

Foglight® 7.1.0

# Integration with SAML 2.0 in PingFederate



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## Legend

 **WARNING:** A WARNING icon indicates a potential for property damage, personal injury, or death

 **CAUTION:** A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

 **IMPORTANT, NOTE, TIP, MOBILE, or VIDEO:** An information icon indicates supporting information.

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# Foglight and SAML 2.0 Integration in PingFederate

Starting with release 5.9.3, Foglight® Management Server supports Active Directory Federation Services (ADFS) 2.0 and PingFederate 8.x (and later) using the Security Assertion Markup Language (SAML) 2.0 protocol. Follow the below steps in sequence to completely integrate SAML SSO with the Foglight Management Server on the PingFederate server.

**i** **NOTE:** PingFederate supports both http protocol and https protocol. Foglight SAML login on PingFederate could be using either IP address or the host name. For detailed configurations about IP or host name logon, refer to Before you begin.

- Before you begin
- Step 1: Configuring the SP Connection
- Step 2: Configuring Browser SSO
- Step 3: Configuring Assertion Creation
- Step 4: Configuring Protocol Settings
- Step 5: Configuring Credentials
- Step 6: Setting up SAML in Foglight

# Before you begin

## **i** NOTE:

- If you are about to use SAML IP login, make sure to run the following command:  
`-Dquest.saml.hostname=<foglight-server-ip>` to start up your Foglight Management Server.
- When logging into your Foglight Management Server, make sure to keep using the same approach as what you configured during the SAML integrations. For example, if you set up the HTTPS SAML login using the IP address, you must log into your Management Server with `https://<foglight-server-ip>:<foglight-server-port>`.

You need to enable SAML 2.0 SSO Configuration in your Foglight Management Server prior to setting up the SAML integration. Follow the steps below to enable SAML 2.0 SSO Configuration:

- 1 Log into the Foglight Management Server as the Administrator.
- 2 Under **Dashboards**, click **Administration > Users & Security**, and then click **SAML 2.0 Integration Settings**. The *SAML 2.0 SSO Configuration* dashboard appears.
- 3 Click **Enable**.

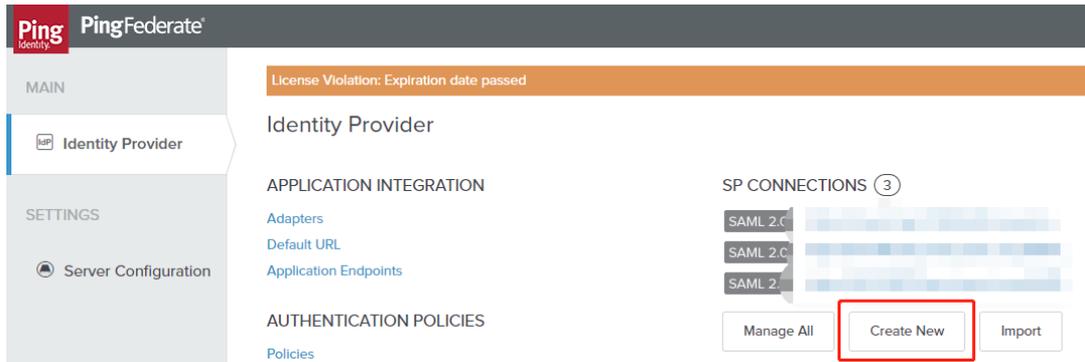


- 4 Download the metadata file that is to be imported to the PingFederate server later. Foglight supports both HTTP and HTTPS logon:
  - For HTTP logon: Get the metafile from the Foglight server URL:
    - IP logon: [http://<foglight\\_server-ip>:<port>/console/saml2/metadata.xml](http://<foglight_server-ip>:<port>/console/saml2/metadata.xml)
    - Host name logon: [http://<foglight\\_server-host-name>:<port>/console/saml2/metadata.xml](http://<foglight_server-host-name>:<port>/console/saml2/metadata.xml)
  - For HTTPS logon: Get the metafile from the Foglight server URL:
    - IP logon: [https://<foglight\\_server-ip>:<port>/console/saml2/metadata.xml](https://<foglight_server-ip>:<port>/console/saml2/metadata.xml)
    - Host name logon: [https://<foglight\\_server-host-name>:<port>/console/saml2/metadata.xml](https://<foglight_server-host-name>:<port>/console/saml2/metadata.xml)

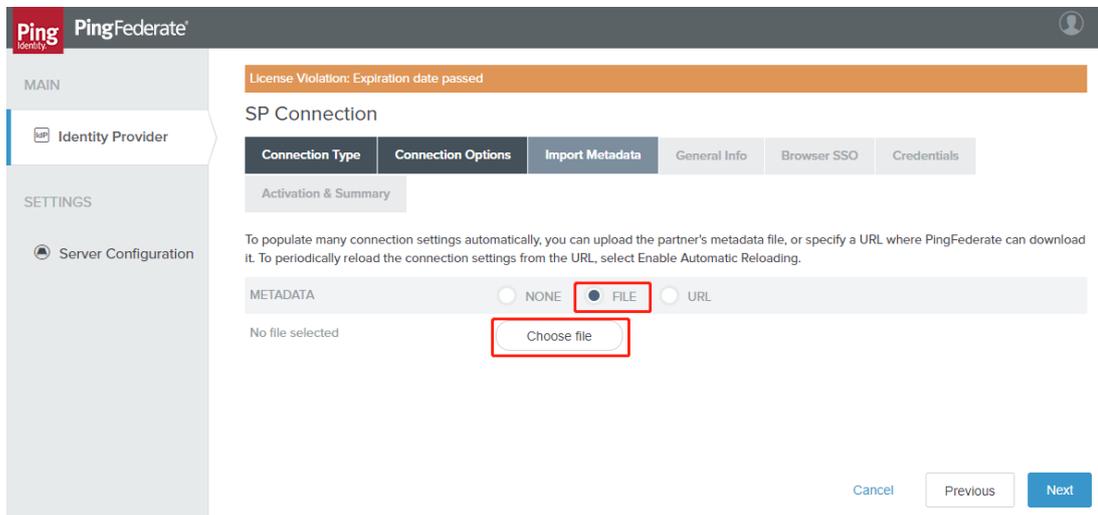
# Step 1: Configuring the SP Connection

To configure the Service Provider (SP) connection:

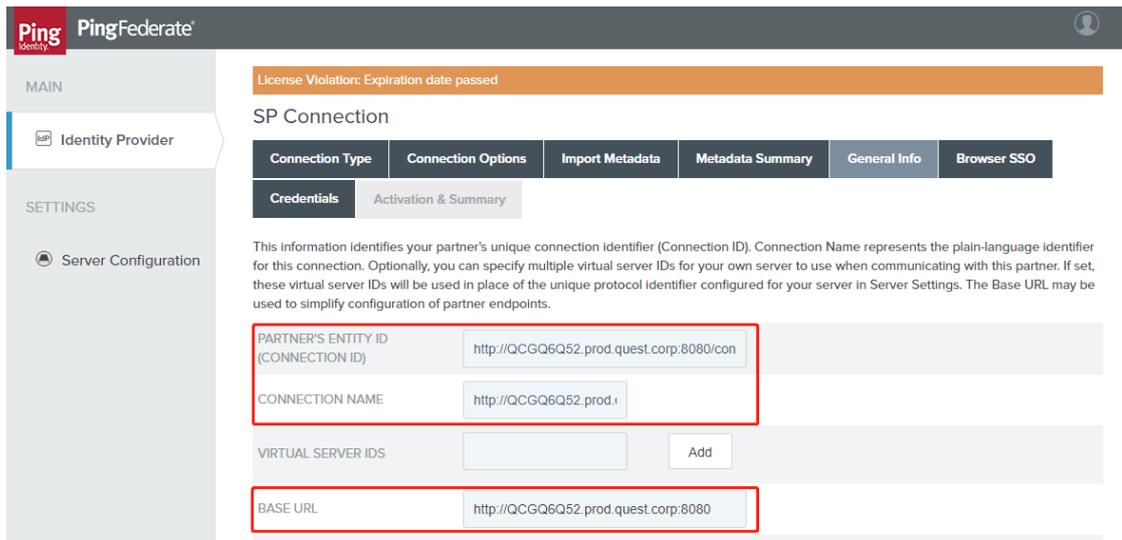
- 1 Sign in PingFederate as an administrator.
- 2 Click **Identity Provider** and navigate to **Identity Provider** configurations.
- 3 Under **SP CONNECTIONS**, click **Create New**.



