Apache Airflow

Content

`apache-airflow-providers-ssh`

Changelog ¶

7.0.1 ¶

Release Date: `2026-10-24`

Bug Fixes ¶

- `Fix 'SSHRemoteJobOperator' mangling environment values with spaces or shell characters (#74810)`

7.0.0 ¶

Release Date: `2026-10-13`

Warning

The `no_host_key_check` connection extra now defaults to `false`. A connection to a host that has no entry in the known hosts file is refused unless host key verification is disabled explicitly or a `host_key` is supplied in the connection's extra field.

The previously undocumented `ignore_hostkey_verification` extra is now honoured as a deprecated alias for `no_host_key_check` and emits a `DeprecationWarning`. It had no effect before: connections that set it were relying on the old permissive default rather than on the setting itself.

Breaking changes ¶

- `Verify SSH host keys by default in SSH and SFTP hooks (#73419)`

Bug Fixes ¶

- `Fix SSH commands failing when the task holds over 1024 file descriptors (#74211)`

Misc ¶

- `Drop support for Python 3.10 (#74157)`

Doc-only ¶

- `Update provider READMEs for the Python 3.11 baseline (#74158)`

6.1.0 ¶

Release Date: `2026-09-29`

Features ¶

- `Template every connection id accepted by provider operators (#73286)`

6.0.1 ¶

- `Fix SSHRemoteJobOperator cleanup failing with custom remote_base_dir (#69885)`
- `Quote remote job paths in posix ssh command builders (#70091)`
- `Keep SSH remote job running when its PTY session hangs up (#70573)`
- `Fix template-field validation timing in ssh provider operators (#70315)`

Misc ¶

- `Support Paramiko 5 (#69712)`

6.0.0 ¶

Release Date: `2026-07-28`

Breaking changes ¶

- `Bump minimum paramiko to 4.0.0; DSA/DSS private keys and ssh-dss host keys are no longer supported (#69669)`

  Paramiko 4.0 removed DSS/DSA support; see paramiko changelog for upstream details. If you use a DSA private key in an SSH connection, generate a new key (for example `ssh-keygen -t ed25519` or `-t rsa`), install the public key on the server, and point your Airflow connection at the new key file or `private_key` extra. If you pin the remote host with a `host_key` extra in `ssh-dss` form, obtain the server's current RSA, ECDSA, or Ed25519 host key and replace the value. The same constraints apply to SFTP connections that rely on paramiko via the SSH provider.

Bug Fixes ¶

- `Fix SSHRemoteJobOperator still orphaning the remote job on cancellation (#69490)`

Bug Fixes ¶

- `Fix 'SSHRemoteJobOperator' orphaning the remote job on cancellation (#68644)`

5.0.3 ¶

Release Date: `2026-06-22`

Bug Fixes ¶

- `Reduce SSH connection churn in 'SSHRemoteJobOperator' under high fan-out (#68115)`

5.0.2 ¶

Release Date: `2026-05-23`

Misc ¶

- `Use contextlib.suppress instead of try-except-pass in providers (#66178)`

5.0.1 ¶

Release Date: `2026-04-26`

Misc ¶

- `Bump paramiko lower bound to >=3.5.1 due to adding Vespa provider (#63988)`

5.0.0 ¶

Breaking changes ¶

- `Replace 'sshtunnel' with native paramiko/asyncssh tunneling (#64299)`

With this change we provide minimal backward compatibility shim, Rather than fully re-implementing SSHTunnelForwarder's API surface. While most of the usages of the get_tunnel() method in the codebase should work without modifications - some of the more advanced use cases might require code changes, user need to inspect changes between the old SSHTunnelForwarder and SSHTunnel class if they used advanced featured of the forwarder.

The details and suggestion of the code changes are explained by the deprecation/ errors when the properties are used.

