Configure Silverfort for PingFederate

Release 3.8

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1 Configure Silverfort with PingFederate

This topic describes how to configure PingFederate to use Silverfort authentication as part of an authentication policy. When this is configured, user attempts to access a resource protected by PingFederate will, optionally and according to the policies defined, be redirected to Silverfort. On Silverfort, a policy will be applied which can be configured to send an MFA request to the user. The result of this policy passed back to Ping Fed, to complete the policy chain there, and either approve or deny the original request.

This configuration involves deploying a Silverfort Adapter on PingFederate.

1.1 Benefits

This integration <u>extends the capabilities of PingFederate</u> to use Silverfort authentication policies and MFA.

It also extends Silverfort authentication to include cloud environments that use cloud-based authentication methods, such as Ping One.

1.2 Integration steps

The integration with PingFederate involves these steps, which are described in the following sections:

- Install Silverfort Adapters on PingFederate instance
- Configure Adapters on PingFederate
- Configure PingFederate apps on Silverfort (Settings)
- Configure Policy Contract & Policy on PingFederate, using Silverfort authentication as a step in the chain
- Configure Silverfort Policy for users authenticating with PingFederate

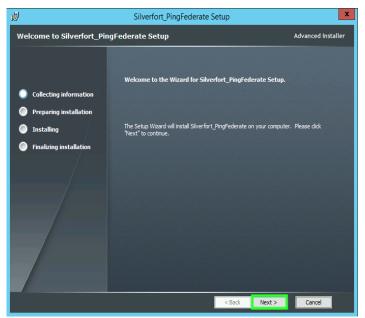
1.3 PingFederate configuration

These steps are performed on the PingFederate instance.

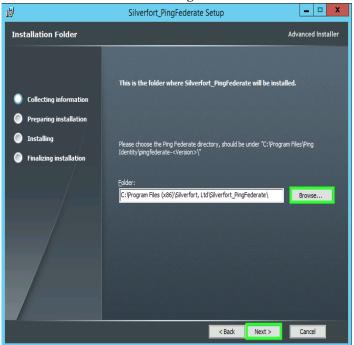
1.3.1 Install the Silverfort Adapter

- 1. Download the Silverfort PingFederate Installer to the host with the PingFederate instance, from here.
- 2. Run the installer.





3. Select the root folder for the PingFederate instance, then click **Next**



4. Select **Client**, and then click **Next**, to complete the installation. The Silverfort Adapters will then be included in the list of available adapters in PingFederate.





1.3.2 Configure PingFederate adapters

These adapters are configured on PingFed:

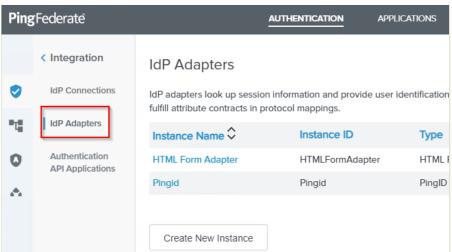
Silverfort Adapter - this is a mandatory adapter in order to use Silverfort

- Silverfort Collector Adapter this is optional; use it if you plan to use PingID as an authentication token
- PingID Adapter optional; use this if you plan to use PingID

1.3.2.1 Silverfort Adapter

Create an adapter for Silverfort:

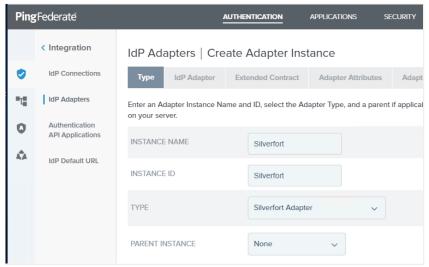
1. In PingFederate, select **IdP Adapters** from the home page, and then **IdP Adapters** from menu on the left.



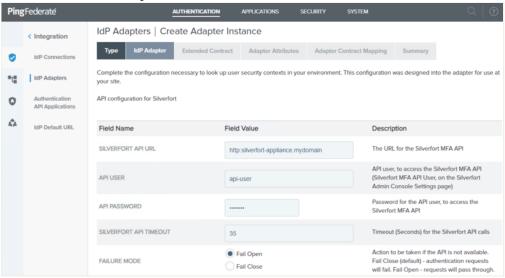
- 2. Click Create New Instance.
- 3. Enter a **Name** & **Instance Id** (freetext).
- 4. For the TYPE, select type **Silverfort Adapter**, from the list.