- 4 On the **Connection Type** tab, select the **BROWSER SSO PROFILES** connection template and click **Next**.
- 5 On the **Connection Options** tab, select **BROWSER SSO** and click **Next**.
- 6 On the **Import Metadata** tab, select **FILE** as the type of importing metadata, and then click **Choose file** to select the Foglight SSO metadata file. Click **Next**.



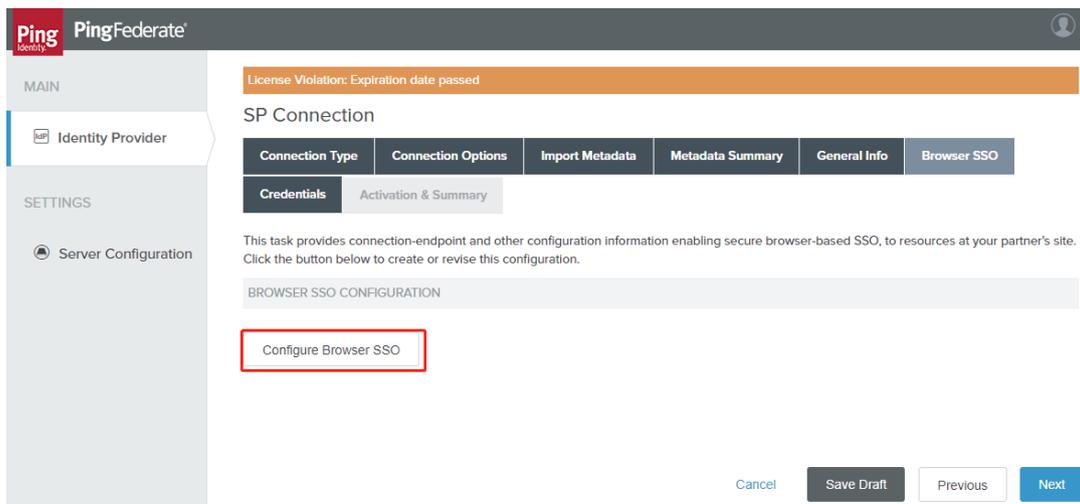
- 7 On the **Metadata Summary** tab, review the information and click **Next**.
- 8 On the **General Info** tab, ensure that the **PARTNER'S ENTITY ID**, **CONNECTION NAME**, and **BASE URL** fields pre-populate based on the metadata, and then click **Next**.



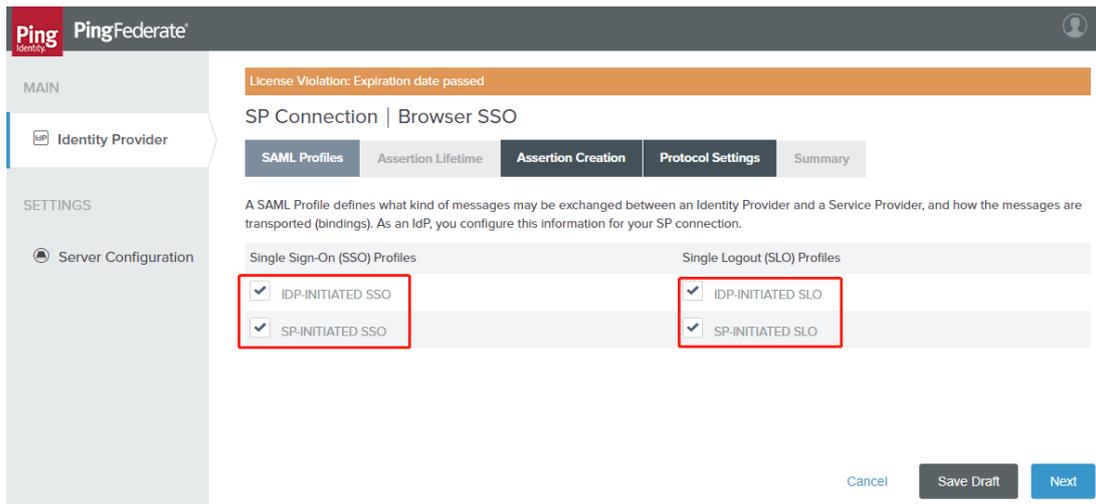
## Step 2: Configuring Browser SSO

To configure the browser SSO:

- 1 On the **Browser SSO** tab, click **Configure Browser SSO**.



- 2 On the **SAML Profiles** tab, select all of the options and click **Next**.

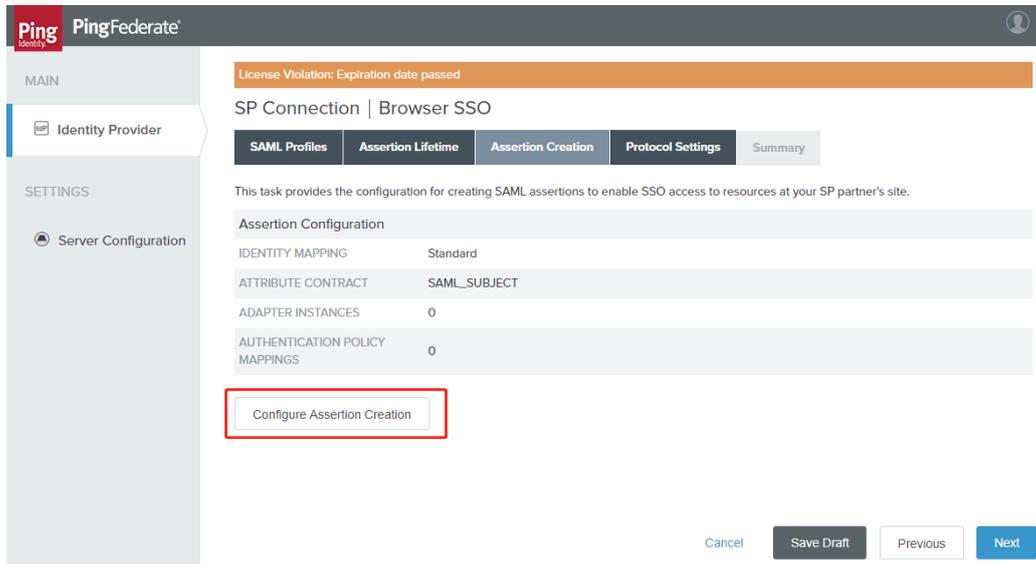


- 3 On **Assertion Lifetime** tab, enter your desired assertion validity time (default is 5) and click **Next**.

## Step 3: Configuring Assertion Creation

To configure assertion creation:

- 1 On the **Assertion Creation** tab, click **Configure Assertion Creation**.



- 2 On the **Identity Mapping** tab, choose the **STANDARD** option and click **Next**.
- 3 On the **Attribute Contract** tab, select the **Subject Name Format** for the **SAM\_SUBJECT** and extend the contract as below, and then click **Next**.

License Violation: Expiration date passed

SP Connection | Browser SSO | Assertion Creation

Identity Mapping | Attribute Contract | Authentication Source Mapping | Summary

An Attribute Contract is a set of user attributes that this server will send in the assertion.