The SSHTunnel provides:

- Context manager (enter/exit) - the recommended interface
- .start()/.stop() - deprecated, emit AirflowProviderDeprecationWarning
- .local_bind_port and .local_bind_address - preserved as properties
- getattr - raises AttributeError with migration hint for
- SSHTunnelForwarder-specific attributes (e.g., tunnel_is_up, ssh_host)

AsyncSSHTunnel is a thin wrapper that:

- Manages the lifecycle (listener + SSH connection cleanup in `aexit`)
- Exposes .local_bind_port via listener.get_port()
- Handles cleanup on `aenter` failure (closes SSH connection if forward_local_port raises)
- Follows the async with await hook.get_tunnel(…) pattern
- Eager socket binding in constructor

Bug Fixes ¶

- `Fix SSHHookAsync defaulting no_host_key_check to False unlike SSHHook (#64225)`

Misc ¶

4.3.3 ¶

Release Date: `2026-03-28`

Misc ¶

- `Add Python 3.14 Support (#63520)`

4.3.2 ¶

Release Date: `2026-03-13`

Misc ¶

- `Bump minimum cryptography to 44.0.3 and paramiko to 3.4.0 (#62723)`

4.3.1 ¶

Release Date: `2026-02-02`

Misc ¶

- `Use common provider's get_async_connection in other providers (#56791)`

4.3.0 ¶

Release Date: `2026-01-17`

Features ¶

- `Add ''SSHRemoteJobOperator'' for resilient remote job execution (#60297)`

- `Migrate ssh provider to use airflow.sdk.configuration.conf (#59981)`

4.2.1 ¶

Release Date: `2025-12-13`

Misc ¶

- `Add backcompat for exceptions in providers (#58727)`

4.2.0 ¶

Release Date: `2025-12-02`

> ! Note
>
> This release of provider is only available for Airflow 2.11+ as explained in the Apache Airflow providers support policy <https://github.com/apache/airflow/blob/main/PROVIDERS.rst#minimum-supported-version-of-airflow-for-community-managed-providers>_.

Misc ¶

- `Move out some exceptions to TaskSDK (#54505)`
- `Bump minimum Airflow version in providers to Airflow 2.11.0 (#58612)`
- `Remove SDK reference for NOTSET in Airflow Core (#58258)`
- `Fix lower bound dependency to common-compat provider (#58833)`

4.1.6 ¶

Release Date: `2025-11-17`

Misc ¶

Doc-only ¶

- `[Doc] Fixing some typos and spelling errors (#57225)`
- `Fixing some typos and spelling errors (#57186)`

4.1.5 ¶

Release Date: `2025-10-26`

Bug Fixes ¶

- `Pass required remote_host arg to SSHHook (#55664)`

Misc ¶

- `Migrate ssh provider to ''common.compat'' (#57004)`

Doc-only ¶

- `Remove placeholder Release Date in changelog and index files (#56056)`

4.1.4 ¶

Release Date: `2025-09-22`

Misc ¶

- `Switch all airflow logging to structlog (#52651)`

4.1.3 ¶

Release Date: `2025-08-11`

4.1.2 ¶

Release Date: `2025-08-02`

Misc ¶

- `Add Python 3.13 support for Airflow. (#46891)`
- `Remove type ignore across codebase after mypy upgrade (#53243)`
- `Cleanup type ignores in ssh provider where possible (#53257)`
- `Remove upper-binding for "python-requires" (#52980)`
- `Temporarily switch to use >=,< pattern instead of '~=' (#52967)`
- `Move all BaseHook usages in providers to version_compat in ssh (#52780)`

4.1.1 ¶

Release Date: `2025-07-06`

Misc ¶

- `Move 'BaseHook' implementation to task SDK (#51873)`
- `Provider Migration: Replace 'BaseOperator' to Task SDK for 'ssh' (#52558)`
- `Drop support for Python 3.9 (#52072)`

4.1.0 ¶

Release Date: `2025-05-18`

> ! Note
>
> This release of provider is only available for Airflow 2.10+ as explained in the Apache Airflow providers support policy <https://github.com/apache/airflow/blob/main/PROVIDERS.rst#minimum-supported-version-of-airflow-for-community-managed-providers>_.

4.0.1 ¶

Release Date: `2025-03-13`

Bug Fixes ¶

- `Make command for replacing newlines with literals '\n' in 'SSHOperator'connection MacOs/Linux compatible (#47491)`

Misc ¶

- `Upgrade flit to 3.11.0 (#46938)`

4.0.0 ¶

Release Date: `2024-12-26`

> ! Note
>
> This release of provider is only available for Airflow 2.9+ as explained in the Apache Airflow providers support policy.