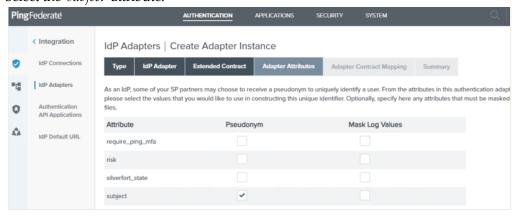
5. Leave the Parent Instance as **None**, then click Next.



- 6. Enter the URL of the Silverfort API (of the form https://silverfort-appliance.FQDN), where FQDN is the fully qualified domain name.
- 7. Enter the Silverfort **API user** and **password**, (for steps to obtain this, see document/preview/19030#UUIDbf9fd4d713e760532c0f6872056ec572). Silverfort Authentication API Reference
- 8. Optionally, adjust the timeout period.
- 9. Select the **Fail Mode**. This is the action to be taken if there is no response from the Silverfort API. Default is Fail Close (request is failed).



- 10. Click Next.
- 11. Select the 'subject' attribute.





12. Click Save. The new adapter will appear in the list.

1.3.2.2 **PingID**

If you are using PingID as an authentication token, add another adapter, the *Silverfort Collector Adapter*.

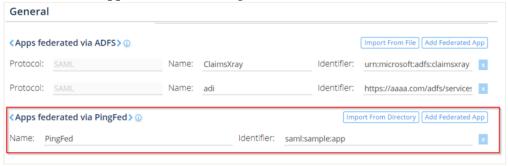
Repeat the steps above, but in step 4, select **Silverfort Collector Adapter**. This option does not have a Fail Mode (step 9).

You must also create a PingID adapter. Contact your Ping support team for details for this. Silverfort requires version 2.7 or later for this adapter.

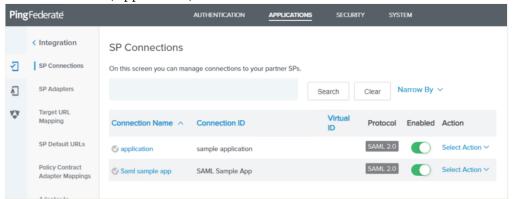
1.4 Configure Silverfort

On Silverfort, you specify the PingFederate applications that will use Silverfort authentication policies as part of the PingFederate authentication chain.

- 1. Navigate to the **Settings** page on the Silverfort Admin Console.
- 2. Scroll down to **<Apps federated via PingFed>**, in the General section.



- 3. Click Add Federated App.
- 4. Enter a name for the app. This is the name that will appear when creating Silverfort authentication policies, and in log records.
- 5. Enter the **Identifier** for the App. To obtain this, follow these steps:
 - a. On Ping Federate, select **SP Connections** from the home page. This will show a list of Service Providers (Applications).



- b. For the SP you wish to add in Silverfort, take **Connection ID**, convert to lower case and replace spaces with colons (":"). For example, *SAML Sample App* becomes *saml:sample:app*. Use this as the Identifier.
- 6. Click **Save Changes** (bottom of page).



1.5 Use the Silverfort Adapters

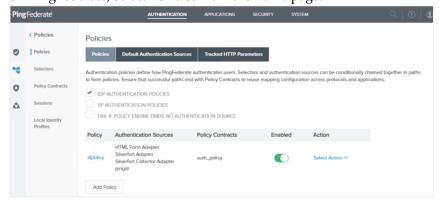
Once the integration between your Silverfort and Ping Federation instances is established, you create authentication policies on Ping Federation that use Silverfort as part of the authentication chain.

This involves creating a policy on PingFederate and an associated policy on Silverfort.

1.5.1 Create a PingFederate Policy using Silverfort in the authentication chain

1.5.1.1 Create a PingFederate Policy Contract

1. On PingFederate, select **Policies** from the home page.



- 2. Select **Policy Contracts** from the menu on the left.
- 3. Click Create New Contract.
- 4. Enter a name for the contract, and then click **Next**, **Next** again, and then **Save**.

1.5.1.2 Create a PingFederate Policy

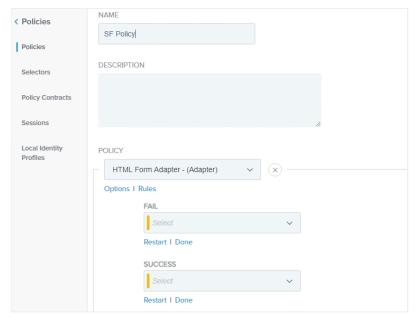
The PingFederate policy will determine how the authentication request is handled. In this configuration, the Silverfort adapter will be selected in one of the steps of the policy.

See here for more details about defining PingFederate policies.

