gs and Managing client configuration

We've added new feature that allows clients to access the Administrative API using a [JWT](#).

This improves flexibility by adding a new secure method for your applications to access PingFederate administrative functions.

Learn more in [Enabling JWT authorization](#).

### *OAuth Admin API access token scopes are optional*

**New**

PF-36588

PingFederate can now accept OAuth access tokens without scopes through the Admin API.

### *JGroups maximum thread pool size*

**New**

PF-34715

We've moved the setting for JGroups maximum thread pool size from `tcp.xml` and `udp.xml` to `run.properties`.

This new parameter in the `run.properties` file allows you to configure your JGroups thread pool more easily and ensure that changes are carried over during upgrade.

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at property to the `run.properties` runtime log request.

log format, which is helpful for

We've added support for Google reCAPTCHA Enterprise.

reCAPTCHA Enterprise can handle higher volumes of assessment transactions and offers more levels of bot score granularity.

Learn more in [Configuring Google reCAPTCHA Enterprise](#).

### *UserInfo endpoint JWT support*

New

PF-35862

We've added JSON web token (JWT) support to PingFederate's UserInfo endpoint when acting as the OpenId provider (OP). As the relying party (RP), PingFederate now supports consuming JWT-based responses from other OPs UserInfo endpoint.

This improves security by replacing information sent in JSON form with a signed token, an encrypted token, or both.

Learn more in [Configuring OAuth clients and OAuth Client Management Service](#).

### *Improved provisioner logging*

Improved

PF-28890

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.log file to capture data about users  
ning cycles. We've also added new  
g and provisioner-audit.log

on about provisioning operations

o version 2.2.2.

## *PingOne MFA Integration Kit update*

**Improved**

PF-36573

The PingOne MFA Integration Kit has been updated to version 2.5.

## *Microsoft EAM*

PingFederate now supports Microsoft External Authentication Method (EAM) to handle [multi-factor authentication \(MFA\)](#) flows with PingID or other MFA integrations.

Learn more in Microsoft EAM Integration Kit.

## *Active Directory 2022 compatibility*

**Info**

PF-35782

We've confirmed that PingFederate 12.2 and 12.1 are compatible with Microsoft Active Directory 2022.

## *PostgreSQL 16.4 and 17 compatibility*

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compatible with PostgreSQL versions

ity

Amazon Aurora PostgreSQL version

## *Apache Commons Compress*

[Info](#)

PF-36446

PingFederate now uses Apache Commons Compress library version 1.27.1.

## *AWS KMS library*

[Info](#)

PF-36579

We've upgraded the Amazon Web Services (AWS) Key Management Service (KMS) master-key-encryptor library to the latest version as of this release.

## *Correlation ID request header*

[Info](#)

PF-36675

Forward slashes are now valid characters in the request header for correlation ID.

Learn more in [General settings](#) and [Correlating PingFederate events with PingDirectory LDAP activities](#).

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### *case-insensitive*

the attribute to be case-insensitive.

owed auditors to access LDAP

## *IP addresses accessible using Partner Metadata URL loader*

**Security**

PF-35279

We've fixed a security vulnerability that could have allowed malicious actors to use the Partner Metadata URL loader to list the IP addresses of network assets.

## *ValidateRelayStateLength parameter*

**Fixed**

PF-35847

We've fixed a defect that cause the `ValidateRelayStateLength` parameter in the `org.sourceid.saml20.bindings.AbstractAsyncBinding.xml` file to be evaluated only on startup. Now, the parameter is always evaluated in runtime flows.

## *Unexpected error when replicating an active admin console*

**Fixed**

PF-35919

We've fixed a defect that caused PingFederate to return an unexpected error when replicating on a newly promoted passive admin node after deleting connections or clients on the previously active admin node.

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SO policies to fail when a user

g to fail and cease if a source user  
avior, PingFederate will skip user

## *PingDirectory password warning*

Fixed

PF-36232

We've fixed a defect that prevented PingFederate from issuing a password expiration warning when using PingDirectory as a datastore.

## *Multiple application requests within a browser*

Fixed

PF-36239

We've fixed a defect that could cause inconsistent sessions or authentication errors when starting multiple applications in different browser tabs at the same time.

## *Unsupported data archive using drop-in deployer*

Fixed

PF-36478

We've fixed a defect that caused PingFederate to fail to restart when forcing an import of an unsupported configuration data archive using the drop-in deployer.

## *Replication warning banner*

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warning that a configuration is out of  
ed. This defect occurred when

errors excluding details of what error

*workflow*

Fixed

PF-36574

We've fixed a defect that caused the email verification screen to fail to appear when a user registered through an authentication source.

### *Multi-part refresh token revocation failure*

Fixed

PF-36600

We've fixed an issue that caused PingFederate to fail to revoke multi-part refresh tokens through the `revoke_token.oauth2` endpoint.

## Known issues and limitations

### *PingOne Verify IK unexpected error*

Issue

PF-36573

PingFederate returns an unexpected error when you create an instance of the PingOne Verify Integration Kit version 2.2.2 in PingFederate with the Verify feature in PingOne disabled.

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### *Cloud KMS*

Web Services or Google Cloud  
valid configuration data archive with  
`encrypt data archive` error  
start.

### *Logout*

block third-party cookies, you might  
via Front-Channel) and WS-Federation.



Refer to browsers' documentation regarding third-party cookie management to unblock them, if feasible.

### *Passive admin console UI refresh*

**Issue**

PF-35643

When you promote a passive admin console to active, the UI doesn't refresh until you perform an action.

### *Multiple active admin consoles*

**Issue**

PF-35439

When you make configuration changes on the active console (especially large configuration changes like bulk imports or data archive imports), then promote a passive console to active, it can cause multiple consoles to be active at once. This can result in inconsistent configurations.

Learn how to resolve this issue in [Resolving multiple active administrative nodes](#).

### *Administrative console and administrative API*

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oP, a known limitation is that the Federate is the RP:

heme using OIDC

e using OAuth 2.0

r the administrative API are included  
e administrative API support to the

- Previously, the administrative API did not accurately reflect a **Persistent Grant Max Lifetime** setting of 29 days (or shorter) with the selection of the **Grants Do Not Timeout Due To Inactivity** option. As a result, if you have configured such OAuth authorization server settings and have generated a bulk export in version 10.0 through 10.0.2, we recommend that you re-generate a new bulk export after upgrading to version 10.0.3 (or a more recent version). The newly exported data does not contain the aforementioned flaw, and you can safely import it to version 10.0.3 (or a more recent version).
- When enabling mTLS certificate-based authentication, administrators often configure a list of acceptable client certificate issuers. When you use a browser to access the console or the administrative API documentation, PingFederate returns to the browser the list of acceptable issuers as part of the TLS handshake. If the browser's client certificate store contains multiple client certificates, the browser often presents you only the certificates whose issuer matches one of the acceptable issuers. However, when PingFederate runs in a Java 11 environment, Chrome presents you all its configured client certificates, regardless of whether the issuer matches one of the acceptable issuers or not.
- When using mTLS authentication to authenticate to an LDAP server for administrative console or administrative API access, PingFederate doesn't support using a Microsoft Active Directory server.

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the administrative API, you must available attributes are replaced with ate request fails.

erarchical plugin, the administrative name/value pair (or without such value of `true` , and returns a 200 d for the ignored objects.

example, the **Back** button) causes le. Use the navigation buttons derate console.

n one browser might cause figuration.

re console using certificate t not appear to behave as expected.

Normally (when using password authentication), when a session has timed out and a user attempts some action in the console, the browser is redirected to the sign-on page, and then back to the administrative console after authentication is complete. Similar behavior applies for certificate authentication, in principle. However, because the browser might automatically resubmit the certificate for authentication, the browser might redirect to the administrative console and not the sign on page.

## *TLS cipher suite customization*

Issue

PingFederate's TLS cipher suites can be customized by modifying `com.pingidentity.crypto.SunJCEManager.xml` (or a similarly-named file if BCFIPS or an HSM is configured). After updating the file and replicating, all cluster nodes must be restarted for the change to take effect.

## *HSMs*

Issue

AWS CloudHSM

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icate as an SSL server certificate.

11 and 17.

s issue only arises if PingFederate is  
t keys, a static key is stored on the  
rypted with this key.

. server certificate.

11 and 17.

s issue only arises if PingFederate is  
t keys, a static key is stored on the  
rypted with this key.

- It is not possible to import a PKCS12- or PEM-formatted EC certificate.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 is not currently supported with Oracle JDK 11 and 17.

## SSO and SLO

### Issue

- When consuming SAML metadata, PingFederate does not report an error when neither the `validUntil` nor the `cacheDuration` attribute is included in the metadata. Note that PingFederate does reject expired SAML metadata as indicated by the `validUntil` attribute value, if it is provided.
- The anchored-certificate trust model cannot be used with the single logout (SLO) redirect binding because the certificate cannot be included with the logout request.
- If an IdP connection is configured for multiple virtual server IDs, PingFederate will always use the default virtual server ID for IdP Discovery during an SP-initiated SSO event.

## Composite Adapter configuration

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rough a Composite Adapter instance  
ter.

user accounts without the permission

PingFederate does not support a case-sensitive naming convention for OAuth client ID values when client records are stored in a directory server. For example, after creating a client with an ID value of `sampleClient`, PingFederate does not allow the creation of another client with an ID value of `SampleClient`.

Although it's possible to create clients using the same ID values with different casings when client records are stored in XML files, a database server, or custom storage, we recommend not doing so to avoid potential record migration issues.

## *Customer identity and access management*

### Issue

Some browsers display a date-picker user interface for fields that have been designed for date-specific inputs. Some browsers do not. If one or more date-specific fields are defined on the registration page or the profile management page (or both), end users must enter the dates manually if their browsers do not display a date-picker user interface for those fields.

## *Provisioning*

### Issue

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ning to fail if the `user` or `group` is not found in an OU or within the Users CN.

icates the number of results returned from the LDAP server. The number of estimated results on the LDAP server.

king in an IdP adapter or IdP. The OAuth's persistent grant `USER_KEY` is logged in the server logs. Other

- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## Database logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant `USER_KEY` attribute, the `USER_KEY` attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## RADIUS NAS-IP-Address

### Issue

The RADIUS NAS-IP-Address is only included in Access-Request packets when the `nasipaddress` property is set to `include`. IPv6 is not supported.

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plugins based on the AWS SDK, such as `aws-lambda` or the `http.proxyHost`, `http.proxyPassword` properties in `aws-lambda` properties even if the service URL is `https`.

# PingFederate 12.1.11 (May 2026)

---

## New features and enhancements

### *Unconnected cluster node startup*

**Improved**

PF-38898

PingFederate now supports the `force.require.replication.data.on.startup` parameter in the `cluster-config-replication.conf` file. This parameter allows you to prevent an engine node from starting up without establishing a connection to the cluster and retrieving replication data.

Learn more in [Cluster management](#).

## Resolved issues

### *OGNL code test access control*

**Security**

PF-38742

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administrative expression-testing  
ed to appropriately privileged roles,  
sions.

quests with valid, non-encoded

We fixed a defect that allowed Basic Authentication to access the Administrative API even when Basic Authentication was disabled in the `pf.admin.api.authentication` property.

### *Authentication policy error*

Fixed

PF-38623

We fixed a defect that caused an error when authentication policies with a Requested AuthN Context authentication had **Add or Update AuthN Context Attribute** enabled.

### *Dynamic JWKS rotation timer*

Fixed

PF-38903

We fixed a defect that prevented the dynamic JWKS rotation timer from resetting after a node joined a cluster.

## PingFederate 12.1.10 (October 2025)

---

### Resolved issues

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#### Compress

ils library version 1.11.0 and the

ectly lock user accounts during an  
applies to all LDAP datastore types

#### for Adapter duplicate attribute sources



Fixed

PF-38060

We've fixed a defect that caused IdP adapters to duplicate attribute sources when an SP connection was updated using the Admin API.

## PingFederate 12.1.9 (September 2025)

---

### Resolved issues

#### *Admin console IP exposure*

Security

PF-33113

We've fixed a security vulnerability that could have allowed malicious parties to extract PingFederate administrative console IP addresses using HTTP Response headers.

#### *Host header redirect*

Security

PF-37460

We've fixed a security vulnerability that could have allowed malicious parties to redirect requests using the Host header.

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on requests in short succession to  
data entry into the database.

if PingFederate or the JDBC data

*ry client secret*

We've fixed a defect that caused the token endpoint to unnecessarily reissue an ID token when using a secondary client secret and an asymmetric algorithm for token signing and encryption.

### *Virtual hostname accuracy in email notifications*

Fixed

PF-37964

We've fixed a defect where a template variable incorrectly used the primary PingFederate base URL instead of the virtual hostname in some email notifications.

### *HTML flow login and Authentication API*

Fixed

PF-38039

We've fixed a defect that could potentially allow a user to access an HTML browser login page when the Authentication API redirectless mode is used.

Learn more in PingFederate unexpected template rendering in redirectless mode in the Support Knowledge Base.

## PingFederate 13.1.8 (May 2025)

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discovery protocol when the  
tive.

bucket, which could lead to the

prevent the S3 bucket from being

Learn more in [Dynamic cluster discovery](#).

## Resolved issues

### *Secondary secret missing ID token claim*

Fixed

PF-37279

We've fixed a defect that caused the ID token claim to be omitted when an OAuth client uses the secondary secret.

## PingFederate 12.1.7 (March 2025)

---

## Resolved issues

### *HTTP connection pool tracking*

Fixed

PF-37126

We've fixed a defect that could cause PingFederate to generate a large number of metrics which affected performance.

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## 2025)

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include a duplicate RSA key with the  
; the `add-duplicate-rs256-alg-`

`config-store/jwks-endpoint-`

`configuration.xml` file to `true`.

## Resolved issues

### *Group membership loss during provisioning*

Fixed

PF-36874

We've fixed a defect that caused PingFederate to lose user group membership information when it lost contact with the datastore during provisioning operations.

## PingFederate 12.1.5 (January 2025)

---

## Resolved issues

### *Cross-site scripting*

Security

PF-36304

PF-36311

PF-36313

We've fixed a security vulnerability where PingFederate accepted cross-site scripting inputs.

### *Email verification failure after registration workflow*

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screen to fail to appear when a user

to revoke multi-part refresh tokens

*h DynamoDB*

We've fixed a defect that caused an error in searching for OAuth Client for OAuth Client Set Authentication Selector when DynamoDB is the client storage.

### *Admin API provisioning connection attributes*

**Fixed**

PF-36816

We've fixed a defect when using the PingFederate Administrative API `sp/idpConnections` endpoint to create or update inbound provisioning connections. The API returned errors about `coreAttributes` values missing from the JSON payload even though the attributes were not required.

### *Refresh token error when authorization bypass enabled*

**Fixed**

PF-36851

We've fixed a defect that caused PingFederate to return a revoked or expired consent error when both **Bypass Authorization Approval** and **Bypass Authorization Approval for Previously Approved Consents** are enabled.

## PingFederate 12.1.4 (November 2024)

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`iciousActions` parameter in the `kingService` file.

Federate unintentionally locks out an Access Tokens.

*admin console*

We've fixed a defect that caused PingFederate to return an unexpected error when replicating on a newly promoted passive admin node after deleting connections or clients on the previously active admin node.

### ***Provisioning character limit***

Fixed

PF-36035

We've fixed a defect that caused outbound provisioning to fail and cease if a source user object exceeded a 255-character limit. In the new behavior, PingFederate will skip user objects that exceed 255 characters and log a warning.

### ***API Datastore sends Content-Type for GET requests***

Fixed

PF-36194

We've fixed a defect that caused the PingFederate REST API Datastore to unnecessarily include a Content-Type value when sending GET requests.

### ***PingDirectory password warning***

Fixed

PF-36232

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in issuing a password expiration

**ser**

sions or authentication errors when  
s at the same time.

the wrong base path for Swagger docs

when the `pf.admin.baseurl` parameter includes a file path.

## ***OGNL expression variables in datastore attributes***

Fixed

PF-36257

We've fixed a defect that caused PingFederate to ignore defined OGNL expression variables in datastore attributes.

## ***Notification publisher validation error***

Fixed

PF-36260

We've fixed a defect that caused PingFederate to return a validation error when using the `/serverSettings` endpoint to update the notification settings to `LOGGING_ONLY` in an environment with no previously-defined notification publisher.

## ***Device authorization grant time zone error***

Fixed

PF-36261

We've fixed a defect that caused device authorization grant flow errors when clustered server nodes are in different time zones.

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When sending a valid PUT request to the `/bulkhead` endpoints when the bulkhead is full, the server returns a 400 error.

The server now returns a warning that a configuration is out of sync. This defect occurred when the configuration was not saved.

## *Provisioning Flag Comparison Value now case-insensitive*

info

PF-36276

We've updated the provisioning Flag Comparison Value attribute to be case-insensitive.

Learn more in [Modifying source settings](#).

## PingFederate 12.1.3 (September 2024)

### New features and enhancements

#### *Process PKCE parameters outside signed request object*

Improved

PF-36180

We've added an option to process PKCE parameters from outside the signed request object when the parameters are not included in the request object.



Note

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ed for continued use.

display a custom error message when  
orization API application.

024)



## Resolved issues

### *Relative path symbolic links retrieve wrong file*

**Security**

PF-35678

We've fixed a defect that caused PingFederate to retrieve the wrong file when using relative paths in symbolic links.

### *Heartbeat endpoint 500 error*

**Fixed**

PF-35842

We've fixed a defect that caused the heartbeat endpoint to return a **500** error after upgrading to PingFederate 12.1.

### *Refresh token time zone discrepancies*

**Fixed**

PF-35867

We've fixed a defect that caused refresh tokens to roll prematurely when making authorization requests to servers in different time zones.

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## Directory

ite package for PingFederate versions  
rectory.

ect failed IdP sign on attempts rather

# PingFederate 12.1.1 (July 2024)

## Resolved issues

### *Axis1 patch*

**Security**

PF-35631

Included a patch to address multiple vulnerabilities related to Apache Axis1.

### *Refresh token rolls when configured not to roll*

**Fixed**

PF-35166

Fixed a defect that caused PingFederate to roll refresh tokens when **Refresh Token Rolling Policy** is disabled but **Refresh Token Rolling Interval** has a value.

### *Provisioning group changes continue after user changes failure*

**Fixed**

PF-35304

Provisioning group updates even if user updates

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### *Access token manager when aud*

Only the first OAuth client access token **Access Token Managers** was request.

PS

Fixed a defect where PingFederate failed to return IPv4 addresses in a custom adapter request using the `request.getRemoteAddr()` method.

### *Context SRI attribute mapping failure*

Fixed

PF-35800

Fixed a defect that caused PingFederate to fail to map new attributes added to an existing access token manager to the Context SRI.

### *Error message after user session expires*

Fixed

PF-35815

Fixed a defect that caused PingFederate to present an error message when user tries to sign on again after a session expires due to inactivity.

## PingFederate 12.1 (June 2024)

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New features and improvements in PingFederate 12.1.

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ive admin console and one or more ment.

nodes are always kept in sync, so you duces downtime in the event of an

S.

New

PF-35345

We've added the ability to implement runtime thread bulkheads that limit the percentage of threads that can be waiting on external data sources. After the limit is reached, further requests are rejected.

This improves resilience, reliability, and availability by minimizing the impact of a broken data source connection on other connections.

You can configure bulkheads in the

`com.pingidentity.common.util.resiliency.BulkheadManagerImpl.xml` file. You can also configure runtime notifications for bulkhead threshold events.

Learn more in [Configuring runtime thread bulkheads](#).

