

Release Notes

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Release Notes

▸ PingFederate 13.1.1 (July 2026)

Resolved issues

▸ PingFederate 13.1 (June 2026)

New features and enhancements

Resolved issues

Known issues and limitations

Deprecated features

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🌐 English ▾

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▸ PingFederate 13.0 (December 2025)

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▸ PingFederate 12.3.7 (July 2026)

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▸ PingFederate 12.3.6 (April 2026)

New features & enhancements

Resolved issues

▸ PingFederate 12.3.5 (February 2026)

New features and enhancements

Resolved issues

▸ PingFederate 12.3.4 (December 2025)

Resolved issues

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New features and enhancements

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▸ PingFederate 12.2.8 (May 2026)

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▸ PingFederate 12.2.7 (February 2026)

Resolved issues

▸ PingFederate 12.2.6 (November 2025)

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▸ PingFederate 12.2.5 (August 2025)

Resolved issues

▸ PingFederate 12.2.4 (June 2025)

New features and enhancements

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▸ PingFederate 12.1.11 (May 2026)

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Resolved issues

▸ PingFederate 12.1.10 (October 2025)

Resolved issues

▸ PingFederate 12.1.9 (September 2025)

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▸ PingFederate 12.1.8 (May 2025)

New features and enhancements

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▸ PingFederate 12.1.7 (March 2025)

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Resolved issues

▸ PingFederate 12.1.2 (August 2024)

Resolved issues

▸ PingFederate 12.1.1 (July 2024)

Resolved issues

▸ PingFederate 12.1 (June 2024)

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Resolved issues

▸ PingFederate 12.0.4 (July 2024)

Resolved issues

▸ PingFederate 12.0.3 (May 2024)

New features and enhancements

Resolved issues

▸ PingFederate 12.0.2 (April 2024)

Resolved issues

▸ PingFederate 12.0.1 (February 2024)

New features and enhancements

Resolved issues

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New features and enhancements

Resolved issues

▸ PingFederate 11.3.10 (December 2024)

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▸ PingFederate 11.3.9 (November 2024)

Resolved issues

▸ PingFederate 11.3.8 (July 2024)

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▸ PingFederate 11.3.7 (May 2024)

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▸ PingFederate 11.3.6 (April 2024)

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Resolved issues

▸ PingFederate 11.3 (June 2023)

New features and enhancements

Resolved issues

Known issues and limitations

Deprecated features

▸ PingFederate 11.2.11 (December 2024)

Resolved issues

▸ PingFederate 11.2.10 (July 2024)

Resolved issues

▸ PingFederate 11.2.9 (April 2024)

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▸ PingFederate 11.2.8 (December 2023)

New features and enhancements

Resolved issues

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▸ PingFederate 11.2.2 (February 2023)

Resolved issues

▸ PingFederate 11.2.1 (February 2023)

Resolved issues

▸ PingFederate 11.2 (December 2022)

New features and enhancements

Resolved issues

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Deprecated features

▸ PingFederate 11.1.11 (January 2025)

Resolved issues

▸ PingFederate 11.1.10 (April 2024)

Resolved issues

▸ PingFederate 11.1.9 (November 30)

Resolved issues

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▸ PingFederate 11.0.2 (March 2022)

New features and enhancements

Resolved issues

▸ PingFederate 11.0.1 (January 2022)

New features and enhancements

Resolved issues

▸ PingFederate 11.0 (December 2021)

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Deprecated features

Previous releases

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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
gFederation extends employee,
out passwords, using only standard
uth, and System for Cross-domain

Kerberos realm test failure

Fixed

PF-39487

We fixed a defect that caused Kerberos realm test connections without explicitly configured Key Distribution Centers (KDCs) to fail.

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.

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to fail when PingFederate was
ence token manager.

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

.O audit log

Fixed

PF-39587

We fixed a defect that caused the subject field to be missing from the SLO audit log entries after OpenID Connect (OIDC) backchannel logout in Redis mode.

SP adapter session termination failure in Redis 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

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requests to fail with HTTP 400 when approximately 60 seconds of idle time

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

New features and enhancements

Redis cache storage support

New

PF-38267

PF-38345

PF-38841

PF-38842

PF-38843

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](#).

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OAuth token exchange.

Third-party authorization servers
OAuth Assertion JWT Authorization Grant

OAuth token exchange.

IdP connection type.

This connection type facilitates workforce user SSO from their macOS login.

Learn more in [JWT Bearer Grant Processors and Configuring Platform SSO for macOS](#) in the PingOne documentation.

Private Key JWT client authentication for REST 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.

ns for managing user data in a REST

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Authorization details

details and authentication context in

ent in custom authorization details

tion.

Secret managers for OAuth clients

New

PF-38494

We added support for secret managers to OAuth clients.

This improves security and convenience by allowing you 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

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tic validation of IdP adapters when
adapters menu.

e if you have a large number of IdP

tion.

ID-JAG)

ation Grant (ID-JAG) flows in

PingFederate can now issue ID-JAG tokens through OAuth token exchange and accept ID-JAG tokens in OAuth JWT-bearer grant requests. This update also adds a Refresh Token Token Processor for token-exchange processor policies.

Learn more in [Configuring a Refresh Token Token Processor instance](#).

OAuth client tags

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.

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ite client metadata during runtime
pecially useful for AI agents and other
cess without being pre-registered

and the CIMD specification [↗](#).

clients

at authentication method for an

entication method to another

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

Per-client DPoP settings

New

PF-38845

We added support for per-client Demonstrating Proof-of-Possession (DPoP) settings and DPoP defaults for dynamically registered clients.

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.

AML 2.0).

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astore

e document to a local attribute in a

tions depend on the complete

We redesigned the **Clients** page and the client configuration form.

These redesigned pages make it easier to review existing clients at a glance and to find and configure attributes for both new and existing clients.

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

Pushed Authorization Request request_uri lifecycle

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

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on.startup parameter to the

from starting up without establishing

Info

PF-36967

We qualified PingFederate for use with Microsoft Windows Server 2025.

Jakarta EE 9 migration

Info

PF-37687

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 current connection and the associated session when the connection is configured to use

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ained upstream dependencies and

Identity for AI admin console link

Info

PF-38847

We added a **Helpful Link** from the PingFederate admin console to the Identity for AI Solutions documentation. These guides help you learn about how to configure Ping Identity solutions (including PingFederate) to work with artificial 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

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versions 16.13, 17.9, and 18.3.

a PostgreSQL (compatible with

Info

PF-39298

We upgraded opentelemetry to the latest versions.

Bundled integration kits

Info

PF-39444

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

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cookie is issued and validated in the

improvements

private_key_jwt OAuth

23 ↗ specifications and security best

Security

PF-38109

We fixed a security vulnerability that could've exposed a PingFederate filepath when displaying an error message to end users.

OGNL executable code

Security

PF-38241

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

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continue alignment with maintained
y vulnerabilities.

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

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

Extended properties for password change/reset

Fixed

PF-38262

We fixed a defect that prevented extended properties from applying to password change and password reset flows.

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.

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on to fail when **Retain Client Secret**
is set globally in **Authorization Server**

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

Kerberos realm test connectivity overwriting krb5.conf

Fixed

PF-38585

We fixed a defect where PingFederate temporarily overwrote the `krb5.conf` file during Kerberos realms testing when `AutoGenerateKrb5Conf` 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

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to newly-joined engine nodes.

Failure with revoked user

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

Fixed

PF-38659

We fixed a defect where the client secret updated even when the request to the `oauth/clients/{id}/clientAuth/clientSecret` endpoint resulted in a validation error.

CIBA token request fails with LDAP persistent 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

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user registration form attributes for
s configured to run after account

tain custom Authentication Selectors

ect

We fixed a defect that caused parameters added to request objects (signed JWT) sent to the OIDC provider in OIDC IdP connections to lose their original data type.

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 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

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TargetResource values.

joining a cluster when both active
upgrade.

y

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

!.

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.

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

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the UI doesn't refresh until you

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

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
- /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 newly exported data does not contain the **Persistent Grant Max Lifetime** setting. Export it to version 10.0.3 (or a more recent version).

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When you use a browser to access the PingFederate administrative console, administrators often configure a session timeout. When you use a browser to access the PingFederate administrative console, PingFederate returns to the browser a session cookie. If the browser's client session expires, the browser often presents you with a message from the acceptable issuers. However, in some cases, Chrome presents you all its session cookies. If the issuer matches one of the acceptable issuers, the browser often presents you with a message from the acceptable issuers.

If you are using an LDAP server for administrative authentication and the LDAP server doesn't support using a Microsoft Active Directory schema, you may see a message from the acceptable issuers.

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

tificate for authentication, the
ole and not the sign on page.

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modifying

r a similarly-named file if BCFIPS or an

ing, all cluster nodes must be

- Updating Java version 8 to version 11 results in an error when PingFederate is already installed and running on Windows. 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`.

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

Thales HSMs

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

.server certificate.

17.

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

hatted EC certificate.

.server certificate.

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

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 estimated results on the LDAP server.

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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.

Amazon SNS Notification Publisher

Issue

When using the SNS Publisher with the Amazon SNS plugin based on the AWS SDK, such as the `http.proxyHost`, `proxyPassword` properties in the `aws.properties` file, the `https` property even if the service URL is `https`.

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Info

PF-39148

We updated Apache MINA to version 2.2.7.

Resolved issues

Client certificate authentication behind proxy

Fixed

PF-39335

We fixed a defect where PingFederate, when deployed behind an mTLS proxy, used the TLS layer certificate (the proxy's server certificate) instead of the client certificate forwarded in the configured client certificate header. This caused client certificate authentication to fail when the proxy terminated mTLS from the client.

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

Kerberos realm test failure

Fixed

PF-39487

We fixed a defect that caused Kerberos realm test connections without explicitly configured

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1.0.20 to fix a startup issue triggered

5)

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](#).

Jetty library

Info

PF-38819

We upgraded the Jetty library to version 12.0.33.

Jetty symbolic links

Info

PF-38916

If you configured previous Jetty versions to support symbolic links, those links might no longer work with Jetty 12.0.

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g the
`run.properties` file.

sers to the base URL for the **Multiple**
l to the virtual host URL.

format

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.

