

# Jive Provisioner



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# Jive Provisioner

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The PingFederate Jive Provisioner enables an enterprise to provision Users and Groups to Jive. A quick connection template is also included to simplify the configuration of Single Sign-On (SSO).

- For more information on Jive, see [the Jive website](#).

## Features

- Browser-based SP- and IdP-initiated SSO
- Outbound user and group provisioning

## Intended audience

This document is intended for PingFederate administrators.

If you need help during the setup process, see the following sections of the PingFederate documentation:

- [SP connection management](#)
- [Identity provider SSO configuration](#)
- [Datastores](#)
- [Configuring outbound provisioning](#)
- [Configuring outbound provisioning settings](#)

## System requirements

- PingFederate 7.3 (or later) with Java 8
- Might require the following endpoints to be whitelisted on the firewall to allow outbound connections:
  - [https://<Customer\\_Jive\\_Domain>.com](https://<Customer_Jive_Domain>.com)

# User and group management

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The Jive Provisioner synchronizes users and groups from your datastore to Jive. The behavior of each provisioning capability is described below.

You can configure these capabilities in the [Configure provisioning](#) on page 7 step of the setup process.

## Synchronizing existing users

PingFederate synchronizes users based on the `Username` attribute in Jive. If a user already exists in your datastore and Jive, mapping this attribute correctly links the two records together.

For example:

- In Jive, Janet's `Username` is `jsmith`.
- In your datastore, Janet's `sAMAccountName` is `jsmith`.
- On the **Attribute Mapping** tab of your provisioning connection configuration, you map the `Username` attribute to `sAMAccountName`.
- When the provisioning connector runs, the datastore user is provisioned with a `Username` of `jsmith`. That matches Janet's existing `Username` in Jive, so her information in the datastore is synchronized to her Jive account.

## User provisioning

PingFederate provisions users when one of the following happens:

- A user is added to the datastore group or filter that is targeted by the provisioning connector.
- A user with "disabled" status is added to the datastore group or filter that is targeted by the provisioning connector, and the **Provision disabled users** provisioning option is enabled.

The **Source Location** tab of your provisioning connection configuration defines which users PingFederate targets for provisioning.

## User updates

PingFederate updates users when a user attribute changes in your datastore.

The **Attribute Mapping** tab of your provisioning connection configuration defines which attributes PingFederate monitors for changes.

## User deprovisioning

PingFederate deprovisions users when one of the following happens:

- A user is deleted from the user store.
- A user is disabled in the user store.
- A user is removed from the datastore group or filter that is targeted by the provisioning connector.

The **Remove User Action** setting in your provisioning connection configuration defines whether PingFederate disables or deletes the user.

## Synchronizing existing groups

PingFederate synchronizes groups from the datastore to the target service based on the group name.

For example:

- In Jive, there is a group is named `Accounting`.
- In your datastore, there is a group with a CN of `Accounting`.
- When the provisioning connector runs, the two groups are synchronized.

## Group provisioning

PingFederate provisions groups when a group is added to the datastore filter that is targeted by the provisioning connector.

The **Source Location** tab in your provisioning connection configuration defines which groups PingFederate targets for provisioning and monitors for changes.

## Group name updates

PingFederate renames groups when they are renamed in the datastore.

## Group membership updates

PingFederate updates group memberships when memberships change in the datastore, whether the change is in the group's properties or a user's properties.

Group memberships in the datastore overwrite the group memberships in Jive.

## Group deletion

PingFederate deletes groups when any of the following happen:

- The group is deleted in the datastore.

- The group is removed from the datastore group or filter that is targeted by the provisioning connector. Group deletions are permanent and cannot be undone.

## Setup

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### Obtain your Jive Admin credentials

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#### About this task

Obtain your Jive administrative user for your organization that can be used for authentication. The username and password should correspond to a user in a Jive community that has sufficient permissions for the Jive connector to create users and groups within Jive.

#### To update system administrator permissions:

#### Steps

1. Log into **Jive Admin Console** as an administrative user for your organization.
2. Select the **Permissions** menu option.
3. Select **System Administrators**.
4. Click **Edit Permissions** for the administrative user.
5. Modify permissions if needed to allow the creation of users and groups.

#### Next steps



#### Note:

If you wish to track the Jive audit logs for each provisioning transaction, we recommend that you create a new administrative user for Ping provisioning. The administrative user should not be managed through the provisioner and not deleted.