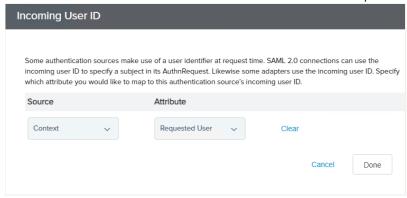
The PingFederate policy described here uses the HTMLFormAdapter

- 1. On PingFederate, select **Policies** from the menu (or home page).
- 2. Click **Add Policy**.
- 3. Enter a **name** and **description** for the policy.
- 4. For the POLICY, select **IdP Adapters**, and then, from the list, **HTMLFormAdapter**. This is the first step of the policy. This step has two possible outcomes, SUCCESS and FAIL, which will be configured in the following steps.

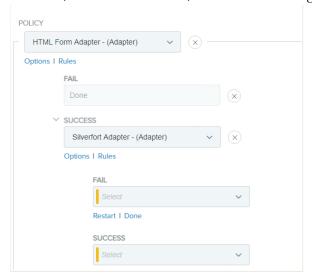




- 5. Click **Options**.
- 6. For the **Source**, select *Context*, and for the **Attribute**, select *Requested User*.



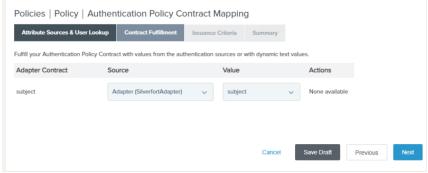
- 7. For the FAIL case for this step, select **Done** (if the user fails this first step of the authentication with PingFederate, no further actions are done).
- 8. For the SUCCESS case, select the **Silverfort Adapter**. This adds a second step in the policy chain, which refers the request to Silverfort, using the Silverfort Adapter. This step also has two outcomes, SUCCESS and FAIL, which will be configured.





- 9. Click **Options** (under the Silverfort Adapter), and select **Source**, *Context*, and **Attribute**, *Requested User*. This passes the user requesting authentication (with PingFed) to Silverfort, where it will be evaluated by a Silverfort policy and Risk Engine.

 The Silverfort policy (see below, next section), can have the usual actions, including MFA, to trigger an MFA request to the user. It will return a result, success or fail, which is returned through the adapter to the PingFederate policy.
- 10. For the FAIL case, select **DONE**. If the Silverfort policy returns a fail result to PingFederate, the original authentication request has failed, and there are no further steps.
- 11. For the SUCCESS case, select **Policy Contracts**, and then, from the list, the Silverfort Policy contract created above.
- 12. Click **Contract Mapping** (below the SUCCESS option).
- 13. Click Next.
- 14. For the attribute *subject*, select for the **Source**, select *Silverfort* (*Adapter*), and, then, for **Value**, select *subject*, to map this attribute to equivalent attribute in the Silverfort adapter.



15. Click **Next**, and then **Done**, to complete the mapping.

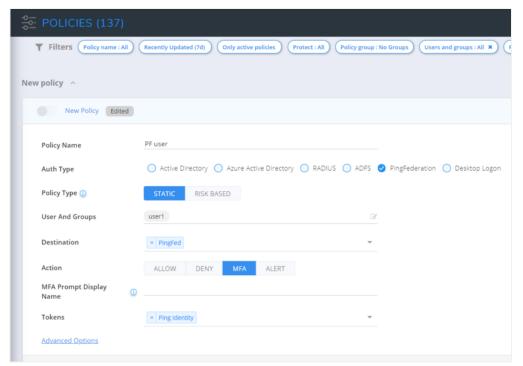
This completes a basic policy, with two steps, one on PingFederate (using the HTML Form Adapter), and a second step (if the first succeeds) using a Silverfort policy, through the Silverfort Adapter.

1.5.2 Create a Silverfort authentication policy for requests referred from a PingFederate policy

This policy will be applied on a request from PingFederate (for example, in the PingFederate policy created above), if the policy applies to the user in the request.

- 1. On the Admin Console, navigate to the POLICIES page.
- 2. Click **CREATE POLICY.**
- 3. Enter a name for the policy.





- 4. Select for Auth Type, **PIng Federation.** This indicates that the source of the request is a PingFederate policy.
- 5. Select the users and groups covered by the policy.
- 6. Select destination, **PingFederate**.
- 7. Select the **Action**. Typically this will be MFA, to trigger an MFA from Silverfort on authentication requests.
- 8. Select the MFA tokens. You can select any tokens that are paired for the user, including the PingID token and the Silverfort Desktop App and Mobile App tokens.
- 9. Complete the policy.
- 10. Click Save Changes.