If you want the client management service to return arrays for all parameters, you can set the `writeSingleItemElementAsArray` parameter to `true` in the `com.pingidentity.ws.rest.oauth.client_management.model.converter.SerializeRUtil.xml` file.

Learn more in Upgrade considerations.

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

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We are displaying a dependency error
selector after the selector instance is

on timing from resetting after a node

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

PingFederate 13.0.2 (April 2026)

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.

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.

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(NPE) error when an SP connection
on type set to **No Client**
d or updated using the Admin API.

2S

o newly joined engine nodes.

ailure 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.

CIBA token request fails with LDAP persistent 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.

Release Notes for PingFederate 13.1 (June 2026)

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automatic validation of IdP adapters when you click the **Adapters** menu.

if you have a large number of IdP

tion.

PAR parameters

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).

log4j - core update

Info

PF-38538

We've upgraded `log4j-core` to version 2.25.3.

This upgrade ensures continued alignment with maintained upstream dependencies and resolves a potential security vulnerability.

Resolved issues

pi.flow response_mode fix

Fixed

PF-38447

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

ation to fail when **Retain Client**
iod was set globally in **Authorization**

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

We've fixed a defect where PingFederate temporarily overwrote the `krb5.conf` file during Kerberos realms testing when `AutoGenerateKrb5Conf` was disabled.

Heartbeat endpoint failure

Fixed

PF-38595

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

Authentication policy error

Fixed

PF-38623

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Authentication policies with a Requested
thN Context Attribute enabled.

2025)

WS

ed Service Account (gMSA) credentials
ndows.

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.

This feature is disabled by default, but you can enable it by configuring the `log4j-categories-settings.conf` file.

Learn more in [Enabling verbose logging lifetime expiration](#).

Externally stored scopes with AWS DynamoDB

New

PF-37671

We've added a feature that allows external scope storage using AWS DynamoDB.

This allows administrators to manage a large volume of scopes without replicating for every

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pe storage.

er

anges to log settings to cluster
n disable it from the **Cluster**

oss your cluster without running a full

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
- Inter-Request State-Management (IRSM) service data

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

Custom audience values for OAuth clients

New

PF-37693

We've added a feature that allows you to add custom audience values for OAuth clients.

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existing issuer into PingFederate.

ingFederate.

ser Count Utility (UCU) to parse JSON

Ping Identity Support Knowledge

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

We've added the ability to perform distributed tracing for inbound and outbound requests to the PingFederate server.

This feature simplifies troubleshooting by giving you better observability of server processing across request workflows.

Learn more in [Distributed tracing](#).

Expired persistent grants in PingDS

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...e-to-live (TTL) settings in PingDS to

PingDS.

...coming errors are handled before
r.

...nection.

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

We've added support for the OIDC `response_type=none`.

This enables clients to request a grant of access from the Authorization Server without requiring the issuance of any tokens or security credentials.

Learn more in [None Response Type](#) [↗] in the OIDC specification.

Accessible token response in OIDC IdP connection

New

PF-38120

When creating an IdP connection, you can specify additional parameters of an OIDC-enabled

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values when creating attribute connections.

and cluster index of the engine node

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 Settings configurations.

AWS DynamoDB scope manager cache configuration

Improved

PF-38269

The `cacheExpirySecs` attribute is now exposed by default in the DynamoDB scope manager configuration file.

Learn more in [Configuring external databases for scope storage](#).

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le runtime

esses for administrative console

as runtime notifications and

leately restructured to help customers
nd make it easier to find information.
nitial 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

[info](#)

PF-36674

We've upgraded the Jetty library to version 12.0.

Log4j2 2.25.1

[Info](#)

PF-37100

We've upgraded the log4j2 dependencies to version 2.25.1.

Apache Commons Lang libraries update

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5-p1 and `commons-lang3` to version 3.12.0 dependencies.

h Thales and Entrust HSMs.

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

[Info](#)

PF-38048

We've qualified PingFederate for use with PostgreSQL version 18.0.

Oracle MySQL

[Info](#)

PF-38053

We've qualified PingFederate for use with Oracle MySQL version 8.4. This version has an updated database driver. Learn more in [Compatible database drivers](#).

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3.12.0 to continue alignment with

le where passwords entered for
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 sessions for that administrative account are now immediately invalidated, enhancing security and requiring reauthentication with the new credentials.

jackson-core update

Security

PF-37460

We've upgraded `jackson-core` to version 2.20.0 to continue alignment with maintained security vulnerabilities.

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allowed malicious parties to redirect POST header.

Form Adapter to ensure that password is masked after form submission, mitigating a

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.

Template Fix for Incorrect Language Variable

Fixed

PF-25517

We've fixed a defect in several default template files where the language locale wasn't retrieved correctly.

JWT auth to support Azure

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or Microsoft Azure AD as an OIDC

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

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

We've fixed a defect in **Authentication Policy Fragments** where input contract values and tracked parameters were missing from the **Data Store Filter** configuration page when setting up an **Attribute Source & User Lookup** for a local identity mapping.

Serialized OGNL Java objects

Fixed

PF-37405

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GNL expressions included in JWT connections not to be serialized

ings appeared after upgrading to new

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 **Data Store** in **General settings**.

authorization_details access token inclusion

Fixed

PF-37743

We've fixed a defect that omitted the `authorization_details` parameter from the access

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in the ClientHello message during a

e

wildcard TLS certificates when

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

We've fixed a defect where PingFederate incorrectly accepted DPoP proof JWTs with a future `iat` value.

ClassNotFoundException error

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`ClassNotFoundException` on the admin console.

admin API during upgrade utility

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 receiving the necessary `MUST_CHANGE_PASSWORD` status and associated `_links`.

Enhanced logging for IdP connections

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fail when handling invalid state

itions

ectly used the primary PingFederate
fail notifications.

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 `org.sourceid.servlet.filter.SimultaneousAuthnRequestCheckingFilter.xml` file was set to `true` instead of `false` by default.

The new behavior enables **show-speed-bump-for-new-devices** by default for new source version doesn't have the

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

ured 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

Fixed

PF-38123

We've fixed a defect in SAML audit logging by making sure that entries recorded for "Invalid signature" failures now correctly include the associated Connection ID.

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

ndpoint to explicitly detail session and
the logout confirmation page isn't
on.

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

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

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

d to authenticate when a context

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 Verify Integration Kit version 2.2.2 in PingFederate with the Verify feature in PingOne

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Logout

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

ty 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 v11.0. Data exported after upgrading to v11.0 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 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. when a session has timed out and a wser is redirected to the sign-on e after authentication is complete. tion, in principle. However, because tificate for authentication, 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.

Java

Issue

- Updating Java version 8 to version 11 results in an error when PingFederate is already installed and running on Windows. 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`.

HSMs

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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

17 or 21.

s issue only arises if PingFederate is
 t 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.

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`

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

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

rough a Composite Adapter instance
ter.

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

Issue

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...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

...ning to fail if the `user` or `group`
...an OU or within the Users CN.

...cates the number of results returned
...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` ,
`proxyPassword` properties in
properties even if the service URL is `https` .

Deprecated features

No features were deprecated for PingFederate 13.0.

PingFederate 12.3.7 (July 2026)

Resolved issues

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

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

dependency error warning

e displaying a dependency error
ector after the selector instance is

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

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.

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

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starting up without establishing a

administrative expression testing
ed to appropriately privileged roles,
missions.

CIBA token request fails with LDAP persistent 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 such as 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.

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.

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tain custom Authentication Selectors

on timing from resetting after a node

Fixed

PF-38907

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

PingFederate 12.3.5 (February 2026)

New features and enhancements

PAR parameters

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

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Policy mode **Password Reset** flow by
and invalid usernames.

GNL expressions included in JWT
connections not to be serialized

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.

Authentication policy error

Fixed

PF-38623

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

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

uld present an incorrect success

***\$adapterId** population issue*

Fixed

PF-38146

We've fixed a defect where the `$adapterId` variable wasn't being populated in templates accessed through direct links for the HTML Form Adapter's **Change Password** and **Forgot Password** flows.

Corrected null SaasGuid

Fixed

PF-38244

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`.

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d to authenticate when a context

on

n or shut down when attempting to
[Token \(JWT\)](#) authentication setup.

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.

pi.flow response_mode fix

Fixed

PF-38417

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.

PingFederate 12.3.3 (October 2025)

Resolved issues

TLS 1.3 support for Oracle Java 21

Info

PF-37849

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with Thales and Entrust HSMs.

flow to fail when reCAPTCHA is
rather than a mouse click.

ations

ectly used the primary PingFederate
ail notifications.

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 `org.sourceid.servlet.filter.SimultaneousAuthnRequestCheckingFilter.xml` file was set to `true` instead of `false` by default.

The new behavior enables `show-speed-bump-for-new-devices` by default for new installs, but disables it by default for upgrades, if the source version doesn't have the parameter configured.

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.

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 without the required parameters being used.

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rendering in redirectless mode in the

icate as an SSL server certificate.

`Algorithm` smaller than the

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.

- 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 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.

11 or 17.

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er 2025)

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.

Resolved issues

AWS CloudHSM certificate linking

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.

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-37709

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ta to be included in ERROR level

se the `PingFailoverAppender` to
primary appender.

or

We've fixed a defect that could cause `ClassNotFoundException` errors in the admin console.

JWT API authentication method

Fixed

PF-37841

We've fixed a defect where JWT wasn't a valid authentication method for the admin AP during upgrade utility validation.

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.

PingFederate 12.3.1 (August 2025)

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version to 1.6.0.

allowed malicious parties to extract the
ough HTTP Response headers.

Host header redirect

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.

PingDirectory PCV error messaging

Fixed

PF-37452

We've fixed a defect where disabling `PingDirectory Detailed Password Policy Requirement Messaging` caused password validation 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.

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hen running in BCFIPS mode.

g or updating an IdP connection with
ute mapping using the Administrative

Fixed

PF-37673

We've fixed a defect where the Admin Console allowed configuring an IdP connection without a client secret, but the Admin API returned an error. The Admin API no longer returns an error in this case.

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

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

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pings were incorrectly causing
ough the Admin API.

n the ClientHello message during a

e

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

PingFederate 12.3 (June 2025)

New features and enhancements

Audit log failure behavior

New

PF-36795

PF-36817

We've added a feature that allows you to configure how PingFederate responds when writing to the audit log fails.