Deleting the administrative user that is set up for provisioning may lead to undesired consequences since the provisioner makes the admin user the owner of and a member of each group that is created by the provisioner.

### Download Jive SAML 2.0 metadata file

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#### About this task

This Connector's quick-connection template uses a metadata XML file from Jive to assist in configuring many settings in the SP Connection such as SSO endpoints and certificates that are required. When asked during the SP Connection configuration steps, import the saml-metadata.xml that you have downloaded from Jive.

#### To download the SAML 2.0 Metadata file for Jive:

#### Steps

1. Log into **Jive Admin Console** as an administrative user for your organization.
2. Select the **People** menu option.
3. Select **Single Sign-On**.

4. Select the **SAML** tab.
5. Click the **Download Jive SP Metadata** link to download the `saml-metadata.xml` file.

## Install the connector

---

### About this task

This section describes the common steps required to install the PingFederate Jive Connector.

### Steps

1. Stop the PingFederate server if it is running.
2. Unzip the Jive Connector distribution `.zip` archive.
3. Copy the contents of the `dist` directory into the directory:  

```
<pf_install>/pingfederate/server/default/deploy
```
4. Optional: If you plan to use the connector for Outbound Provisioning, edit the `run.properties` file located in `<pf_install>/pingfederate/bin`, changing the property `pf.provisioner.mode` to `STANDALONE`. For example:

```
pf.provisioner.mode=STANDALONE
```

**Note:** For information about using the `FAILOVER` setting for runtime deployment, see [Deploying Provisioning Failover](#).

5. Start the PingFederate server.

## Enable outbound provisioning

---

### About this task

After enabling outbound provisioning in the `<pf_install>/pingfederate/bin/run.properties` file, you must also activate the outbound provisioning role in the administrative console.

### Steps

1. Go to the **Server Configuration # Server Settings # Roles & Protocol** screen.

## 2. Select the **Outbound Provisioning** check box.

### Server Settings

System Administration	System Info	Runtime Notifications	Runtime Reporting	Account Management	Roles & Protocols
Federation Info	System Options	<b>Outbound Provisioning</b>	Metadata Signing	Metadata Lifetime	Summary

Select the role(s) and protocol(s) that you intend to use with your federation partners.

ENABLE OAUTH 2.0 AUTHORIZATION SERVER (AS) ROLE

ENABLE IDENTITY PROVIDER (IDP) ROLE AND SUPPORT THE FOLLOWING:

SAML 2.0

AUTO-CONNECT PROFILE

SAML 1.1

SAML 1.0


WS-FEDERATION

**OUTBOUND PROVISIONING**

WS-TRUST

ENABLE SERVICE PROVIDER (SP) ROLE AND SUPPORT THE FOLLOWING:

ENABLE IDP DISCOVERY ROLE (SAML 2.0 ONLY)

 **Note:** Enabling Outbound Provisioning adds the outbound provisioning screen, requiring the selection of a database to facilitate provisioning. For more information, see [Configuring outbound provisioning settings](#) in the PingFederate documentation.

## Configure provisioning

### About this task

To configure a connection for outbound provisioning to Jive, please follow the instructions in this section.

Outbound provisioning details are managed within an SP connection. You can configure outbound provisioning with or without Browser SSO, WS-Trust STS, or both when you create a new SP connection. You also have the option to add outbound provisioning to an existing SP connection.

### Steps

1. In the PingFederate administrator console, configure the data store that PingFederate will use as the source of user data. For instructions, see [Datastores](#) in the PingFederate documentation.
  - When targeting users and groups for provisioning, exclude the user account that you will use to administer users in your connection to Jive. This prevents the PingFederate provisioning engine from interfering with the account that provisions users and groups.
2. Create a new SP connection or select an existing SP connection from the **SP Configuration** menu.
3. On the **Connection Template** screen, select the **Use a template for this connection** option and choose **Jive Connector** from the **Connection Template** drop-down list. You will be asked to provide

the `saml-metadata.xml` file you obtained earlier in [Download Jive SAML 2.0 metadata file](#) on page 5.

### SP Connection

Connection Template	Connection Type	Connection Options	Import Metadata	General Info	Browser SSO
Credentials	Activation & Summary				

PingFederate provides quick-configuration templates, available separately with SaaS Connectors, for specific Service Providers. If applicable, please select a template for this connection; otherwise, continue to the next screen for more options.

