

Foglight® 6.0.0

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**.

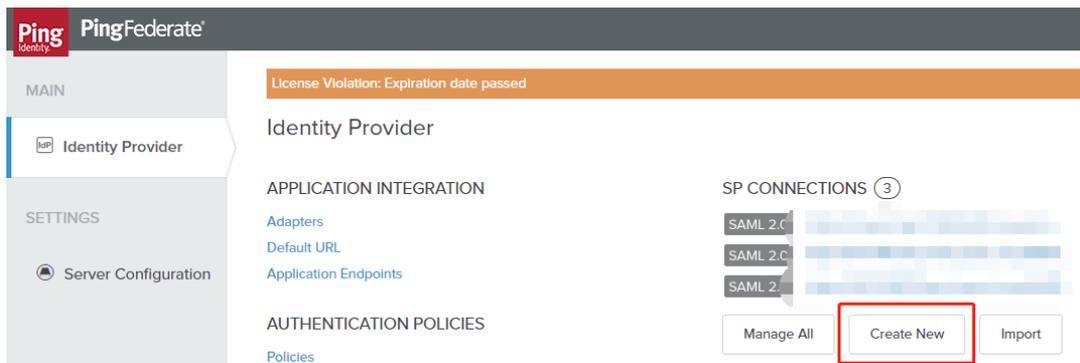


- 4 Download the metadata file that is to be imported to the PingFederate server later. Foglight supports both HTTP and HTTPS logon:
 - For HTTP logon: Get the metafile from the Foglight server URL:
 - IP logon: http://<foglight_server-ip>:<port>/console/saml2/metadata.xml
 - Host name logon: http://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

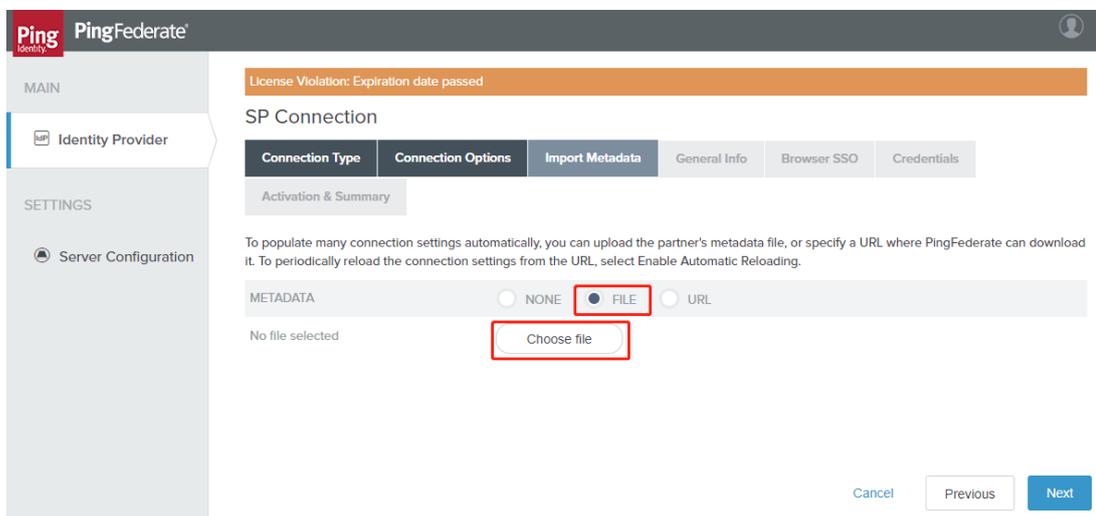
Step 1: Configuring the SP Connection

To configure the Service Provider (SP) connection:

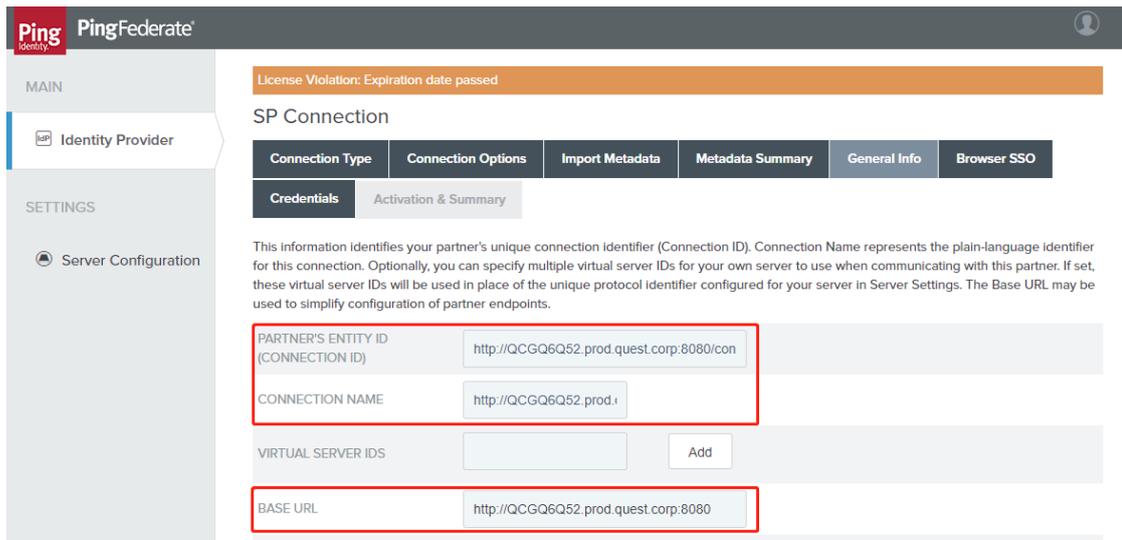
- 1 Sign in PingFederate as an administrator.
- 2 Click **Identity Provider** and navigate to **Identity Provider** configurations.
- 3 Under **SP CONNECTIONS**, click **Create New**.