## *Decrypting SAML attribute values*

New

PF-34887

We've added a new special attribute, `SAML_AUTHN_RESPONSE_ASSERTION`, to access the `Assertion` element of the SAML 2.0 response messages during attribute mapping.

Learn more in [Special attribute names in contracts](#).

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er (KID) for OIDC and OAuth signing  
thm.

d custom requirements for RSA-based  
endpoint.

We've added the ability to enable a redirectless authentication API OAuth flow through the authorization endpoint without cookies.

You can now use the authentication API without having to manage and process cookies. Instead of cookies, the API includes details within the JSON response that need to be included as a simple HTTP header value in responses to PingFederate.

This improvement is especially useful for native app developers and reduces the implications of third-party cookie issues.

Learn more in [Configuring OAuth clients](#).

## *Resource indicators for OAuth 2.0*

**New**

PF-35341

We've added support for the **resource** parameter to allow clients to indicate the protected resources to which it is requesting access.

The **resource** parameter is available for use during access token mapping.

Learn more in the RFC 8707 specification [↗](#) and Token endpoint.

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tion calls that contain **Resource** aren't defined in the **Access Token** JIRIs.

ngOne unified admin feature. You can property for Australia (.com.au).

he Australia region instead.

## ***Publish signing keys to JWKS endpoint***

**New**

PF-34886

We've added the ability to optionally publish asymmetric signing keys configured in a JWT Access Token Management Plugin instance to the PingFederate JWKS endpoint.

Publishing JWKS to the JWKS endpoint reduces the number of required JWKS endpoints, and allows you to use more standard client libraries and fewer custom clients.

Published keys are discoverable using the OpenID Provider configuration endpoint.

Learn more in [Configuring an access token management instance](#).

## ***Publish x5t thumbprint to JWKS endpoint***

**New**

PF-35342

PingFederate now publishes the **x5t** x.509 certificate SHA-1 thumbprint parameter from the JWKS endpoint by default.

Learn more in [JSON Web Keys endpoint](#).

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ect validation for OAuth and OIDC

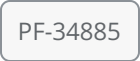
lications or APIs outside of the  
en company or brand-specific, this  
h other apps on the same device.

We've added support for JWT Authorization Response Mode (JARM) to identity provider (IdP) connections.

PingFederate already supports JARM in its role as a relying party (RP), and now supports it in its role as an OpenID provider (OP). Instead of having to receive an issued `authorization_code` and `state` parameter as a query component, your connection can process a JWT instead.

Learn more in [Creating an OpenID Connect IdP connection](#).

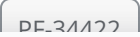
### ***Configure Refresh Rolling Token Interval in hours, minutes, or seconds***

NewPF-34885

We've added a feature allowing you to configure the interval of rolling OAuth tokens in hours, minutes, or seconds.

Learn more in [Configuring OAuth clients](#), [Configuring authorization server settings](#), and [Managing client configuration defaults](#).

### ***Magic link integration kit***

NewPF-34422

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Integration Kit.

itation.

ion for LDAP health checks.

`lt/data/config-`

`Util.xml` file using the

## *LDAPv3 with StartTLS command*

New

PF-35349

PingFederate now supports LDAPv3 with the StartTLS command to secure LDAP connections to a directory server.

This feature allows LDAP connections to be initiated on a non-SSL port (such as 389), and then be upgraded to SSL on the same port. This reduces the number of ports that potentially have to be opened within a firewall.

Learn more in [Configuring an LDAP connection](#).

## *OpenID Connect offline\_access scope*

New

PF-35346

PingFederate now supports the OpenID Connect (OIDC) `offline_access` scope.

You can now configure OAuth and OIDC clients to receive only a `refresh_token` when this scope is requested. You can also optionally configure a resource owner consent as required.

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### OAuth and OAuth Client Management

OIDC 1.0 using the `prompt=create`

now within the context of OIDC, which  
a separate customer registration

SO URLs.



## *Exposed `pi.sri` to SDK and attribute mapping*

New

PF-35453

We've added the `IN_PARAMETER_NAME_SRI` parameter to the SDK, which contains the current `pi.sri`.

We've also exposed the `pi.sri` value in the **Context** type for most attribute mappings.

## *SDK capability for adapters to terminate sessions*

New

PF-34464

We've added a new `SessionManager` class in the SDK to allow for revoking all sessions or all but the current session.

This works similarly to the **Revoke sessions after password change or reset** option in the HTML Form Adapter.

## *PingDirectory log tracking ID*

New

PF-34338

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PingDirectory 10.0. PingFederate can

apter ID with adapters that fail to  
ce.

We've added a pop-up modal to several OAuth scope reference pages to improve the scope management user interface.

Learn more in [Configuring scope constraints](#).

### *Scope management user interface enhancement*

Improved

PF-34890

We've improved the user interface for the **Scope Management** page, including pagination, a search feature, and new tabs for managing common and exclusive scope groups.

Learn more in [Defining scopes](#).

### *New connection pool metrics in heartbeat endpoint*

Improved

PF-34892

We've added new connection pool metrics to the heartbeat endpoint and JMX MBeans for Java Database Connectivity (JDBC) and LDAP connections.

New metrics include maximum connection pool size, minimum connection pool size, number of active connections, and number of idle connections.

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connectors, because  
number of connections that are

and Liveliness and responsiveness.

criteria fail.

to the failure of issuance criteria.

This is the new default behavior for refresh grants.

### ***PingOne MFA Integration Kit***

Improved

PF-35325

The PingOne MFA Integration Kit has been updated to version 2.3.1.

### ***Aurora PostgreSQL***

Improved

PF-35383

PingFederate now supports Aurora PostgreSQL version 16.2.

### ***PostgreSQL***

Improved

PF-35384

PingFederate now supports PostgreSQL version 16.2.

### ***PingDS support***

Improved

PF-34434

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DS) datastore.

rs (OP) and Profiles, and FAPI CIBA

OpenID Providers and Profiles.

## Resolved issues

### *Admin console OIDC login failure*

Fixed

PF-34523

We've fixed an issue that caused PingFederate's OIDC admin console login to fail when the `node.group.id` value didn't match an existing node id.

### *PingDirectory user attribute queries*

Fixed

PF-34333

We've fixed an issue that caused PingFederate to query all attributes for PingDirectory users, rather than just the required attributes.

### *DPoP token rejection*

Fixed

PF-35082

We've fixed a defect that caused access token requests to fail due to OAuth 2.0 Demonstrating Proof of Possession (DPoP) proof validation failure when reusing existing tokens.

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ay the expiration date of a  
e rather than the server time zone.

when PingFederate processed an  
ncryption (JWE) deobfuscation.

## ***REST API datastore unable to handle malformed cookies***

Fixed

PF-35352

We've fixed a defect that caused the PingFederate REST API datastore to pass malformed cookies into datastore request headers.

## ***OAuth client in-use detection***

Fixed

PF-35744

We've fixed a defect where client in-use detection caused an `IndexOutOfBoundsException` when a custom solution is used for client storage.

## ***ClientManagerDynamoDBImpl changes not implemented***

Fixed

PF-35753

We've fixed a defect that caused changes in `ClientManagerDynamoDBImpl` not to apply when performing a bulk import or using the configuration store API unless you restarted PingFederate.

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the valid license files if they were

**Logout**

block third-party cookies, you might  
(via Front-Channel) and WS-Federation.

Refer to browsers' documentation regarding third-party cookie management to unblock them, if feasible.

### ***Replication notification when switching passive admin console to active***

**Issue**

PF-35642

When you switch a passive console to active, PingFederate might display a notification that the configuration has not been replicated, even though the configuration is up-to-date.

### ***Passive admin console UI refresh***

**Issue**

PF-35643

When you promote a passive admin console to active, the UI doesn't refresh until you perform an action.

### ***Multiple active admin consoles***

**Issue**

PF-35439

When you make configuration changes on the active console (especially large configuration

en promote a passive console to  
nce. This can result in inconsistent

active administrative nodes.

#### ***API***

oP, a known limitation is that the  
Federate is the RP:

heme using OIDC

e using OAuth 2.0

r the administrative API are included

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in the exported data. we don't intend to introduce administrative API support to the

following areas:

- SAML 2.0 IdP Discovery
- SAML 2.0 SP Affiliation
- SMS Provider
- Previously, the administrative API did not accurately reflect a **Persistent Grant Max Lifetime** setting of 29 days (or shorter) with the selection of the **Grants Do Not Timeout Due To Inactivity** option. As a result, if you have configured such OAuth authorization server settings and have generated a bulk export in version 10.0 through 10.0.2, we recommend that you re-generate a new bulk export after upgrading to version 10.0.3 (or a more recent version). The newly exported data does not contain the aforementioned flaw, and you can safely import it to version 10.0.3 (or a more recent version).
- When enabling mTLS certificate-based authentication, administrators often configure a list of acceptable client certificate issuers. When you use a browser to access the console or the administrative API documentation, PingFederate returns to the browser the list of acceptable issuers as part of the TLS handshake. If the browser's client certificate store contains multiple client certificates, the browser often presents you only the certificates whose issuer matches one of the acceptable issuers. However, when PingFederate runs in a Java 11 environment, Chrome presents you all its

er the issuer matches one of the

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to an LDAP server for administrative  
e doesn't support using a Microsoft

ne administrative API, you must  
available attributes are replaced with  
ate request fails.

erarchical plugin, the administrative  
name/value pair (or without such  
value of `true`, and returns a 200  
d for the ignored objects.

example, the **Back** button) causes  
le. Use the navigation buttons

provided at the bottom of windows in the PingFederate console.

- Using the PingFederate console in multiple tabs on one browser might cause inconsistent behavior which could corrupt its configuration.
- If authenticated to the PingFederate administrative console using certificate authentication, a session that has timed out might not appear to behave as expected. Normally (when using password authentication), when a session has timed out and a user attempts some action in the console, the browser is redirected to the sign-on page, and then back to the administrative console after authentication is complete. Similar behavior applies for certificate authentication, in principle. However, because the browser might automatically resubmit the certificate for authentication, the browser might redirect to the administrative console and not the sign on page.

## ***TLS cipher suite customization***

### **Issue**

PingFederate's TLS cipher suites can be customized by modifying `com.pingidentity.crypto.SunJCEManager.xml` (or a similarly-named file if BCFIPS or an HSM is configured). After updating the file and replicating, all cluster nodes must be restarted for the change to take effect.

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error when PingFederate is already  
and this issue, uninstall and reinstall

```
installPingFederateService.bat  
bin/wrapper .
```



- It is not possible to use an elliptic curve (EC) certificate as an SSL server certificate.
- TLS 1.3 is not currently supported.

#### Thales HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 is not currently supported.

#### Entrust HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to import a PKCS12- or PEM-formatted EC certificate.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 is not currently supported.

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does not report an error when neither  
ite is included in the metadata. Note  
data as indicated by the **validUntil**

sed with the single logout (SLO)  
e included with the logout request.

ual server IDs, PingFederate will  
covery during an SP-initiated SSO

## Issue

SLO is not supported when users are authenticated through a Composite Adapter instance that contains another instance of the Composite Adapter.

## *Self-service password reset*

## Issue

Passwords can be reset for Microsoft Active Directory user accounts without the permission to change password.

## *OAuth*

## Issue

PingFederate does not support a case-sensitive naming convention for OAuth client ID values when client records are stored in a directory server. For example, after creating a client with an ID value of `sampleClient`, PingFederate does not allow the creation of another client with an ID value of `SampleClient`.

Although it's possible to create clients using the same ID values with different casings when using a directory server, or custom storage, we recommend

5.

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or fields that have been designed for more date-specific fields are defined age (or both), end users must enter date-picker user interface for those

- LDAP referrals return an error and cause provisioning to fail if the **user** or **group** objects are defined at the DC level, and not within an OU or within the Users CN.
- The **totalResults** value in SCIM responses indicates the number of results returned in the current response, not the total number of estimated results on the LDAP server.

## Logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant **USER\_KEY** attribute, the **USER\_KEY** attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## Database logging

### Issue

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...ing in an IdP adapter or IdP  
... OAuth's persistent grant **USER\_KEY**  
...ked in the server logs. Other

...masking in an IdP adapter and the  
...e user key, the user key attribute is

...Request packets when the  
...s. IPv6 is not supported.

## Amazon SNS Notification Publisher

### Issue

When deploying PingFederate with a forward proxy, plugins based on the AWS SDK, such as the Amazon SNS Notification Publisher, will only honor the `http.proxyHost`, `http.proxyPort`, `http.proxyUser`, and `http.proxyPassword` properties in `run.properties`. The plugin will rely on these properties even if the service URL is `https`.

## Deprecated features

### *authorizationDetails* field deprecation

#### Info

PF-34682

The `authorizationDetails` JSON field returned by the OAuth consent management endpoint has been deprecated in favor of the new `authorizationDetail` and `authorizationDetailDescription` fields.

Learn more about the consent management endpoint in OAuth Consent Management Service.

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26)

`on.startup` parameter to the

from starting up without establishing

Learn more in Cluster management.

## Resolved issues

### *OGNL code test*

**Security**

PF-38742

We improved role-based access control (RBAC) for the administrative expression testing endpoint. Access to expression evaluation is now limited to appropriately privileged roles, ensuring alignment with intended administrative permissions.

### *SLO failure*

**Fixed**

PF-38442

We fixed a defect where front-channel logout requests to `/idp/startSLO.ping` failed to send logout requests to relying party URIs.

### *Dyanmic JWKS rotation timer*

**Fixed**

PF-38903

We fixed a defect that prevented dynamic JWKS rotation timing from resetting after a node

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2025)

owed malicious parties to redirect  
post header.

tions

Fixed

PF-37964

We've fixed a defect where a template variable incorrectly used the primary PingFederate base URL instead of the virtual host name in some email notifications.

### ***HTML flow login and Authentication API***

Fixed

PF-38039

We've fixed a defect that could potentially allow a user to access an HTML browser sign-on page when the Authentication API redirectless mode is used.

Learn more in PingFederate unexpected template rendering in redirectless mode in the Ping Identity Support Knowledge Base.

### ***LDAP account logout***

Fixed

PF-38043

We've fixed a defect where PingFederate could incorrectly lock user accounts during an LDAP connectivity failure with Active Directory. This fix applies to all LDAP datastore types except for Generic LDAP.

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ate attribute sources when an SP

)

We've fixed a security vulnerability that could have allowed malicious parties to extract the PingFederate administrative console's IP address through HTTP Response headers.

### *Refresh token MySQL deadlocks*

**Fixed**

PF-35868

We've fixed a defect that caused multiple refresh token requests in short succession to result in [JDBC](#) data source deadlocks and duplicated data entry into the database.

This fix can cause significant performance issues if PingFederate or the JDBC data source has insufficient resources.

### *Unnecessary ID token reissued with secondary client secret*

**Fixed**

PF-37450

We've fixed a defect that caused the token endpoint to unnecessarily reissue an ID token when using a secondary client secret and an asymmetric algorithm for token signing and encryption.

## **PingFederate 13.0.8 (May 2025)**

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discovery protocol when the  
tive.

bucket, which could lead to the

prevent the S3 bucket from being

Learn more in [Dynamic cluster discovery](#).

## Resolved issues

### *Group membership loss during provisioning*

Fixed

PF-36874

We've fixed a defect where temporary connection loss to the source datastore during provisioning could lead to unintended membership information loss on the target SaaS application.

### *Secondary secret missing ID token claim*

Fixed

PF-37279

We've fixed a defect that caused the ID token claim to be omitted when an OAuth client uses the secondary secret.

## PingFederate 12.0.7 (January 2025)

---

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Accepted cross-site scripting inputs.

### *Workflow*

screen to fail to appear when a user

### *OAuth Client Set Authentication Selector with DynamoDB*



Fixed

PF-36662

We've fixed a defect that caused an error in searching for OAuth Client for OAuth Client Set Authentication Selector when DynamoDB is the client storage.

## PingFederate 12.0.6 (November 2024)

---

### Resolved issues

#### *Provisioning character limit*

Fixed

PF-36035

We've fixed a defect that caused outbound provisioning to fail and cease if a source user object exceeded a 255-character limit. In the new behavior, PingFederate will skip user objects that exceed 255 characters and log a warning.

#### *PingDirectory password warning*

Fixed

PF-36232

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in issuing a password expiration

ser

sions or authentication errors when  
s at the same time.

grant flow errors when clustered

# PingFederate 12.0.5 (August 2024)

---

## Resolved issues

### *Relative path symbolic links retrieve wrong file*

**Security**

PF-35678

We've fixed a defect that caused PingFederate to retrieve the wrong file when using relative paths in symbolic links.

### *Refresh token time zone discrepancies*

**Fixed**

PF-35867

We've fixed a defect that caused refresh tokens to roll prematurely when making authorization requests to servers in different time zones.

### *Maintenance upgrade includes entire SDK directory*

**Fixed**

PF-35867

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te package for PingFederate versions  
rectory.

)

oll

refresh tokens when **Refresh Token**  
**Interval** has a value.

## ***OAuth client only validates one access token manager when aud parameter included***

Fixed

PF-35737

We've fixed a defect that caused PingFederate to validate only the first OAuth client access token manager it found when **Validate Against All Eligible Access Token Managers** was checked, and the `aud` parameter was included in the request.

## ***Custom adapter not returning IPv4 addresses***

Fixed

PF-35783

We've fixed a defect where PingFederate failed to return IPv4 addresses in a custom adapter request using the `request.getRemoteAddr()` method.

## ***Error message after user session expires***

Fixed

PF-35815

We've fixed a defect that caused PingFederate to present an error message when user tries to sign on again after a session expires due to inactivity.

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ive console login to fail when the

sed an IndexOutOfBoundsException

***implemented***

Fixed

PF-35753

We've fixed a defect that caused changes in `ClientManagerDynamoDBImpl` not to apply when performing a bulk import or using the configuration store API unless you restarted PingFederate.

### *Davinci integration kit*

Info

PF-35838

The Davinci integration kit has been updated to version 1.2.

## PingFederate 12.0.3 (May 2024)

### New features and enhancements

#### *PingOne admin URL property*

New

PF-31859

Added support for the Australia region to the `pf.pingone.admin.url.region` property.

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the Australia region instead.

#### *change password flow*

allow a different user to proceed with the flow who initiated the flow.

 **Note**

In all cases, the target user's password was required to complete the change password operation.

### ***Memory heap increase when using admin API on policy tree***

Fixed

PF-35423

Fixed a defect that caused PingFederate not to release memory when using the admin API on the policy tree.

### ***Authentication API password change flow ignores credentials***

Fixed

PF-35618

Fixed a defect that caused the authentication API to ignore credentials for password changes provided after user authentication.

### ***Authentication API validation error***

Fixed

PF-35420

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Authentication API when including the

***data source and PingFederate are***

updates when the data source and

Fixed a defect that caused PingFederate to ignore the **Bypass Authorization Approval** setting when **Bypass Authorization For Previously Approved Consents** is enabled.

## PingFederate 12.0.2 (April 2024)

---

### Resolved issues

#### *Java thread exhaustion in PingOne Advanced Services*

Fixed

PF-35411

Fixed a defect that caused repeated looping in authentication policy involving a local Identity profile.

#### *OAuth clients In Use detection*

Fixed

PF-35407

Fixed a defect with In Use detection when DynamoDB is used for OAuth client storage.

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on using DynamoDB storage for a

#### *using OGNL*

OGNL are not populated.

Fixed a defect that caused PingFederate to not process authentication policy rules for fragment nodes that do not contain an output contract.

### ***Active Directory binary attribute caused thread proliferation***

**Fixed**

PF-35142

Fixed a defect that caused LDAP data source connection pools to close when still in use after the LDAP data source is modified and replicating under heavy load.