Breaking changes ¶

> ! Warning
>
> **All deprecated classes, parameters and features have been removed from the SSH provider package. The following breaking changes were introduced:**
>
> - **`Hooks`**
>   - **Remove attribute `timeout` from `airflow.providers.ssh.hooks.ssh.SSHHook`. Use parameter `conn_timeout` instead.**
>   - **The context manager of `SSHHook` is deprecated. Please use `get_conn()` as a context manager instead.**

- `operators`
  - **The deprecated `get_hook()` method is removed in `airflow.providers.ssh.operators.ssh.SSHOperator`. Please use `hook` attribute instead.**
  - **Deprecated `exec_ssh_client_command()` method on SSHOperator is removed, call `ssh_hook.exec_ssh_client_command()` instead**

- `Remove Provider Deprecations in SSH (#44544)`

Features ¶

- `Add host_proxy_cmd parameter to SSHHook and SFTPHook (#44565)`

Misc ¶

- `Bump minimum Airflow version in providers to Airflow 2.9.0 (#44956)`
- `Remove XCom pickling (#43905)`

3.14.0 ¶

Release Date: `2024-10-31`

Features ¶

- `SSHHook expose auth_timeout parameter (#43048)`

3.13.1 ¶

Release Date: `2024-08-28`

Bug Fixes ¶

3.13.0 ¶

Release Date: `2024-08-22`

> ! Note
>
> This release of provider is only available for Airflow 2.8+ as explained in the Apache Airflow providers support policy.

Misc ¶

- `Bump minimum Airflow version in providers to Airflow 2.8.0 (#41396)`

3.12.0 ¶

Release Date: `2024-08-06`

Features ¶

- `Add on kill to ssh (#40377)`

3.11.2 ¶

Release Date: `2024-06-27`

Misc ¶

- `implement per-provider tests with lowest-direct dependency resolution (#39946)`

3.11.1 ¶

Release Date: `2024-05-30`

Misc ¶

3.11.0 ¶

Release Date: `2024-05-06`

> ! Note
>
> This release of provider is only available for Airflow 2.7+ as explained in the Apache Airflow providers support policy.

Misc ¶

- `Bump minimum Airflow version in providers to Airflow 2.7.0 (#39240)`

3.10.1 ¶

Release Date: `2024-02-15`

Misc ¶

- `feat: Switch all class, functions, methods deprecations to decorators (#36876)`

3.10.0 ¶

Release Date: `2023-12-27`

Features ¶

- `Add skip_on_exit_code to SSHOperator (#36303)`

Bug Fixes ¶

- `Allow SSHOperator.skip_on_exit_code to be zero (#36358)`
- `Follow BaseHook connection fields method signature in child classes (#36086)`

3.9.0 ¶

Release Date: `2023-12-12`

> ! Note
>
> This release of provider is only available for Airflow 2.6+ as explained in the Apache Airflow providers support policy.

Misc ¶

- `Bump minimum Airflow version in providers to Airflow 2.6.0 (#36017)`

3.8.1 ¶

Release Date: `2023-10-31`

Misc ¶

- `Consolidate stacklevel in ssh operator warning (#35151)`

3.8.0 ¶

Release Date: `2023-10-17`

> ! Note
>
> This release of provider is only available for Airflow 2.5+ as explained in the Apache Airflow providers support policy.

Misc ¶

- `Bump min airflow version of providers (#34728)`
- `add warn stacklevel=2 to ssh hook (#34527)`

Misc ¶

- `Use literal dict instead of calling dict() in providers (#33761)`
- `E731: replace lambda by a def method in Airflow providers (#33757)`

3.7.2 ¶

Release Date: `2023-08-29`

Misc ¶

- `Use str.splitlines() to split lines in providers (#33593)`
- `Simplify conditions on len() in other providers (#33569)`

3.7.1 ¶

Release Date: `2023-06-23`

> ! Note
>
> This release dropped support for Python 3.7

Misc ¶

- `Remove Python 3.7 support (#30963)`

3.7.0 ¶

Release Date: `2023-05-22`

> ! Note
>
> This release of provider is only available for Airflow 2.4+ as explained in the Apache Airflow providers support policy.