- 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**.



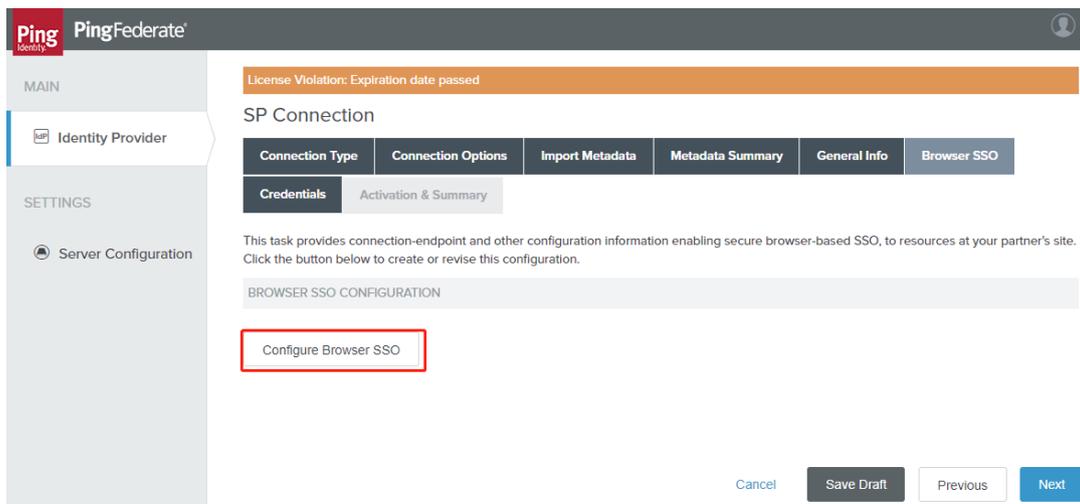
- 7 On the **Metadata Summary** tab, review the information and click **Next**.
- 8 On the **General Info** tab, ensure that the **PARTNER'S ENTITY ID**, **CONNECTION NAME**, and **BASE URL** fields pre-populate based on the metadata, and then click **Next**.



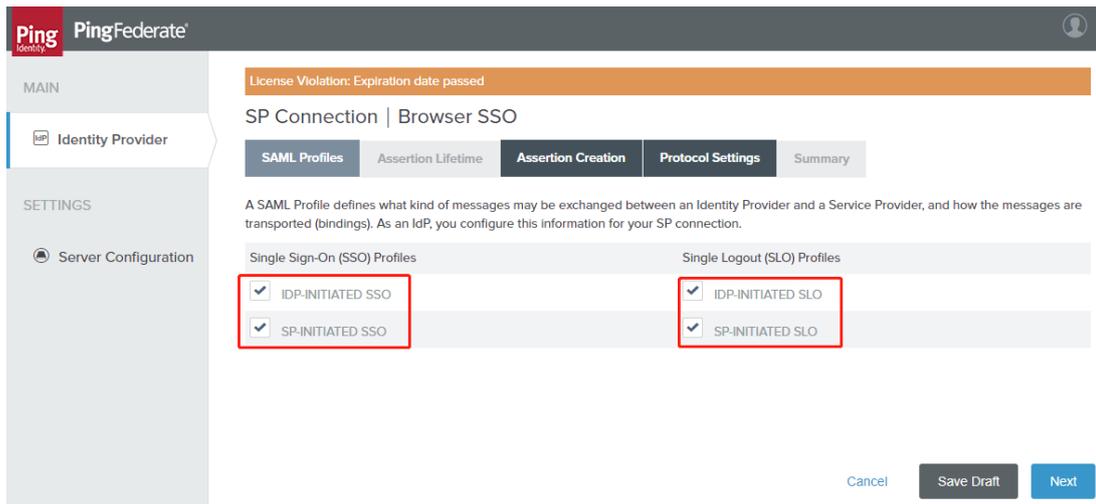
Step 2: Configuring Browser SSO

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**.