Attribute Contract: SAML\_SUBJECT      Subject Name Format: urn:oasis:names:tc:SAML:1:nameid-format:unspecified

Extend the Contract	Attribute Name Format	Action
mail	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	Edit   Delete
SAML_AUTHN_CTX	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	Edit   Delete
SAML_NAME_FORMAT	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	Edit   Delete
uid	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	Edit   Delete
user_principal	urn:oasis:names:tc:SAML:2.0:attrname-format:basic	Edit   Delete

Cancel Save Draft Previous Next

- 4 On the **Authentication Source Mapping** tab, click **Map New Adapter Instance**.

License Violation: Expiration date passed

SP Connection | Browser SSO | Assertion Creation

Identity Mapping | Attribute Contract | Authentication Source Mapping | Summary

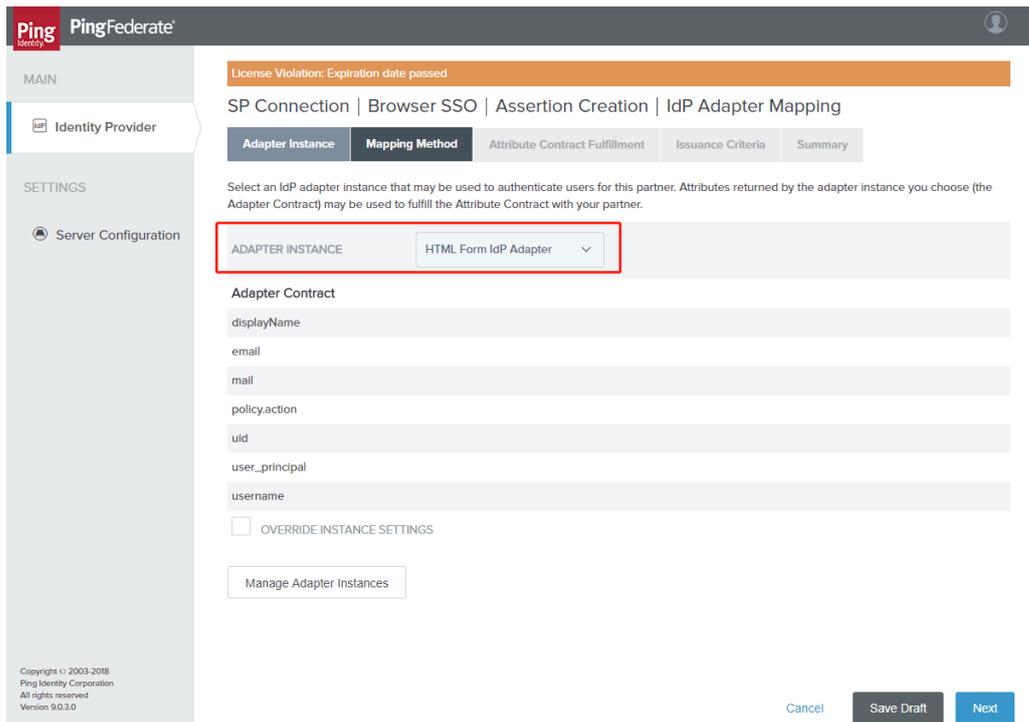
PingFederate uses IdP adapters, partner IdPs or Authentication Policies to authenticate users to your SP. Users may be authenticated by one of several different adapters or authentication policy contracts, so map an adapter instance for each IDM system or a authentication policy contract for each policy.

Adapter Instance Name	Virtual Server IDs	Action
Authentication Policy Contract Name	Virtual Server IDs	Action

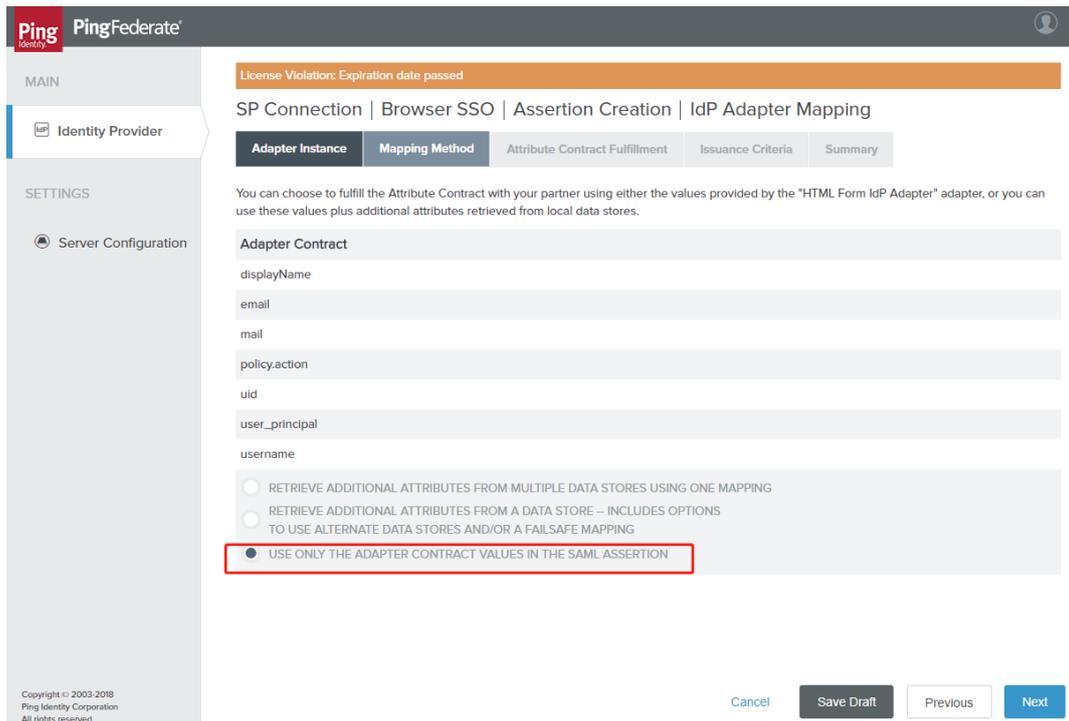
Map New Adapter Instance      Map New Authentication Policy

Cancel Save Draft Previous Next

- 5 Select an **Adapter Instance** and click **Next**. The adapter must include the user's username.



- 6 On the **Mapping Method** tab, select **USE ONLY THE ADAPTER CONTRACT VALUES IN THE SAML ASSERTION** and click **Next**.



- 7 On the **Attribute Contract Fulfillment** tab, fulfill your **Attribute Contract** as below and click **Next**.

Attribute Contract	Source	Value
SAML_AUTHN_CTX	Text	urn:oasis:names:tc:SAML:2.0:ac:classes:PasswordProtectedTransport
SAML_NAME_FORMAT	Text	urn:oasis:names:tc:SAML:1.1:nameid-format:unspecified

License Violation: Expiration date passed

SP Connection | Browser SSO | Assertion Creation | IdP Adapter Mapping

Adapter Instance | Mapping Method | Attribute Contract Fulfillment | Issuance Criteria | Summary

Fulfill your Attribute Contract with values from the authentication adapter or with dynamic text values.

Attribute Contract	Source	Value	Actions
SAML_AUTHN_CTX	Text	urn:oasis:names:tc:SAM	None available
SAML_NAME_FORMAT	Text	urn:oasis:names:tc:SAM	None available
SAML_SUBJECT	Adapter	username	None available
mail	Adapter	mail	None available
uid	Adapter	uid	None available
user_principal	Adapter	user_principal	None available

Cancel Save Draft Previous Next

8 On the **Issuance Criteria** tab, leave the default values as is and click **Next**.

9 On the **Summary** tab, verify adapter mapping configurations and click **Done**.

License Violation: Expiration date passed

SP Connection | Browser SSO | Assertion Creation | IdP Adapter Mapping

Adapter Instance | Mapping Method | Attribute Contract Fulfillment | Issuance Criteria | Summary

Click a heading link to edit a configuration setting.