### ***Mixed maintenance release cluster caused JWKS errors***

**Fixed**

PF-35195

Fixed a defect that caused errors in synchronization and accessing dynamic JSON Web Key Set (JWKS) keys when running a cluster that was a mix of PingFederate versions 12.0 and 12.0.1.

### ***JWKS algorithm parameter not populated after processing shared keys from cluster***

**Fixed**

PF-35309

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to populate when EC dynamic keys  
cluster.

2.3.1.

**Upgraded Jetty Library**

Improved

PF-35184

Upgraded the Jetty library to version 9.4.54.v20240208.

## PingFederate 12.0.1 (February 2024)

### New features and enhancements

#### *Runtime notification when thread dumps are enabled but `log4j2.xml` is not configured*

Improved

PF-34832

Added a feature to generate a warning message on the **Runtime Notifications** tab if you have enabled thread dumps, but you have not configured the `ThreadDumpAppender` and `ThreadDumpLogger` properties in the `log4j2.xml` file.

To learn more about configuring thread pool exhaustion events, see [Configuring runtime notifications](#).

#### *Randomly generated provisioner node IDs*

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`provisioner.node.id` values.

Deploying provisioning failover.

Custom KeyID values for static OAuth and

with the `alg` parameter on the JWKS  
used EC signing keys on engine nodes.



To learn more about keys, see [Keys for OAuth and OpenID Connect](#).

## Resolved issues

### *Rest datastore security vulnerability*

**Security**

PF-34720

Fixed a JSON injection vulnerability in REST datastores described in security advisory SECADV044.

### *Runtime nodes security vulnerability*

**Security**

PF-34896

Fixed a path traversal vulnerability in Runtime nodes described in security advisory SECADV044.

### *OpenID Connect policy management editor security vulnerability*

**Security**

PF-35081

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OpenID Connect Policy Management Editor

*r*

method with multiple signature-  
ter were causing errors in processing

Fixed a defect that caused PingFederate to issue null pointer exception (NPE) errors when querying the token endpoint.

### ***Certificate expiry notification error***

**Fixed**

PF-34854

Fixed a defect that caused the certificate expiry warning notification icon to remain when there were no notifications to display.

### ***Reencryption causes connection or client to fail on engine***

**Fixed**

PF-34409

Fixed a defect where changes made on the administrative console were not replicated to the engine during reencryption.

### ***JMX registration failure for imported archives***

**Fixed**

PF-34796

Fixed a defect that caused the JMX monitoring to fail to register archive files that are

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### ***int response is too large***

response from the `well_known` is too large.

### ***page for unlocked users***

**unlock your account** page during cked.

### ***RHEL 8 using OS-level FIPS causes PingFederate failure***

Fixed

PF-34879

Fixed a defect that caused PingFederate to fail on startup when installed on a Red Hat Enterprise Linux (RHEL) server with OS-levels FIPS enabled.

### ***Error message for authentication policy fragment with invalid `localIdentityRef`***

Fixed

PF-34882

Fixed a defect that returned a `500` error with no details when an authentication policy fragment had a `LOCAL_IDENTITY_MAPPING` action with an invalid `localIdentityRef` ID.

### ***Unable to deobfuscate grant attributes***

Fixed

PF-34839

Fixed a defect where PingFederate was unable to deobfuscate grant attributes of a certain length.

### ***Valid Authorization policy generates "Configuration Error" message***

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return an `Invalid Configuration`

2023)

OpenID Connect (OIDC) relying party (RP) initiated logout allows OAuth clients to request that the OpenID Provider (OP) perform a federated logout. PingFederate now supports this standard, both when PingFederate acts as the OP as well as when it acts as the RP via an OIDC IdP connection.

For more information, see [OAuth Client Management Service](#), [Configuring OpenID Provider information](#), and [OpenID Connect RP-initiated logout endpoint](#).

### ***Add risk provider to Identifier First Adapter***

**New**

PF-34415

You can now add risk provider such as CAPTCHA to Identifier First adapters.

For more information, see [Configuring an Identifier First Adapter instance](#)

### ***Skip redirect to authentication application if no action is required***

**New**

PF-34413

API-capable IdP adapters can now prevent a redirect to the authentication application if no user interaction is required.

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roduced in PingFederate 12.x.

### ***threads***

ou when the number of threads in  
ure to initiate and log a thread dump

tations.

### ***resh\_token***

You can now configure your authorization server settings for OAuth and OIDC users so that their decisions to grant access can be persisted after a `refresh_token` is revoked.

For more information, see **Authorization Consent** in Configuring authorization server settings.

### *Admin console notification of expiring certificates*



PingFederate will now issue a notification in the admin console before a certificate expires. You can configure the duration of the notification before and after expiry in the **Runtime Notifications** menu.

Deleted certificates are removed from the notifications menu.

For more information, see Configuring runtime notifications.

### *Selective replication for connections and OAuth clients*



We further improved support for self-service and application on-boarding use cases. OAuth

ated to PingFederate engine nodes  
it lets development teams manage  
ministrators. For more information,

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#### **ort**

open identity standards, it now  
pecification. This feature enables  
o PingFederate's proprietary front-  
nfiguring OAuth clients.

#### **requests and responses**

New

PF-33987

For OpenID Connect IDP connections, log files now include more details so that you can analyze and resolve connection problems easier. You can enable this feature just by selecting a checkbox in the **Log Settings**. For more information, see [Log settings](#).

### *Creating short-lived or non-persistent sessions when **This is my device** isn't selected*

New

PF-33982

Now you can configure PingFederate to enable sessions on shared devices. Devices can be configured as private or public (unspecified) and maintain persistent sessions. This feature is available through the HTML Form Adapter. For more information, see [Configuring authentication sessions](#).

### *The CyberArk Secret Manager can pull different username values from CyberArk*

New

PF-33985

The integration with the CyberArk Secret Manager now allows access to all values available in the secret manager plugin for the

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freedom when building user journeys.

the secret manager plugin for the

#### *Authentication API applications*

`response_mode=pi.flow`, users are authenticated rather than to PingFederate. For more information, see [Configuring self-](#)

New

PF-33988

To further support Amazon DynamoDB use cases, now you can also use account linking with this NoSQL database. For more information, see [Configuring an Amazon DynamoDB for account-link storage](#).

### *Optional input and output contracts for policy fragments*

New

PF-33332

This feature simplifies the use of PingFederate policies because it no longer requires input or output contracts for certain fragments. This improves the readability, maintainability, and performance of these policies. For more information, see [Policy fragments](#).

### *OpenBanking plugin support for the `dpop_bound_access_tokens` parameter*

New

PF-33631

Enhancing PingFederate's support for OAuth DPoP, this release includes support for this type of access token. It lets developers learn more about the use and importance of the `dpop_bound_access_tokens` parameter. For more information about the parameter, see

[validator plug-in](#) [on GitHub](#).

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## Startup

significantly slows down PingFederate initialization. Plugins will then only be

at customers. For more information  
ing it, open a support case.

The PingOne Protect Integration Kit is now bundled with PingFederate.

### ***PingID Integration Kit***

**Improved**

PF-34369

The PingID Integration Kit has been updated to version 2.26.

### ***PingOne MFA Integration Kit***

**Improved**

PF-34368

The PingOne MFA Integration Kit has been updated to version 2.2.1.

### ***Java 17 support for Thales Luna Network HSM integration***

**Improved**

PF-34168

When integrating with Thales Luna Network hardware security modules (HSMs), you can now use Java 17.

For more information, see [Integrating with Thales Luna Network HSM](#)

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any OGNL expression tests  
event type of `TEST_EXPRESSION`. For

ed to capture more details.

***nce through Azure Active***



Improved

PF-33621

Now PingFederate supports authentication to Azure SQL Managed Instance through Azure Active Directory without a username and password. For more information, see [Configuring a JDBC connection](#).

### *Upgraded BCFIPS library*

Improved

PF-32747

Upgraded the BCFIPS library to 1.0.2.4, which now supports enabling BCFIPS mode with Java 17.

For more information, see [Bouncy Castle FIPS provider](#) and [Integrating Bouncy Castle FIPS providers](#).

### *Upgraded third-party libraries*

Improved

- Upgraded Jetty to version 9.4.53.v20231009.
- Upgraded JGroups to version 4.2.24.Final.

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CADV040.

### *Wizard*

e Initial Setup Wizard described in

## *Prevent JGroups thread pool exhaustion in large clusters*

Fixed

PF-34718

For fresh installs, we changed the default value of

`pf.cluster.TCPPING.return_entire_cache` in `jgroups.properties` from `true` to `false`.

This prevents an issue where remote procedure calls (RPCs) can be dropped in large clusters that use TCPPING.

For more information, see Upgrade considerations introduced in PingFederate 12.x.

## *Swagger response for oauth/accessTokenMappings*

Fixed

PF-34500

Fixed an issue with the administrative API doc on the `/oauth/accessTokenMappings` endpoint not matching the actual endpoint response.

## *multi-value contains DN in policy rule check no longer case-sensitive*

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ins DN now ignore case while

calls

are logged at the DEBUG level rather

value

Added the value `none` to `/.well-known/openid-configuration/token_endpoint_auth_methods_supported`

### *The `id_token_jti` property in token endpoint responses*

**Fixed**

PF-34210

The `id_token_jti` property is no longer included in token endpoint responses.

### *Administrative API defect when fragment rules have **Default to Success** disabled*

**Fixed**

PF-34216

Fixed an administrative API defect when a fragment rule had **Default to Success** disabled

### *Fixed `/idp/startSLO.ping` 404 caused by virtual issuer configuration*

**Fixed**

PF-34322

Fixed an issue that was returning a `404` error if the `/idp/startSLO.ping` endpoint was hit while a virtual issuer was configured. You can now configure virtual issuers with a

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## *`/namoDB` storage*

vate key JWT based authentication

*ent grant that is expired with*

DB no longer causes a null pointer

## ***Connections close after getting a 401 or 403 from PingOne API***

Fixed

PF-34545

Fixed an issue preventing PingFederate from closing connections after receiving a 401 or 403 response from PingOne MFA.

## ***PingFederate systematically adds server-side sort control***

Fixed

PF-33466

You can now turn off server-side sorting via a configuration option.

## ***Unable to copy and paste policy contract in specific situations***

Fixed

PF-34433

You can now copy and paste a policy contract below a selector node.

## ***XML decryption failing with KeyName element***

Fixed

PF-34536

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... element could fail if a `KeyName` was

**ages**

(OTL) in password-reset email  
ication configured for the policy,

**provider authentication**

When a service provider (SP) authentication policy fails, PingFederate now renders the `sp.sso.error.page.template.html` page instead of the `idp.sso.error.page.template.html` page.

### *Updating OAuth clients with dynamic client registration*

Fixed

PF-34146

Fixed a defect where an OAuth client created with dynamic client registration (DCR) couldn't be updated with DCR after it was modified with the administrative console.

### *Idle JDBC datastore connections*

Fixed

PF-34163

Now PingFederate closes idle JDBC datastore connections until the minimum pool size is reached instead of closing and recreating all of them.

### *The `id_token_jti` property in token endpoint responses*

Fixed

PF-34210

token endpoint responses.

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### *les have **Default to Success***

ile had **Default to Success** disabled

### *when disabled*

mail notifications for licensing events  
**ications** configuration.

### *jetty library upgrade*

Fixed

PF-31865

We upgraded the Jetty library, resolving CVE-2022-2047 and CVE-2022-2048.

### *OAuth scope names*

Fixed

PF-33056

Using `submit` and `onSubmit` as OAuth scope names in the administrative UI drop-down no longer causes front-end JavaScript errors.

### *Empty authorization\_details omitted*

Fixed

PF-33174

The `authorization_details` claim in a [JWT](#) access token manager configuration is no longer sent if it's empty.

### *Policy fragment validation error*

Fixed

PF-33156

Policy fragment validation errors no longer fail with an Invalid

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an outbound provisioning data  
each provisioning cycle when the

described in security advisory

## ***PingFederate as a Windows service***

Fixed

PF-33450

We fixed an issue so that PingFederate as a Windows service now runs on Java 17. When updating to the latest maintenance release using an in-place update method (for example, from 11.3.0 to 11.3.x), in addition to the steps in [Updating to the latest maintenance release](#), you must remove the existing PingFederate Windows service. After removal, re-install the PingFederate Windows Service to apply this fix.

## ***Authentication policy fail path***

Fixed

PF-33519

When an OIDC identity provider (IdP) connection fails in an authentication policy, PingFederate now continues on to the fail path of the authentication policy.

## ***Fragment mapping validation error***

Fixed

PF-33722

We resolved an issue that incorrectly produced an administrative API validation error when `edUser` as the mapping source.

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in a rich authorization request (RAR)  
erate no longer supports

## ***ation data***

an engine node in a cluster to start

## *Server error when revoking user sessions*

Fixed

PF-33920

Resolved an issue that prevented user sessions from being revoked through the session management API when using persistent sessions.

## *Potential security vulnerability*

Fixed

PF-33935

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

## *Fragment mapping validation errors*

Fixed

PF-33957

When utilizing the PingFederate administrative API to create or update a fragment that includes another fragment, the API will no longer produce a validation error when fragment mapping involves an input source type.

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e.html template now contains the

described in security advisory



Fixed

PF-34051

We fixed a policy evaluation issue that occurred when `ui_locales` was present in an authentication request.

### *Certificate import improvements*

Fixed

PF-34074

We updated the administrative UI to include certification serial number in the drop-down, thus preventing import errors for certifications sharing the same Subject DN and expiration date combination.

### *DynamoDB attribute lookup error*

Fixed

PF-34099

We fixed an attribute lookup error that occurred when different DynamoDB attributes shared an overlapping path.

### *Certificate in-use detection slowdown*

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very certificate when loading  
e, which slowed down performance.

### *Integrated RADIUS server*

2 contain version 3.0.2 of the PingID  
e PCV has known issues that you  
n, see Known issues in PingID RADIUS

## Administrative console and administrative API

### Issue

- Although PingFederate 11.3 and later support DPoP, a known limitation is that the following features don't support DPoP when PingFederate is the RP:
  - The administrative console authentication scheme using OIDC
  - The administrative API authentication scheme using OAuth 2.0
- /bulk: Only resource types currently supported by the administrative API are included in the exported data. We don't intend to introduce administrative API support to the following areas:
  - SAML 2.0 IdP Discovery
  - SAML 2.0 SP Affiliation
  - SMS Provider
- Previously, the administrative API did not accurately reflect a **Persistent Grant Max Lifetime** setting of 29 days (or shorter) with the selection of the **Grants Do Not Timeout Due To Inactivity** option. As a result, if you have configured such OAuth authorization server settings and have generated a bulk export in version 10.0 through 10.0.2, we recommend that you re-generate a new bulk export after upgrading to

10.0.3. The bulk exported data does not contain the **Persistent Grant Max Lifetime** setting. To export it to version 10.0.3 (or a more

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dition, administrators often configure a browser to use a browser to access the PingFederate returns to the browser handshake. If the browser's client is, the browser often presents you the acceptable issuers. However, Chrome presents you all its issuer matches one of the

to an LDAP server for administrative doesn't support using a Microsoft

Active Directory server.

- Prior to toggling the status of a connection with the administrative API, you must ensure that any expired certificates or no longer available attributes are replaced with valid certificates or attributes; otherwise, the update request fails.
- When creating or updating a child instance of a hierarchical plugin, the administrative API retains objects with an `"inherited": false` name/value pair (or without such name/value pair altogether), ignores those with a value of `true`, and returns a 200 HTTP status code. No error messages are returned for the ignored objects.
- Using the browser's navigation mechanisms (for example, the **Back** button) causes inconsistent behavior in the administrative console. Use the navigation buttons provided at the bottom of windows in the PingFederate console.
- Using the PingFederate console in multiple tabs on one browser might cause inconsistent behavior which could corrupt its configuration.
- If authenticated to the PingFederate administrative console using certificate authentication, a session that has timed out might not appear to behave as expected. Normally (when using password authentication), when a session has timed out and a user attempts some action in the console, the browser is redirected to the sign-on page, and then back to the administrative console after authentication is complete. Similar behavior applies for certificate authentication, in principle. However, because

certificate for authentication, the  
ole and not the sign on page.

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MFA CIBA Authenticator bundled in  
this issue was resolved in version 2.2

versions earlier than 8u261),

PingFederate fails on start up with a `NoSuchAlgorithmException` exception. To resolve

this error, remove `TLSv1.3` from the following settings in the `run.properties` file:

- `pf.tls.client.protocols`
- `pf.tls.runtime.server.protocols`
- `pf.tls.admin.server.protocols`

## *TLS cipher suite customization*

### Issue

PingFederate's TLS cipher suites can be customized by modifying `com.pingidentity.crypto.SunJCEManager.xml` (or a similarly-named file if BCFIPS or an HSM is configured). After updating the file and replicating, all cluster nodes must be restarted for the change to take effect.

## *Java*

### Issue

- CloudHSM is not supported when using Java 17.
- Updating Java version 8 to version 11 results in an error when PingFederate is already

and this issue, uninstall and reinstall

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`installPingFederateService.bat`  
`bin/wrapper`.

icate as an SSL server certificate.

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 is not currently supported.

### Entrust HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to import a PKCS12- or PEM-formatted EC certificate.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 is not currently supported.

## SSO and SLO

### Issue

- When consuming SAML metadata, PingFederate does not report an error when neither the `validUntil` or `validityPeriod` attribute is included in the metadata. Note that the metadata is valid as indicated by the `validUntil` attribute.

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used with the Single log off (SLO) request. The request is included with the logout request.

For each unique server IDs, PingFederate will track the session recovery during an SP-initiated SSO.

through a Composite Adapter instance. The adapter is used to connect to the external system.

## *Self-service password reset*

Issue

Passwords can be reset for Microsoft Active Directory user accounts without the permission to change password.

## *OAuth*

Issue

PingFederate does not support a case-sensitive naming convention for OAuth client ID values when client records are stored in a directory server. For example, after creating a client with an ID value of `sampleClient`, PingFederate does not allow the creation of another client with an ID value of `SampleClient`.

Although it's possible to create clients using the same ID values with different casings when client records are stored in XML files, a database server, or custom storage, we recommend not doing so to avoid potential record migration issues.

## *Customer identity and access management*

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or fields that have been designed for more date-specific fields are defined age (or both), end users must enter date-picker user interface for those

ning to fail if the `user` or `group` in an OU or within the Users CN.

icates the number of results returned in the current response, not the total number of estimated results on the LDAP server.

## Logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant `USER_KEY` attribute, the `USER_KEY` attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## Database logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant `USER_KEY` attribute, the `USER_KEY` attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

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-Request packets when the  
s. IPv6 is not supported.

plugins based on the AWS SDK, such as  
r the `http.proxyHost`,

`http.proxyPort`, `http.proxyUser`, and `http.proxyPassword` properties in `run.properties`. The plugin will rely on these properties even if the service URL is `https`.

## Deprecated features

### *SAML IdP Discovery and SAML SP Affiliations*

Info

As of PingFederate 12.0, these features have been deprecated, and will be removed in a future release.

### *Text Message SSPR*

Info

Support for text message self-service password reset (SSPR) is deprecated as of PingFederate 12.0 and will be removed in a future release. To ensure continued support, migrate your SSPR configurations to an authentication policy using the One-Time Passcode Integration Kit.

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ports upgrading from PingFederate

d with PingFederate.



Ping Identity commits to deliver the best experience for administrators and users. As we continue to improve our products, we encourage you to migrate off of Microsoft Internet Explorer 11. Starting with PingFederate 11.0, Internet Explorer 11 is no longer included in the PingFederate qualification process for administrators or users. For a list of supported browsers, see [System requirements](#).