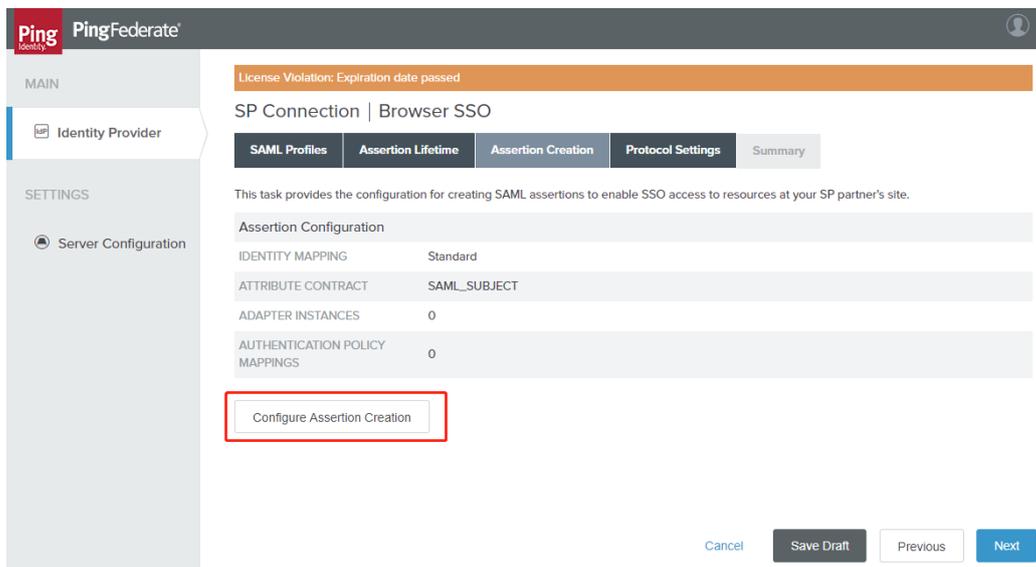


- 3 On **Assertion Lifetime** tab, enter your desired assertion validity time (default is 5) and click **Next**.

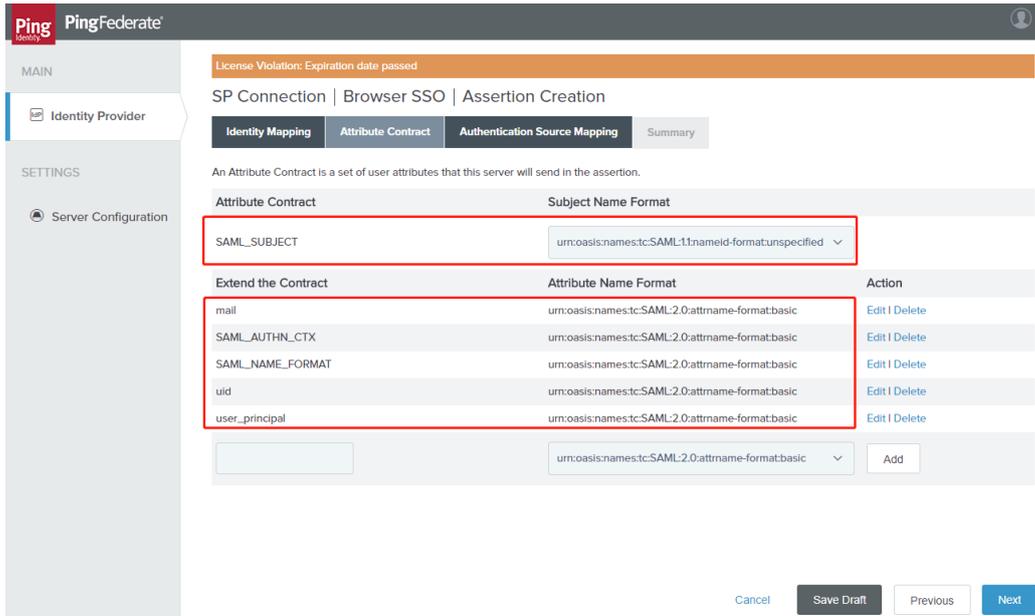
Step 3: Configuring Assertion Creation

To configure assertion creation:

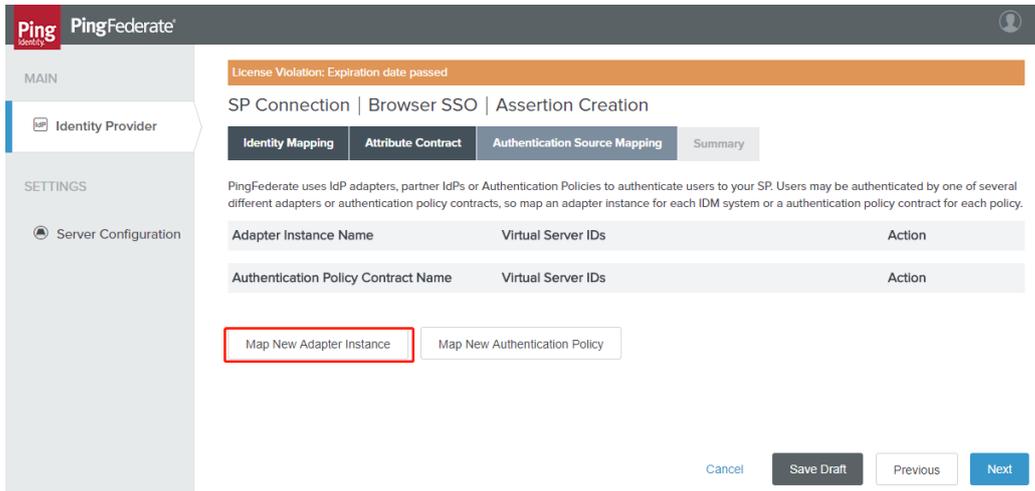
- 1 On the **Assertion Creation** tab, click **Configure Assertion Creation**.



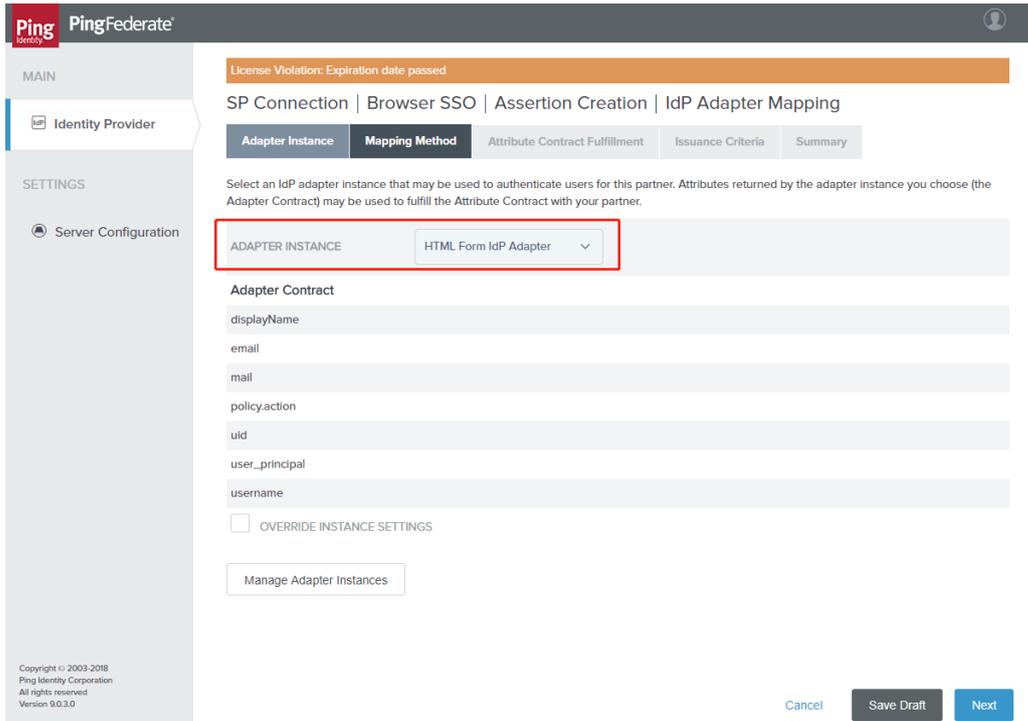
- 2 On the **Identity Mapping** tab, choose the **STANDARD** option and click **Next**.
- 3 On the **Attribute Contract** tab, select the **Subject Name Format** for the **SAM_SUBJECT** and extend the contract as below, and then click **Next**.