**Adapter Instance**  
Selected adapter: HTML Form IdP Adapter

**Mapping Method**  
Adapter: HTML Form IdP Adapter  
Mapping Method: Use only the Adapter Contract values in the mapping

**Attribute Contract Fulfillment**

uid	uid (Adapter)
mail	mail (Adapter)
SAML_AUTHN_CTX	urn:oasis:names:tc:SAML2.0:ac:classes:PasswordProtectedTransport (Text)
user_principal	user_principal (Adapter)
SAML_SUBJECT	username (Adapter)
SAML_NAME_FORMAT	urn:oasis:names:tc:SAML1.1:nameid-format:unspecified (Text)

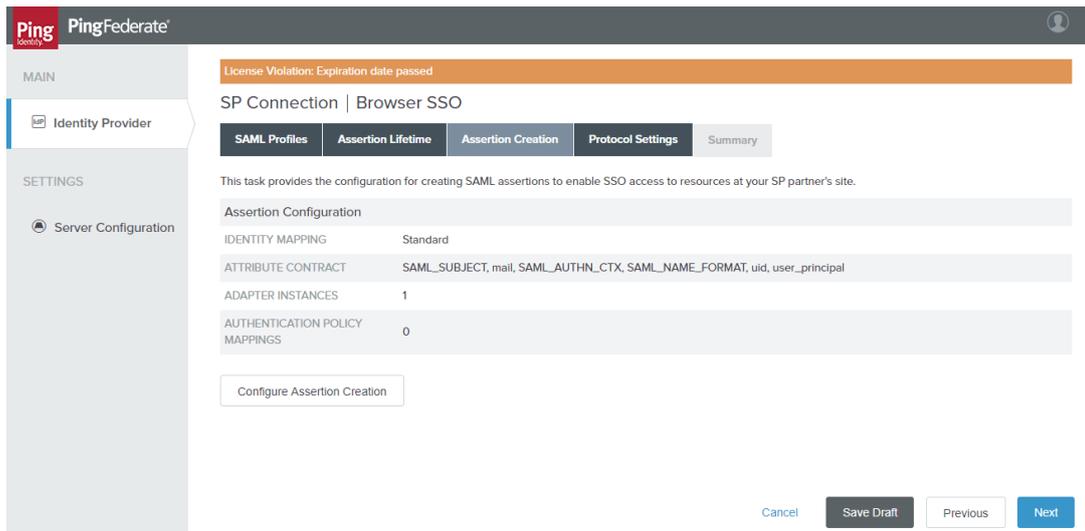
**Issuance Criteria**  
Criterion: (None)

Cancel Save Draft Previous Done

10 On the **Authentication Source Mapping** tab, click **Next**.

11 On the **Summary** tab, click **Done**.

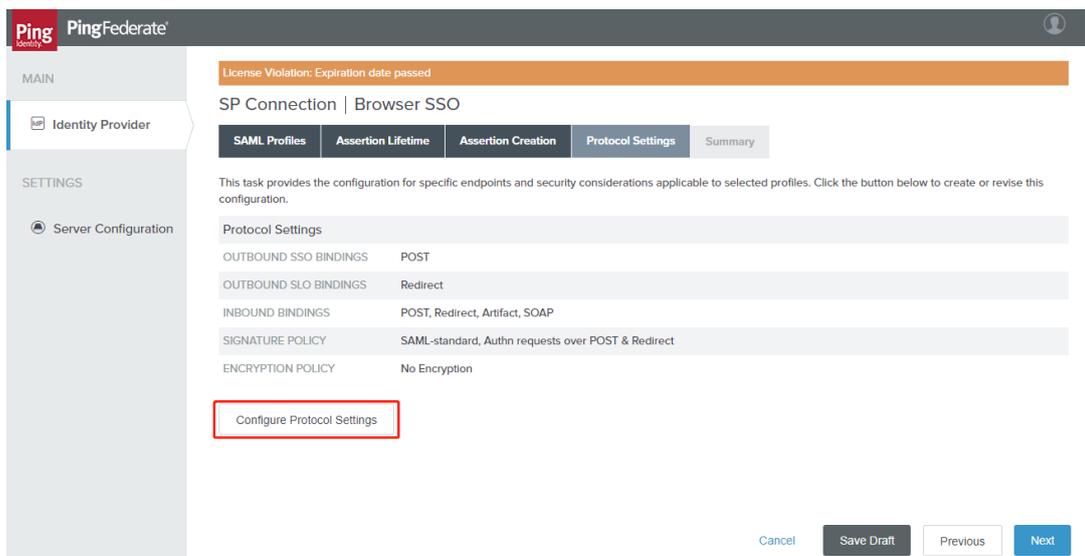
12 On the **Assertion Creation** tab, click **Next**.



## Step 4: Configuring Protocol Settings

To configure protocol settings:

- 1 On the **Protocol Settings** tab, click **Configure Protocol Settings**.



- 2 On the **Assertion Consumer Service URL** tab, ensure the **Binding** and **Endpoint URL** are set as below and click **Next**.

License Violation: Expiration date passed

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | **SLO Service URLs** | Allowable SAML Bindings | Artifact Resolver Locations | Signature Policy

Encryption Policy | Summary

As the IdP, you send SAML assertions to the SP's Assertion Consumer Service. The SP may request that the SAML assertion be sent to one of several URLs, via different bindings. Please provide the possible assertion consumer URLs below and select one to be the default.

Default	Index	Binding	Endpoint URL	Action
default	1	POST	/console/saml2/saml_assertion_consumer	Edit   Delete
<input type="checkbox"/>	<input type="text"/>	- SELECT -	<input type="text"/>	Add

Cancel Save Draft Next

- On the **SLO Service URLs** tab, ensure the **Binding** and **Endpoint URL** are set as below and click **Next**.

License Violation: Expiration date passed

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | **SLO Service URLs** | Allowable SAML Bindings | Artifact Resolver Locations | Signature Policy

Encryption Policy | Summary

As the IdP, you may send SAML logout messages to the SP's Single Logout Service. Depending on the situation, the SP may request that messages be sent to one of several URLs, via different bindings. Please provide the endpoints that you would like to use.

Binding	Endpoint URL	Response URL	Action
Redirect	/console/saml2/slo		Edit   Delete
- SELECT -	<input type="text"/>	<input type="text"/>	Add

Cancel Save Draft Previous Next

- On the **Allowable SAML Bindings** tab, select **POST** and **REDIRECT** and click **Next**.

License Violation: Expiration date passed

SP Connection | Browser SSO | Protocol Settings

Assertion Consumer Service URL | **SLO Service URLs** | **Allowable SAML Bindings** | Signature Policy | Encryption Policy | Summary

When the SP sends messages, what SAML bindings do you want to allow?