### ***Configcopy tool, Connection Management Service, SSO Directory Service***

Info

As of PingFederate 10.2, these features have been deprecated and will be removed in a future release.

### ***Oracle Directory Server Enterprise Edition***

Info

As Oracle ended its Premier Support for Oracle Directory Server Enterprise Edition (ODSEE 11g) in December 2019, we no longer include ODSEE as part of the PingFederate qualification process (starting with PingFederate 10.2). We continue to qualify against Oracle Unified Directory [↗](#) and other supported directory servers. For a full list, see [System requirements](#).

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ting through the SNMP has been

re always enabled and no longer  
API.

Info

Starting with PingFederate 10.1, the S3\_PING discovery protocol has been deprecated. Customers running on AWS infrastructure should instead use NATIVE\_S3\_PING.

### *Red Hat Enterprise Linux install script*

Info

Starting with PingFederate 10.0, the Red Hat Enterprise Linux install script is no longer available. To install PingFederate 10.0 for Linux, you must download and extract the product distribution `.zip` file.

## PingFederate 11.3.15 (April 2026)

### New features and enhancements

#### *Unconnected cluster node startup*

Improved

PF-38898

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`n.startup` parameter to the

from starting up without establishing

ts to `/idp/startSLO.ping` failed to

## *OGNL code test*

**Security**

PF-38742

We improved role-based access control (RBAC) for the administrative expression testing endpoint. Access to expression evaluation is now limited to appropriately privileged roles, ensuring alignment with intended administrative permissions.

## *Dyanmic JWKS rotation timer*

**Fixed**

PF-38903

We fixed a defect that prevented dynamic JWKS rotation timing from resetting after a node joined a cluster.

# PingFederate 11.3.14 (October 2025)

---

## Resolved issues

### *HTML flow login and Authentication API*

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to access an HTML browser sign-on  
s used.

ndering in redirectless mode in the

ectly lock user accounts during an  
applies to all LDAP datastore types

# PingFederate 11.3.13 (September 2025)

---

## Resolved issues

### *Refresh token MySQL deadlocks*

Fixed

PF-35868

We've fixed a defect that caused multiple refresh token requests in short succession to result in [JDBC](#) data source deadlocks and duplicated data entry into the database.

This feature can cause significant performance issues if PingFederate or the JDBC data source has insufficient resources.

### *Virtual hostname accuracy in email notifications*

Fixed

PF-37964

We've fixed a defect where a template variable incorrectly used the primary PingFederate base URL instead of the virtual hostname in some email notifications.

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ils library version 1.11.0 and Apache

25)

ry client secret

We've fixed a defect that caused the token endpoint to unnecessarily reissue an ID token when using a secondary client secret and an asymmetric algorithm for token signing and encryption.

## PingFederate 11.3.11 (April 2025)

---

### New features and enhancements

#### ***NATIVE\_S3\_PING update***

**Improved**

PF-37234

We've updated the behavior of the `NATIVE_S3_PING` discovery protocol when the `remove_all_data_on_view_change` parameter is active.

Previously, the protocol would delete all files in the S3 bucket, which could lead to the creation of an unwanted subcluster.

Now the protocol deletes all files except for its own to prevent the S3 bucket from being empty.

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user group membership information  
ning operations.

We've fixed a defect that caused the ID token claim to be omitted when an OAuth client uses the secondary secret.

## PingFederate 11.3.10 (December 2024)

---

### Resolved issues

#### *Cross-site scripting*

**Security**

PF-36304

PF-36311

PF-36313

We've fixed a security vulnerability where PingFederate accepted cross-site scripting inputs.

#### *Email verification failure after registration workflow*

**Fixed**

PF-36574

We've fixed a defect that caused the email verification screen to fail to appear when a user registered through an authentication source.

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### h DynamoDB

for OAuth Client for OAuth Client Set storage.

### er 2024)

---

We've fixed a defect that caused refresh tokens to roll prematurely when making authorization requests to servers in different time zones.

### ***Provisioning character limit***

**Fixed**

PF-36035

We've fixed a defect that caused outbound provisioning to fail and cease if a source user object exceeded a 255-character limit. In the new behavior, PingFederate will skip user objects that exceed 255 characters and log a warning.

### ***PingDirectory password warning***

**Fixed**

PF-36232

We've fixed a defect that prevented PingFederate from issuing a password expiration warning when using PingDirectory as a datastore.

### ***Multiple application requests within a browser***

**Fixed**

PF-36239

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sions or authentication errors when  
s at the same time.

grant flow errors when clustered

Fixed

PF-34523

We've fixed a defect that caused the OIDC administrative console login to fail when the `node.group.id` didn't match a server's node id.

### ***OGNL Extended Property retrieval failure***

Fixed

PF-35111

We've fixed a defect that caused OGNL to fail to obtain the **Extended Property** value in authorization policies or fragments.

### ***Refresh token rolls when configured not to roll***

Fixed

PF-35166

We've fixed a defect that caused PingFederate to roll refresh tokens when **Refresh Token Rolling Policy** is disabled but **Refresh Token Rolling Interval** has a value.

### ***OAuth client only validates one access token manager when aud parameter included***

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ate only the first OAuth client access  
**igible Access Token Managers** was  
request.

PS

rn IPv4 addresses in a custom  
) method.



The Davinci integration kit has been updated to version 1.2.

## PingFederate 11.3.7 (May 2024)

---

### New features and enhancements

#### *PingOne admin URL property*

**New**

PF-31859

Added support for the Australia region to the `pf.pingone.admin.url.region` property.

The Asia region is deprecated. We recommend using the Australia region instead.

To learn more, see [Configuring PingFederate properties](#).

### Resolved issues

#### *Authentication API allows different user for change password flow*

**Fixed**

PF-35609

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allow a different user to proceed with the flow who initiated the flow.

required to complete the change

#### *API on policy tree*

memory when using the admin API

#### *nores credentials*

Fixed

PF-35618

Fixed a defect that caused the authentication API to ignore credentials for password changes provided after user authentication.

### ***Authentication API validation error***

Fixed

PF-35430

Fixed a defect that caused a validation error in the authentication API when including the `ui_locales` parameter.

### ***Provisioner uses wrong time zone when datasource and PingFederate are in different time zones***

Fixed

PF-35286

Fixed a defect that caused redundant user provisioner updates when the datasource and PingFederate were in different time zones.

## **PingFederate 11.3.6 (April 2024)**

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### ***d Services***

authentication policy involving a local

is used for OAuth client storage.

## ***OIDC policy DELETE request timeout***

Fixed

PF-35357

Fixed a defect where deleting an OIDC Policy fails when using DynamoDB storage for a large number of OAuth clients.

## ***Active Directory binary attribute caused thread proliferation***

Fixed

PF-35142

Fixed a defect that caused LDAP data source connection pools to close when still in use after the LDAP data source is modified and replicating under heavy load.

## ***JWKS algorithm parameter not populated after processing shared keys from cluster***

Fixed

PF-35309

Fixed a defect that caused the `alg` parameter to fail to populate when EC dynamic keys are rotated on a lead cluster node and shared to the cluster.

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2024)

## ***Rest datastore security vulnerability***

**Security**

PF-34720

Fixed a JSON injection vulnerability in REST datastores described in security advisory SECADV044.

## ***Runtime nodes security vulnerability***

**Security**

PF-34896

Fixed a path traversal vulnerability in Runtime nodes described in security advisory SECADV044.

## ***OpenID Connect policy management editor security vulnerability***

**Security**

PF-35081

Fixed a Cross-Site Scripting vulnerability in the OpenID Connect Policy Management Editor described in security advisory SECADV044.

## ***GFT SAMI request signature processing error***

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method with multiple signature-related  
causing errors in processing

pointer exception (NPE) errors when

***fail on engine***

Fixed

PF-34409

Fixed a defect where changes made on the administrative console were not replicated to the engine during reencryption.

### *JMX registration failure for imported archives*

Fixed

PF-34796

Fixed a defect that caused the JMX monitoring to fail to register archive files that are imported to PingFederate.

### *Content type changes if well\_known endpoint response is too large*

Fixed

PF-34865

Fixed a defect that caused the `content-type` of a response from the `well_known` endpoint to change from JSON to HTML if a response is too large.

### *RHEL 8 using OS-level FIPS causes PingFederate failure*

Fixed

PF-34879

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up when installed on a Red Hat  
bled.

ofuscate grant attributes of a certain

### *uration Error" message*

return an "Invalid Configuration"

# PingFederate 11.3.4 (December 2023)

---

## Resolved issues

### *Fixed JDK8 cluster node issue*

**Fixed**

PF-34837

Fixed an issue where nodes were not able to join a cluster when running with JDK8.

# PingFederate 11.3.3 (November 2023)

---

## Resolved issues

### *Improved client authentication security*

**Security**

PF-34645

Fixed a potential security vulnerability described in security advisory SECADV040.

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tribute to address third-party cookie  
chrome.

### *virtual issuer configuration*

idp/startSL0.ping endpoint was  
configure virtual issuers with a

### *Client JWKS now sets properly when using DynamoDB storage*

Fixed

PF-34504

Clients that maintain a JWKS endpoint can now use private key JWT based authentication when requesting an access token.

### ***Fixed NPE when checking an existing persistent grant that is expired with DynamoDB***

Fixed

PF-34606

Checking for existing but expired grants with DynamoDB no longer causes a null pointer exception error (NPE).

### ***Connections close after getting a 401 or 403 from PingOne API***

Fixed

PF-34545

Fixed an issue preventing PingFederate from closing connections after receiving a 401 or 403 response from PingOne MFA.

### ***Outbound provisioning performance improvement***

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uests related to outbound  
e environments.

rSort parameter in the  
xml file.

#### ***specific situations***

selector node.

nt

Fixed an issue where decryption of an encrypted SAML element could fail if a `KeyName` was specified.

### *Resolved a vulnerability in the Initial Setup Wizard*

**Security**

PF-34646

Fixed a Server-Side Request Forgery vulnerability in the Initial Setup Wizard described in security advisory SECADV041.

### *Certificate in-use detection slowdown*

**Fixed**

PF-34077

We fixed a defect that caused PingFederate to check every certificate when loading certificate-related pages in the administrative interface, which slowed down performance.

### *Upgraded third-party libraries*

**Improved**

- Upgraded Jetty to version 9.4.53.v20231009.

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## er 2023)

### nce through Azure Active

QL Managed Instance through Azure  
for more information, see [Configuring](#)



## *Jetty library upgrade*

Improved

We upgraded the Jetty library to 9.4.52.v20230823.

## Resolved issues

### *One-time link in password-reset email messages*

Fixed

PF-33983

When using redirectless mode, now the one-time link (OTL) in password-reset email messages returns users to the authentication API application configured for the policy, rather than to PingFederate.

### *Incorrect error template when using service provider authentication policies*

Fixed

PF-34111

When a service provider (SP) authentication policy fails, PingFederate now renders the

of the

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## *registration*

amic client registration (DCR) couldn't  
ministrative console.

ons until the minimum pool size is

### *The `id_token_jti` property in token endpoint responses*

Fixed

PF-34210

The `id_token_jti` property is no longer included in token endpoint responses.

### *Administrative API defect when fragment rules have **Default to Success** disabled*

Fixed

PF-34216

Fixed an administrative API defect when a fragment rule had **Default to Success** disabled

### *Email notifications for licensing events even when disabled*

Fixed

PF-34225

Resolved an issue that caused PingFederate to send email notifications for licensing events even though they were disabled in the **Runtime Notifications** configuration.

## PingFederate 11.3.1 (August 2023)

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`replication.conf` file to improve  
. By setting  
strative console automatically  
up, eliminating the need to initiate  
a console restart. Additionally, you  
trieve configuration data by setting  
g proves beneficial in DevOps  
y created without any initial

configuration. For more information, see the *publish.replication.data.on.startup* and *require.replication.data.on.startup* property descriptions in Cluster management.

## Resolved issues

### *Jetty library upgrade*

Fixed

PF-31865

We upgraded the Jetty library, resolving CVE-2022-2047 and CVE-2022-2048.

### *OAuth scope names*

Fixed

PF-33056

Using `submit` and `onSubmit` as OAuth scope names in the administrative UI drop-down no longer causes front-end JavaScript errors.

### *Policy fragment validation error*

Fixed

PF-33156

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no longer fail with an Invalid

an outbound provisioning data  
each provisioning cycle when the

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

### ***PingFederate as a Windows service***

**Fixed**

PF-33450

We fixed an issue so that PingFederate as a Windows service now runs on Java 17. When updating to the latest maintenance release using an in-place update method (for example, from 11.3.0 to 11.3.x), in addition to the steps in [Updating to the latest maintenance release](#), you must remove the existing PingFederate Windows service. After removal, re-install the PingFederate Windows Service to apply this fix.

### ***Authentication policy fail path***

**Fixed**

PF-33519

When an OIDC identity provider (IdP) connection fails in an authentication policy, PingFederate now continues on to the fail path of the authentication policy.

### ***Fragment mapping validation error***

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administrative API validation error when  
edUser as the mapping source.

in a rich authorization request (RAR)  
lerate no longer supports

***ation data***

Resolved a replication issue that, in rare cases, caused an engine node in a cluster to start without replication data from other nodes.

### ***Server error when revoking user sessions***

**Fixed**

PF-33920

Resolved an issue that prevented user sessions from being revoked through the session management API when using persistent sessions.

### ***Potential security vulnerability***

**Fixed**

PF-33935

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

### ***Fragment mapping validation errors***

**Fixed**

PF-33957

When utilizing the PingFederate administrative API to create or update a fragment that

duce a validation error when fragment

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e.html template now contains the

described in security advisory

## ***Policy evaluation issue***

Fixed

PF-34051

We fixed a policy evaluation issue that occurred when `ui_locales` was present in an authentication request.

## ***Certificate import improvements***

Fixed

PF-34074

We updated the administrative UI to include certification serial number in the drop-down, thus preventing import errors for certifications sharing the same Subject DN and expiration date combination.

## ***DynamoDB attribute lookup error***

Fixed

PF-34099

We fixed an attribute lookup error that occurred when different DynamoDB attributes shared an overlapping path.

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## ***JWT token managers***

...ude the JSON web token (JWT)  
...ued at). This enables stronger  
...that process that access\_token. For  
...management instance, and in the  
...management tab.

## *Retries for client-side LDAP errors*

New

To further improve reliability and robustness, now PingFederate executes retries rather than failover only. PingFederate initiates a single retry if a request fails and it appears the connection has become invalid. For more information, see the **Retry Failed Operations** field in Setting advanced LDAP options.

## *Referencing incoming PAR parameters in authentication policies*

New

For authorization requests, parameters can now be referenced for incoming PAR requests (pushed authorization requests) inside authentication policies. This lets PingFederate process incoming requests independently of how it received them. For more information, see Pushed authorization requests endpoint.

## *Unique identifiers for PingFederate transactions*

New

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ctionId . For each transaction, this is the final response. This is especially the `transactionid` field in Security

### ail templates

user details. With these details, you can send messages, such as greetings by name, or trigger a workflow. The attributes are

### ings

New

Previously, PingFederate produced notifications to inform administrators about expiring certificates. Now you can configure PingFederate to log upcoming expirations without producing notifications. For more information, see [Configuring runtime notifications](#).

## *Improved European Union compliance with SAML 2.0*

New

Two major SAML 2.0 messaging improvements align PingFederate closer to EU regulations:

- Now PingFederate can decrypt `EncryptedID` elements included as SAML attributes. They no longer must be enclosed as an `EncryptedAttribute`. For more information, see [Specifying XML encryption policy \(for SAML 2.0\)](#).
- To enhance signing capabilities, PingFederate now also supports some of the RSASSA-PSS algorithms. For more information, see [Signing algorithms](#).

## *Support for credential-protected forward proxy servers*

New

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authentication purposes, now you can  
so that connections can be easily  
onfiguring forward proxy server

### kups

NoSQL) now lets you use DynamoDB  
orts the DynamoDB query language  
ee [Configuring an AWS DynamoDB](#)



New

As regulations for APIs in the context of financial services tighten, it's important to support highly secure API authentication and authorization methods. [OAuth DPOP](#) (Demonstrating Proof-of-Possession) is an extension to the OAuth framework and specifies how OAuth tokens are bound to clients. Clients must digitally prove the ownership of these tokens at runtime, which prevents unauthorized clients from misusing them. This extension is useful for any OAuth scenario, not only in financial environments. For more information, see [Configuring authorization server settings](#).

### *Logging the TLS version that clients use*

New

For TLS connections, PingFederate can now log the TLS version that clients use. This gives you an easy way to identify clients that might need updates to use newer versions. For more information, see the `tlsversion` field in [Security audit logging](#).

### *Certificate expiration dates added to certificate menus*

New

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menus show the distinguished name and a serial number. This gives you

nge capabilities so that you can validate and accept incoming tokens information, see [Configuring a JWT](#)

Complex authentication policies are sometimes challenging to manage. To simplify your work and add flexibility to policies, PingFederate provides several policy enhancements:

- Now the Requested AuthN Context Authentication Selector can determine the authentication context for flows. For more information, see [Configuring the Requested AuthN Context Authentication Selector](#).
- Now you can use Context and Extended Properties for attribute sources when mapping authentication policy contracts and local identity profiles. For more information, see [Configuring contract mapping](#), [Configuring local identity mapping](#), and [Defining issuance criteria for contract or local identity mapping](#).
- Now you can use the Scope and Virtual Server ID attributes for authentication sources in policy rules. For more information, see [Scope and Virtual Server ID in Configuring rules in authentication policies](#).
- Now you can use OGNL expressions to configure more complex policy rules. For more information, see [Expression in Configuring rules in authentication policies](#).

## ***PAR support for OIDC IdP connections and OIDC admin authentication***

New

PingFederate now initiates outbound authorization requests using the PAR endpoint of the

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ancement lets PingFederate use PAR security. For more information, see the [Configuring OpenID Provider](#)

### **Logout**

ederate now supports back-channel s configured as an OpenID Connect tion, see the [OpenID Connect Back-](#)

### **Iders**

New

Now PingFederate can include JWT header values `x5t` and `typ` in the ID tokens it issues. You can include the `x5t` header with static keys enabled, whereas you can configure the `typ` header to an appropriate value without a dependency on the types of keys. The `x5t` header adds another mechanism for verifying the validity of a received JWT. For information about the `x5t` and `typ` parameters, see the JSON web key [↗](#) (JWK) and JWT [↗](#) specifications, respectively, and steps 9 and 10 in Configuring policy and ID token settings.

### *Support for the alg parameter response for JWKS keys*

New

The `alg` header is now supported in PingFederate's JWKS endpoint. Any elliptic curve keys and all RSA-256 based keys expose this header. This feature lets clients verify that a received JWT has been signed by the advertised algorithm. For information about the `alg` parameter, see the JWK [↗](#) specification and JSON Web Keys endpoint.

### *Support for client\_secret\_jwt as client authentication*

New

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ent can choose to create a signed endpoint, introspection endpoint, the client secret. This feature prevents exchanged with any party.

s an RP. For more information, see on and Client authentication

#### Practice

h token is revoked or if a refresh codes and access tokens. For more Configuring authorization server

settings.

## *Overriding configuration settings using environment variables*

New

Now you can configure many properties as environment variables instead of setting them in properties files. This is especially important for container environments, which is common practice.

## *Auditing enhancements*

New

Several enhancements provide more details in PingFederate generated logs. These include the logging of JWT IDs (jti), hashed values of authorization codes, access tokens, and refresh tokens. Also, PingFederate now logs which system has locked out users after multiple, unsuccessful login attempts, so you'll know if it was PingFederate or an LDAP server. PingFederate also adds more details to the administrative API logs, so now there are almost no differences between logs generated when using the administrative console or administrative API. For more information, see [Administrator audit logging](#), [Administrative API audit log](#), and [Security audit logging](#).