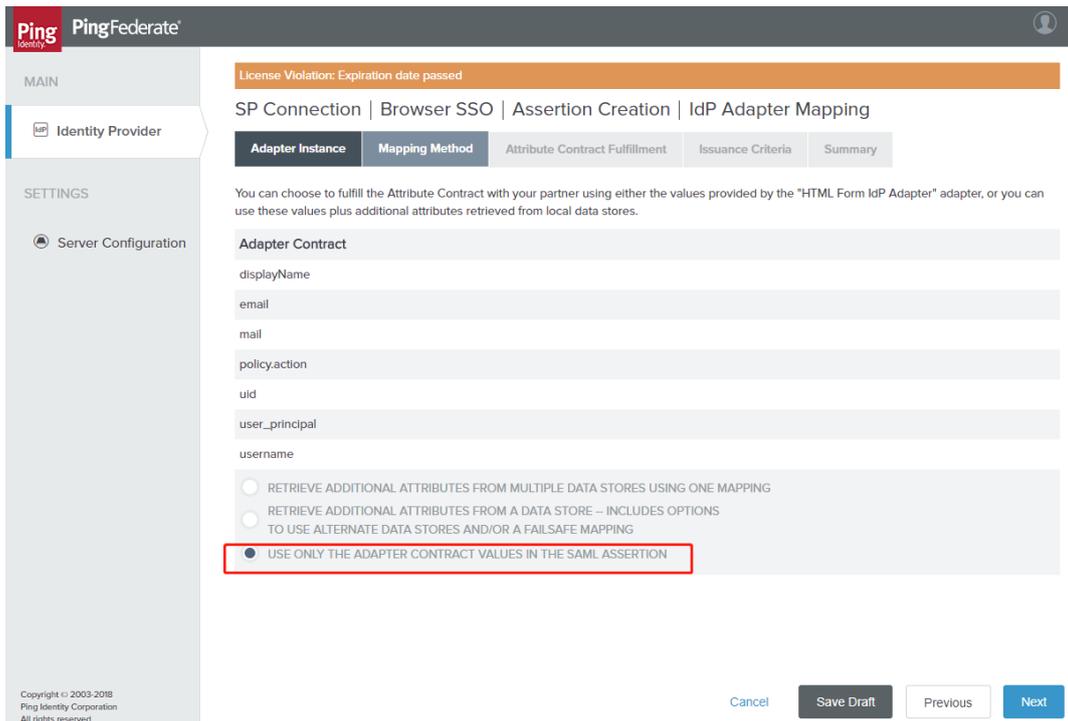
- 4 On the **Authentication Source Mapping** tab, click **Map New Adapter Instance**.



- 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:nameid-format:unspecified (Text)

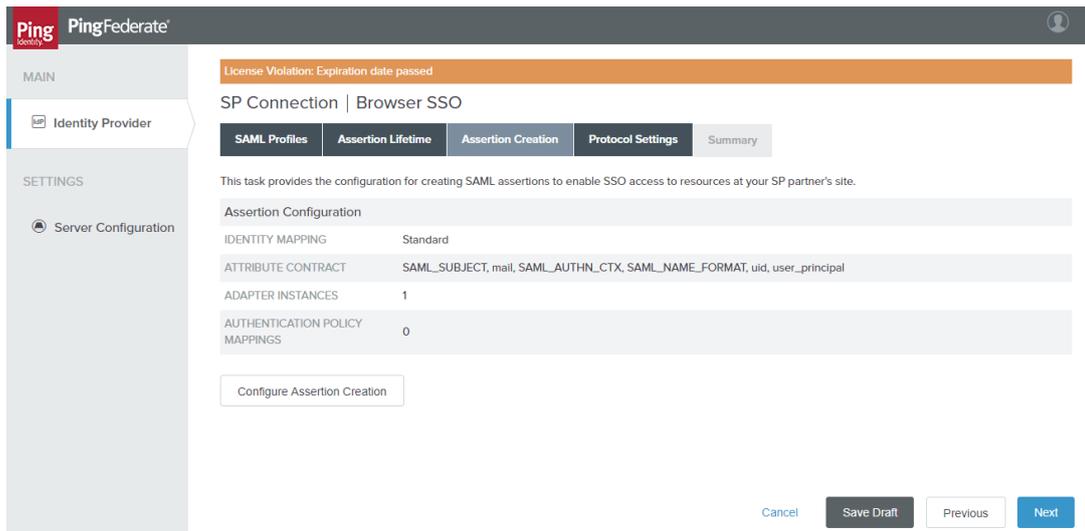
Issuance Criteria
Criterion: (None)

Cancel Save Draft Previous Done

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

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

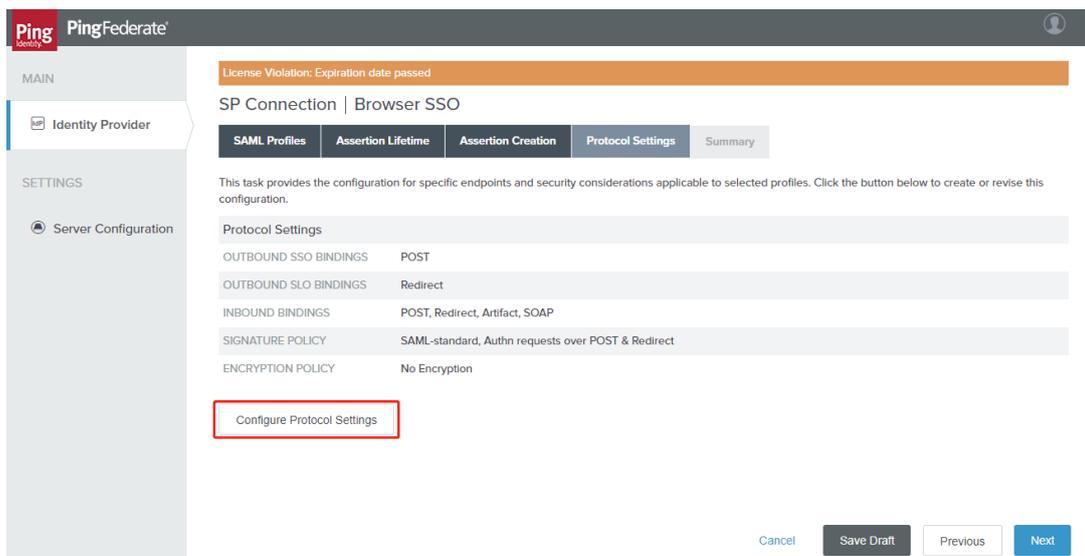
12 On the **Assertion Creation** tab, click **Next**.