3.6.0 ¶

Release Date: `2023-04-06`

Features ¶

- `SSHOperator - Restore ability to override SSHHook cmd_timeout (#30190)`

3.5.0 ¶

Release Date: `2023-03-06`

Features ¶

- `SSH Provider: Add cmd_timeout to ssh connection extra (#29347)`

3.4.0 ¶

Release Date: `2023-01-05`

Features ¶

- `Add .bash and other extensions to SSHOperator template_ext (#28617)`
- `Add test_connection method for SSHHook (#28184)`
- `SSH task exit code added to XCOM as 'ssh_exit' key (#27370)`

Misc ¶

- `Remove outdated compat imports/code from providers (#28507)`
- `[misc] Get rid of 'pass' statement in conditions (#27775)`

Note

This release of provider is only available for Airflow 2.3+ as explained in the Apache Airflow providers support policy.

Misc ¶

- `Move min airflow version to 2.3.0 for all providers (#27196)`

Features ¶

- `Added docs regarding templated field (#27301)`
- `Added environment to templated SSHOperator fields (#26824)`
- `Apply log formatter on every output line in SSHOperator (#27442)`

Bug Fixes ¶

- `A few docs fixups (#26788)`
- `SSHOperator ignores cmd_timeout (#27182) (#27184)`

3.2.0 ¶

Release Date: `2022-10-01`

Features ¶

- `feat: load host keys to save new host key (#25979)`

3.1.0 ¶

Release Date: `2022-07-16`

Features ¶

Bug Fixes ¶

- `Update providers to use functools compat for ''cached_property'' (#24582)`

3.0.0 ¶

Release Date: `2022-06-13`

Breaking changes ¶

> ! Note
>
> This release of provider is only available for Airflow 2.2+ as explained in the Apache Airflow providers support policy.

Features ¶

- `Add disabled_algorithms as an extra parameter for SSH connections (#24090)`

Bug Fixes ¶

- `fixing SSHHook bug when using allow_host_key_change param (#24116)`

2.4.4 ¶

Release Date: `2022-05-16`

Bug Fixes ¶

- `Add exception to catch single line private keys (#23043)`

2.4.3 ¶

Release Date: `2022-03-26`

2.4.2 ¶

Release Date: `2022-03-19`

Misc ¶

- `Add Trove classifiers in PyPI (Framework :: Apache Airflow :: Provider)`

2.4.1 ¶

Release Date: `2022-03-10`

Misc ¶

- `Support for Python 3.10`

2.4.0 ¶

Release Date: `2022-02-13`

Features ¶

- `Add a retry with wait interval for SSH operator (#14489)`
- `Add banner_timeout feature to SSH Hook/Operator (#21262)`
- `Add a retry with wait interval for SSH operator #14489 (#19981)`
- `Delay the creation of ssh proxy until get_conn() (#20474) (#20474)`

2.3.0 ¶

Release Date: `2021-11-04`

- `update minimum version of sshtunnel to 0.3.2 (#18684)`
- `Correctly handle get_pty attribute if command passed as XComArg or template (#19323)`

2.2.0 ¶

Release Date: `2021-10-05`

Features ¶

- `[Airflow 16364] Add conn_timeout and cmd_timeout params to SSHOperator; add conn_timeout param to SSHHook (#17236)`

2.1.1 ¶

Release Date: `2021-09-03`

Misc ¶

- `Optimise connection importing for Airflow 2.2.0`

2.1.0 ¶

Release Date: `2021-08-02`

Features ¶

- `Add support for non-RSA type key for SFTP hook (#16314)`

Bug Fixes ¶

2.0.0 ¶

Release Date: `2021-06-23`

Breaking changes ¶

- `Auto-apply apply_default decorator (#15667)`

> **Warning**
>
> **Due to apply_default decorator removal, this version of the provider requires Airflow 2.1.0+. If your Airflow version is < 2.1.0, and you want to install this provider version, first upgrade Airflow to at least version 2.1.0. Otherwise your Airflow package version will be upgraded automatically and you will have to manually run `airflow upgrade db` to complete the migration.**

Bug Fixes ¶

- `Display explicit error in case UID has no actual username (#15212)`

1.3.0 ¶

Release Date: `2021-04-13`

Features ¶

- `A bunch of template_fields_renderers additions (#15130)`

1.2.0 ¶

Release Date: `2021-03-07`

Features ¶

1.1.0 ¶

Release Date: `2021-02-08`

Updated documentation and readme files.

Features ¶

- `[AIRFLOW-7044] Host key can be specified via SSH connection extras. (#12944)`

1.0.0 ¶

Release Date: `2020-12-14`

Initial version of the provider.

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