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

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from consideration when making

ors from masking their IP address to

1.

origin resource sharing (CORS) access

This makes it more secure and convenient for web applications like PingAccess to perform administrative tasks in PingFederate.

Learn more in [Configuring administrative API CORS settings](#).

Validate OIDC ID tokens

New

PF-36860

We've added the ability to validate an ID token in the introspection endpoint as part of an [OpenID Connect \(OIDC\)](#) policy. You can enable this feature as part of a policy, but the runtime flows occur at the introspection endpoint.

This improves security by allowing PingFederate to determine whether a user's ID token is valid.

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

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that users haven't authorized.

sactions

keys stored in [Amazon Web Services](#) PingFederate's Java keystore.

ate pairs associated with your

Correlating log events with attributes

New

PF-36875

We've added the ability to correlate log events between the `audit.log`, `request.log`, and `server.log` files using shared log attributes.

This can make it easier to trace the cause of runtime errors.

Learn more in [Correlating log events using attributes](#).

Duplicate RSA key

New

PF-36970

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

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runtime engine and admin console.

`request.log` and `admin-request.log`

outputs for these files in

writing HTTP request logs using the

We've added a feature that allows you to revoke previous OAuth client secrets.

This improves security by allowing you to revoke secrets that are no longer in use. For example, if you move your client to a new secret before the old secret's grace period ends, you can use this feature to revoke your previous secret.

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

DynamoDB persistent grant storage

New

PF-37192

When storing persistent grants in DynamoDB, DynamoDB relies on the DynamoDB Time to Live (TTL) attribute to remove expired persistent grants from the database. Learn more in [Configuring external databases for grant storage](#).

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](#)

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onning

inbound user provisioning. Learn more in [SCIM](#).

number of sessions a user can have simultaneously. The system responds when that quota is exceeded.

This can improve security by limiting the number of active user sessions that have access to applications and other resources.

Learn more in [Configuring session quotas](#).

client_assertion attribute configuration

New

PF-37275

We've added a feature that allows you to configure the `client_assertion` for JWT-based authentications by customizing the following attributes:

- `aud`
- `lifetime`
- `typ`
- `nbf`

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

Bouncy Castle FIPS 2.0 compatibility

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sions is certified to operate in Federal

Java 21.

Red Hat Enterprise Linux ES 8.10.

Integration Kit template parameters

Info

PF-37102

We've updated PingFederate to use the same default template parameters for all integration kits.

Learn more about template parameters in Customizable user-facing pages.

Authentication policies list readability

Info

PF-37221

- The Policies UI in the administrative console now collapses long lists of authentication sources by default. Users can easily expand or collapse these lists as needed, making it easier to navigate and manage policies.
- We've added a **Selectors** column to the Policies overview, providing a list of the selectors used in each policy.

NATIVE_S3_PING update

Info

PF-37234

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discovery protocol when the
tive.

bucket, which could lead to the

prevent the S3 bucket from being

version, 3.5.60.

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

Amazon Aurora MySQL 3.09 compatibility

[Info](#)

PF-37277

We've confirmed that PingFederate is compatible with Amazon Aurora MySQL 3.09.

PingOne Singapore region

[Info](#)

PF-37451

We've added support for the new PingOne Singapore region, `pingone.sg`.

Resolved issues

d3-color library

[Security](#)

PF-36745

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

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on requests in short succession to
deadlocks and duplicated data entry

if PingFederate or the JDBC data

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 configured to use the Amazon Web Services or Google Cloud Platform Key Management System (KMS).

Expired grants reuse

Fixed

PF-36568

We've fixed a defect that allowed the use of OAuth grants that have passed idle timeout, but not expired, to be retrieved from persistent grant storage.

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

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in a revoked or expired consent error
class Authorization Approval for

er

ve inconsistently when **This is My**
e has more than one session

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

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.

Jetty Upgrade redirect errors

Fixed

PF-36877

We've fixed a defect where upgrading to Jetty library version 9.5.53 caused HTTP header compression errors when redirect URLs included special characters.

Change password failure with PingOne Protect

Fixed

PF-37012

We've fixed a defect that caused the HTML Form Adapter Change Password using an

the risk provider.

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fail to load when they contained SDK

the `id_token_hint` value during
nt 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 configurations set by the `SizeBasedTriggeringPolicy` parameter.

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.

Failed IdP connection with additional issuer

Fixed

PF-37404

We've fixed a defect where an "IdP connection not found" error occurs when an authorization response includes an `iss` query parameter that doesn't match the connection's primary issuer, but is added as an additional issuer.

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ion to fail when two or more
nistrative API.

Primary client secret

o unnecessarily reissue an ID token
ric algorithm for token signing and

Fixed

PF-37507

PingFederate now uses the Apache Commons BeanUtils library version 1.11.0.

Scope Groups Search

Fixed

PF-37514

We've fixed a defect where the **Scopes Selection** modal prevented configurations from saving correctly when added using search.

Scopes with URL characters not updating

Fixed

PF-37516

We've fixed a defect where OAuth scopes that included URL characters such as `/` couldn't be updated in the Admin portal.

Known issues and limitations

PingOne Verify IK unexpected error

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create an instance of the PingOne
in the Verify feature in PingOne

Logout

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

ty cookie management to unblock

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

Issue

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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

ely reflect a **Persistent Grant Max**
election of the **Grants Do Not**
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.
- 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.

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When using the hierarchical plugin, the administrative console returns a name/value pair (or without such a value) with a value of `true`, and returns a 200 status code for the ignored objects.

For example, the **Back** button) causes the console to return a 200 status code. Use the navigation buttons to navigate the administrative console.

In one browser might cause a configuration error.

When using the console using certificate-based authentication, the console might not appear to behave as expected. For example, when a session has timed out and a user is redirected to the sign-on page, the user is redirected to the sign-on page after authentication is complete.

Similar behavior applies to certificate-based 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.

Java

Issue

- Updating Java version 8 to version 11 results in an error when PingFederate is already installed and running on Windows. 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`.

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icate as an SSL server certificate.

`SignatureAlgorithm` 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.

- 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.

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 `validUntil` attribute is included in the metadata as indicated by the `validUntil` attribute.

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used with the single logout (SLO) request. The `validUntil` attribute is included with the logout request. If the `validUntil` attribute is not included with the logout request, PingFederate will use the default server IDs, PingFederate will not perform session recovery during an SP-initiated SSO.

through a Composite Adapter instance. The `validUntil` attribute is included in the metadata as indicated by the `validUntil` attribute.

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 page (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.

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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

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

plugins based on the AWS SDK, such as
for 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

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.

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administrative expression testing
ed to appropriately privileged roles,
missions.

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

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

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on timing from resetting after a node

2026)

d to authenticate when a context

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.

pi.flow response_mode fix

Fixed

PF-38417

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.

Authentication policy error

Fixed

PF-38623

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Authentication policies with a Requested
thN Context Attribute enabled.

er 2025)

Use the `PingFailoverAppender` to
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.

Apache Commons BeanUtils and Commons Compress

Fixed

PF-38029

PingFederate now uses the Apache Commons BeanUtils library version 1.11.0 and the Apache Commons Compress library version 1.26.1.

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

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

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.

PingFederate 12.2.5 (August 2025)

Resolved issues

Admin console IP exposure

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allowed malicious parties to extract the
ough HTTP Response headers.

allowed malicious parties to redirect
ost header.

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

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.

SNI extension error in BCFIPS mode

Fixed

PF-37793

PingFederate now always includes the SNI extension in the ClientHello message during a

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e

wildcard TLS certificates when

Exception on the admin console.

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

We've added support for the new PingOne Singapore region, `pingone.sg`.

Resolved issues

Refresh token MySQL deadlocks

Fixed

PF-35868

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

if PingFederate or the JDBC data

e

ata tool to fail when executed in the
ows service.

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.

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)

New features and enhancements

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

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discovery protocol when the
tive.

bucket, which could lead to the

prevent the S3 bucket from being

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 configurations set by the `SizeBasedTriggeringPolicy` parameter.

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

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25)

te or update [service provider \(SP\)](#)
ata store in OGNL expressions,
Administrative API and the **Import**

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)

New features and enhancements

Duplicate RSA key

New

PF-36970

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`.

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Red Hat Enterprise Linux ES 8.10.

creating 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.

ect

ter Change Password using an
ne risk provider.

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)

New features and improvements in PingFederate 12.2.

New features and enhancements

Extended properties in adapter contract mapping

New

PF-36314

We've added the ability for PingFederate to read extended properties in adapter contract mappings.

This improves flexibility by allowing you to use extended properties as values for attributes fulfilled by your adapter or as lookup values from your datastore.

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ment and Defining issuance criteria

token exchange policy

ided properties in token generator
ings.

ed properties in token generation
properties as lookup values from

ns

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.

This can improve performance by allowing PingFederate to validate Kerberos tickets locally without the need for additional components.

Learn more in [Adding Active Directory domains and Kerberos realms](#).

Authentication policy logging improvements

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and fragments used during
in their respective log files:

(DEBUG level)

ation request (DEBUG level)

level)

/ 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.

This makes it easier to upgrade to newer versions of PingFederate by allowing you to upgrade your configuration data without using the Upgrade Utility.

Learn more in [Upgrading configuration data and Importing and deploying administrative console configuration data](#).

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omatically replicate configuration
loaded to the drop-in deployer.

es have the same configuration data.

figuration-archive deployment.

ent grants

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](#).

Admin API error response

New

PF-36602

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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

Authentication Selector.

ges by giving them an easily

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

We've added support for JSON formatted logging for most PingFederate logs through the log4j2 logging library.

This improves your ability to monitor PingFederate performance by producing logs in an easily parsed standard format.

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ort data using the administrative

e by allowing you to more easily

onsole.

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.

Device authorization grants include server settings

New

PF-35858

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urn ID tokens when issuing OpenID

ing device authorization flows. For
e authorization message.

gs.

ent System (KMS).

master key file when PingFederate is

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 applies to an OAuth client.

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derate unintentionally locks out an Access Tokens.

en it's the client, not the account,

gs and Managing client configuration

the Administrative API using a [JWT](#).

od for your applications to access

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.

Learn more in [Deploying cluster servers](#).