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's

moDB. With this update, you can use  
s, and persistent authorization  
moDB for client storage.

3. For more information, see  
ation.

*P) for HTML templates*

**New**

Now you can include CSP policies for HTML templates without having to implement workarounds. For more information, see [Customizable user-facing pages](#).

### ***Ability to use additional Velocity tools***

**New**

Now you can use Velocity templates with more tools, such as cookieTool.

### ***Support for Microsoft Azure SQL Managed Instance***

**New**

PingFederate now supports Microsoft Azure SQL Managed Instance. For more information, see the Datastore integration table in [System requirements](#), and for more information on how to configure a connection to Microsoft Azure SQL Managed Instance, see [Configuring a JDBC connection](#).

### ***mTLS authentication for REST API datastores***

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Authentication for REST API

for LDAP datastores.

security module (HSM) with

## *Bundled User Count Utility*

New

We added the User Count Utility (UCU) as a bundled component. You can use the UCU to produce unique and active user counts in a PingFederate environment.

## *Upgraded third-party components*

New

We upgraded the following third-party components:

- Upgraded Spring Framework to 5.3.27
- Upgraded jose4j to 0.9.3

## Resolved issues

### *SAML login session tracking*

Fixed

PF-33168

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This security improvement can affect session states in a single transaction.

can be affected, and the steps to in the Ping Identity Support Portal.

### *LDAP PCV search filter*

h filter, the following message  
This search operation has sent

ers

Fixed

PF-32783

Now multivalued request parameters work as expected in authorization requests for OIDC administrative console authentication.

### ***Tracked parameters in the LDAP search filter when using the administrative API***

Fixed

PF-32914

Now you can use tracked parameters in the Attribute Sources and User Lookup LDAP search filter when using the administrative API.

### ***Showing and hiding passwords being entered***

Fixed

PF-33059

Now all password entry fields in PingFederate templates have icons that let users show and hide the password they're entering.

### ***Connections and OAuth clients referencing deleted extended properties***

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ed extended property, PingFederate  
nores the extended property and

or PingFederate when third-party

#### ***nt adapters***

Now PingFederate can use customized messages from external consent adapters in error responses.

### *Restricting password credential validators*

Fixed

PF-33487

When `restrictToDefaultAccessTokenManager` is enabled on an OAuth client, the client can only get access tokens when being validated by password credential validators that are mapped to the restricted access token manager.

### *Bypass Authorization Approval and prompt parameters*

Fixed

PF-33598

When an OAuth client has Bypass Authorization Approval enabled, now that setting takes precedence over the `prompt` parameter in requests.

### *Document file permissions*

Fixed

PF-33605

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### *ive JVM heap*

ive JVM heap on Windows systems.

### *n grant handling*

vation Code is set to **Before**  
input parameters map when  
l.



## ***Converting the values of binary attributes from PingOne LDAP gateway datastores***

Fixed

PF-33637

Now when PingFederate retrieves a binary attribute from a PingOne LDAP gateway datastore, it correctly converts the attribute value to the specified format (base64, SID, hex).

## ***Unexpected certificate usage***

Fixed

PF-33709

When more than one trusted CA matches the issuer DN of an OAuth client, now PingFederate only flags the trusted CA as in use if its certificate hasn't expired and its subject DN matches the client's configured issuer DN.

## ***Potential information disclosure vulnerability***

Fixed

PF-33867

Removed a potential information disclosure vulnerability.

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### **sources**

ces such as images and CSS.

ute lookup to fail during OAuth flows,  
t/data/config-  
pping.xml file's  
, now PingFederate returns a 500

## *Usercount Utility's aggregate command*

Fixed

PF-32757

When you run the Usercount Utility's aggregate command:

- If all `.ucu` files contain tracking IDs, the utility generates a user count for each event, like before.
- If no `.ucu` files contain tracking IDs, now the utility generates a user count for each application.
- If some `.ucu` files contain tracking ids but others don't:
  - for the files without tracking IDs, now the utility generates a user count for each application.
  - for the files with tracking IDs, now the utility generates a user count for each event.

## *CPU load displayed as N/A*

Fixed

PF-32837

Now, the CPU load is displayed as "N/A" instead of the value with digits instead of as

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page return in audit logs during SP-  
ponded with a non-success status.

## *Integrated RADIUS server*

PingFederate versions 11.1.4, 11.1.5, 11.2.1, and 11.2.2 contain version 3.0.2 of the PingID password credential validator (PCV). That version of the PCV has known issues that you should review before upgrading. For more information, see [Known issues in PingID RADIUS PCV 3.0.2](#).

## *Administrative console and administrative API*

### Issue

- Although PingFederate 11.3 and later support DPoP, a known limitation is that the following features don't support DPoP when PingFederate is the RP:
  - The administrative console authentication scheme using OIDC
  - The administrative API authentication scheme using OAuth 2.0
- /bulk: Only resource types currently supported by the administrative API are included in the exported data. We don't intend to introduce administrative API support to the following areas:
  - SAML 2.0 IdP Discovery
  - SAML 2.0 SP Affiliation
  - SMS Provider

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ely reflect a **Persistent Grant Max** election of the **Grants Do Not** you have configured such OAuth a bulk export in version 10.0 through w bulk export after upgrading to vly exported data does not contain ort it to version 10.0.3 (or a more

tion, administrators often configure a ou use a browser to access the PingFederate returns to the browser ndshake. If the browser's client es, the browser often presents you the acceptable issuers. However, ;, Chrome presents you all its

configured client certificates, regardless of whether the issuer matches one of the acceptable issuers or not.

- When using mTLS authentication to authenticate to an LDAP server for administrative console or administrative API access, PingFederate doesn't support using a Microsoft Active Directory server.
- Prior to toggling the status of a connection with the administrative API, you must ensure that any expired certificates or no longer available attributes are replaced with valid certificates or attributes; otherwise, the update request fails.
- When creating or updating a child instance of a hierarchical plugin, the administrative API retains objects with an `"inherited": false` name/value pair (or without such name/value pair altogether), ignores those with a value of `true`, and returns a 200 HTTP status code. No error messages are returned for the ignored objects.
- Using the browser's navigation mechanisms (for example, the **Back** button) causes inconsistent behavior in the administrative console. Use the navigation buttons provided at the bottom of windows in the PingFederate console.
- Using the PingFederate console in multiple tabs on one browser might cause inconsistent behavior which could corrupt its configuration.
- If authenticated to the PingFederate administrative console using certificate authentication, a session that has timed out might not appear to behave as expected.

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When a session has timed out and a browser is redirected to the sign-on page after authentication is complete. In principle, however, because certificate for authentication, the console and not the sign on page.

MFA CIBA Authenticator bundled in this issue was resolved in version 2.2

## Issue

For Java versions that don't support TLSv1.3 (meaning versions earlier than 8u261), PingFederate fails on start up with a `NoSuchAlgorithmException` exception. To resolve this error, remove `TLSv1.3` from the following settings in the `run.properties` file:

- `pf.tls.client.protocols`
- `pf.tls.runtime.server.protocols`
- `pf.tls.admin.server.protocols`

### *TLS cipher suite customization*

## Issue

PingFederate's TLS cipher suites can be customized by modifying `com.pingidentity.crypto.SunJCEManager.xml` (or a similarly-named file if BCFIPS or an HSM is configured). After updating the file and replicating, all cluster nodes must be restarted for the change to take effect.

## *Java*

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not supported when using Java 17.

an error when PingFederate is already installed and this issue, uninstall and reinstall

`installPingFederateService.bat`  
`bin/wrapper`.

icate as an SSL server certificate.

- TLS 1.3 is not currently supported.

### Thales HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 is not currently supported.

### Entrust HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.
- It is not possible to import a PKCS12- or PEM-formatted EC certificate.
- It is not possible to use an EC certificate as an SSL server certificate.
- TLS 1.3 is not currently supported.

## SSO and SLO

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does not report an error when neither  
ite is included in the metadata. Note  
data as indicated by the **validUntil**

sed with the Single log off (SLO)  
: included with the logout request.

ual server IDs, PingFederate will  
covery during an SP-initiated SSO

SLO is not supported when users are authenticated through a Composite Adapter instance that contains another instance of the Composite Adapter.

## *Self-service password reset*

Issue

Passwords can be reset for Microsoft Active Directory user accounts without the permission to change password.

## *OAuth*

Issue

PingFederate does not support a case-sensitive naming convention for OAuth client ID values when client records are stored in a directory server. For example, after creating a client with an ID value of `sampleClient`, PingFederate does not allow the creation of another client with an ID value of `SampleClient`.

Although it's possible to create clients using the same ID values with different casings when client records are stored in XML files, a database server, or custom storage, we recommend not doing so to avoid potential record migration issues.

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or fields that have been designed for more date-specific fields are defined age (or both), end users must enter date-picker user interface for those

- LDAP referrals return an error and cause provisioning to fail if the `user` or `group` objects are defined at the DC level, and not within an OU or within the Users CN.
- The `totalResults` value in SCIM responses indicates the number of results returned in the current response, not the total number of estimated results on the LDAP server.

## Logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant `USER_KEY` attribute, the `USER_KEY` attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## Database logging

### Issue

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...ing in an IdP adapter or IdP  
... OAuth's persistent grant `USER_KEY`  
...ked in the server logs. Other

...masking in an IdP adapter and the  
...e user key, the user key attribute is

...Request packets when the  
...s. IPv6 is not supported.



## *Amazon SNS Notification Publisher*

Issue

When deploying PingFederate with a forward proxy, plugins based on the AWS SDK, such as the Amazon SNS Notification Publisher, will only honor the `http.proxyHost`, `http.proxyPort`, `http.proxyUser`, and `http.proxyPassword` properties in `run.properties`. The plugin will rely on these properties even if the service URL is `https`.

## *PingOne Fraud integration kit*

Info

PingOne Fraud

The PingOne Fraud integration kit is no longer bundled with PingFederate.

## Deprecated features

### *Microsoft Internet Explorer 11*

Info

Ping Identity commits to deliver the best experience for administrators and users. As we migrate off of Microsoft Internet Explorer 11 is no longer included in our releases for administrators or users. For a list of supported

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### *Service, SSO Directory Service*

deprecated and will be removed in a

As Oracle ended its Premier Support for Oracle Directory Server Enterprise Edition (ODSEE 11g) in December 2019, we no longer include ODSEE as part of the PingFederate qualification process (starting with PingFederate 10.2). We continue to qualify against Oracle Unified Directory [↗](#) and other supported directory servers. For a full list, see [System requirements](#).

## ***SNMP***

Info

Starting with PingFederate 10.2, monitoring and reporting through the SNMP has been removed.

## ***Roles and protocols***

Info

Starting with PingFederate 10.1, roles and protocols are always enabled and no longer configurable through the administrative console and API.

## ***S3\_PING discovery protocol***

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protocol has been deprecated. Please use NATIVE\_S3\_PING.

The Linux install script is no longer used. To install, just download and extract the

er 2024)

## Resolved issues

### *Cross-site scripting*

Security

PF-36304

PF-36311

PF-36313

We've fixed a security vulnerability where PingFederate accepted cross-site scripting inputs.

### *Email verification failure after registration workflow*

Fixed

PF-36574

We've fixed a defect that caused the email verification screen to fail to appear when a user registered through an authentication source.

## PingFederate 11.2.10 (July 2024)

---

## Resolved issues

### *OAuth client only validates one access token manager when aud*

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ly the first OAuth client access token  
**Access Token Managers** was  
request.

orm

rong content-type value for  
used the page to render as JSON

# PingFederate 11.2.9 (April 2024)

## Resolved issues

### *Rest datastore security vulnerability*

Security

PF-34720

Fixed a JSON injection vulnerability in REST datastores described in security advisory SECADV044.

### *Runtime nodes security vulnerability*

Security

PF-34896

Fixed a path traversal vulnerability in Runtime nodes described in security advisory SECADV044.

### *OpenID Connect policy management editor security vulnerability*

Security

PF-35081

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OpenID Connect Policy Management Editor

PingFederate when third-party logging

### *State failure*

Setup when installed on a Red Hat

Enterprise Linux (RHEL) server with OS-levels FIPS enabled.

# PingFederate 11.2.8 (December 2023)

## New features and enhancements

*Configurable option to turn on/off plugin creation and initialization during PingFederate startup.*

**New**

PF-34640

Added the *ConfigurePluginsOnStartup* variable to the `config-store` file.

Default value of `true` creates and initializes plugins during startup. `false` prevents creation and initialization of plugins, which can reduce startup time.

### *Improved OGNL expression logging*

**Improved**

PF-34050

The administrator audit log file ( `admin.log` ) now logs any OGNL expression tests performed and the expression variables used with an event type of `TEST_EXPRESSION`.

For more information, see [Administrator Audit Logging](#).

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### *Wizard*

the Initial Setup Wizard described in

### *sort control*

uration option.

## *Updating OAuth clients with dynamic client registration*

Fixed

PF-34146

Fixed a defect where an OAuth client created with dynamic client registration (DCR) couldn't be updated with DCR after it was modified with the administrative console.

## *Unable to deobfuscate chunked grant value with character length of 682*

Fixed

PF-34839

Fixed a defect where PingFederate was unable to deobfuscate grant attributes for a small group of users in OAuth flows.

# PingFederate 11.2.7 (August 2023)

---

## Resolved issues

### *Potential security vulnerability*

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described in security advisory

described in security advisory

We fixed a policy evaluation issue that occurred when `ui_locales` was present in an authentication request.

## PingFederate 11.2.6 (June 2023)

---

### Resolved issues

#### *Policy fragment validation error*

Fixed

PF-33156

Policy fragments with valid authentication sources no longer fail with an Invalid Configuration error during runtime.

#### *The `memoryoptions` utility allocates excessive JVM heap*

Fixed

PF-33610

The `memoryoptions` utility no longer allocates excessive JVM heap on Windows systems.

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### *Check Activation Code*

Activation Code is set to **Before** input parameters map when l.

### *Using PingOne LDAP gateway*

om a PingOne LDAP gateway  
ne specified format (base64, SID, hex).

## *Jetty unable to precompress resources*

Fixed

PF-33869

Now PingFederate allows Jetty to precompress resources such as images and CSS.

## *Cluster engine nodes starting without replication data*

Fixed

PF-33881

Resolved a replication issue that, in rare cases, caused an engine node in a cluster to start without replication data from other nodes.

## *Server error when revoking user sessions*

Fixed

PF-33920

Resolved an issue that prevented user sessions from being revoked through the session management API when using persistent sessions.

# PingFederate 11.2.5 (May 2023)

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## *console login*

ers were not working as expected



## *Preservation of changes to certain validation rules*

Fixed

PF-33093

We fixed an issue where PingFederate did not preserve changes to certain validation rules in the `http-request-parameter-validation.xml` file upon upgrade.

## *SAML login session tracking*

Fixed

PF-33168

We improved SP-Initiated SAML login session tracking. This security improvement can affect existing SAML SP connections that rely on multiple session states in a single transaction.

For more information about how your configuration can be affected, and the steps to resolve issues, see Solicited SAML Response Validation in the Ping Identity Support Portal.

## *OTL reset page error messaging*

Fixed

PF-33307

The one-time link (OTL) reset page now displays an error message when the link is expired.

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include the `pi.sri` claim after access grants is enabled.

consent adapters can now retrieve

Fixed

PF-33503

We fixed an LDAP issue where new access grant records were not created with new scopes when **Reuse Existing Persistent Access Grants for Grant Types** was enabled.

### *ID token ACR claim*

Fixed

PF-33557

We resolved an issue where an ID token would not include the Authentication Context Class Reference (ACR) claim if an old client secret was used during the retention period.

### *Redundancies in key algorithm generation*

Fixed

PF-33607

We fixed an issue that affected cluster replication when PingFederate was deployed with AWS CloudHSM. When replication was initiated, engines generated a number of temporary key pairs, and the increased load on the HSM could trigger SSO errors.

## PingFederate 11.2.4 (March 2023)

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e chain could not recognize the  
during lookup.

entity store provisioners that support

## ***DCR with client secret retention***

**Fixed**

PF-33035

We've resolved a null pointer exception (NPE) error that occurred when attempting to set up Dynamic Client Registration (DCR) with client secret retention.

## ***Response handling logs***

**Fixed**

PF-33131

We've added additional logging to help debug unexpected errors in response handling.

## ***OIDC policies with fragments configured***

**Fixed**

PF-33158

We've resolved an issue that occurred when saving OpenID Connect (OIDC) policies with fragments configured.

## ***LDAP filter validation***

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that arose when accessing the **IdP**

PingFederate integrated with AWS  
ns.

2023)

## Potential security vulnerability

Fixed

PF-32748

We've resolved a potential security vulnerability that is described in security advisory SECADV035.

## Log improvements

Fixed

PF-33017

In order to reduce re-encryption and file scanning log verbosity, when a configuration is imported or replicated to a cluster, PingFederate no longer scans files in the `etc` directory.

## Other improvements

New

- We also updated the following bundled components and third-party dependencies:
  - PingID Integration Kit 2.24
  - PingID Adapter 2.13.2

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.0.3

2023)

`te-json` attribute is not present in the log every time a user interacts attribute to adhere to PingDirectory's rsion 8.1 and later supports this

attribute, and customers running older versions are encouraged to upgrade to a supported version as soon as possible.

## PingFederate 11.2.1 (February 2023)

---

### Resolved issues

#### *OAuth client management*

Fixed

PF-32790

When managing OAuth clients, we've resolved a defect where selecting the **Require JWT Secured Authorization Response Mode** text toggled the incorrect checkbox.

#### *Potential security vulnerability*

Fixed

PF-32805

We've resolved a potential security vulnerability that is described in security advisory SECADV033.

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ed in the fragment now correctly  
(able) to inform the adapter of the

rt

w no longer displays or saves an  
the process. For more information,

## Cluster data replication

**Fixed**

PF-32983

We've resolved a defect where cluster data replication could remove keys from engine node's `pf.jwk` file instead of merging and retaining the keys.

## Other improvements

**New**

- We also updated the following bundled components and third-party dependencies:
  - PingID Integration Kit 2.23
  - PingID Adapter 2.13.2
  - PingID PCV (with integrated RADIUS server) 3.0.2

### Note

This version of the PingID PCV has known issues that you should review before upgrading. For more information, see [Known issues in PingID RADIUS PCV 3.0.2](#).

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## 2022)

## metadata

server metadata. This allows OAuth  
s about features that PingFederate  
t Discovery endpoints response but

doesn't include OpenID Connect relevant details. This lets you configure endpoints for your particular use case. See OAuth authorization server metadata endpoint.

## *Support for nested groups and nested search for PingDirectory*

New

For outbound provisioning, PingFederate now supports nested groups and nested search for PingDirectory. This lets you freely choose your favorite directory without needing to choose based on the support for nested groups. See nested group and nested search in Specifying a source location.

## *Exposed AccessGrantManagerAccessor as part of the SDK*

New

The `AccessGrantManagerAccessor` is now accessible in the PingFederate SDK. This lets developers query existing persistent grants at run time. See

`<pf_install>/pingfederate/sdk/doc/com/pingidentity/access/AccessGrantManagerAccessor.html` in the SDK documentation.

## *Improved the sign on experience after users change their password*

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ned in after they change their  
again after updating their password,  
**Require Re-authentication** settings

### *Authentication and authorization*

re API to accept either OAuth  
ally useful in cases where applications

shouldn't include administrator's credentials in API requests. See `pf.admin.api.authentication` in Configuring PingFederate properties.