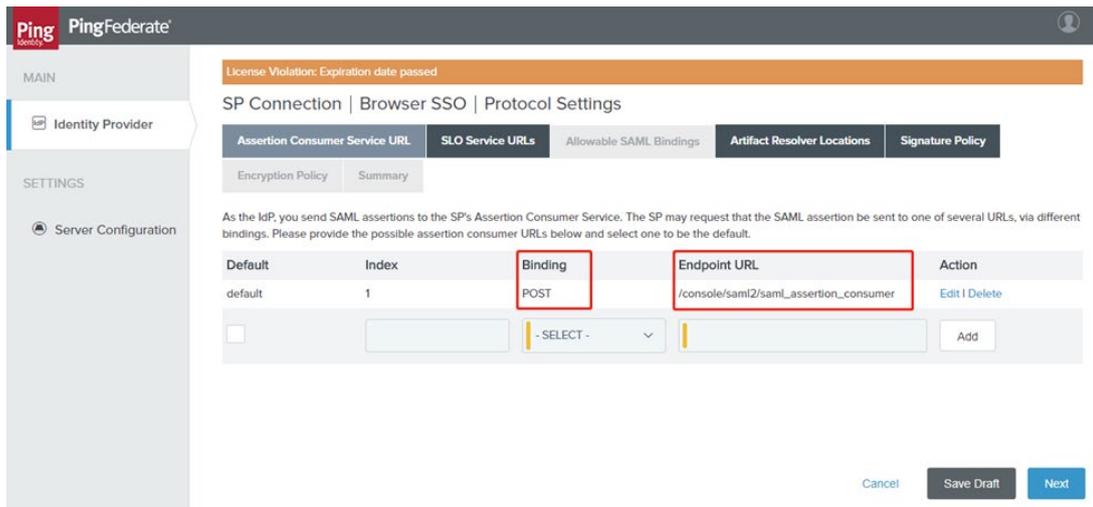
Step 4: Configuring Protocol Settings

To configure protocol settings:

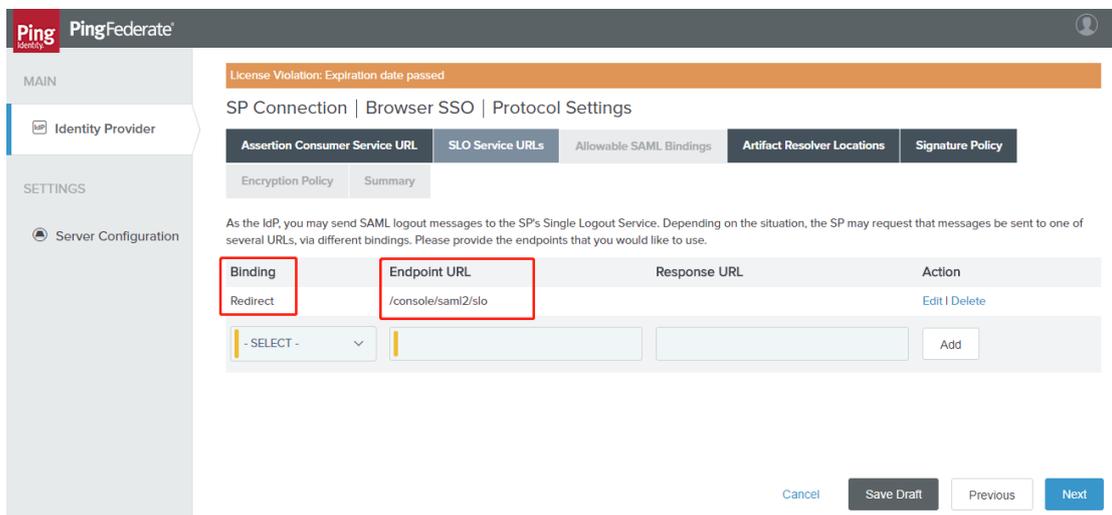
- 1 On the **Protocol Settings** tab, click **Configure Protocol Settings**.