DO NOT USE A TEMPLATE FOR THIS CONNECTION

USE A TEMPLATE FOR THIS CONNECTION

CONNECTION TEMPLATE

Click Browse below to locate the SAML 2.0 metadata file for Jive

METADATA FILE

**Tip:** If this selection is not available, verify the Connector installation and restart PingFederate.

- On the **Connection Type** screen, ensure the **Outbound Provisioning** checkbox is selected, and the **Browser SSO Profiles** checkbox is unselected (if appropriate).
- On the **General Info** screen, the default values are taken from the metadata file you selected in an earlier step. We recommend using these default values.

### SP Connection

Connection Template	Connection Type	Connection Options	General Info	Browser SSO	Credentials
Outbound Provisioning	Activation & Summary				

This information identifies your partner's unique connection identifier (Connection ID). Connection Name represents the plain-language identifier for this connection. Optionally, you can specify multiple virtual server IDs for your own server to use when communicating with this partner. If set, these virtual server IDs will be used in place of the unique protocol identifier configured for your server in Server Settings. The Base URL may be used to simplify configuration of partner endpoints.

PARTNER'S ENTITY ID (CONNECTION ID)

CONNECTION NAME

VIRTUAL SERVER IDS

BASE URL

COMPANY

- Follow the connection wizard to configure the connection.
- On the **Outbound Provisioning** screen, click **Configure Provisioning**.



8. On the **Target** screen, enter the values for each field as required by the Jive Connector.

### SP Connection | Configure Channels

Target

Manage Channels

Specify credentials and/or other connection details that PingFederate will use to access the target service provider for outbound provisioning.

Provisioning Target	Jive Connector
DOMAIN	<input type="text" value="INSTANCE_SUBDOMAIN.jiveon.com"/>
USERNAME	<input type="text"/>
PASSWORD	<input type="password"/>
GROUP TYPE	<input type="text" value="OPEN"/>
<b>PROVISIONING OPTIONS</b>	
	<input checked="" type="checkbox"/> USER CREATE
	<input checked="" type="checkbox"/> USER UPDATE
	<input checked="" type="checkbox"/> USER DISABLE
	<input checked="" type="checkbox"/> PROVISION DISABLED USERS

#### Target screen options

Field Name	Description
Domain	The tenant domain for the Jive customer instance (e.g. instance_subdomain.jivesoftware.com).
Username	The username of Jive's admin user.
Password	The password of Jive's admin user.
Group Type	A group's type (open, members only, private and secret) determines who can join, see content, participate, and invite new members. Note that you cannot see Secret groups in Jive unless you are a member of the group. For more information see <a href="#">Types of Groups</a> in the Jive documentation.
<b>Provisioning Options</b>	
User Create	<p><b>True</b> (default) – Users will be created in Jive.</p> <p><b>False</b> – Users will not be created in Jive.</p> <p><b>Note:</b> The provisioner.log will display a warning within the create user workflow that the user was not created in Jive.</p>

Field Name	Description
User Update	<p><b>True</b> (default) – Users will be updated in Jive. PingFederate can also re-enable disabled users.</p> <p><b>False</b> – Users will not be updated in Jive.</p> <p><b>Note:</b> The provisioner.log will display a warning within the update user workflow that the user was not updated in Jive.</p>
User Disable	<p><b>True</b> (default) – Users will be disabled in Jive.</p> <p><b>Note:</b> A disabled user can only be re-enabled if <b>User Update</b> is true.</p> <p><b>False</b> – Users will not be disabled in Jive.</p> <p><b>Note:</b> The provisioner.log will display a warning within the disable user workflow that the user was not disabled in Jive.</p>
Provision Disabled Users	<p>This option is only applicable if User Create is set to True.</p> <p><b>True</b> (default) – If a disabled user in the user store is targeted for provisioning, it will be created in a disabled state in Jive.</p> <p><b>False</b> – If a disabled user in the user store is targeted for provisioning, it will be not be created in Jive.</p> <p><b>Note:</b> The provisioner.log will display a warning within the create user workflow indicating that the user was not created in Jive.</p>

9. Click **Next** to continue the provisioning configuration. For more information, see the following sections under *Outbound provisioning for IdPs* in the PingFederate documentation:

- [Managing channels](#)
- [Specifying channel information](#)
- [Identifying the source datastore](#)
- [Modifying source settings](#)
- [Specifying a source location](#)
- [Mapping attributes](#)
- [Reviewing channel settings](#)

**Note:** Credentials will be verified when the channel and SP connection is set to Active and provisioning is initiated.