## ***Support for Google reCAPTCHA v3 and integration with multiple CAPTCHA providers***

New

PingFederate now supports Google reCAPTCHA v3. reCAPTCHA v3 produces a score between 0.0 - 1.0 (risky to safe) that you can use in policies to require step-up authentication or other actions. By default, reCAPTCHA v3 doesn't interrupt user journeys, which are in the control of application developers. Learn more in [Managing CAPTCHA and risk providers](#).

PingFederate also now provides an SDK that allows for integrations with custom CAPTCHA providers, which adds great flexibility to the CAPTCHA feature.

## ***Improved cluster replication notification***

New

Instead of showing an active bell icon, the administrative console now displays a banner

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des a link to the **Cluster** management.

### ***claims parameter***

nID Connect client and let sing their PingOne credentials. includes the claims parameter. You can t, leveraging any authorization server simpler, seamless login flow. See cation.

### ***party-initiated login***



**New**

You can configure PingFederate to accept incoming parameters, such as `iss`, that are processed and included in an outgoing authorization request if configured to do so. This feature lets administrators sign on to PingFederate from PingOne. This feature also supports other OpenID Connect authorization servers that support incoming parameters. See Request Parameters in Enabling OIDC-based authentication.

### ***PingOne DaVinci integration kit***

**New**

The PingFederate distribution now includes the PingOne DaVinci integration kit. See PingOne DaVinci Adapter in Bundled adapters and authenticators.

### ***Amazon DynamoDB and persistent authentication sessions***

**New**

PingFederate can now manage persistent user sessions in AWS DynamoDB. Persistent user sessions keep sessions active even after a restart of PingFederate. This feature reduces the interruption of user journeys. See *Configuring an Amazon DynamoDB for persistent*

*sistent authentication sessions.*

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processed in an earlier step can be enhanced the management and cation policies.

### ***re information***

interface now include more details, iness and responsiveness.

## *Updated the bundled PingOne MFA Adapter*

Improved

Updated the bundled PingOne MFA Adapter to the newest version, 2.0. See PingOne MFA Adapter in Bundled adapters and authenticators.

## *Toggle log verbosity with ease*

New

Gone are the days you had to edit the `log4j2.xml` file on multiple servers to enable or disable DEBUG messages in their server logs. Now you can toggle log settings in the administrative console or with the administrative API.

PingFederate provides a set of message categories, each targeting a specific scenario. For example, the **XML Signatures** category helps you troubleshoot XML signature issues. You can also add your own categories to suit your unique requirements.

## *Timestamps for clients and connections*

New

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the sign-on (SSO)/security token service creation or creation time. The timestamps relationship between clients and

andHSM, now you can choose between

OAuth rich authorization requests (RAR) provide a standard way for OAuth client applications to specify fine-grained authorization requirements in their requests. For example, when initiating a money transfer, a personal banking application can pass all relevant information to the authorization server via the new parameter `authorization_details`. The authorization server supporting RAR processes the `authorization_details` parameter value accordingly and ultimately returns tokens to the application if the process completes successfully.

RAR is on track to become a requirement in Financial-grade API (FAPI) 2.0. With this new capability, you can confidently build your open banking solutions with PingFederate.

## *Other enhancements*

New

Now you can optionally define a sender name for each SMTP notification publisher instance.

PingFederate now supports XML Encryption 1.1.

## Resolved issues

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ow sorts values alphabetically and in

file to prevent misconfigurations that  
earn more in Log4j 2 logging service

### *L error responses*

Fixed

PF-30514

We've added a configuration option to control whether SAML error responses include `Cause`. The new setting is `IncludeErrorCauseInSamlResponse` in `config-store/org.sourceid.saml20.protocol.StatusResponseTypeUtil.xml`. The default value is `true`.

### *Improved SP STS message customization*

Fixed

PF-31149

The `#HttpServletRequest` and `#HttpServletResponse` variables are now available in SP STS message customization. Learn more in [Message types and available variables](#).

### *Connections with multiple protocol types*

Fixed

PF-31531

We've resolved an issue where connections with multiple protocol types would only filter on a single protocol type.

### *OpenID Connect (OIDC) for administrative console authentication*

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ation, PingFederate no longer throws  
entication method and the

ia

when refresh tokens should be  
ling refresh tokens read the incorrect  
criteria. Learn more in [Configuring](#)

## *Store clients with special characters*

Fixed

PF-31786

When adding clients to Active Directory (AD) or other LDAP stores, PingFederate now automatically escapes reserved characters from clientIDs.

## *Improved detection around invalid Group DN*

Fixed

PF-31791

We've improved detection around invalid Group distinguished names (DN) and added exceptions in the provisioner log. For more information on Group DN, see [Specifying a source location](#).

## *Updates to the SameSite=None header attribute supported browsers list*

Fixed

PF-31806

We've updated the supported browsers list for the `SameSite=None` header attribute to filter out problematic clients with the `SameSite` cookie attribute bug: Safari version 12 and Embedded Apple Webkit Browser Safari 12 on macOS.

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expired user sessions on timeout and action.

before fragment processing.

Fixed

PF-31870

Resolved an issue where bulk import fails for identity provider (IdP) connections that fulfill Persistent Grant Extended Attributes.

### *Template double-submission*

Fixed

PF-31957

PingFederate templates no longer allow double-submission.

### *Connection failures on external LDAP authentication login*

Fixed

PF-32001

PingFederate now recovers from initial connection failure when logging into the administrative console using external LDAP authentication.

### *Hiding user information from authentication API responses*

Fixed

PF-32028

When using the `AuthenticationResponse` setting in the `<install`

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`authnApiManagerImpl.xml` file to  
ses.

#### *Handle failures locally*

s and configured to handle failures  
service provider (SP) error page on

We've resolved an issue around password requirements messaging during password management.

### *Updated description text on Import Connections page*

Fixed

PF-32088

We've updated the description text on the import IdP/SP connection page to indicate that PingFederate only performs minimal validation for imported connections. We suggest using the administrative API for connection migration, which performs thorough validation.

### *OTL for password reset expiry or reuse error reporting*

Fixed

PF-32090

In the case where a one-time link (OTL) for password reset expires or is reused, PingFederate now responds with the appropriate error message in the authentication API and logs the error response in the `audit.log`. Learn more about OTL for password reset in [Configuring self-service account recovery](#).

### *Duplicate scope and scope group name values*

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group names to be the same when  
in Scopes and scope management.

tion

oupName , resolving a warning that

On sign-on pages, we've improved the accessibility of the 'Change Password' link, regardless of browser window size.

### ***Notification publisher accessor added to SDK***

**Fixed**

PF-32345

We've added a notification publisher accessor to the SDK, addressing an error where plugins utilizing a notification publisher could not invoke one of the notification publishers configured in PingFederate.

### ***Fragment processing now independent of policy processing***

**Fixed**

PF-32461

PingFederate now processes policy fragments independently from policies and other fragments.

### ***LIP registration via a third-party service and the authentication API***

**Fixed**

PF-32574

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(P) registration via a third-party  
a password, despite previously

### ***Integrated RADIUS server***

2 contain version 3.0.2 of the PingID  
e PCV has known issues that you  
n, see Known issues in PingID RADIUS

### ***Administrative console and administrative API***



- /bulk: Only resource types currently supported by the administrative API are included in the exported data. We don't intend to introduce administrative API support to the following areas:
  - SAML 2.0 IdP Discovery
  - SAML 2.0 SP Affiliation
  - SMS Provider
- Previously, the administrative API did not accurately reflect a **Persistent Grant Max Lifetime** setting of 29 days (or shorter) with the selection of the **Grants Do Not Timeout Due To Inactivity** option. As a result, if you have configured such OAuth authorization server settings and have generated a bulk export in version 10.0 through 10.0.2, we recommend that you re-generate a new bulk export after upgrading to version 10.0.3 (or a more recent version). The newly exported data does not contain the aforementioned flaw, and you can safely import it to version 10.0.3 (or a more recent version).
- When enabling mutual TLS certificate-based authentication, administrators often configure a list of acceptable client certificate issuers. When you use a browser to access the console or the administrative API documentation, PingFederate returns to

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of the TLS handshake. If the browser's certificates, the browser often presents one of the acceptable issuers. However, Chrome presents you all its certificates, even if the issuer matches one of the acceptable issuers.

the administrative API, you must replace the available attributes with the appropriate request fails.

erarchical plugin, the administrative  
name/value pair (or without such  
value of `true`, and returns a 200  
d for the ignored objects.

For example, the **Back** button) causes the browser to go back to the previous page. Use the navigation buttons

provided at the bottom of windows in the PingFederate console.

- Using the PingFederate console in multiple tabs on one browser might cause inconsistent behavior which could corrupt its configuration.
- If authenticated to the PingFederate administrative console using certificate authentication, a session that has timed out might not appear to behave as expected. Normally (when using password authentication), when a session has timed out and a user attempts some action in the console, the browser is redirected to the sign-on page, and then back to the administrative console after authentication is complete. Similar behavior applies for certificate authentication, in principle. However, because the browser might automatically resubmit the certificate for authentication, the browser might redirect to the administrative console and not the sign on page.

## TLSv1.3

### Issue

For Java versions that don't support TLSv1.3 (meaning versions earlier than 8u261), PingFederate fails on start up with a `NoSuchAlgorithmException` exception. To resolve this error, remove `TLSv1.3` from the following settings in the `run.properties` file:

- `pf.tls.client.protocols`

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modifying  
r a similarly-named file if BCFIPS or a  
updating the file and replicating, all  
e effect.

- As of PingFederate 11.1, BC-FIPS and HSMs are not supported when using Java 17.
- Updating Java version 8 to version 11 results in an error when PingFederate is already installed and running. To work around this issue, uninstall and reinstall the PingFederate Windows service by running the `UninstallPingFederateService.bat` and `InstallPingFederateService.bat` files located in `<pf_install>/pingfederate/sbin/wrapper`.

## Hardware security modules (HSMs)

### Issue

#### AWS CloudHSM

- It is not possible to use an elliptic curve (EC) certificate as an SSL server certificate.
- TLS 1.3 is not currently supported.

#### Thales HSMs

- JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored on the HSM, and PingFederate is consuming a token encrypted with this key.

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... as an SSL server certificate.

... Java Runtime Environment (JRE) 8

... EP may fail. This issue only arises if ... OpenID Connect keys, a static key is ... g a token encrypted with this key.

... fail when the decryption key is stored

... icate as an SSL server certificate.

## SSO and SLO

### Issue

- When consuming SAML metadata, PingFederate does not report an error when neither the `validUntil` nor the `cacheDuration` attribute is included in the metadata. Note that PingFederate does reject expired SAML metadata as indicated by the `validUntil` attribute value, if it is provided.
- The anchored-certificate trust model cannot be used with the Single log off (SLO) redirect binding because the certificate cannot be included with the logout request.
- If an IdP connection is configured for multiple virtual server IDs, PingFederate will always use the default virtual server ID for IdP Discovery during an SP-initiated SSO event.

## Composite Adapter configuration

### Issue

SLO is not supported when users are authenticated through a Composite Adapter instance that contains another instance of the Composite Adapter.

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user accounts without the permission

g convention for OAuth client ID  
rver. For example, after creating a  
e does not allow the creation of

Although it's possible to create clients using the same ID values with different casings when client records are stored in XML files, a database server, or custom storage, we recommend not doing so to avoid potential record migration issues.

## *Customer identity and access management*

### Issue

Some browsers display a date-picker user interface for fields that have been designed for date-specific inputs. Some browsers do not. If one or more date-specific fields are defined on the registration page or the profile management page (or both), end users must enter the dates manually if their browsers do not display a date-picker user interface for those fields.

## *Provisioning*

### Issue

- LDAP referrals return an error and cause provisioning to fail if the **user** or **group** objects are defined at the DC level, and not within an OU or within the Users CN.
- The **totalResults** value in SCIM responses indicates the number of results returned

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...ing in an IdP adapter or IdP  
... OAuth's persistent grant **USER\_KEY**  
...ked in the server logs. Other

...masking in an IdP adapter and the  
...e user key, the user key attribute is

## Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant `USER_KEY` attribute, the `USER_KEY` attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## ***RADIUS NAS-IP-Address***

## Issue

The RADIUS NAS-IP-Address is only included in Access-Request packets when the `pf.bind.engine.address` is set with an IPv4 address. IPv6 is not supported.

## ***PingOne Fraud integration kit***

## Info

## PingOne Fraud

The PingOne Fraud integration kit is no longer bundled with PingFederate.

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for administrators and users. As we to migrate off of Microsoft Internet Explorer 11 is no longer included in or users. For a list of supported

***Service, SSO Directory Service***

[Info](#)

As of PingFederate 10.2, these features have been deprecated and will be removed in a future release.

## ***Oracle Directory Server Enterprise Edition***

[Info](#)

As Oracle ended its Premier Support for Oracle Directory Server Enterprise Edition (ODSEE 11g) in December 2019, we no longer include ODSEE as part of the PingFederate qualification process (starting with PingFederate 10.2). We continue to qualify against Oracle Unified Directory [↗](#) and other supported directory servers. For a full list, see [System requirements](#).

## ***SNMP***

[Info](#)

Starting with PingFederate 10.2, monitoring and reporting through the Simple Network Management Protocol (SNMP) has been removed.

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[Info](#)

are always enabled and no longer  
API.

y protocol has been deprecated.  
lead use NATIVE\_S3\_PING.

Starting with PingFederate 10.0, the Red Hat Enterprise Linux install script is no longer available. To install PingFederate 10.0 for Linux, you must download and extract the product distribution `.zip` file.

## PingFederate 11.1.11 (January 2025)

---

### Resolved issues

#### *Eliminating redundant group updates*

Fixed

PF-33441

We've fixed a defect that caused PingFederate, when configured with PingDirectory as an outbound provisioning data source, to send redundant group updates in each provisioning cycle when the entry remains unchanged.

#### *Provisioner uses the wrong time zone when data source and PingFederate are in different time zones*

Fixed

PF-35286

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Provisioner updates when the data source

user group membership information  
provisioning operations.

## 24)

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## ***Rest datastore security vulnerability***

**Security**

PF-34720

Fixed a JSON injection vulnerability in REST datastores described in security advisory SECADV044.

## ***Runtime nodes security vulnerability***

**Security**

PF-34896

Fixed a path traversal vulnerability in Runtime nodes described in security advisory SECADV044.

## ***OpenID Connect policy management editor security vulnerability***

**Security**

PF-35081

Fixed a Cross-Site Scripting vulnerability in the OpenID Connect Policy Management Editor described in security advisory SECADV044.

## ***Slow log consumption affects performance***

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gFederate when third-party logging

er 30)

ement

You can now turn off server-side sorting for LDAP requests related to outbound provisioning, which can improve performance in some environments.

Configure this option using the `ProvisionWithServerSort` parameter in the `com.pingidentity.common.util.ldap.LDAPUtil.xml` file.

### *Updating OAuth clients with dynamic client registration*

**Fixed**

PF-34146

Fixed a defect where an OAuth client created with dynamic client registration (DCR) couldn't be updated with DCR after it was modified with the administrative console.

### *Resolved a vulnerability in the Initial Setup Wizard*

**Security**

PF-34646

Fixed a Server-Side Request Forgery vulnerability in the Initial Setup Wizard described in security advisory SECADV041.

## PingFederate 11.1.8 (August 2023)

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described in security advisory

*using PingOne LDAP gateway*

Now when PingFederate retrieves a binary attribute from a PingOne LDAP gateway datastore, it correctly converts the attribute value to the specified format (base64, SID, hex).

### *Potential security vulnerability*

**Fixed**

PF-34017

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

## PingFederate 11.1.7 (May 2023)

---

### Resolved issues

#### *Logging validation*

**Fixed**

PF-32764

We've improved logging validation.

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*flow*

ource Owner (RO) Password

ger throws a Null Pointer Exception

2023)

## Resolved issues

### *Log improvements*

**Fixed**

PF-33017

In order to reduce re-encryption and file scanning log verbosity, when a configuration is imported or replicated to a cluster, PingFederate no longer scans files in the `etc` directory.

### *Other improvements*

**Info**

- We also updated the following bundled components and third-party dependencies:
  - PingID Integration Kit 2.24
  - PingID Adapter 2.13.2
  - PingID PCV (with integrated RADIUS server) 3.0.3

## PingFederate 11.1.5 (February 2023)

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`te-json` attribute is not present in the log every time a user interacts with the attribute to adhere to PingDirectory's version 8.1 and later supports this attribute. We encourage you to upgrade to a supported version.

## 2023)

## Resolved issues

### *OAuth client management*

Fixed

PF-32790

When managing OAuth clients, we've resolved a defect where selecting the **Require JWT Secured Authorization Response Mode** text toggled the incorrect checkbox.

### *Potential security vulnerability*

Fixed

PF-32805

We've resolved a potential security vulnerability that is described in security advisory SECADV033.

### *Informing adapters of end policy result*

Fixed

PF-32890

When processing policy fragments, all adapters invoked in the fragment now correctly execute their respective post-processing step (if applicable) to inform the adapter of the

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rt

w no longer displays or saves an  
he process. For more information,

could remove keys from engine  
ne keys.

# PingFederate 11.1.3 (December 2022)

---

## Resolved issues

### *Improvements to custom revocation checker*

Fixed

PF-32395

We've improved PingFederate's custom revocation checker, ensuring that when the server returns stapled Online Certificate Status Protocol (OCSP) responses, PingFederate invokes the checker. Previously, PingFederate used the default revocation checker to validate these responses, which could cause single sign-on (SSO) failures with BCFIPS mode enabled. For more information, see [Configuring certificate revocation](#).

### *Cluster replication notifications*

Fixed

PF-32398

We've improved notifications to signal to administrators that in the event of a replication failure or any changes to cluster configuration require replication. For more information, see [Cluster management](#).

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### *Error detection*

NL expressions in adapter-to-adapter E).

dering for the Thales Luna Network where temporary keys and sessions resource exhaustion. A limitation of

the new ordering is that EC certificates can no longer operate as SSL server certificates. For details on the new order, see [Integrating with Thales Luna Network HSM](#).

## PingFederate 11.1.2 (October 2022)

### Resolved issues

#### *Bulk import for IdP connections*

Fixed

PF-31870

Resolved an issue where bulk import fails for identity provider (IdP) connections that fulfill Persistent Grant Extended Attributes.

#### *Connection failures on external LDAP authentication login*

Fixed

PF-32001

PingFederate now recovers from initial connection failure when logging into the administrative console using external LDAP authentication.

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### API responses

`InResponses` in the `<install`

`uthnApiManagerImpl.xml` file to  
ses.

### Handle failures locally

s and configured to handle failures  
service provider (SP) error page on

## *Outbound TLS connection failures*

Fixed

PF-32199

The certificate path-building algorithm now uses PingFederate's custom revocation checker. This fix resolves a bug where outbound TLS connections failed for servers that presented out-of-order certificate chains.

## *PingDirectory user registration*

Fixed

PF-32241

During user registration, PingFederate now sends all passwords to PingDirectory, resolving an issue where passwords consisting of only spaces would not properly register a PingDirectory password.

## *Configurations with no connection type in Kerberos realm*

Fixed

PF-32274

When reading the `pingfederate-kerberos-realms.xml` file, PingFederate no longer raises an error for configurations with no connection type in the Kerberos realm.

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When using PingDirectory as a user

Contracts



Issuance criteria in authentication policy contracts no longer cause the logs to indicate invalid XML errors. This issue did not cause runtime errors.

### ***HTTP header for client IP addresses***

Fixed

PF-31735

Resolved an issue that sometimes occurred when IPV6 addresses were specified in the **HTTP Header for Client IP Addresses** field on the **Incoming Proxy Settings** window.