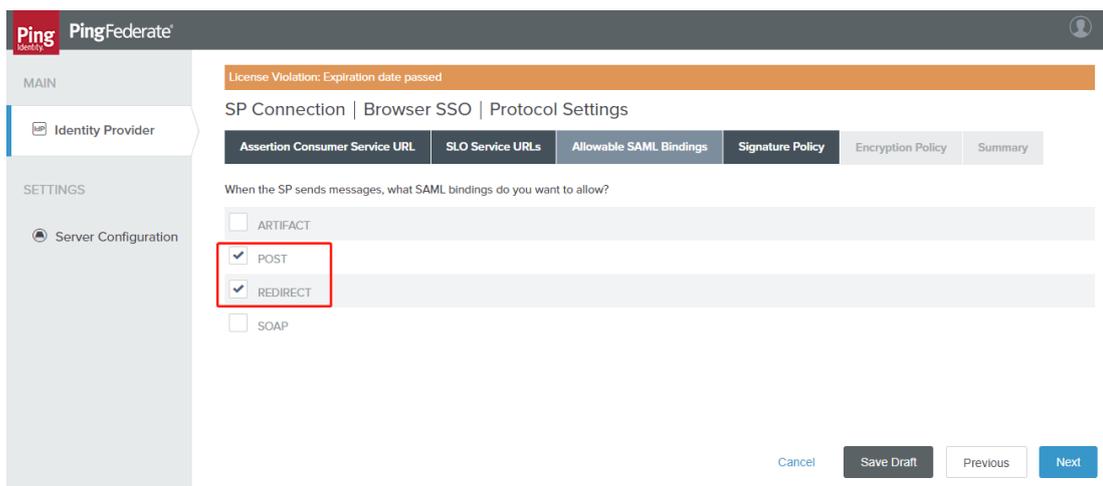
- 2 On the **Assertion Consumer Service URL** tab, ensure the **Binding** and **Endpoint URL** are set as below and click **Next**.



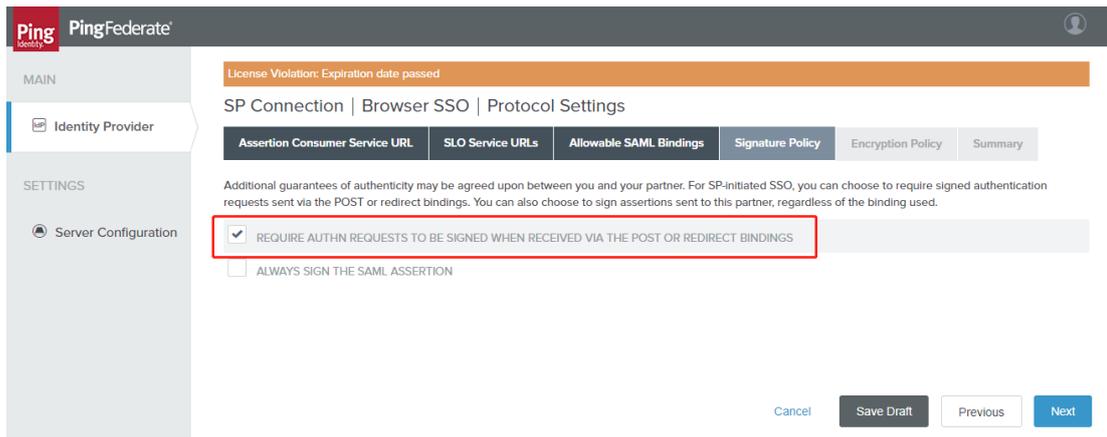
- 3 On the **SLO Service URLs** tab, ensure the **Binding** and **Endpoint URL** are set as below and click **Next**.



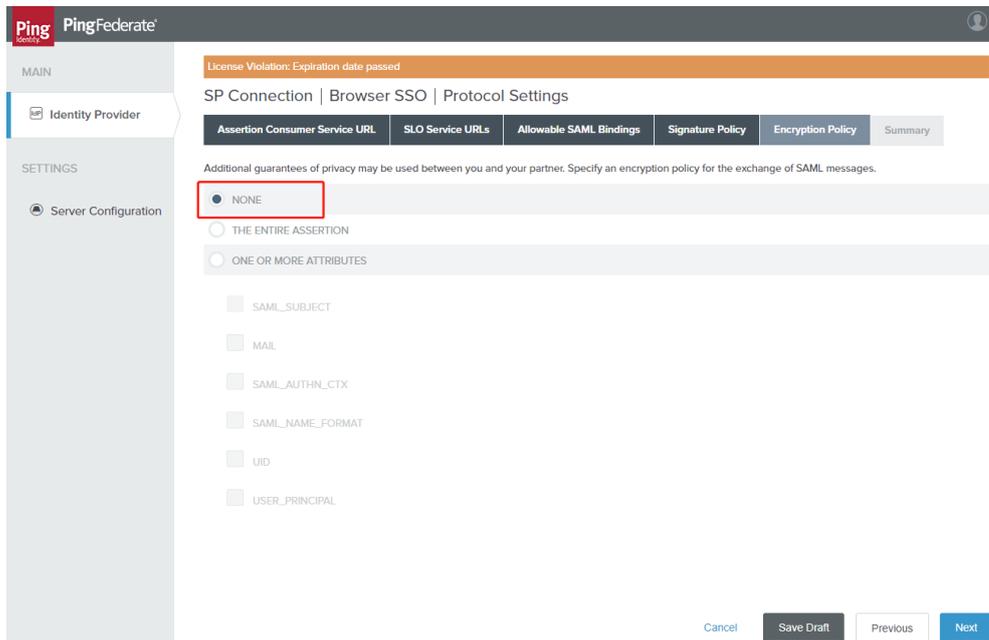
- 4 On the **Allowable SAML Bindings** tab, select **POST** and **REDIRECT** and click **Next**.