Customize Jetty runtime logs format

New

PF-33822

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

log format, which is helpful for

e.

assessment transactions and offers

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

We've added a new `provisioner-channel-summary.log` file to capture data about users and groups added, removed, and updated by provisioning cycles. We've also added new information at the INFO level to the `provisioner.log` and `provisioner-audit.log`

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on about provisioning operations

o version 2.2.2.

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

[Info](#)[PF-36312](#)[PF-36288](#)

We've confirmed that PingFederate version 12.2 is compatible with PostgreSQL versions 16.4 and 17.

Amazon Aurora PostgreSQL 16.4 compatibility

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Amazon Aurora PostgreSQL version

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](#).

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](#).

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allowed auditors to access LDAP

Data URL loader

allowed malicious actors to use the
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.

Kerberos and Form SSO policy fails in iOS

Fixed

PF-35990

We've fixed a defect that caused Kerberos and Form SSO policies to fail when a user attempted SSO using iOS.

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

n issuing a password expiration

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

Fixed

PF-36546

We've fixed a defect that caused the banner message warning that a configuration is out of date to persist after a configuration had been replicated. This defect occurred when running PingFederate as a Windows service.

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errors excluding details of what error

Workflow

screen to fail to appear when a user

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.

Reencrypt data archive failure with Google Cloud KMS

Issue

PF-36487

When PingFederate is configured to use the Amazon Web Services or Google Cloud Platform Key Management System (KMS), importing a valid configuration data archive with **Reencrypt Data** enabled fails with a `Could not reencrypt data archive` error

start.

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Logout

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

ty 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 v11.0. Data exported after upgrading to v11.0 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.
- 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 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. when a session has timed out and a wser is redirected to the sign-on e after authentication is complete. tion, in principle. However, because tificate for authentication, 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.

Java

Issue

- Updating Java version 8 to version 11 results in an error when PingFederate is already installed and running on Windows. 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`.

HSMs

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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 rrypted with this key.

.server certificate.

11 and 17.

- 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 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.

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rough a Composite Adapter instance
ter.

user accounts without the permission

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

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

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

indicates the number of results returned from the LDAP server. Estimated results on the LDAP server.

working in an IdP adapter or IdP. The OAuth's persistent grant `USER_KEY` attribute is 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.

RADIUS NAS-IP-Address

Issue

The RADIUS NAS-IP-Address is only included in Access-Request packets when the s. IPv6 is not supported.

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plugins based on the AWS SDK, such as
r the `http.proxyHost` ,
`cyPassword` properties in
rties 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 metric entries, which affected performance.

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2025)

Include a duplicate RSA key with the
by 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 updated.

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)

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** URIs.

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

New

PF-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

New

PF-34422

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Integration Kit.

tation.

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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gs and OAuth Client Management

OIDC 1.0 using the `prompt=create`

ow 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

DS) datastore.

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

when PingFederate processed an
icryption (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 installed 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

er, or custom storage, we recommend

5.

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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.

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

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on timing from resetting after a node

- 2025)

owed malicious parties to redirect
ost header.

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 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 lockout

Fixed

PF-38043

We've fixed a defect where PingFederate could incorrectly lock user accounts during an authentication attempt. This fix applies to all LDAP datastore types.

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...ate attribute sources when an SP

Security

PF-33113

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.

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5)

discovery protocol when the
tive.

bucket, which could lead to the

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

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.

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2025)

Accepted cross-site scripting inputs.

Workflow

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

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

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issuing a password expiration

ser

sions or authentication errors when
s at the same time.

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.

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 requests.

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Directory

ite package for PingFederate versions
rectory.

)

oll

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

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

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ent an error message when user tries
y.

ive console login to fail when the

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.

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

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`gone.admin.url.region` property.

the Australia region instead.

change password flow

Fixed a defect that caused the authentication API to allow a different user to proceed with the `MUST_CHANGE_PASSWORD` function than the user 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.

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Authentication API when including the

data source and PingFederate are

updates when the data source and

Bypass authentication approval

Fixed

PF-35395

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

PF-35134

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

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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](#)

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`provisioner.node.id` values.

Deploying provisioning failover.

Custom KeyID values for static OAuth and

Fixed an defect that caused PingFederate to not publish the **alg** parameter on the JWKS endpoint. This issue occurred for dynamically-generated 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

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OpenID Connect Policy Management Editor

method with multiple signature-
ter were causing errors in processing

Fixed

PF-34813

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

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to register archive files that are

int response is too large

response from the `well_known` is too large.

page for unlocked users

unlock your account page during self-service password reset to accounts that are not locked.

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.

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"Invalid Configuration Error" message

return an `Invalid Configuration`

2023)

New

PF-34418

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

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roduced in PingFederate 12.x.

eads

ou when the number of threads in
ure to initiate and log a thread dump

tations.

resh_token

New

PF-33318

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

New

PF-34428

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

New

PF-33989

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ication on-boarding use cases. OAuth
ated to PingFederate engine nodes
it lets development teams manage
ministrators. For more information,

ort

open identity standards, it now
pecification. This feature enables
o PingFederate's proprietary front-
nfiguring OAuth clients.

Log category to capture details of protocol 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

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v allows access to all values available freedom when building user journeys. the secret manager plugin for the

Authentication API applications

`response_mode=pi.flow`, users are cation rather than to PingFederate. re information, see Configuring self-

Amazon DynamoDB account linking

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

out the use and importance of the 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 about it, open a support case.

New

PF-34147

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.

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Thales Luna Network HSM

any OGNL expression tests
event type of `TEST_EXPRESSION`. For

ed to capture more details.

Authenticating to Azure SQL Managed Instance through Azure Active Directory

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

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CADV040.

Nizard

Fixed a Server-Side Request Forgery vulnerability in the Initial Setup Wizard described in security advisory SECADV041.

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.

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check no longer case-sensitive

`ins DN` now ignore case while

calls

are logged at the DEBUG level rather

value

Fixed

PF-34115

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

`/idp/startSLO.ping` endpoint was
configure virtual issuers with a

`/namoDB` storage

ivate key JWT based authentication

ent grant that is expired with

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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.

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.

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nt

element could fail if a KeyName was

ages

(OTL) in password-reset email
ication configured for the policy,

provider authentication

policies

Fixed

PF-34111

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

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token endpoint responses.

*les have **Default to Success***

le had **Default to Success** disabled

when disabled

mail notifications for licensing events
even though they were disabled in the **Notifications** 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

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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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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

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
- 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**

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

- 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. 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 after authentication is complete. This behavior is inconsistent, in principle. However, because the user is authenticated with a certificate for authentication, the browser remains on the console and not the sign on page.

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MFA CIBA Authenticator bundled in this issue was resolved in version 2.2

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

Issue

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

`installPingFederateService.bat`
`bin/wrapper`.

certificate as an SSL server certificate.

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

Issue

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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)
e 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`.

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

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SSPR) is deprecated as of
ase. To ensure continued support,
policy using the One-Time Passcode

ports upgrading from PingFederate

The PingOne Fraud integration kit is no longer bundled with PingFederate.

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. 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

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Oracle Directory Server Enterprise Edition (ODSEE) is part of the PingFederate qualification process. We continue to qualify against Oracle Directory servers. For a full list, see [System requirements](#).

Configuring through the SNMP has been deprecated.

[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](#)

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)

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`n.startup` parameter to the

from starting up without establishing

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.

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.

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2025)

to access an HTML browser sign-on
s used.

ndering in redirectless mode in the

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.

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.

Using the PingFederate REST API for notifications

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ectly used the primary PingFederate
ail notifications.

ils library version 1.11.0 and Apache

25)

Resolved issues

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 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.

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bucket, which could lead to the

prevent the S3 bucket from being

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

Group membership loss during provisioning

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 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.

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Workflow

screen to fail to appear when a user

h DynamoDB

for OAuth Client for OAuth Client Set storage.

er 2024)

Resolved issues

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.

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

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ser

sions or authentication errors when
s at the same time.

grant flow errors when clustered

PingFederate 11.3.8 (July 2024)

Resolved issues

OIDC admin login failure

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

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

OAuth manager when aud

ate only the first OAuth client access **igible Access Token Managers** was request.

PS

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

Davinci integration kit

Info

PF-35838

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.

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es.

change password flow

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

required to complete the change

PI 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-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

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updates when the datasource and

4)

Services

tication policy involving a local

OAuth clients in use detection

Fixed

PF-35407

Fixed a defect with In Use detection when DynamoDB 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

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to populate when EC dynamic keys
cluster.

PingFederate 11.3.5 (February 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

r

method with multiple signature-related
causing errors in processing

Fixed a defect that caused PingFederate to issue null pointer exception (NPE) errors when querying the token endpoint.

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 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 be too large.

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Registration failure

Registration fails when installed on a Red Hat Linux system.

Unable to defuse grant attributes of a certain

Valid Authorization policy generates "Configuration Error" message

Fixed

PF-34853

Fixed a defect that caused PingFederate to incorrectly return an "Invalid Configuration" error for a valid authentication policy.

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)

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Security advisory SECADV040.

Attribute to address third-party cookie
chrome.

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 context path.

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

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connections after receiving a `401` or

ement

uests related to outbound
e environments.

`rSort` parameter in the
xml file.

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

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

every certificate when loading
e, which slowed down performance.

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er 2023)

Authenticating to Azure SQL Managed Instance through Azure Active Directory

Improved

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](#).

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 is the same as the one-time link (OTL) in password-reset email messages, as configured for the policy.

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provider authentication

As of PingFederate 13.1, PingFederate now renders the following information in the user interface:

registration

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

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

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when disabled

mail notifications for licensing events
ifications configuration.

023)

We introduced new settings in the `cluster-config-replication.conf` file to improve configuration retrieval reliability during engine startup. By setting `publish.replication.data.on.startup` to `true`, the administrative console automatically publishes the last replicated configuration upon startup, eliminating the need to initiate replication through the administrative UI or API after a console restart. Additionally, you can configure engines to fail startup if they cannot retrieve configuration data by setting `require.replication.data.on.startup` to `true`. This setting proves beneficial in DevOps deployments, where fresh engine nodes are frequently 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

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in the administrative UI drop-down

longer fail with an Invalid

PingFederate, when configured with PingDirectory as an outbound provisioning data source, no longer sends redundant group updates in each provisioning cycle when the entry remains unchanged.

Potential security vulnerability

Fixed

PF-33449

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

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in an authentication policy,
authentication policy.

ministrative API validation error when
edUser as the mapping source.