### ***Error descriptions***

Fixed

PF-31753

PingFederate error descriptions no longer disclose details of java classes.

### ***MasterKeyEncryptor failure during cluster replication***

Fixed

PF-31795

When PingFederate is using a custom MasterKeyEncryptor that relies on an SSL call to an external service, cluster replication no longer causes cascading failures because

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## ***Client management service***

management service, PingFederate

## ***se\_mode=pi.flow***

ion request with  
ount recovery flows using an

## *Administrative API enhancement*

Info

Improved the administrative API to manage the System for Cross-domain Identity Management (SCIM) inbound provisioning settings in identity provider (IdP) connections.

## *Message customization enhancement*

Info

Enhanced PingFederate message customization by adding the following FedHub-specific context variables:

- `FedHubSpConnApplicationName`
- `FedHubSpConnName`
- `FedHubOAuthClientId`
- `FedHubOAuthClientName`

## *Cluster management enhancement*

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more obvious when changes to the  
en replicated to the engine nodes.

We've added Kerberos authentication via PingOne and the PingOne LDAP Gateway Data Store. This new capability allows PingFederate in the cloud, without a direct connection to Active Directory, to complete Kerberos authentication for browser-based SSO requests and STS transactions through PingOne.

## *JWT Secured Authorization Response Mode (JARM)*

New

We're proud to support JWT Secured Authorization Response Mode [↗](#) (JARM) in version 11.1. JARM allows authorization servers to transmit authorization responses in JSON web tokens (JWTs), providing digital signature and encryption, sender authentication, and audience restriction. As JARM becomes a requirement in FAPI 2, you can deploy open banking solutions confidently.

## *JWT Response for OAuth Token Introspection*

New

We're also introducing support for JWT Response for OAuth Token Introspection [↗](#), a draft specification on track to become one of the authorization server requirements in the FAPI 2 Advanced Profile. IWT-secured introspection responses provide stronger assurance to the

consumer, such as a resource server, or an authorization server.

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time coordination between development teams. You can now set a configurable period, during which you can rotate secrets in their apps. This applies to applications that use client secrets for "Secret Retention Period" in the topic

## *API support for Device Authorization Grant*

**New**

In addition to template-driven user experience, the user authorization step from Device Authorization Grant supports API now. You can also decide whether PingFederate should check the device activation code before or after authentication. These new capabilities enable you to build applications with the desired user experience for input-constrained devices, such as smart TVs or telepresence equipment.

### *Amazon DynamoDB for grants*

**New**

You can store OAuth persistent grants in Amazon DynamoDB, which allows you to take advantage of a NoSQL database where it matters most: delivering responsive experiences to globally distributed users and offering high availability at ease.

### *Revocation of self-contained access tokens*

**New**

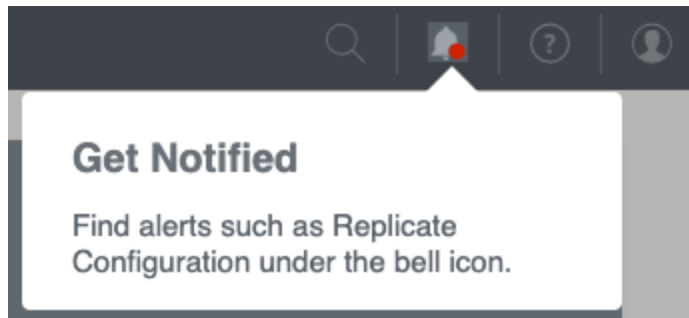
You can optionally enable direct revocation for self-contained access tokens (JWT access tokens). This flexibility provides a secure way to invalidate access tokens without revoking

For more information, see [Configuring Revocation of the \*\*Enable Token\*\*](#)

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Under to replicate configuration, under Important alerts from any configuration



## *Copy-and-paste authentication policies and fragments*

New

Previously, if you wanted to update an authentication policy or a reusable policy fragment midstream, they had to reconfigure all downstream paths, which can take some effort. With PingFederate 11.1, you can copy a subtree of policy paths before removing a step (such as an IdP adapter), adding a new step (such as a selector or another IdP adapter), and then pasting the subtree back to the policy. This new capability applies to reusable policy fragments and between authentication policies and reusable policy fragments.

## *Administrative API to move individual policies*

New

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ual policy to a specific location. This  
uests easier and safer.

figuration replication issues in their  
sole node. The **Cluster**  
u select **Replicate Configuration** in  
you can act on it immediately and

You can now associate authentication sessions with user identities passed through the new Passthrough Identity Provider (IdP) Adapter. By placing the Passthrough IdP Adapter downstream from an IdP connection in a policy tree, you can take advantage of additional capabilities associated with defining a user key. For example, you can use the user key to query or revoke a user's authentication sessions.

## *Kerberos authentication and ObjectSID*

New

The Kerberos Adapter and the Kerberos Token Processor now return the `ObjectSID` attribute value. Because `ObjectSID` uniquely identifies the user in Active Directory, leveraging it helps streamline the **Attribute Source & Lookup** configuration.

## *Kerberos authentication and re-authentication*

New

You can configure the Kerberos Adapter to fail when the service provider asks for re-authentication by including `ForceAuthn=true` (SAML 2.0) or `prompt=login` (OpenID Connect) in their authentication requests. For example, suppose user interactions are required when the partners ask for re-authentication. In that case, you can add the HTML adapter.

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policies to handle authentication providers or returning error messages scenario where an IdP-oriented end-

ance criteria in error responses. is as needed. If the invoked policy is the same to improve the end-user

- You can now optionally configure the HTML Form Adapter not to return control to PingFederate when an account lockout occurs. Instead, PingFederate returns a “please try again later” message to the browser or the authentication API application.

## *Extended properties for end-user interactions*

New

You can now leverage extended properties in Velocity templates when customizing template-driven end-user interactions. You can reference extended properties in the templates instead of creating multiple `If / ElseIf / Else` directives, significantly reducing the initial effort. New and updated experiences can be inherited from extended property values from the OAuth client records and Browser SSO connections, eliminating most of the maintenance costs. PingFederate also passes extended property values to authentication API applications. As a result, application developers who create and maintain end-user UX for customer identities will benefit from this new enhancement.

## *Better documentation in Velocity templates*

New

We've also improved inline documentation in our Velocity templates. Moving forward, we consistently to communicate changes,

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integrating with Thales Luna Cloud  
work HSMs. For more information  
M Service Client Guide [↗](#) and Luna

You can now add a secondary signing certificate to your connections. If configured, PingFederate includes it in both the metadata exports and the metadata URL responses. This flexibility allows you to notify your partners about upcoming changes more easily through metadata.

## *Administrative API improvements*

New

We improved the PingFederate administrative API to manage the following configurations:

- JIT provisioning settings in IdP connections
- **System > Data & Credential Stores > Identity Store Provisioners**
- **System > Server > General Settings**
- **System > Server > WS-Trust Settings**

## *Other improvements*

New

- We significantly improved our metrics exposed through HTTP (at the heartbeat

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se performance issues. Both channels response time statistics, and Jetty reshoot latency issues associated with

revocation status by default on new federate uses the OCSP responder URL now optional Default OCSP Responder ion process more efficient.

e when you attempt to import a version of PingFederate.

t service accounts, which increases itability.

tribution .zip file and Windows



- We also updated the following bundled components and third-party dependencies:
  - PingID Integration Kit 2.17
  - PingOne Fraud Integration Kit 1.0
  - PingOne Protect Integration Kit 1.2
  - Jackson-Databind 2.12.7
  - Log4j2 2.17.2
  - Spring Framework 5.3.20

## Resolved Issues

### *H2 database engine upgrade*

**Fixed**

PF-21198

Upgraded the H2 database engine to version 2.1.210.

### *A username in the URL during change password flows*

**Fixed**

PF-24501

change password flows.

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client that has the Client Certificate  
it have a normalized DN value, the  
to show the Issuer DN as the default

## *Time stamp for last update*

Fixed

PF-29761

When a user record in a datastore mistakenly has a future date for the last update time, PingFederate no longer uses that date as the value of `attrib_last_timestamp` in the `channel_variable` table. Instead, PingFederate sets the value to the maximum time stamp that is not in the future.

## *Number and Boolean data types in JSON responses from REST API data source lookups*

Fixed

PF-29835

The JSON response from REST API data source lookups now retains number and Boolean data types instead of converting them to strings.

## *NotYetConnectedException warning messages from JGroup in the server.log*

Fixed

PF-30075

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`Exception` warning message to  
/S\_PING for dynamic cluster

ed in the authority part of the URI, and  
contains userinfo in the authority part,  
ion URI a match.

Resolved a potential security vulnerability.

### ***Logging invalid assertion errors***

Fixed

PF-30495

In a specific case, when PingFederate logs an invalid assertion error, the error message no longer fails to include a remark about why the assertion or response is invalid.

### ***Null pointer exception in authentication API password reset flow***

Fixed

PF-30558

When an OAuth client is performing a password reset through the authentication API, if PingFederate does not find any session attributes, now PingFederate logs an error state instead of a null pointer exception.

### ***Determining authentication instants for flows***

Fixed

PF-30770

Resolved an issue that prevented PingFederate from correctly determining the

OIDC authorization request specifies a  
on source selection (policies are  
n upstream OIDC IdP connection.

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ne MFA 1.6.1.

### ***rs and generators***

ngFederate now correctly handles  
on the **Protocol Settings** window's

Federation Info tab.

## *Preserving the order of map type configurations*

Fixed

PF-31145

Now PingFederate preserves the order of map type configurations under `<pf_install>/pingfederate/server/default/data/config-store` when performing a bulk export or a GET operation at the `/configStore` administrative API endpoint.

## *Warning about using the administrative console in multiple tabs*

Fixed

PF-31280

Now if you use the PingFederate administrative console in multiple tabs on one browser, it warns you that doing so might cause inconsistent behavior which could corrupt its configuration.

## *Saving authorization server settings overwrites scope.whitelist*

Fixed

PF-31304

Resolved an issue that caused PingFederate to overwrite the `scope.whitelist` in the `\data\confid-store\ora.sourceid.oauth20.domain.AuthzServerManagerImpl.xml`

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log entries in the `admin.log`

### *request body size*

`testBodySize` in the HTTP request body size of any administrative API.

# Known issues and limitations

## *Administrative console and administrative API*

### Issue

- /bulk: Only resource types currently supported by the administrative API are included in the exported data. We don't intend to introduce administrative API support to the following areas:
  - SAML 2.0 IdP Discovery
  - SAML 2.0 SP Affiliation
  - SMS Provider
- Previously, the administrative API did not accurately reflect a **Persistent Grant Max Lifetime** setting of 29 days (or shorter) with the selection of the **Grants Do Not Timeout Due To Inactivity** option. As a result, if you have configured such OAuth authorization server settings and have generated a bulk export in version 10.0 through 10.0.2, we recommend that you re-generate a new bulk export after upgrading to version 10.0.3 (or a more recent version). The newly exported data does not contain the aforementioned flaw, and you can safely import it to version 10.0.3 (or a more

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entification, administrators often  
ers. When you use a browser to  
mentation, PingFederate returns to  
of the TLS handshake. If the browser's  
tificates, the browser often presents  
ie of the acceptable issuers. However,  
; Chrome presents you all its  
er the issuer matches one of the

ne administrative API, you must  
available attributes are replaced with  
ate request fails.

erarchical plugin, the administrative  
name/value pair (or without such

name/value pair altogether), ignores those with a value of `true`, and returns a 200 HTTP status code. No error messages are returned for the ignored objects.

- Using the browser's navigation mechanisms (for example, the **Back** button) causes inconsistent behavior in the administrative console. Use the navigation buttons provided at the bottom of windows in the PingFederate console.
- Using the PingFederate console in multiple tabs on one browser might cause inconsistent behavior which could corrupt its configuration.
- If authenticated to the PingFederate administrative console using certificate authentication, a session that has timed out might not appear to behave as expected. Normally (when using password authentication), when a session has timed out and a user attempts some action in the console, the browser is redirected to the sign-on page, and then back to the administrative console after authentication is complete. Similar behavior applies for certificate authentication, in principle. However, because the browser might automatically resubmit the certificate for authentication, the browser might redirect to the administrative console and not the sign on page.

## TLSv1.3

### Issue

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versions earlier than 8u261),  
`IllegalArgumentException` exception. To resolve  
gs in the `run.properties` file:

modifying  
r a similarly-named file if BCFIPS or a  
updating the file and replicating, all  
effect.

## Java

### Issue

- As of PingFederate 11.1, BC-FIPS and HSMs are not supported when using Java 17.
- Updating Java version 8 to version 11 results in an error when PingFederate is already installed and running. To work around this issue, uninstall and reinstall the PingFederate Windows service by running the `UninstallPingFederateService.bat` and `InstallPingFederateService.bat` files located in `<pf_install>/pingfederate/sbin/wrapper`.

## Hardware security modules (HSM)

### Issue

- For Entrust HSMs, it is not possible to use an elliptic curve (EC) certificate as an SSL server certificate.
- For Entrust HSMs, PingFederate must be deployed with Oracle Server JRE 8 or Amazon Corretto 8.
- For keys stored in AWS CloudHSMs, JWT token signing fails when using RSASSA-PSS

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tion fails when using RSAES OAEP  
arises if PingFederate is configured  
s consuming a token encrypted with

with a Thales HSM, it is not possible

with a Thales HSM, JWT token  
/ arises if PingFederate is configured  
tic key is stored locally, and  
h this key.

## Issue

- When consuming SAML metadata, PingFederate does not report an error when neither the `validUntil` nor the `cacheDuration` attribute is included in the metadata. Note that PingFederate does reject expired SAML metadata as indicated by the `validUntil` attribute value, if it is provided.
- The anchored-certificate trust model cannot be used with the Single log off (SLO) redirect binding because the certificate cannot be included with the logout request.
- If an IdP connection is configured for multiple virtual server IDs, PingFederate will always use the default virtual server ID for IdP Discovery during an SP-initiated SSO event.

## Composite Adapter configuration

## Issue

SLO is not supported when users are authenticated through a Composite Adapter instance that contains another instance of the Composite Adapter.

## Self-service password reset

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user accounts without the permission

g convention for OAuth client ID  
rver. For example, after creating a  
e does not allow the creation of

ID values with different casings when  
er, or custom storage, we recommend

not doing so to avoid potential record migration issues.



## Customer identity and access management

### Issue

Some browsers display a date-picker user interface for fields that have been designed for date-specific inputs. Some browsers do not. If one or more date-specific fields are defined on the registration page or the profile management page (or both), end users must enter the dates manually if their browsers do not display a date-picker user interface for those fields.

## Provisioning

### Issue

- LDAP referrals return an error and cause provisioning to fail if the **user** or **group** objects are defined at the DC level, and not within an OU or within the Users CN.
- The **totalResults** value in SCIM responses indicates the number of results returned in the current response, not the total number of estimated results on the LDAP server.

## Logging

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...ing in an IdP adapter or IdP  
... OAuth's persistent grant **USER\_KEY**  
...ked in the server logs. Other

...masking in an IdP adapter and the  
...e user key, the user key attribute is

...ing in an IdP adapter or IdP  
... OAuth's persistent grant **USER\_KEY**

attribute, the **USER\_KEY** attribute will not be masked in the server logs. Other persistent grant attributes will be masked.

- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## ***RADIUS NAS-IP-Address***

Issue

The RADIUS NAS-IP-Address is only included in Access-Request packets when the `pf.bind.engine.address` is set with an IPv4 address. IPv6 is not supported.

## **Deprecated features**

### ***Microsoft Internet Explorer 11***

Info

Ping Identity commits to deliver the best experience for administrators and users. As we continue to improve our products, we encourage you to migrate off of Microsoft Internet

Explorer 11 is no longer included in  
ors or users. For a list of supported

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### ***Service, SSO Directory Service***

recated and will be removed in a

ory Server Enterprise Edition (ODSEE

11g) in December 2019, we no longer include ODSEE as part of the PingFederate

qualification process (starting with PingFederate 10.2). We continue to qualify against Oracle Unified Directory [↗](#) and other supported directory servers. For a full list, see [System requirements](#).

## SNMP

Info

Starting with PingFederate 10.2, monitoring and reporting through the Simple Network Management Protocol (SNMP) has been removed.

## Roles and protocols

Info

Starting with PingFederate 10.1, roles and protocols are always enabled and no longer configurable through the administrative console and API.

## S3\_PING discovery protocol

Info

`S3_PING` protocol has been deprecated. Please use `NATIVE_S3_PING`.

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The Linux install script is no longer required. You must download and extract the

# 1024

## ***Rest datastore security vulnerability***

**Security**

PF-34720

Fixed a JSON injection vulnerability in REST datastores described in security advisory SECADV044.

## ***Runtime nodes security vulnerability***

**Security**

PF-34896

Fixed a path traversal vulnerability in Runtime nodes described in security advisory SECADV044.

## ***OpenID Connect policy management editor security vulnerability***

**Security**

PF-35081

Fixed a Cross-Site Scripting vulnerability in the OpenID Connect Policy Management Editor described in security advisory SECADV044.

## ***Slow log consumption affects performance***

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gFederate when third-party logging

er 2023)

e Initial Setup Wizard described in

# PingFederate 11.0.8 (August 2023)

---

## Resolved issues

### *Logging validation*

Fixed

PF-34017

We've improved logging validation.

### *Potential security vulnerability*

Fixed

PF-33449

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

### *Potential security vulnerability*

Fixed

PF-34017

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described in security advisory

## 2023)

---

`te-json` attribute is not present in  
in the log every time a user interacts  
attribute to adhere to PingDirectory's  
security configuration best practices. PingDirectory version 8.1 and later supports this

attribute, and customers running older versions are encouraged to upgrade to a supported version as soon as possible.

## PingFederate 11.0.6 (February 2023)

---

### Resolved issues

#### *Potential security vulnerability*

**Fixed**

PF-32805

We've resolved a potential security vulnerability that is described in security advisory SECADV033.

## PingFederate 11.0.5 (October 2022)

---

### Resolved issues

#### *IPv6 address issue*

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5 addresses were specified in the **Coming Proxy Settings** window.

ure when logging into the  
ation.

During user registration, PingFederate now sends all passwords to PingDirectory, resolving an issue where passwords consisting of only spaces would not properly register a PingDirectory password.

## PingFederate 11.0.4 (August 2022)

---

### Resolved issues

#### *MasterKeyEncryptor and cluster replication*

Fixed

PF-31795

When PingFederate uses a custom MasterKeyEncryptor that relies on an SSL call to an external service, cluster replication no longer causes cascading failures because PingFederate cannot open Java key store files.

#### *Rule matching for fragment nodes and NullPointerException*

Fixed

PF-31929

When using a custom rule, PingFederate no longer raises a

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te a zero byte archive when it  
te/server/default/data directory.

for OAuth and OpenID Connect,  
access token lifetime to be longer  
ified in

```
<pf_install>/pingfederate/server/default/data/config-store/jwks-endpoint-configuration.xml.
```

## PingFederate 11.0.3 (May 2022)

---

### Resolved issues

#### *Intermittent failure to respond after restart caused by LDAP SDK*

Fixed

PF30776

To resolve an issue in which PingFederate occasionally stopped responding after a restart, the UnboundID LDAP SDK for Java was updated to version 6.0.4.

#### *TLS 1.3 for outbound connections*

Fixed

PF-31303

PingFederate now supports TLS 1.3 for outbound connections when running on Java 8 versions 8u261 and newer.

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2022)



Updated the bundled PingOne MFA adapter to version 1.6.

## Resolved issues

### *LDAP connections*

Fixed

PF-30804

Resolved an issue that caused LDAP connections to periodically fail during provisioning.