ARTIFACT

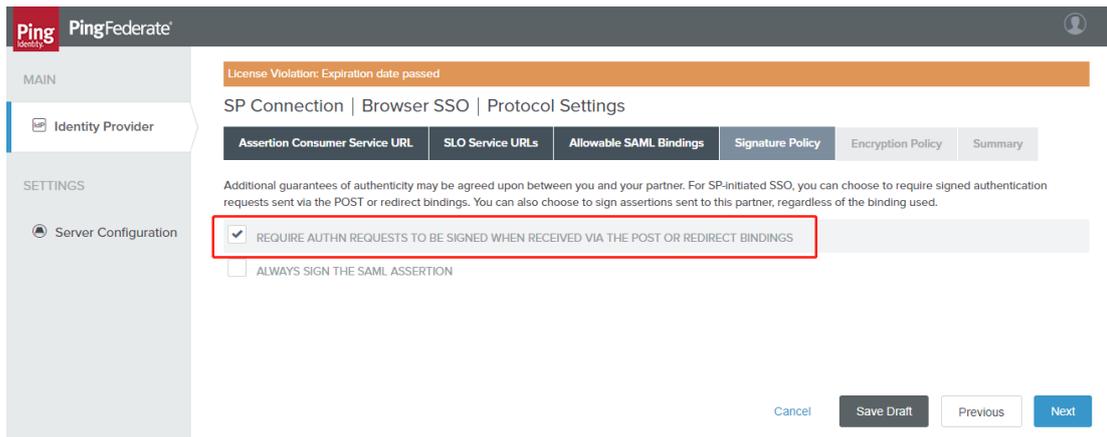
POST

REDIRECT

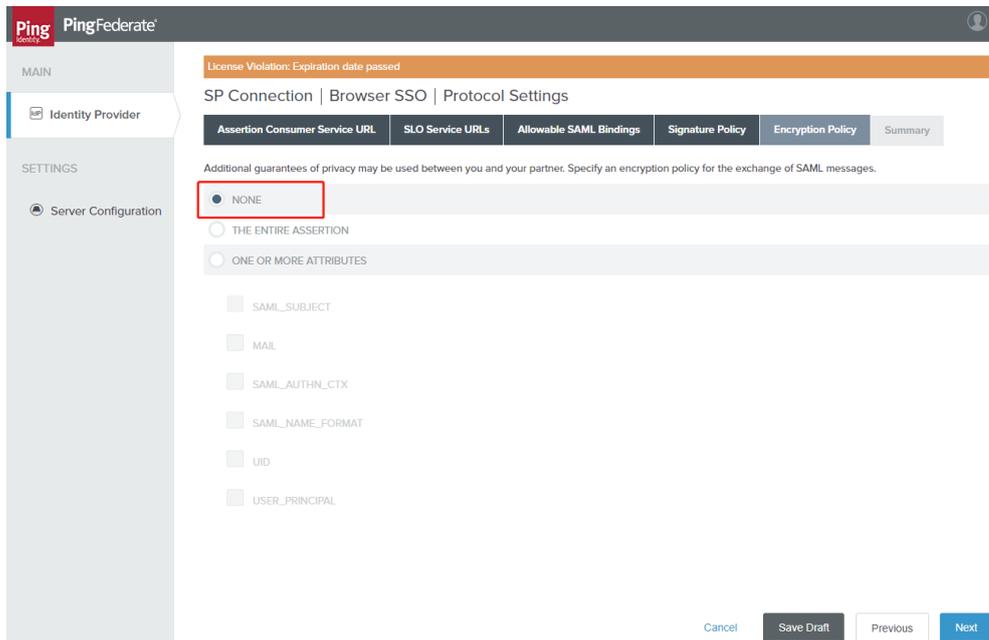
SOAP

Cancel Save Draft Previous Next

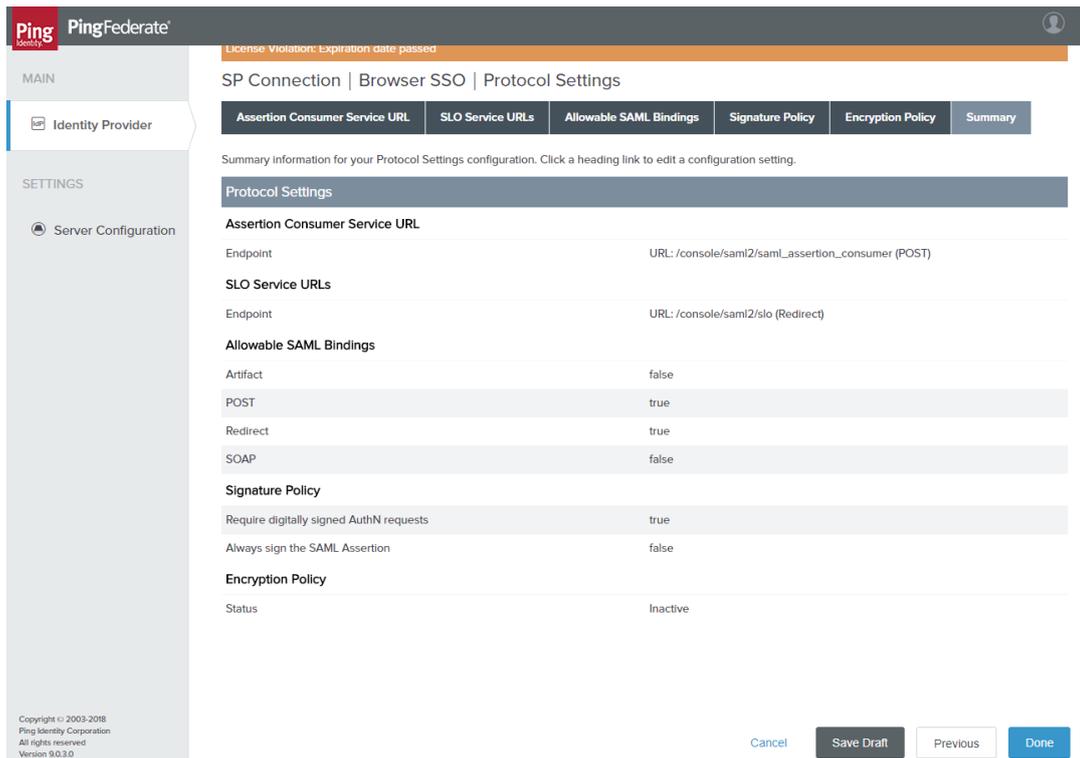
- On the **Signature Policy** tab, select the **REQUIRE AUTHN REQUESTS TO BE SIGNED WHEN RECEIVED VIA THE POST OR REDIRECT BINDINGS** option and click **Next**.



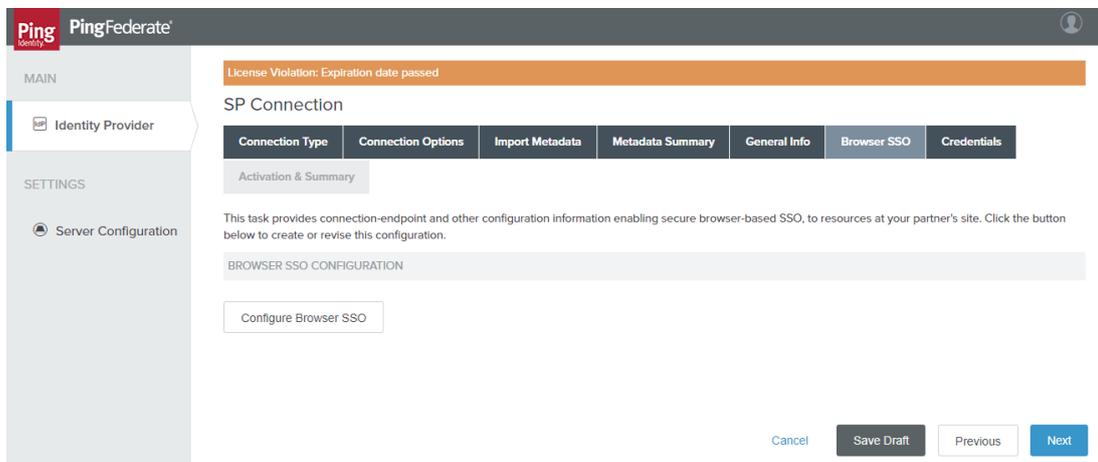
6 On the **Encryption Policy** tab, select the **NONE** option and click **Next**.