PingFederate now processes authorization details within a rich authorization request (RAR) as a JSON Array in a JWT request. Additionally, PingFederate no longer supports authorization details sent as stringified JSON arrays.

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.

Potential security vulnerability

Fixed

PF-33935

described in security advisory

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create or update a fragment that
duce a validation error when fragment

e.html template now contains the

USERNAME variable.

Potential security vulnerability

Fixed

PF-34017

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

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.

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different DynamoDB attributes

ss token managers

New

Now you can configure access token managers to include the JSON web token (JWT) `access_token` claims `nbf` (not before) and `iat` (issued at). This enables stronger validations by receiving clients or protected resources that process that `access_token`. For more information, go to [Configuring an access token management instance](#), and in the *JSON web token data model* section click the *JSON token 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 policies. This lets PingFederate receive them. For more information,

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ions

`transactionId`. For each transaction, this is the final response. This is especially the `transactionid` field in Security

ail templates

Now you can configure HTML and mail templates with user details. With these details, you can personalize user facing pages and include messages, such as greetings by name, or email addresses that were used for a password recovery flow. The attributes are documented in the templates.

Logging certificate expiration advance warnings

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 \(for SAML 2.0\)](#).

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It also supports some of the RSASSA-PSS signing algorithms.

Proxy servers

For authentication purposes, now you can configure PingFederate so that connections can be easily routed through a configured forward proxy server.

Groups

Our continued effort to support Amazon DynamoDB (NoSQL) now lets you use DynamoDB as a source for attribute lookups. The connector supports the DynamoDB query language so you can easily configure it. For more information, see [Configuring an AWS DynamoDB datastore](#).

OAuth 2.0 DPOP

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 dates to use newer versions. For audit logging.

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State menus

State menus show the distinguished name and a serial number. This gives you

A new JWT token processor enhances the token exchange capabilities so that you can leverage any configured issuer. Now PingFederate can validate and accept incoming tokens that were created by pre-configured issuers. For more information, see [Configuring a JWT Token Processor 2.0 instance](#).

Enhanced authentication policies

New

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](#)

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more complex policy rules. For more information, see [Configuring authentication policies](#).

OpenID admin authentication

requests using the PAR endpoint of the OpenID Connect protocol. This enhancement lets PingFederate use PAR for authentication security. For more information, see the [Configuring OpenID Provider](#)

Logout

New

In the context of OpenID session management, PingFederate now supports back-channel logout. PingFederate supports this feature whether it's configured as an OpenID Connect provider (OP) or a relying party (RP). For more information, see the [OpenID Connect Back-Channel Logout 1.0 specification](#).

Ability to include `x5t` and `typ` in ID token headers

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

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JWKS endpoint. Any elliptic curve keys feature lets clients verify that a signature is valid. For information about the `alg` parameter, see the [JSON Web Keys endpoint](#).

Authentication

A client can choose to create a signed endpoint, introspection endpoint, or token endpoint. This feature prevents the client secret. This feature prevents the secret from being exchanged with any party. For more information, see [Configuring policy and ID token settings](#) as an RP. For more information, see [Configuring policy and ID token settings](#).

client_secret_jwt in the Open ID Connect [↗](#) specification and Client authentication schemes.

Refresh token reuse and revocation best practice

New

PingFederate now revokes a chain of tokens if a refresh token is revoked or if a refresh token is reused. This includes derived authorization codes and access tokens. For more information, see the Refresh Token settings section of 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

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derate generated logs. These include
ion codes, access tokens, and refresh
locked out users after multiple,
ngFederate or an LDAP server.
tive API logs, so now there are almost
e administrative console or
strator audit logging, Administrative

's

Now you can manage OAuth clients in Amazon DynamoDB. With this update, you can use DynamoDB to manage OAuth clients, persistent grants, and persistent authorization sessions. Learn more in [Configuring an Amazon DynamoDB for client storage](#).

Upgraded Velocity Engine 2.3

New

PingFederate now supports Apache Velocity Engine 2.3. For more information, see [Upgrading](#) in the Apache Velocity Engine documentation.

Support for strict content security policy (CSP) 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

such as cookieTool.

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Instance

aged Instance. For more information, [see](#) [Instance](#), and for more information on [Managed Instance](#), see [Configuring a](#)

5

Authentication for REST API

datastores.

mTLS authentication for LDAP datastores

New

PingFederate now supports mTLS client authentication for LDAP datastores.

Entrust nShield Connect HSM and Java 11

New

Now when you integrate an Entrust nShield hardware security module (HSM) with PingFederate, you can use Java 11.

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

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This security improvement can affect 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.

Log message when multiple entries match the LDAP PCV search filter

Fixed

PF-32427

Now when multiple entries match the LDAP PCV search filter, the following message appears in the log at DEBUG level: `error code 4 - This search operation has sent the maximum of 1 entries to the client`

Multivalued authorization request parameters

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

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Sources and User Lookup LDAP

d

es have icons that let users show and

deleted extended properties

ed extended property, PingFederate
no longer throws a null pointer exception. Instead it ignores the extended property and

logs an error.

Slow log consumption affects performance

Fixed

PF-33368

We've fixed a defect that caused performance issues for PingFederate when third-party logging services were slow to consume logging events.

Custom error messages from external consent adapters

Fixed

PF-33151

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

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parameters

oval enabled, now that setting takes

ive JVM heap

Fixed

PF-33610

The `memoryoptions` script no longer allocates excessive JVM heap on Windows systems.

Authorization Code and Device Authorization grant handling

Fixed

PF-33622

For the Device Authorization grant type, if **Check Activation Code** is set to **Before Authentication**, then authorization detail is set in the input parameters map when `IdpAuthenticationAdapterV2` in the SDK is invoked.

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

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N of an OAuth client, now
ertificate hasn't expired and its

ty

lity.

sources

ces such as images and CSS.

Returning 400 error instead of a 500 error

Fixed

PF-30236

When a system-level issue causes a data source attribute lookup to fail during OAuth flows, if the `<pf_install>/pingfederate/server/default/data/config-store/org.sourceid.saml20.domain.AttributeMapping.xml` file's `AbortOnAttrLookupFailure` attribute is set to `true`, now PingFederate returns a 500 error instead of a 400 error.

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:

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ity generates a user count for each

generates a user count for each

the value with digits instead of as

We resolved an issue that caused an unexpected carriage return in audit logs during SP-initiated single sign-on (SSO) if an identity provider responded with a non-success status.

Known issues and limitations

PingID password credential validator with integrated RADIUS server

Issue

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

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e using OAuth 2.0

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

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

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.
- 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 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. when a session has timed out and a owser is redirected to the sign-on e after authentication is complete. tion, in principle. However, because tificate for authentication, the console and not the sign on page.

PingOne MFA CIBA Authenticator

Issue

PingOne MFA

PingFederate 11.3 is not compatible with the PingOne MFA CIBA Authenticator bundled in PingOne MFA Integration Kit version 2.1 and earlier. This issue was resolved in version 2.2 of that integration kit.

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

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modifying

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

not supported when using Java 17.

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

`UninstallPingFederateService.bat` and `InstallPingFederateService.bat` files located in `<pf_install>/pingfederate/sbin/wrapper`.

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

Entrust HSMs

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

natted EC certificate.

.server certificate.

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

- 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

Issue

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

OAuth

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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
s.

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

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**

masked in the server logs. Other

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

masking in an IdP adapter or IdP connection, OAuth's persistent grant **USER_KEY** is masked 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.

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

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

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d with PingFederate.

or administrators and users. As we to migrate off of Microsoft Internet Explorer 11 is no longer included in ors or users. For a list of supported

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](#).

SNMP

[Info](#)

Starting with PingFederate 10.2, monitoring and reporting through the SNMP has been

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are always enabled and no longer
API.

y protocol has been deprecated.
lead 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 11.2.11 (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

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screen to fail to appear when a user

4)

manager when aud

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.

Wrong content-type for autopost template form

Fixed

PF-35784

Fixed a defect that caused PingFederate to send the wrong content-type value for `form.autopost.template.html` requests, which caused the page to render as JSON rather than the formatted form.

PingFederate 11.2.9 (April 2024)

Resolved issues

Rest datastore security vulnerability

Security

PF-34720

described in security advisory

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described in security advisory

security vulnerability

Connect Policy Management Editor

Slow log consumption affects performance

Fixed

PF-33368

Fixed a defect that caused performance issues for PingFederate when third-party logging services were slow to consume logging events.

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.

PingFederate 11.2.8 (December 2023)

New features and enhancements

Configurable option to turn on/off plugin creation and initialization during PingFederate startup.

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`config-store` file.

during startup. `false` prevents
startup time.

any OGNL expression tests
event type of `TEST_EXPRESSION`.

3

Resolved issues

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 systematically adds server-side sort control

Fixed

PF-33466

You can now turn off server-side sorting using a configuration 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.

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with character length of 682

obfuscate grant attributes for a small

023)

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

Potential security vulnerability

Fixed

PF-34017

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

Policy evaluation issue

Fixed

PF-34051

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

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no longer fail with an Invalid

Active JVM heap

Active JVM heap on Windows systems.

Check Activation Code

Fixed

PF-33622

For the device authorization grant type, if **Check Activation Code** is set to **Before Authentication**, now authorization detail is set in the input parameters map when `IdpAuthenticationAdapterV2` in the SDK is invoked.

Binary attributes handled incorrectly when using 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).

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

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an engine node in a cluster to start

being revoked through the session

3)

Logging validation

Fixed

PF-32764

We've improved logging validation.

Multi-value request parameters for OIDC for console login

Fixed

PF-32783

We fixed an issue where multi-value request parameters were not working as expected when using OIDC for console login.

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

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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.

for message when the link is expired.

We resolved an issue where an access token may not include the `pi.sri` claim after refresh. This issue only occurs when reuse of existing access grants is enabled.

Attribute retrieval

Fixed

PF-33484

In OAuth and OpenID Connect (OIDC) flows, external consent adapters can now retrieve attributes from the chained attributes map.

LDAP bug fix

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 during the retention period.

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When PingFederate was deployed with **Reuse Existing Persistent Access Grants for Grant Types** enabled, it generated a number of temporary SSO errors.

23)

Fixed

PF-32971

We've fixed an issue where upstream data stores in the chain could not recognize the reference attribute for base distinguished name (DN) during lookup.