**Tip:** If you are not ready to complete the provisioning configuration, you can click **Save** and return to the configuration page later (from the Manage Connections page – select **Manage All SP** on the Main Menu).

## Supported attributes reference

The following table consists of the attributes that can be mapped for user provisioning. For more information on available attributes see [the Jive user documentation](#).

Attribute	Description
userName	Jive's unique identifier for the user. A userName cannot be updated. <b>This attribute is required.</b>
givenName	The given name of the user, or first name in most Western languages (e.g., 'Barbara' given the full name 'Ms. Barbara Jane Jensen, III'). <b>This attribute is required.</b>
familyName	The family name of the user, or last name in most Western languages (e.g., 'Jensen' given the full name 'Ms. Barbara Jane Jensen, III'). <b>This attribute is required.</b>
workEmail	Work email for the user (e.g., "bjensen@example.com"). <b>This attribute is required.</b>
password	The password for the user. This allows a password to be set or updated when a person is created or updated. <b>This attribute is required.</b>
locale	Used to indicate the user's default location and will typically be either language (en) or language_country (en_US). Consult the Locale Metadata service for locales supported by this Jive instance. Note: Only present when this Jive instance allows users to manage their own locale settings.
timeZone	The user's time zone, in IANA Time Zone database format (e.g., 'America/Los_Angeles'). Consult the Time Zone Metadata service for time zones supported by this Jive instance. Note: Only present when this Jive instance allows users to manage their own time zone settings.
workPhone	The work phone number for the user (e.g., "+1-201-555-0123").
externalContributor	The flag indicating if this user is an external contributor. (Default is 'false'). Note: Can only be set to true if the external contributors feature has been enabled on this Jive instance.
federated	The flag indicating if this user is managed outside the Jive application. (Default is 'false').

Attribute	Description
location	The geographic location for the user.

## Configure PingFederate for SSO

### About this task

The following section describes the steps for configuring single sign-on (SSO) to Jive. Configuring SAML SSO involves both configuring PingFederate SP connection and the Jive SSO Screens.

**Note:** Configuring SSO is optional and not required for outbound provisioning.

### To configure PingFederate for SSO:

#### Steps

1. Create a new SP connection or select an existing SP connection from the **SP Configuration** menu.
2. On the **Connection Template** screen, select the **Use a template for this connection** option and choose **Jive Connector** from the **Connection Template** drop-down list. You will be asked to provide the `saml-metadata.xml` file you obtained earlier in [Download Jive SAML 2.0 metadata file](#) on page 5.

#### SP Connection

Connection Template	Connection Type	Connection Options	Import Metadata	General Info	Browser SSO
Credentials	Activation & Summary				

PingFederate provides quick-configuration templates, available separately with SaaS Connectors, for specific Service Providers. If applicable, please select a template for this connection; otherwise, continue to the next screen for more options.

DO NOT USE A TEMPLATE FOR THIS CONNECTION  
 USE A TEMPLATE FOR THIS CONNECTION

CONNECTION TEMPLATE: Jive Connector

Click Browse below to locate the SAML 2.0 metadata file for Jive

METADATA FILE: saml-metadata Choose file

**Tip:** If this selection is not available, verify the Connector installation and restart PingFederate.

3. On the **Connection Type** screen, ensure that the **Browser SSO Profiles** checkbox is selected.

- On the **General Info** screen, the default values are taken from the metadata file you selected in an earlier step. We recommend using these default values.

#### SP Connection

Connection Template	Connection Type	Connection Options	General Info	Browser SSO	Credentials
Outbound Provisioning	Activation & Summary				
<p>This information identifies your partner's unique connection identifier (Connection ID). Connection Name represents the plain-language identifier for this connection. Optionally, you can specify multiple virtual server IDs for your own server to use when communicating with this partner. If set, these virtual server IDs will be used in place of the unique protocol identifier configured for your server in Server Settings. The Base URL may be used to simplify configuration of partner endpoints.</p>					
PARTNER'S ENTITY ID (CONNECTION ID)	<input type="text" value="https://INSTANCE_SUBDOMAIN.jiveon.ci"/>				
CONNECTION NAME	<input type="text" value="JIVE_DOMAIN"/>				
VIRTUAL SERVER IDS	<input type="text"/> <input type="button" value="Add"/>				
BASE URL	<input type="text" value="https://INSTANCE_SUBDOMAIN.jiveon.com"/>				
COMPANY	<input type="text"/>				

- Click **Next** to continue the Browser SSO configuration. For more information, see the following sections under [Identity provider SSO configuration](#):

- [Managing IdP adapters](#)
- [Configure IdP Browser SSO](#)
- [Configuring credentials](#)

- On the **Browser SSO > SAML Profiles** screen, ensure that the IdP-Initiated SSO and SP-Initiated SSO profiles are selected and click **Next**.