7 On the **Summary** tab, verify the summary and click **Done**.



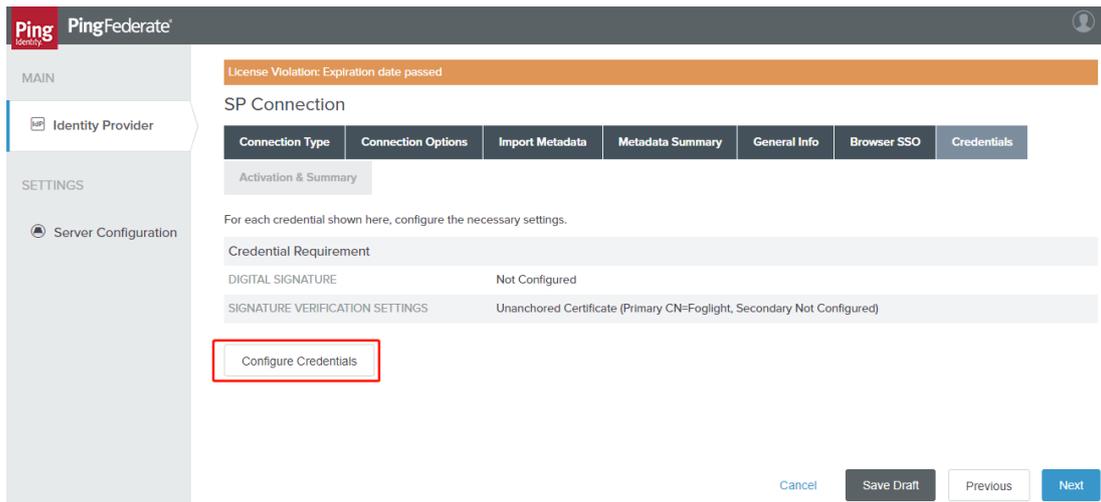
- 8 On the **Protocol Settings** tab, click **Next**.
- 9 On the **Browser SSO Summary** tab, click **Done**.
- 10 On the **Browser SSO** tab, click **Next**.



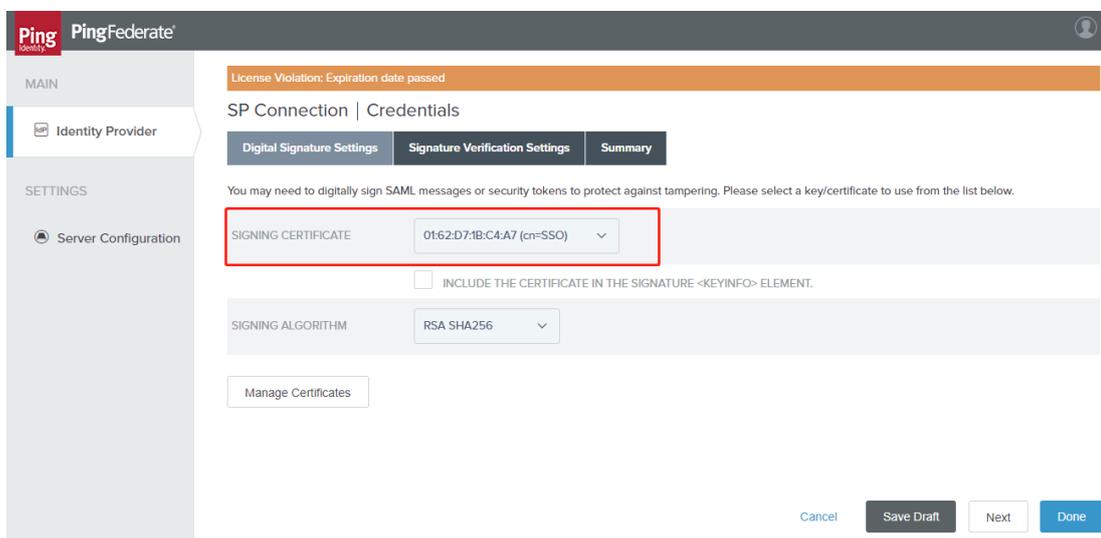
## Step 5: Configuring Credentials

To configure credentials:

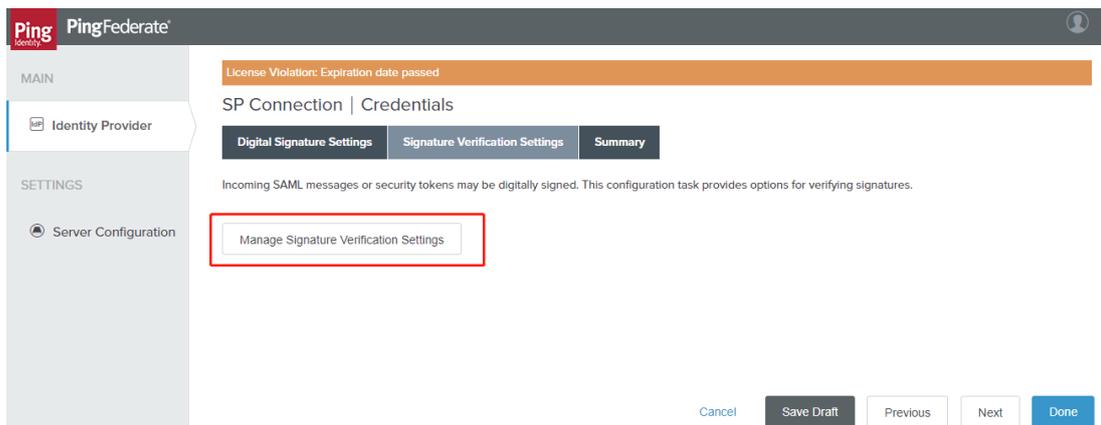
- 1 On the **Credentials** tab, click **Configure Credentials**.



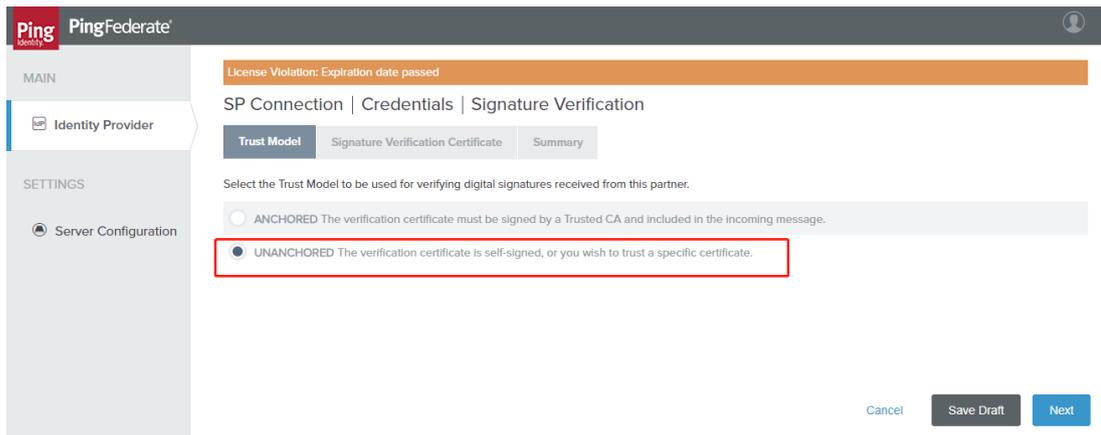
- 2 On the **Digital Signature Settings** tab, select the Signing Certificate to use the SSO service and click **Next**.



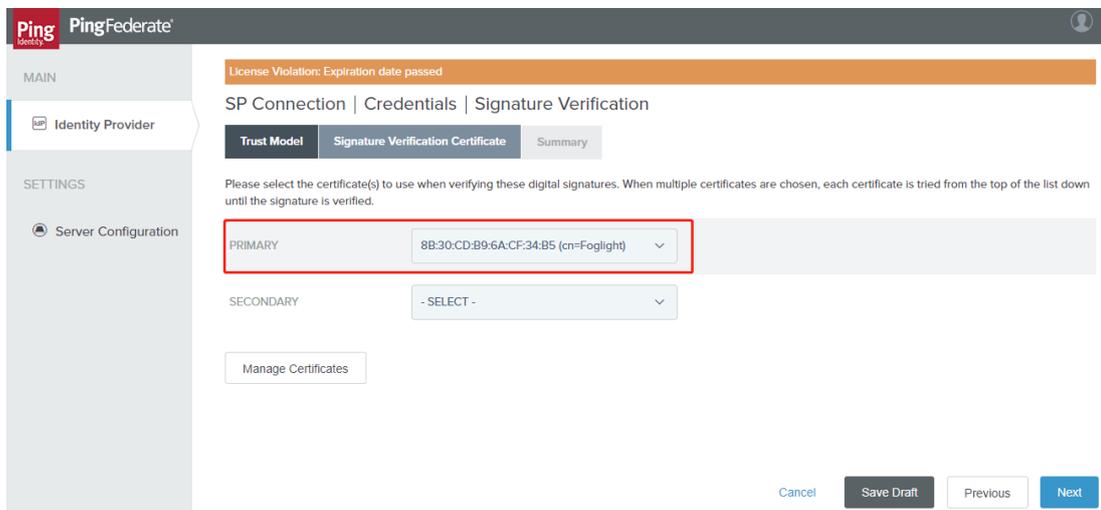
- 3 On the **Signature Verification Settings** tab, click **Manage Signature Verification Settings**.