Identity store provisioner validation rules

Fixed

PF-33017

We've improved validation rules to ensure that only identity store provisioners that support groups require group attribute contract validation.

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

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ected errors in response handling.

OpenID Connect (OIDC) policies with

that arose when accessing the **IdP**

HSM key sessions

Fixed

PF-33284

We've improved the process of cluster replication for PingFederate integrated with AWS CloudHSM by purging HSM key pair generation sessions.

PingFederate 11.2.3 (February 2023)

Resolved issues

Potential security vulnerability

Fixed

PF-32748

We've resolved a potential security vulnerability that is described in security advisory SECADV035.

Log improvements

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verbosity, when a configuration is
nger scans files in the `etc` directory.

nts and third-party dependencies:

.0.3

PingFederate 11.2.2 (February 2023)

Resolved issues

Server log warnings

Fixed

PF-33037

We've added a warning to server logs if the *ds-pwp-state-json* attribute is not present in PingDirectory's LDAP Response. This warning appears in the log every time a user interacts with the profile management page. Please enable this 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 11.2.1 (February 2023)

Resolved issues

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t where selecting the **Require JWT**
the incorrect checkbox.

described in security advisory

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 end policy result.

Managing certificates within Metadata Export

Fixed

PF-32965

Managing certificates within the **Metadata Export** flow no longer displays or saves an empty list of certificates, clearing out existing ones in the process. For more information, see [Metadata export](#).

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

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nts and third-party dependencies:

.0.2

own issues that you should review
ion, see [Known issues in PingID](#)

PingFederate 11.2 (December 2022)

New features and improvements in PingFederate 11.2.

New features and enhancements

Support for OAuth 2.0 authorization server metadata

New

PingFederate now supports OAuth 2.0 authorization server metadata. This allows OAuth clients to retrieve relevant endpoints and other details about features that PingFederate supports. The API response is like the OpenID Connect 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

write directory without needing to
nested group and nested search in

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as part of the SDK

e in the PingFederate SDK. This lets
e. See

[identity/access/AccessGrantManag](#)

change their password

Now you can configure PingFederate to keep users signed in after they change their password. This prevents users from having to sign on again after updating their password, improving the user experience. Learn more in the **Require Re-authentication** settings HTML Form Adapter advanced fields.

Administrative API supports multiple authentication and authorization schemes

New

Now you can configure the PingFederate administrative API to accept either OAuth `access_token` or basic authentication. This is especially 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

A v3 doesn't interrupt user journeys, learn more in Managing CAPTCHA and

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r integrations with custom CAPTCHA feature.

ive console now displays a banner des a link to the **Cluster** anagement.

claims parameter

New

You can configure PingFederate to function as an OpenID Connect client and let administrators sign on to the administrative console using their PingOne credentials. PingFederate initiates an OpenID Connect flow that includes the claims parameter. You can also use this feature outside the PingOne environment, leveraging any authorization server that supports the claims parameter. This allows for a simpler, seamless login flow. See Request Parameters in Enabling OIDC-based authentication.

The administrative console supports third 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

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ne DaVinci integration kit. See authenticators.

ation sessions

is in AWS DynamoDB. Persistent user ngFederate. This feature reduces the on *DynamoDB for persistent* sistent authentication sessions.

When defining policy rules, now attributes that were processed in an earlier step can be accessed further down in the policy tree. This feature enhances the management and usability of policies. See [Configuring rules in authentication policies](#).

The heartbeat endpoint and JMX expose more information

New

The data exposed by the heartbeat endpoint and JMX interface now include more details, such as the number of errors per data store. See [Liveliness 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

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on multiple servers to enable or
can toggle log settings in the

ch targeting a specific scenario. For
troubleshoot XML signature issues. You
requirements.

sign-on (SSO)/security token service
tion or creation time. The timestamps
relationship between clients and

AWS CloudHSM and Java 11

New

If you integrate with Amazon Web Services (AWS) CloudHSM, now you can choose between Java 8 and Java 11.

OAuth Rich Authorization Requests

New

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.

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SMTP notification publisher

For LDAP and database-related fields, PingFederate now sorts values alphabetically and in case-insensitive order.

Detailed comments added to log4j2.xml file

Fixed

PF-30514

We've added detailed comments to the `log4j2.xml` file to prevent misconfigurations that could lead to service hangs and production outages. Learn more in Log4j 2 logging service and configuration.

Configuration options added to control SAML 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

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ables are now available in SP STS
and available variables.

ple protocol types would only filter on

onsole authentication

When using OIDC for administrative console authentication, PingFederate no longer throws an NPE if `private_key_jwt` is used for client authentication method and the `client.secret` property is not set.

Improvements to refresh token rolling criteria

Fixed

PF-31761

We've introduced a new separate stored value to track when refresh tokens should be reissued to OAuth clients, resolving a defect where rolling refresh tokens read the incorrect update timestamp to determine refresh token rolling criteria. Learn more in [Configuring authorization server settings](#).

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

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guished names (DN) and added
n on Group DN, see [Specifying a](#)

but supported browsers list

meSite=None header attribute to
ie attribute bug: Safari version 12 and

Fixed

PF-31807

PingFederate's administrative console now identifies expired user sessions on timeout and properly removes the session regardless of user interaction.

Policy and fragment logging

Fixed

PF-31862

PingFederate now logs the policy and fragment name before fragment processing.

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.

Template double-submission

Fixed

PF-31957

PingFederate no longer submits the authentication template twice.

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Authentication login

Ensure the correct session is used when logging into the application.

API responses

Configure the `authenticationResponses` setting in the `<install`

the `authnApiManagerImpl.xml` file to

hide user information from authentication API responses.

Errors on policy fragments configured to handle failures locally

Fixed

PF-32073

When an error occurs on policies containing fragments and configured to handle failures locally, PingFederate no longer redirects a user to the service provider (SP) error page on SP-initiated SSO.

Password management

Fixed

PF-32081

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.

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Reporting

reset expires or is reused,
r message in the authentication API
more about OTL for password reset

es

group names to be the same when
in Scopes and scope management.

Warning during SQL provisioning table creation

Fixed

PF-32254

We've decreased the maximum key length for `saasGroupName`, resolving a warning that occurred when creating SQL provisioning tables.

'Change Password' link accessibility

Fixed

PF-32343

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.

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Policy processing

idently from policies and other

the authentication API

P) registration via a third-party
a password, despite previously

PingID password credential validator with integrated RADIUS server

Issue

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

- `/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**

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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

entication, 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
e of 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.

- 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.

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tion, in principle. However, because certificate for authentication, the console and not the sign on page.

versions earlier than 8u261), `IllegalArgumentException` exception. To resolve this, update the `run.properties` file:

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.

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 (HSMs)

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icate as an SSL server certificate.

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

icate as an SSL server certificate.

Entrust HSMs

- PingFederate must be deployed with Oracle Server Java Runtime Environment (JRE) 8 or Amazon Corretto 8.
- JWT token decryption using ECDH-ES or RSAES OAEP 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.
- SAML assertion decryption using RSA OAEP may fail when the decryption key is stored on the HSM.
- It is not possible to use an elliptic curve (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` 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.

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used with the Single log off (SLO)
included with the logout request.
ual server IDs, PingFederate will
covery during an SP-initiated SSO

rough a Composite Adapter instance
ter.

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

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

age (or both), end users must enter date-picker user interface for those

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ning to fail if the `user` or `group` is an OU or within the Users CN.

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

- 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.

d with PingFederate.

[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. 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 directory servers. For a full list, see

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ting through the Simple Network

re always enabled and no longer
API.

S3_PING discovery protocol

[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 11.1.11 (January 2025)

Resolved issues

Eliminating redundant group updates

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configured with PingDirectory as an identity provider, it group updates in each provisioning

data source and PingFederate

provisioner updates when the data source

Fixed

PF-36874

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

PingFederate 11.1.10 (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

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security vulnerability

Connect Policy Management Editor

PingFederate when third-party logging

PingFederate 11.1.9 (November 30)

Resolved issues

Outbound provisioning performance improvement

Fixed

PF-33466

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.

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Wizard

the Initial Setup Wizard described in

023)

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

Binary attributes handled incorrectly when using 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).

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

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flow

ource Owner (RO) Password

Fixed

PF-33549

The Requested Authentication Context Selector no longer throws a Null Pointer Exception (NPE) during callback.

PingFederate 11.1.6 (February 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:

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.0.3

2023)

We've added a warning to server logs if the *ds-pwp-state-json* attribute is not present in PingDirectory's LDAP Response. This warning appears in the log every time a user interacts with the profile management page. Please enable this 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 11.1.4 (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

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described in security advisory

ed in the fragment now correctly
(able) to inform the adapter of the

rt

Managing certificates within the **Metadata Export** flow no longer displays or saves an empty list of certificates, clearing out existing ones in the process. For more information, see [Metadata export](#).

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.

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

(3P) responses, PingFederate invokes the revocation checker to validate these responses with BCFIPS mode enabled. For more information.

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ers that in the event of a replication replication. For more

Error detection

During PingFederate dependency error detection, OGNL expressions in adapter-to-adapter mappings no longer raise a null pointer exception (NPE).

PingFederate updates to HSM ordering

Fixed

PF-32556

We've updated the recommended security provider ordering for the Thales Luna Network hardware security module (HSM) to address an issue where temporary keys and sessions could accumulate on the HSM, eventually resulting in 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

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provider (IdP) connections that fulfill

Authentication login

ure when logging into the
ation.

API responses

InResponses in the `<install`

`store/org.sourceid.saml20.domain.mgmt.impl.AuthnApiManagerImpl.xml` file to hide user information from authentication API responses.

Errors on policy fragments configured to handle failures locally

Fixed

PF-32073

When an error occurs on policies containing fragments and configured to handle failures locally, PingFederate no longer redirects a user to the service provider (SP) error page on SP-initiated single sign-on (SSO).

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

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passwords to PingDirectory, resolving could not properly register a

Kerberos realm

`.xml` file, PingFederate no longer type in the Kerberos realm.

Security around password expiration

Fixed

PF-29706

PingDirectory

Improved the security around password expiration when using PingDirectory as a user store.

Issuance criteria in authentication policy contracts

Fixed

PF-31485

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

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ails of java classes.

plication

ptor that relies on an SSL call to an
ascading failures because

ent management service

When updating the client secret with the OAuth client management service, PingFederate now correctly creates the secondary secrets.