### *Bulk export*

Fixed

PF-30863

Bulk export no longer fails to include all XML OAuth clients in the response payload.

### *Single sign-on from browsers on iOS*

Fixed

PF-31057

Resolved an issue that caused single sign-on from browsers on iOS to fail when an authentication policy terminates on Kerberos Adapter fallback that has an existing session.

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Administrative API successfully  
signatureAlgorithm field is not

connections when running on Java 8

## *Symantec VIP Adapter*

Fixed

PF-31123

Resolved an issue that prevented PingFederate from using the Symantec VIP Adapter.

## *LDAP-related performance*

Fixed

PF-31146

Resolved an LDAP-related performance issue.

## *Signature verification for certificate revocation lists*

Fixed

PF-31159

Resolved an issue where signature verification for certificate revocation lists could take more than 10 seconds on Windows. When LDAP-based authentication was enabled in the administrative console, this could prevent administrative users from signing on.

# PingFederate 11.0.1 (January 2022)

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It fails to get the new token, now  
ort period that you specify with the

Improved performance of the administrative console when a large number of OAuth clients are stored in LDAP or JDBC datastores.

### *URL region of the PingOne home button*



When configuring the URL of the PingOne home button in the PingFederate administrative console, now `pf.pingone.admin.url.region` in `run.properties` supports `Canada` as a region.

### *AWS CloudHSM client*



PingFederate can be successfully integrated with AWS CloudHSM client version 3.4.4.

## Resolved issues

### *Resolved a potential security vulnerability*



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described in security bulletin SECBL021.

Upgrade Log4j2 to version 2.17.1.

Prevent users from authenticating with expired passwords.

Fixed

PF-30637

Resolved an issue that caused certificate revocation list (CRL) checks to return " `issuer not found in trusted CAs store` " even though the issuer certificate is present.

## PingFederate 11.0 (December 2021)

---

New features and improvements in PingFederate 11.0.

### New features and enhancements

#### *PingOne LDAP Gateway datastore*

New

PingOne

PingFederate in the cloud can now connect to on-premise directory servers through the PingOne LDAP gateway. This new capability reduces the complexity of moving to the cloud, while maintaining connectivity to on-premise end-user data.

#### *PingOne unified admin integration*

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in from any configuration window in the new Home icon, enter the PingOne `config` file.

ys

on keys to encrypt sensitive  
ors and decrypt them later as  
to protect their configuration  
ed on the PingFederate SDK (the  
two enhancements in this area.

- Key rotation: Administrators or key-management processes can now insert a new configuration encryption key into the system with one click in the administrative console or a single administrative API request. Once rotated, PingFederate starts using this new encryption key when it needs to encrypt sensitive configuration data.
- Re-encryption of configuration data: Version 11 also comes with a new `configkeymgr` command-line utility. Administrators can optionally scan, review, re-encrypt, and delete older configuration encryption keys in their systems. Furthermore, administrators can now choose to re-encrypt sensitive information when importing an archive from a different environment; this is most useful when administrators do not want to share configuration encryption keys between the two environments.

## Secret Managers

New

The new Secret Managers support allows customers to store certain credentials, such as data store credentials, in external secret management systems and have PingFederate retrieve them as needed. It helps customers comply with internal IT policies or meet and exceed their industry standards. Version 11 integrates out-of-the-box with CyberArk Credential Provider. Customers can also develop custom solutions based on the PingFederate SDK (the `SecretManager` interface), to connect to other secret management

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al-grade API initiatives from the  
a certified implementation of various  
der Australia CDR and UK Open  
Deploy Open Banking solutions with  
invest in OAuth, OpenID Connect, and  
ID certifications, visit

**New**

When processing an OpenID Connect hybrid flow, in addition to issuing an ID token from the token endpoint, PingFederate may also return an ID token from the authorization endpoint, depending on the requested response type. Administrators now have the flexibility to separate these two ID token issuances and configure their fulfillment differently. These enhancements allow our customers to comply with the regulatory requirements and open standards set by the Australian CDR and FAPI specifications.

### ***Encrypted request objects***

**New**

PingFederate now supports encrypted request objects that OAuth clients send to its Authorization endpoint and the Pushed authorization requests endpoint. As needed, administrators can make encrypted request objects mandatory. This new capability further secures the confidentiality of authentication request parameters.

### ***Authorization server issuer identification***

**New**

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on draft specification [↗](#) intends to  
ntial threat to all OAuth clients  
ded, administrators can enable this

rocessing private key JWTs from  
r ( `iss` ) claim value matches the  
issuance criteria to enforce this

**ion**

**New**

PingFederate 11 can now take the request parameters from the SAML 2.0 SP or the OpenID Connect relying party (OIDC RP) into account when building its OIDC authentication request to the third-party OpenID Provider (OP). This capability allows administrators to selectively configure the values in the outbound OIDC authentication requests if their use cases or the third-party OPs have the need to gather more information from the originating SP or RP.

### ***Multi-valued attribute format***

**New**

Administrators can optionally indicate that PingFederate should always return an array for an attribute value regardless of whether the attribute contains one or multiple values. This flexibility simplifies the logic required to consume attribute values from access tokens or ID tokens.

### ***Streamlined initial setup experience***

**New**

We're pleased to introduce a brand new initial setup experience, where administrators can / making our rock-solid capabilities

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hout including other policies as part  
ntication policy through the  
l experience and eliminates the risk  
n policies.

Monitoring the status of the console node is now more straightforward with the addition of the `/pf/heartbeat.ping` heartbeat endpoint to the administrative port. Like its runtime counterpart, the administrative heartbeat endpoint is also capable of returning additional information. If administrators want detailed information in the responses, set the `pf.heartbeat.system.monitoring` property to `true` in the `run.properties` file.

## Datastore enhancements

New

- We expanded the REST API datastore with HTTP POST support. Administrators can connect to data repositories that prefer or require the HTTP POST method.
- Administrators can add attribute options in their LDAP directory searches. This enhancement expands what PingFederate can retrieve from the directory servers that support attribute options, PingDirectory being one of them.
- When configuring an LDAP search filter that uses one or more variables, an administrator can optionally specify default values for them, most useful in the scenarios where these variables may not contain any values at runtime.

## Migration of templates

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lates from the previous installation to  
er experience and branding, making it  
beyond.

### Settings

discovery settings to discover cluster  
file. Version 11 provides a new  
ties in the `bin` directory. This new  
r new installations, we recommend  
roperties file. While upgraded  
ery settings from the `tcp.xml` file,



we recommend performing a one-time migration to ease the upgrade experiences in the future.

### ***Email ownership verification by OTP***

New

For customer identities, in addition to email ownership verification by one-time link, administrators can now enable email ownership verification by one-time passcode (OTP). This new option offers a modern verification experience. It also helps customers who prefer not to send hyperlinks via email to their consumers.

### ***Request context to authentication API applications***

New

Administrators can optionally configure PingFederate to pass contextual information, such as the OAuth client ID or tracked HTTP parameters, from the sign-on requests to the authentication API applications. This allows developers to build applications that offer tailored experiences and satisfy branding requirements from their organizations based on contextual information from the sign-on requests.

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on remains functional for service passwords after updating the in PingFederate. This optional entities are no longer required to e via Kerberos.

### ***ent API responses***

and User-Agent information in its ore about their users and provide

suitable offerings based on this new insight.

## Security enhancements

New

- PingFederate now supports Amazon EC2 Instance Metadata Service version 2 (IMDSv2) when AWS\_PING is the chosen dynamic discovery method. No PingFederate configuration changes are required, and IMDSv1 remains supported.
- PingFederate now records administrative timed-out events in the administrator audit log ( `admin.log` ).
- The **Change Password** and **Password Reset** end user-facing pages now time out after 30 minutes. This is the new default behavior for new and upgraded installations. As needed, administrators can configure a different **Password Update Timeout** value per HTML Form Adapter instance to suit the needs of their organizations.

## Other improvements

New

- PingFederate now includes HTTP/2 support for inbound requests for better

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rate to mask values obtained from  
: `MaskTrackedParams` setting in the  
`MaskedHttpParamManagerImpl.xml`

en grant type independently on a per-  
on is enabled in any Access Token

rate to redirect end-users back to the  
on-to-expire password as part of their

r **Grant Types** authorization server

- PingFederate now supports RSAES OAEP using SHA-256 and MGF1 with SHA-256 (RSA-OAEP-256) when minting outbound ID tokens or processing inbound encrypted request objects
- Administrators can optionally restrict access to the redirectless mode per authentication API application. Additionally, administrators can further limit each application to an OAuth client to improve security around the redirectless mode of the authentication API.
- We upgraded the framework of our administrative API documentation to Swagger 2.0.
- PingFederate now preserves line breaks and indentations of OGNL expressions.
- The following templates now share the following Velocity template variables, which makes branding end-user experiences easier.

| Templates                                                                                                                                                                                                         | Variables                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"><li>◦ <code>identifier.first.template.html</code></li><li>◦ <code>html.form.login.challenge.template.html</code></li><li>◦ <code>html.form.login.template.html</code></li></ul> | <ul style="list-style-type: none"><li>◦ <code>\$client_id</code> - The ID of the OAuth client used by the request</li><li>◦ <code>\$entityId</code> - The entity ID of the SP connection used by the request</li><li>◦ <code>\$connectionName</code> - The name of the SP connection used by the request</li><li>◦ <code>\$baseUrl</code> - The base URL of PingFederate instance</li><li>◦ <code>\$adapterId</code> - The IdP adapter ID used by the request</li><li>◦ <code>\$spAdapterId</code> - The SP adapter ID used by the request</li></ul> |

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third-party dependencies:

- Log4j 2.16.0
- PingFederate Agentless Integration Kit 2.0.4
- PingID Integration Kit 2.15.0
- PingOne Integration Kit 2.4.1
- Spring Framework 5.3.5

## Resolved issues

### *Cluster dynamic OAuth/OpenID Connect keys*

Fixed

PF-20709

Resolved an issue that sometimes caused a cluster's dynamic OAuth/OpenID Connect keys to fail to synchronize when a node restarts.

### *Provisioning*

Fixed

PF-27519

Resolved an issue that prevented a PingFederate provisioner from using a group of GUIDs

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`response-header-runtime-`**ses**

OAuth clients from Oracle databases.

Fixed

PF-29189

Unnecessary dependency error banners no longer appear in the administrative console when you use the administrative API to modify selectors or service provider adapters.

### ***Localizing end user messages from the authentication API***

Fixed

PF-29202

Now you can localize end user messages from the authentication API for registration failure scenarios.

### ***Device authorization flow using IdP connection OAuth attribute mapping***

Fixed

PF-29294

Resolved an issue that stopped PingFederate from completing a device authorization flow when using IdP connection OAuth attribute mapping.

### ***Multiple Sign-On Delay template redirects***

Fixed

PF-29318

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Sign-On Delay template now

***lled without a key and unable***

crypt an assertion using the primary  
ge at the WARN level instead of the  
without a key and unable to

Resolved a potential security vulnerability caused by web server URI mishandling.

### *Response headers for /pf-ws and /pf-scim endpoints*

**Fixed**

PF-29392

Introduced the ability to add response headers to the `/pf-ws` and `/pf-scim` endpoints.

### *Upgrade utility*

**Fixed**

PF-29470

Fixed the upgrade utility so that, in non-interactive mode, it retains cipher related settings that are different from the default settings in the source version. PingFederate changes to new default settings on upgrade only if the settings have not been changed from the defaults in the source install.

### *Custom template specified for the HTML Form Adapter*

**Fixed**

PF-29509

Resolved an issue that caused PingFederate to render the default `forgot-password-` specified in the **Password Reset**

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#### **h 2.0 Token Exchange**

atches for resource URIs with OAuth

"Unable to find a token

source lookup but do not use the

attribute anywhere, such as for contract mapping or issuance criteria, the attribute persists

in the administrative console and API.

## Microsoft Active Directory LDIF script for persistent grant storage

Fixed

PF-29847

The Microsoft Active Directory LDIF script for persistent grant storage now creates an index for the `accessGrantGuid` attribute.

## Notification publisher

Fixed

PF-29870

Resolved the following notification publisher issues:

- When the SMTP server queues a message but has not sent it yet, the log now indicates that the message was queued, not that it was sent.
- PingFederate now respects the **Connection Timeout** setting for the notification publisher's SMTP server.
- Deprecated the **Retry Attempt** and **Retry Delay** fields for the notification publisher's SMTP server and removed them from the administrative console. PingFederate can still handle API configurations with these fields but they do nothing.

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`:// or https://`

or `https://` are also available for

**Method**

instead of `500 Internal Server`  
support method. For example, calling  
returns `400 Bad Request`.

## *Custom IDP adapters that use the class for filterable dropdown controls*

Fixed

PF-30232

The administrative console no longer shows an error message when you try to create an instance of a custom IDP adapter that uses the class for filterable dropdown controls, `ConnectionSelectionFieldDescriptor`.

## *Memory usage during certificate revocation list (CRL) parsing*

Fixed

PF-30272

Reduced memory usage during certificate revocation list (CRL) parsing, which speeds up CRL retrieval and avoids memory exhaustion in the case of very large CRLs.

## Known issues and limitations

### *Administrative console and administrative API*

Issue

- `/api/connections`: For identity provider (IdP) connections, the administrative API

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-Trust STS, and OAuth Assertion  
IdP connection using the  
provisioning settings previously

the administrative API are included  
and include:

connections

ely reflect a **Persistent Grant Max**  
election of the **Grants Do Not**  
you have configured such OAuth  
a bulk export in version 10.0 through



10.0.2, we recommend that you re-generate a new bulk export after upgrading to version 10.0.3 (or a more recent version). The newly exported data does not contain the aforementioned flaw, and you can safely import it to version 10.0.3 (or a more recent version).

- When enabling mutual TLS certificate-based authentication, administrators often configure a list of acceptable client certificate issuers. When an administrator uses a browser to access the console or the administrative API documentation, PingFederate returns to the browser the list of acceptable issuers as part of the TLS handshake. If the browser's client certificate store contains multiple client certificates, the browser often presents to the user only the certificates whose issuer matches one of the acceptable issuers. However, when PingFederate runs in a Java 11 environment, Chrome presents to the administrator all its configured client certificates, regardless of whether the issuer matches one of the acceptable issuers or not.
- Prior to toggling the status of a connection with the administrative API, an administrator must ensure that any expired certificates or no longer available attributes are replaced with valid certificates or attributes; otherwise, the update request fails.
- When creating or updating a child instance of a hierarchical plugin, the administrative API retains objects with an `"inherited": false` name/value pair (or without such name/value pair altogether). ignores those with a value of `true`, and returns a 200

d for the ignored objects.

For example, the **Back** button) causes the browser to reload the page. Use the navigation buttons to return to the PingFederate console.

In some cases, a browser might cause a configuration error.

When you use the console using certificate authentication, the browser might not appear to behave as expected. For example, when a session has timed out and a browser is redirected to the login page, the authentication is complete. Similar principle. However, because the browser is not the login page, the browser is not the login page.

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## TLSv1.3

### Issue

For Java versions that don't support TLSv1.3 (meaning versions earlier than 8u261), PingFederate fails on start up with a `NoSuchAlgorithmException` exception. To resolve this error, remove `TLSv1.3` from the following settings in the `run.properties` file:

- `pf.tls.client.protocols`
- `pf.tls.runtime.server.protocols`
- `pf.tls.admin.server.protocols`

## TLS cipher suite customization

### Issue

PingFederate's TLS cipher suites can be customized by modifying `com.pingidentity.crypto.SunJCEManager.xml` (or a similarly-named file if BCFIPS or a hardware security module (HSM) is configured). After updating the file and replicating, all cluster nodes must be restarted for the change to take effect.

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or when PingFederate is already  
stall and reinstall the PingFederate  
`rateService.bat` and

e must be deployed with Oracle

- For Entrust HSMs, it is not possible to use an elliptic curve (EC) certificate as an SSL server certificate.
- For keys stored in Thales HSMs, JWT token decryption fails when using RSAES OAEP with AES-CBC-192 or AES-CBC-256. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys and is consuming a token encrypted with one of these keys.
- When PingFederate is configured in hybrid mode with a Thales HSM, it is not possible to export a locally-stored EC key pair.
- When PingFederate is configured in hybrid mode with a Thales HSM, JWT token decryption using ECDH-ES may fail. This issue only arises if PingFederate is configured with static OAuth and OpenID Connect keys, a static key is stored locally, and PingFederate is consuming a token encrypted with this key.
- TLS 1.3 is not currently supported with any HSM.

## SSO and SLO

### Issue

- When consuming SAML metadata, PingFederate does not report an error when neither the `validUntil` nor the `cacheDuration` attribute is included in the metadata. Note

data as indicated by the `validUntil`

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sed with the SLO redirect binding  
the logout request.

ual server IDs, PingFederate will  
covery during an SP-initiated SSO

rough a Composite Adapter instance  
ter.

## *Self-service password reset*

Issue

Passwords can be reset for Microsoft Active Directory user accounts without the permission to change password.

## *OAuth*

Issue

PingFederate does not support a case-sensitive naming convention for OAuth client ID values when client records are stored in a directory server. For example, after creating a client with an ID value of `sampleClient`, PingFederate does not allow the creation of another client with an ID value of `SampleClient`.

Although it's possible to create clients using the same ID values with different casings when client records are stored in XML files, a database server, or custom storage, we recommend not doing so to avoid potential record migration issues.

## *Customer identity and access management*

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or fields that have been designed for more date-specific fields are defined age (or both), end users must enter date-picker user interface for those

ning to fail if the `user` or `group` in an OU or within the Users CN.

icates the number of results returned in the current response, not the total number of estimated results on the LDAP server.

## Logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant **USER\_KEY** attribute, the **USER\_KEY** attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

## Database logging

### Issue

- If a source attribute has been configured for masking in an IdP adapter or IdP connection and the source attribute is mapped to OAuth's persistent grant **USER\_KEY** attribute, the **USER\_KEY** attribute will not be masked in the server logs. Other persistent grant attributes will be masked.
- Even if a source attribute has been configured for masking in an IdP adapter and the source attribute is mapped as the adapter's unique user key, the user key attribute is not masked in the server or audit logs.

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-Request packets when the  
s. IPv6 is not supported.

Ping Identity commits to deliver the best experience for administrators and users. As we continue to improve our products, we encourage our customers to migrate off of Microsoft Internet Explorer 11. Starting with PingFederate 11.0, Internet Explorer 11 is no longer included in the PingFederate qualification process for administrators or users. For a list of supported browsers, see [System requirements](#).

### ***Configcopy tool, Connection Management Service, SSO Directory Service***

Info

As of PingFederate 10.2, these features have been deprecated and will be removed in a future release.

### ***Oracle Directory Server Enterprise Edition***

Info

As Oracle ended its Premier Support for Oracle Directory Server Enterprise Edition (ODSEE 11g) in December 2019, we no longer include ODSEE as part of the PingFederate qualification process (starting with PingFederate 10.2). We continue to qualify against Oracle Unified Directory [↗](#) and other supported directory servers. For a full list, see [System requirements](#).

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ting through the Simple Network

re always enabled and no longer  
API.

[Info](#)

Starting with PingFederate 10.1, the S3\_PING discovery protocol has been deprecated. Customers running on AWS infrastructure should instead use NATIVE\_S3\_PING.

### ***Red Hat Enterprise Linux install script***

[Info](#)

Starting with PingFederate 10.0, the Red Hat Enterprise Linux install script is no longer available. To install PingFederate 10.0 for Linux, you must download and extract the product distribution `.zip` file.

## Previous releases

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Find information about enhancements and issues resolved in previous releases of PingFederate in the Ping Documentation Archive.

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