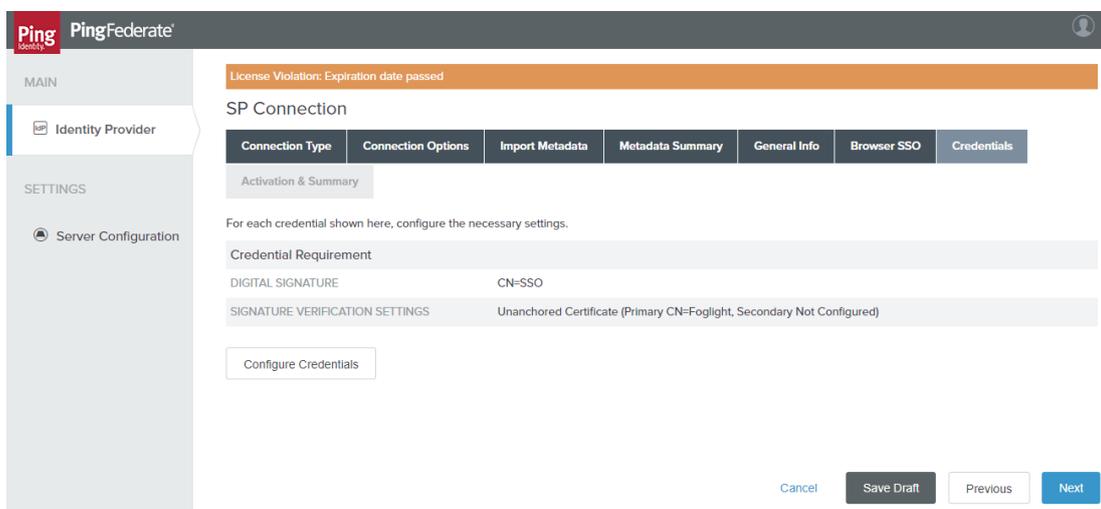
- 4 On the **Trust Model** tab, select the **UNANCHORED** option and click **Next**.



- 5 On the **Signature Verification Certificate** tab, select the Foglight certificate that should have been imported, and then click **Next**.



- 6 On the **Summary** tab, click **Done**.
- 7 On the **Signature Verification Settings** tab, click **Next**.
- 8 On the **Credentials Summary** tab, click **Done**.
- 9 On the **Credentials** tab, click **Next**.



- On the **Activation & Summary** tab, choose the **ACTIVE** option for the Connection Status. Verify the configurations and click **Save**.

License Violation: Expiration date passed

SP Connection

Connection Type | Connection Options | Import Metadata | Metadata Summary | General Info | Browser SSO | Credentials

Activation & Summary

Summary information for your SP connection. Click a heading in a section to edit a particular configuration setting.

Connection Status  ACTIVE  INACTIVE

SSO Application Endpoint <https://10.30.155.30:9031/idp/startSSO.ping?PartnerSpId=http%3A%2F%2F0CQG06Q52.prod.quest.corp%3A8080%2Fconsole%2Fsam2%2Fmetadata.xml>

Summary

SP Connection

Connection Type	
Connection Role	SP
Browser SSO Profiles	true
Protocol	SAML 2.0
Connection Template	No Template
WS-Trust STS	false
Outbound Provisioning	false

Connection Options

## Step 6: Setting up SAML in Foglight

To set up SAML in the Foglight Management Server:

- Log into the Foglight Management Server as an administrator.
- Under **Dashboards**, click **Administration > Setup > SAML 2.0 SSO**. The *SAML 2.0 SSO Configuration* dashboard appears.
- Click **Edit Settings** and configure the SAML settings as below. You could get the actual values from the PingFederate server.
  - Identity Provider Entity ID*: You could get this value from PingFederate's **Server Settings**.

Ping Federate

Respond to Get Requests false

Generate Traps false

Account Management

User Administrator | UserAdmin,Admin,CryptoAdmin

Password Change Notification false

Roles & Protocols

Enable OAuth 2.0 Authorization Server false

IdP SAML 2.0 Support true

Enable IdP Discovery false

Federation Info

My Base URL https://10.30.155.30:9031

SAML 2.0 Entity ID pingserver

- Login URL*: You could get this value from the SP Connection that you have configured on the PingFederate server.

License Violation: Expiration date passed

### SP Connection

Connection Type | Connection Options | Metadata URL | General Info | Browser SSO | Credentials | Activation & Summary

Summary information for your SP connection. Click a heading in a section to edit a particular configuration setting.

Connection Status:  ACTIVE  INACTIVE

SSO Application Endpoint: <https://10.30.155.30:9031/ldap/startSSO.ping?PartnerSpId=http%3A%2F%2FQCGG6Q52.prod.quest.corp%3A8080%2Fconsole%2Fsaml2%2Fmetadata.xml>

#### Summary

SP Connection	
<b>Connection Type</b>	
Connection Role	SP
Browser SSO Profiles	true
Protocol	SAML 2.0
Connection Template	No Template

- c *Logout URL*: The value is `https://<pingfederate_server>:<port>/ldap/SLO.saml2`. You could get the logout common postfix from PingFederate's **Protocol Endpoints**.

License Violation: Expiration date passed

### Identity Provider

APPLICATION INTEGRATION

- Adapters
- Default URL
- Application Endpoints

AUTHENTICATION POLICIES

- Policies
- Selectors
- Policy Contracts
- Sessions

LOCAL IDENTITY

- Identity Profiles

FEDERATION INFO

- Protocol Endpoints**

SP AFFILIATIONS (0)

Manage All | Create New

SP CONNECTIONS (4)

- SAML 2.0 <http://QCGG6Q52.prod.quest.corp:8080/...>
- SAML 2.0 <https://zhuvm-fog-2708:8443/console/s...>
- SAML 2.0 <http://Q6Y7WD3X.prod.quest.corp:8080/...>
- SAML 2.0 <https://Q6Y7WD3X.prod.quest.corp:8443...>

Manage All | Create New | Import

- d *Attribute Key*: This is used to identify the attribute key of the assertion response. Take the below SAML 2.0 assertion response for example:

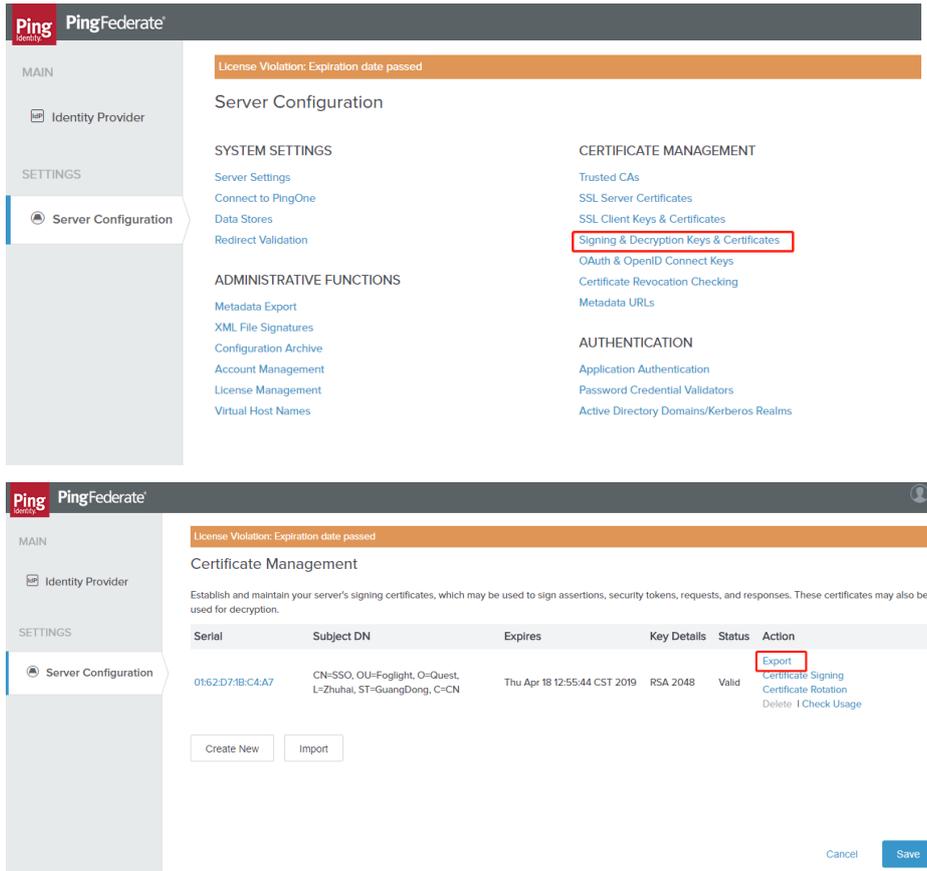
```

<samlp:Response xmlns:samlp="urn:oasis:names:tc:SAML:2.0:protocol" xmlns:saml="urn:oasis:names:tc:SAML:2.0:assertion"
  <saml:Issuer>http://idp.example.com/metadata.php</saml:Issuer>
  <samlp:Status>
    <samlp:StatusCode Value="urn:oasis:names:tc:SAML:2.0:status:Success"/>
  </samlp:Status>
  <saml:Assertion xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns:xs="http://www.w3.org/2001/XMLSchema" :
    <saml:Issuer>http://idp.example.com/metadata.php</saml:Issuer><saml:Signature xmlns:ds="http://www.w3.org/2000/09/
  <ds:SignedInfo><ds:CanonicalizationMethod Algorithm="http://www.w3.org/2001/10/xml-exc-c14n#"/>
    <ds:SignatureMethod Algorithm="http://www.w3.org/2000/09/xmldsig#rsa-sha1"/>
    <ds:Reference URI="#pfx8495b10f-2a17-5411-3a19-33bf6852f431"><ds:Transforms><ds:Transform Algorithm="http://www.w3
  <ds:KeyInfo><ds:X509Data><ds:X509Certificate>MIICajCCAdOgAwIBAgIBADANBgkqhkiG9w0BAQ0FADBSMQswCQYDVQQGEWJ1czETMBEGA1UI
  <saml:Subject>
    <saml:NameID SPNameQualifier="http://sp.example.com/demo1/metadata.php" Format="urn:oasis:names:tc:SAML:2.0:na
  <saml:SubjectConfirmation Method="urn:oasis:names:tc:SAML:2.0:cm:bearer">
    <saml:SubjectConfirmationData NotOnOrAfter="2024-01-18T06:21:48Z" Recipient="http://sp.example.com/demo1/ind
  </saml:SubjectConfirmation>
  </saml:Subject>
  <saml:Conditions NotBefore="2014-07-17T01:01:18Z" NotOnOrAfter="2024-01-18T06:21:48Z">
    <saml:AudienceRestriction>
      <saml:Audience>http://sp.example.com/demo1/metadata.php</saml:Audience>
    </saml:AudienceRestriction>
  </saml:Conditions>
  <saml:AuthnStatement AuthnInstant="2014-07-17T01:01:48Z" SessionNotOnOrAfter="2024-07-17T09:01:48Z" SessionIndex:
  <saml:AuthnContext>
    <saml:AuthnContextClassRef>urn:oasis:names:tc:SAML:2.0:ac:classes:Password</saml:AuthnContextClassRef>
  </saml:AuthnContext>
  </saml:AuthnStatement>
  <saml:AttributeStatement>
    <saml:Attribute Name="uid" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:basic">
      <saml:AttributeValue xsi:type="xs:string">test</saml:AttributeValue>
    </saml:Attribute>
    <saml:Attribute Name="mail" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:basic">
      <saml:AttributeValue xsi:type="xs:string">test@example.com</saml:AttributeValue>
    </saml:Attribute>
    <saml:Attribute Name="eduPersonAffiliation" NameFormat="urn:oasis:names:tc:SAML:2.0:attrname-format:basic">
      <saml:AttributeValue xsi:type="xs:string">users</saml:AttributeValue>
      <saml:AttributeValue xsi:type="xs:string">examplerole1</saml:AttributeValue>
    </saml:Attribute>
  </saml:AttributeStatement>
  </saml:Assertion>
</samlp:Response>

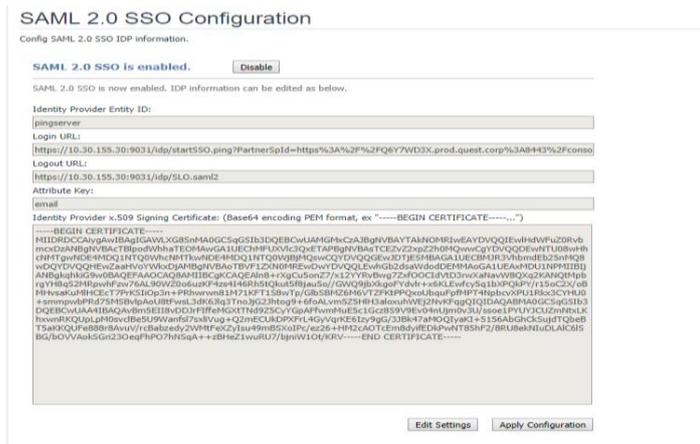
```

In the **saml:AttributeStatement** element, there are three **saml:Attribute** elements. Both **uid** and **mail** can be used to identify a user. In this sample response, either **uid** or **mail** can be used as the *Attribute Key*. Generally the IDP Server administrator knows details about this information. The Foglight Management Server tries to use several common keys, such as uid, email, mail, sMAAccountName and etc. Therefore if you are a Foglight administrator and have questions about this *Attribute Key*, reach out to your IDP server's administrator for detailed information.

- e *Identity Provider x.509 Signing Certificate*: You could get this value from PingFederate's **Signing & Decryption Keys & Certificates**.



The following shows an example of SAML 2.0 SSO Configuration in PingFederate.



- 4 Click **Apply Configuration** to save the configuration.

Then configurations of integrating SAML 2.0 SSO with the Foglight Management Server in PingFederate are completed.



## We are more than just a name

We are on a quest to make your information technology work harder for you. That is why we build community-driven software solutions that help you spend less time on IT administration and more time on business innovation. We help you modernize your data center, get you to the cloud quicker and provide the expertise, security and accessibility you need to grow your data-driven business. Combined with Quest's invitation to the global community to be a part of its innovation, and our firm commitment to ensuring customer satisfaction, we continue to deliver solutions that have a real impact on our customers today and leave a legacy we are proud of. We are challenging the status quo by transforming into a new software company. And as your partner, we work tirelessly to make sure your information technology is designed for you and by you. This is our mission, and we are in this together. Welcome to a new Quest. You are invited to Join the Innovation™.

## Our brand, our vision. Together.

Our logo reflects our story: innovation, community and support. An important part of this story begins with the letter Q. It is a perfect circle, representing our commitment to technological precision and strength. The space in the Q itself symbolizes our need to add the missing piece – you – to the community, to the new Quest.

## Contacting Quest

For sales or other inquiries, visit [www.quest.com/contact](http://www.quest.com/contact).

## Technical support resources

Technical support is available to Quest customers with a valid maintenance contract and customers who have trial versions. You can access the Quest Support Portal at <https://support.quest.com>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to-videos
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product.