OAuth authorization requests with `response_mode=pi.flow`

Fixed

PF-31942

Now when PingFederate receives an OAuth authorization request with `response_mode=pi.flow`, password change and account recovery flows using an authentication policy work correctly.

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

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ding the following FedHub-specific

more obvious when changes to the
en replicated to the engine nodes.

PingFederate 11.1 (June 2022)

New features and improvements in PingFederate 11.1.

New features and enhancements

PingOne integration

New

PingOne

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, sender authentication, and
in FAPI 2, you can deploy open

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OAuth Token Introspection [↗](#), a draft
authorization server requirements in the FAPI 2
spec provide stronger assurance to the
client, such as a resource server,
authorization server.

New

Seamless client secret rotation no longer requires real-time coordination between PingFederate administrators and the application development teams. You can now configure PingFederate to retain previous secrets for a configurable period, during which the application teams can work on updating the client secrets in their apps. This enhancement drastically lowers the costs of securing applications that use client secrets for authentication. For more information, see "Client Secret Retention Period" in the topic [Managing client configuration defaults](#).

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

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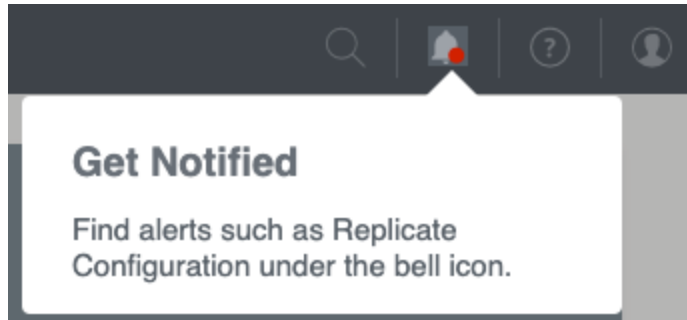
Amazon DynamoDB, which allows you to take advantage of: delivering responsive experiences with high availability at ease.

maintained access tokens (JWT access tokens) and late access tokens without revoking them. For more information, see [Configuring the token rotation](#) of the **Enable Token Rotation** option.

A new alert system

New

PingFederate 11.1 centralizes alerts, such as the reminder to replicate configuration, under the new **bell** icon in the top menu. You can review important alerts from any configuration window.



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

or another IdP adapter), and then reapply the policy. This capability applies to reusable policy fragments.

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es

ual policy to a specific location. This makes it easier and safer.

PingFederate engine nodes now capture common configuration replication issues in their server logs and send replication status back to the console node. The **Cluster Management** window provides live updates when you select **Replicate Configuration** in the **Cluster Management** window. If an error occurs, you can act on it immediately and recover from potential outages faster.

Passthrough IdP Adapter

New

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,

Lookup configuration.

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ion

he service provider asks for re-
2.0) or `prompt=login` (OpenID
e, suppose user interactions are
In that case, you can add the HTML
adapter.

- You now can configure individual authentication policies to handle authentication failures locally without redirecting to the service providers or returning error messages to the OAuth clients. This flexibility addresses the scenario where an IdP-oriented end-user experience is desirable.
- PingFederate now includes error results from issuance criteria in error responses. Partners can use the error results to resolve issues as needed. If the invoked policy is configured to handle failures locally, you can do the same to improve the end-user experience.
- 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 need for property values to authentication. This helps you create and maintain end-user UX improvement.

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city templates. Moving forward, we consistently to communicate changes,

Both Java 11 and 8 environments are supported when integrating with Thales Luna Cloud Hardware Security Module (HSM) Services or Luna Network HSMs. For more information about Thales Luna HSM Client, see the [Luna Cloud HSM Service Client Guide](#) and [Luna Network HSM Documentation Archive](#).

Secondary signing certificate

New

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**

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rough HTTP (at the heartbeat
se performance issues. Both channels
response time statistics, and Jetty
eshoot latency issues associated with

revocation status by default on new
derate uses the OCSP responder URL

provided in the certificate first, followed by the now optional Default OCSP Responder URL, and lastly, CRL, making the certificate validation process more efficient.

- The administrative console now provides guidance when you attempt to import a configuration archive obtained from a different version of PingFederate.
- PingFederate 11.1 supports Amazon IAM roles for service accounts, which increases security posture with credential isolation and auditability.
- PingOne Verify is now part of the PingFederate distribution `.zip` file and Windows installer.
- 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

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word flows

ange password flows.

Upgraded the Guava dependency to version 30.1.1.

OAuth client Issuer DN

Fixed

PF-29368

If the administrative API was used to create an OAuth client that has the Client Certificate authentication type, and the client's Issuer DN does not have a normalized DN value, the administrative console's **Client** window no longer fails to show the Issuer DN as the default value. This issue didn't affect runtime behavior.

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

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s now retains number and Boolean

Messages from JGroup in the

`Exception` warning message to
/S_PING for dynamic cluster

Fixed

PF-30146

If the OAuth client's redirection URI contains a wild card in the authority part of the URI, and the `redirect_uri` parameter of the token request contains userinfo in the authority part, then PingFederate will no longer consider the redirection URI a match.

Potential security vulnerability

Fixed

PF-30255

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

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through the authentication API, if
v PingFederate logs an error state

VS

orrectly determining the
OC authorization request specifies a
n source selection (policies are
n upstream OIDC IdP connection.

Fixed

PF-30806

PingOne MFA

PingFederate now includes all the templates for PingOne MFA 1.6.1.

Dependency errors for SAML token processors and generators

Fixed

PF-31054

When saving SAML token processors or generators, PingFederate now correctly handles dependency errors caused by misconfigured settings 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

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le in multiple tabs on one browser, it
avior which could corrupt its

tes scope.whitelist

ite the `scope.whitelist` in the
ain.AuthzServerManagerImpl.xml

Fixed

PF-31561

Now OAuth client MODIFY, CREATE, and DELETE event log entries in the `admin.log` include the client ID.

Honoring the property for maximum HTTP request body size

Fixed

PF-31575

Now PingFederate honors the value of `http.maxRequestBodySize` in the `run.properties` file, which specifies the maximum HTTP request body size of any incoming request to PingFederate's web services and 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:

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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

entication, administrators often
ers. 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.

- 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.

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re console using certificate
t not appear to behave as expected.
when a session has timed out and a
rowser is redirected to the sign-on
e after authentication is complete.
tion, in principle. However, because
tificate for authentication, the
ole and not the sign on page.

versions earlier than 8u261),
`IllegalArgumentException` exception. To resolve
gs 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.

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`

located in

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tic curve (EC) certificate as an SSL

d with Oracle Server JRE 8 or Amazon

ning fails when using RSASSA-PSS

- 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 that PingFederate does reject expired SAML metadata as indicated by the `validUntil` attribute value, if it is provided.

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used with the Single log off (SLO)
included with the logout request.
ual server IDs, PingFederate will
covery during an SP-initiated SSO

rough a Composite Adapter instance
ter.

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

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

age (or both), end users must enter date-picker user interface for those

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ning to fail if the `user` or `group` is an OU or within the Users CN.

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

- 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.

or administrators and users. As we
to migrate off of Microsoft 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](#).

SNMP

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ting through the Simple Network

re always enabled and no longer
API.

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 11.0.10 - April 2024

Resolved issues

Rest datastore security vulnerability

Security

PF-34720

Fixed a JSON injection vulnerability in REST datastores described in security advisory

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described in security advisory

security vulnerability

Connect Policy Management Editor

slow log consumption affects performance

Fixed

PF-33368

Fixed a defect that caused performance issues for PingFederate when third-party logging services were slow to consume logging events.

PingFederate 11.0.9 (December 2023)

Resolved issues

PF-29706

Fixed

Fixed a Server-Side Request Forgery vulnerability in the Initial Setup Wizard described in security advisory SECADV041.

PingFederate 11.0.8 (August 2023)

Resolved issues

Logging validation

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described in security advisory

We've resolved a potential security vulnerability that is described in security advisory SECADV037.

PingFederate 11.0.7 (February 2023)

Resolved issues

Server log warnings

Fixed

PF-33037

We've added a warning to server logs if the *ds-pwp-state-json* attribute is not present in PingDirectory's LDAP Response. This warning appears in the log every time a user interacts with the profile management page. Please enable this 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)

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described in security advisory

2022)

IPv6 address issue

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.

Administrative console login

Fixed

PF-32001

PingFederate now recovers from initial connection failure when logging into the administrative console using external LDAP authentication.

User registration defect resolution

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.

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022)

or that relies on an SSL call to an
ascading failures because

PointerException

When using rule matching for fragment nodes, PingFederate no longer raises a `NullPointerException` (NPE) if a fragment fails.

Zero byte archives

Fixed

PF-31966

Resolved an issue that caused PingFederate to generate a zero byte archive when it couldn't read a file in the `<pf_install>/pingfederate/server/default/data` directory.

JWT access token lifetimes

Fixed

PF-31989

When using centralized and dynamically rotating keys for OAuth and OpenID Connect, PingFederate now prevents you from setting the JWT access token lifetime to be longer than the `dynamic-rotation-period-in-days` specified in `<pf_install>/pingfederate/server/default/data/config-store/jwks-endpoint-configuration.xml`.

PingFederate 11.0.3 (May 2022)

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caused by LDAP SDK

stopped responding after a restart, version 6.0.4.

connections when running on Java 8

versions 6.0.0 and newer.

Updated Spring Framework

[Info](#)

PF-31169

Updated Spring Framework to version 5.3.18.

PingFederate 11.0.2 (March 2022)

New features and enhancements

Updated PingOne MFA adapter

[Info](#)

PingOne MFA

Updated the bundled PingOne MFA adapter to version 1.6.

Resolved issues

LDAP connections

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periodically fail during provisioning.

ents in the response payload.

users on iOS to fail when an
fallback that has an existing session.

nCipher mode

Fixed

PF-31064

When running PingFederate in nCipher mode, now the administrative API successfully generates elliptic curve (EC) keys when the optional signatureAlgorithm field is not provided.

TLS 1.3 for inbound connections

Fixed

PF-31112

PingFederate now supports TLS 1.3 for inbound connections when running on Java 8 versions 8u261 and newer.