#### SP Connections | SP Connection | Browser SSO

SAML Profiles	Assertion Lifetime	Assertion Creation	Protocol Settings	Summary
<p>A SAML Profile defines what kind of messages may be exchanged between an Identity Provider and a Service Provider, and how the messages are transported (bindings). As an IdP, you configure this information for your SP connection.</p>				
Single Sign-On (SSO) Profiles		Single Logout (SLO) Profiles		
<input checked="" type="checkbox"/> IDP-INITIATED SSO	<input type="checkbox"/> IDP-INITIATED SLO			
<input checked="" type="checkbox"/> SP-INITIATED SSO	<input type="checkbox"/> SP-INITIATED SLO			

- On the **Browser SSO > Protocol Settings > Allowable SAML Bindings** screen, ensure that the **POST** profile is selected (de-select **Artifact**, **Redirect** and **SOAP**) and click **Next**.

#### SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL	Allowable SAML Bindings	Signature Policy	Encryption Policy	Summary
<p>When the SP sends messages, what SAML bindings do you want to allow?</p>				
<input type="checkbox"/> ARTIFACT				
<input checked="" type="checkbox"/> POST				
<input type="checkbox"/> REDIRECT				
<input type="checkbox"/> SOAP				

- Click on the **Signature Policy** tab. On the **Signature Policy** screen, ensure that the **ALWAYS SIGN THE SAML ASSERTION** checkbox is selected and click **Next**.

9. On the **Credentials > Digital Signature Settings** screen, select the signing certificate and ensure that the **INCLUDE THE CERTIFICATE IN THE SIGNATURE <KEYINFO> ELEMENT** checkbox is selected.
10. On the **Activation & Summary** screen, set **Connection Status** to **ACTIVE**, then click **Save**.

## Configure Jive for SSO

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Before you begin

To proceed with configuring SSO to Jive you will require three pieces of information from your PingFederate Identity Provider (IdP) setup:

- The IdP entity ID
- The IdP KeyInfo element
- The IdP Location that defines your endpoints

You will need to export your IdP metadata from PingFederate.


**To export your IdP Metadata:**

1. Go to **IdP Configuration > Manage All (SP Connections)**.
2. Select the **Select Action** option for the connection setup that you completed in the [Configure PingFederate for SSO](#) on page 12 section.
3. Select **Export Metadata**.
4. Select the Signing Certificate used and ensure that **Include this certificates public key certificate in the <keyInfo> element** is selected.
5. Click **Next**, then click the **Export** button to download the PingFederate IdP metadata. This will be used in the next section.

About this task

The following section describes the steps for configuring SP and IdP-initiated SSO in Jive.

**To configure Jive for SSO:**

 **Note:** For more information on how to set up SSO for Jive, see [Setting Up Single Sign-On](#) in the Jive documentation.

Steps

1. Log into **Jive Admin Console** as an administrative user for your organization.
2. Select the **People** menu option.
3. Select **Single Sign-On**.
4. Select the **SAML** tab.
5. On the **SAML** tab, select **General** and ensure that the following options are selected:
  - **Enabled**
  - **Debug Mode**
  - **Username Identity**
  - **Merge Local Users**, if applicable. For more information, see the Migrating Existing Jive Users section of [Getting Ready to Implement SAML SSO](#) in the Jive documentation.

6. Under **General**, ensure that the SSO Service Binding is:  
`urn:oasis:names:tc:SAML:2.0:bindings:HTTP-POST`

## SAML Settings

**GENERAL**

IDP METADATA

USER ATTRIBUTE MAPPING

ADVANCED

## General

Enabled: Debug Mode: Username Identity: Merge Local Users: Provision new user  
account upon initial login: Activate existing  
deactivated account upon  
login: Sync user profile upon  
login: Sign Assertions: SSO Service Binding: Logout URL: Maximum Authentication  
Age: Response Skew: **SAVE ALL SAML SETTINGS**

7. On the **SAML** tab, select **IDP Metadata** and copy the xml text from the PingFederate IdP metadata that was exported in the previous section.