Symantec VIP Adapter

Fixed

PF-31123

Resolved an issue that prevented PingFederate from using the Symantec VIP Adapter.

LDAP-related performance

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ion lists

ificate revocation lists could take
d authentication was enabled in the
ive users from signing on.

2022)

New features and enhancements

Rolling grace period for refresh tokens

Improved

When PingFederate rotates a refresh token, if the client fails to get the new token, now PingFederate can accept the previous token for the short period that you specify with the **Refresh Token Rolling Grace Period** setting.

Performance improvement

Info

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

Info

PingOne

When configuring the URL of the PingOne home button in the PingFederate administrative console, the `n.properties` supports `Canada` as

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CloudHSM client version 3.4.4.

resolved a potential security vulnerability that is described in security bulletin SECBL021.

Updated Apache Log4j2

Security

PF-30536

Resolved a potential security vulnerability by updating Apache Log4j2 to version 2.17.1.

Authenticating PingDirectory users

Fixed

PF-30557

PingDirectory

Resolved an issue that allowed PingDirectory users to authenticate with expired passwords.

Certificate revocation list checks

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)

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nise directory servers through the
ne complexity of moving to the cloud,
r data.

Administrators can now open the PingOne unified admin from any configuration window in the PingFederate administrative console. To activate the new Home icon, enter the PingOne region and the environment ID in the `run.properties` file.

Management of configuration encryption keys

New

PingFederate maintains a set of configuration encryption keys to encrypt sensitive configuration information provided by the administrators and decrypt them later as needed. While we continue recommending customers to protect their configuration encryption keys by AWS KMS or custom solutions based on the PingFederate SDK (the `MasterKeyEncryptor` interface), we are introducing 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,

sensitive information when importing an
: useful when administrators do not
een the two environments.

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to store certain credentials, such as
: systems and have PingFederate
with internal IT policies or meet and
out-of-the-box with CyberArk
om solutions based on the
connect to other secret management

FAPI 1 Advanced Final certifications

New

Ping Identity remains a solid contributor to the financial-grade API initiatives from the OpenID Foundation. We're proud that PingFederate is a certified implementation of various FAPI 1 Advanced Final profiles, including all profiles under Australia CDR and UK Open Banking and four profiles under Brazil Open Banking. Deploy Open Banking solutions with confidence and rest assured that we will continue to invest in OAuth, OpenID Connect, and FAPI specifications. For more information about OpenID certifications, visit https://openid.net/certification/#FAPI_OPs .

Flexibility in ID token issuance

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 in CDR and FAPI specifications.

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that OAuth clients send to its requests endpoint. As needed, mandatory. This new capability further parameters.

on draft specification  intends to mitigate the scenario where mix up attacks are a potential threat to all OAuth clients

interacting with multiple authorization servers. As needed, administrators can enable this optional capability.

Better private key JWT validation

New

In the context of OAuth client authentication, when processing private key JWTs from applications, PingFederate now ensures that the issuer (`iss`) claim value matches the client ID. This enhancement removes the need to use issuance criteria to enforce this validation requirement.

Message customization in OIDC IdP connection

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.

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ite should always return an array for contains one or multiple values. This ibute values from access tokens or ID

xperience, where administrators can / making our rock-solid capabilities

Individual policy management by API

New

Administrators can now focus solely on one policy without including other policies as part of the API request when managing an individual authentication policy through the administrative API. This simplification improves the API experience and eliminates the risk of making unexpected changes in other authentication policies.

Console heartbeat

New

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

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OST support. Administrators can use the HTTP POST method.

LDAP directory searches. This enables administrators to retrieve from the directory servers that are configured in the configuration file of them.

one or more variables, and administrators can use them, most useful in the configuration file for any values at runtime.

Our upgrade tools now copy customized default templates from the previous installation to the new one. This improvement preserves the end-user experience and branding, making it easier to verify and move forward with version 11 and beyond.

New configuration for dynamic discovery settings

New

Previously, administrators could only define dynamic discovery settings to discover cluster membership in the `server/default/conf/tcp.xml` file. Version 11 provides a new configuration file for these settings, `jgroups.properties` in the `bin` directory. This new approach streamlines future upgrade experiences. For new installations, we recommend defining dynamic discovery settings in the `jgroups.properties` file. While upgraded environments will continue to look for dynamic discovery 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

From version 11, administrators can now choose to enable email ownership verification by one-time link, or by one-time passcode (OTP). This provides a more secure and user-friendly experience. It also helps customers who prefer

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Applications

to pass contextual information, such as from the sign-on requests to the applications to build applications that offer services from their organizations based on

New

Administrators can now ensure Kerberos authentication remains functional for service tickets associated with older Kerberos service account passwords after updating the **Domain/Realm Password** field with a new password in PingFederate. This optional capability increases productivity because workforce identities are no longer required to restart their Windows sessions in order to authenticate via Kerberos.

Contextual information in Session Management API responses

New

The Session Management API now includes IP address and User-Agent information in its responses. Clients with access to this API can learn more 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

remains supported.

ut events in the administrator audit

user-facing pages now time out after
new and upgraded installations. As
Password Update Timeout value
s of their organizations.

bound requests for better

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- Administrators can optionally configure PingFederate to mask values obtained from tracked parameters in the server log. Look for the **MaskTrackedParams** setting in the `org.sourceid.saml20.domain.mgmt.impl.TrackedHttpParamManagerImpl.xml` file.
- Administrators are free to enable the refresh token grant type independently on a per-client basis regardless of whether session validation is enabled in any Access Token Managers.
- Administrators can optionally configure PingFederate to redirect end-users back to the **Sign On** page after successfully updating their soon-to-expire password as part of their SSO requests.
- The **Reuse Existing Persistent Access Grants for Grant Types** authorization server setting is now overridable per client.
- 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.

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the API documentation to Swagger 2.0.

ntations of OGNL expressions.

Velocity template variables, which

Templates	Variables
◦ <code>identifier.first.template.html</code> ◦ <code>html.form.login.challenge.template.html</code> ◦ <code>html.form.login.template.html</code> ◦ <code>html.form.message.template.html</code> ◦ <code>html.form.password.expiring.notification.template.html</code>	◦ <code>\$client_id</code> - The ID of the OAuth client used by the request ◦ <code>\$entityId</code> - The entity ID of the SP connection used by the request ◦ <code>\$connectionName</code> - The name of the SP connection used by the request ◦ <code>\$baseUrl</code> - The base URL of PingFederate instance ◦ <code>\$adapterId</code> - The IdP adapter ID used by the request ◦ <code>\$spAdapterId</code> - The SP adapter ID used by the request

- Updated the following bundled components and third-party dependencies:
 - Jetty 9.4.44

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S

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 as the source to detect new and removed records.

Configuring the `favicon.ico` URL

Fixed

PF-28074

Now PingFederate correctly applies customizations of `response-header-runtime-config.xml` to the `favicon.ico` URL.

Retrieving OAuth clients from Oracle databases

Fixed

PF-28842

Reduced the time it takes for PingFederate to retrieve OAuth clients from Oracle databases.

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appear in the administrative console
ers or service provider adapters.

Authentication API

Authentication API for registration failure

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

When a proxy is in front of PingFederate, the Multiple Sign-On Delay template now redirects to the correct port.

Logging XMLCipher::decryptElement called without a key and unable to resolve

Fixed

PF-29352

As a service provider (SP), when PingFederate can't decrypt an assertion using the primary encryption certificate, it now logs the following message at the WARN level instead of the ERROR level: "XMLCipher::decryptElement called without a key and unable to resolve".

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web server URI mishandling.

m endpoints

/pf-ws and /pf-scim endpoints.

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-error.html` template instead of the custom template specified in the **Password Reset Error Template** field for the HTML Form Adapter.

Partial matches for resource URIs with OAuth 2.0 Token Exchange

Fixed

PF-29668

Resolved an issue that prevented the use of partial matches for resource URIs with OAuth 2.0 Token Exchange and produced the error message: "Unable to find a token generation policy instance to issue a token".

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source lookup but do not use the
issuance criteria, the attribute persists

Consistent grant storage

Grant storage now creates an index

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 those fields but they do nothing.

Target resources that don't start with `http://` or `https://`

Fixed

PF-30002

Now target resources that don't start with `http://` or `https://` are also available for mapping and issuance criteria.

Response code for an invalid transport method

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Instead of `500 Internal Server Error`, the response for an invalid transport method. For example, calling `POST /api/v1/issuance/criteria` returns `400 Bad Request`.

Filterable dropdown controls

A message when you try to create an instance of a filterable dropdown controls,

Certificate 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

- `/sp/idpConnections`: For identity provider (IdP) connections, the administrative API connection support is limited to Browser SSO, WS-Trust STS, and OAuth Assertion Grant connections. As a result, when updating an IdP connection using the administrative API, it is possible to lose inbound provisioning settings previously configured using the administrative console.
- `/bulk`: Only resource types currently supported by the administrative API are included in the exported data. Resources not yet supported include:
 - Identity Store Provisioners
 - Inbound provisioning settings from IdP connections

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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 v bulk export after upgrading to vly exported data does not contain ort it to version 10.0.3 (or a more

entication, administrators often ers. When an administrator uses a ve API documentation, PingFederate rs as part of the TLS handshake. If tiple 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 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

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browser is redirected to the login page, authentication is complete. Similar principle. However, because the date for authentication, the browser not the login page.

versions earlier than 8u261), `IllegalArgumentException` exception. To resolve this, update the `run.properties` file:

- `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.

Updating Java 8 to Java 11

Issue

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`.

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must be deployed with Oracle

tic curve (EC) certificate as an SSL

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

- 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 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 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.

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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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Provisioning may fail if the `user` or `group` attribute is not defined in an OU or within the Users CN.

The `count` attribute indicates the number of results returned by the LDAP server. The `estimatedResults` attribute indicates the estimated results on the LDAP server.

When using an IdP adapter or IdP, the OAuth's persistent grant `USER_KEY` is stored 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 s. IPv6 is not supported.

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or administrators and users. As we customers to migrate off of Microsoft Internet Explorer 11 is no longer administrators or users. For a list of

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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are always enabled and no longer
API.

y protocol has been deprecated.
lead use NATIVE_S3_PING.

[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

Find information about enhancements and issues resolved in previous releases of PingFederate in the [Ping Documentation Archive](#).

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