## SAML Settings

GENERAL    **IDP METADATA**    USER ATTRIBUTE MAPPING    ADVANCED

Identity Provider (IDP) Metadata

```
<?xml version="1.0" encoding="UTF-8"?><md:EntityDescriptor
xmlns:md="urn:oasis:names:tc:SAML:2.0:metadata" ID="yA--fSombgs1O0FCauuvyTVICsL"
cacheDuration="P1DT0H0M0.000S" entityID="pfhost">
  <ds:Signature xmlns:ds="http://www.w3.org/2000/09/xmldsig#">
    <ds:SignedInfo>
      <ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#" />
      <ds:SignatureMethod Algorithm="http://www.w3.org/2001/04/xmldsig-more#rsa-sha256" />
      <ds:Reference URI="#yA--fSombgs1O0FCauuvyTVICsL" />
      <ds:Transforms>
        <ds:Transform Algorithm="http://www.w3.org/2000/09/xmldsig#enveloped-signature" />
        <ds:Transform Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#" />
      </ds:Transforms>
    </ds:Signature>
  </md:EntityDescriptor>
```

SAVE ALL SAML SETTINGS

8. On the **SAML** tab, select **User Attribute Mapping** and unselect the federated checkbox next to each attribute if you do not require user profiles to be updated based on the SAML assertion. If you wish to have these attributes synchronized via SAML then you will have to update the PingFederate SSO connection to include additional attributes in the SAML assertion (e.g., Email, First Name and Last

## SAML Settings

GENERAL    IDP METADATA    **USER ATTRIBUTE MAPPING**    ADVANCED

User Attribute Mapping

Name	Attribute Name	Federated
External Identifier:	Use Subject NameID, or <input type="checkbox"/> Override with Assertion Attribute	
Username:	Use Subject NameID, or <input type="checkbox"/> Override with Assertion Attribute	
Email:	<input type="text" value="mail"/>	<input type="checkbox"/>
First Name:	<input type="text" value="givenName"/>	<input type="checkbox"/>
Last Name:	<input type="text" value="sn"/>	<input type="checkbox"/>

Name).

9. Click **Save All SAML Settings**.



# Release notes

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## Changelog

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### Jive Connector 1.0 – December 2017 (current release)

- Initial release
- Added support for user provisioning
- Added support for group provisioning
- Added support for group membership and visibility types
- Added support for adding users to groups
- Added configuration options for CRUD capabilities
- Added configuration options for provisioning disabled users

## Known issues and limitations

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- Due to a limitation with PingFederate 8.1 and earlier versions, when configuring two SP connections with the same provisioner, the second connection built may be pre-populated with the channel from the first connection. To avoid conflicts, delete this pre-populated channel and create a unique channel for each connection.
- When an LDAP user is deleted in a targeted group distinguished name (DN), the provisioning connector does not propagate the deletion until a new user is added to the group. This limitation is compounded when the **User Create** provisioning option is disabled. For solutions, see [SaaS provisioner does not remove the user](#) in the Knowledge Base.
- Due to PingFederate limitations, user attributes cannot be cleared once set.
- Due to PingFederate limitations, the Group name is the only supported group attribute and must be the Common Name (CN) of the LDAP Group being provisioned. Additional group attributes are not supported in PingFederate, so the `displayname` (a required Jive group attribute) must be the same as the `name` attribute.
- Due to a Jive limitation, a user's `username` cannot be updated.
- Due to a Jive limitation, the `externalContributor` attribute cannot be updated.
- Due to a Jive limitation, when a user is created their email must be unique. However, after creation their email can be updated to match that of an existing user.
- Deleting the administrative user that is set up for provisioning may lead to undesired consequences since the provisioner makes the admin user the owner of and a member of each group that is created by the provisioner. We recommend that this administrative user is not managed through the provisioner and not deleted.

## Download manifest

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The distribution `.zip` archive for the connector contains the following:

- `ReadMeFirst.pdf` – contains links to this online documentation.
- `/legal:`
  - `Legal.pdf` – copyright and license information.
- `/dist` – contains libraries needed for the connector:
  - `pf-jive-quickconnection-[version].jar` – PingFederate Jive Connector