- 5 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**.

The screenshot shows the PingFederate interface for configuring Protocol Settings. The left sidebar contains 'MAIN' with 'Identity Provider' selected and 'SETTINGS' with 'Server Configuration' selected. The main content area is titled 'SP Connection | Browser SSO | Protocol Settings' and includes a navigation bar with tabs: 'Assertion Consumer Service URL', 'SLO Service URLs', 'Allowable SAML Bindings', 'Signature Policy', 'Encryption Policy', and 'Summary'. Below the navigation bar, there is a summary paragraph and a 'Protocol Settings' section with the following configuration details:

Assertion Consumer Service URL	
Endpoint	URL: /console/saml2/saml_assertion_consumer (POST)
SLO Service URLs	
Endpoint	URL: /console/saml2/slo (Redirect)
Allowable SAML Bindings	
Artifact	false
POST	true
Redirect	true
SOAP	false
Signature Policy	
Require digitally signed AuthN requests	true
Always sign the SAML Assertion	false
Encryption Policy	
Status	Inactive

At the bottom right, there are buttons for 'Cancel', 'Save Draft', 'Previous', and 'Done'.

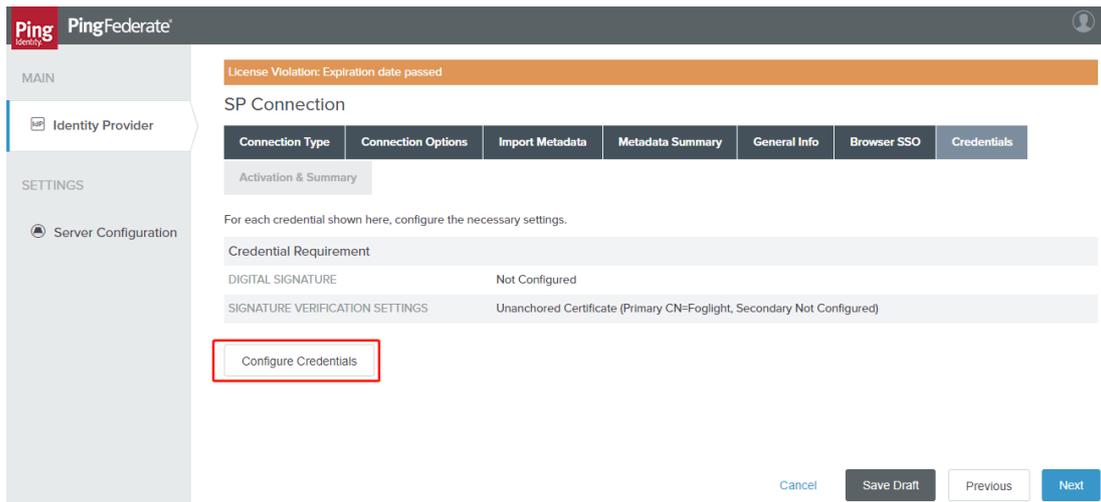
- 8 On the **Protocol Settings** tab, click **Next**.
- 9 On the **Browser SSO Summary** tab, click **Done**.
- 10 On the **Browser SSO** tab, click **Next**.

The screenshot shows the PingFederate interface for configuring Browser SSO. The left sidebar is the same as in the previous screenshot. The main content area is titled 'SP Connection' and includes a navigation bar with tabs: 'Connection Type', 'Connection Options', 'Import Metadata', 'Metadata Summary', 'General Info', 'Browser SSO', and 'Credentials'. The 'Browser SSO' tab is active, showing an 'Activation & Summary' section with the text: 'This task provides connection-endpoint and other configuration information enabling secure browser-based SSO, to resources at your partner's site. Click the button below to create or revise this configuration.' Below this is a 'BROWSER SSO CONFIGURATION' section with a 'Configure Browser SSO' button. At the bottom right, there are buttons for 'Cancel', 'Save Draft', 'Previous', and 'Next'.

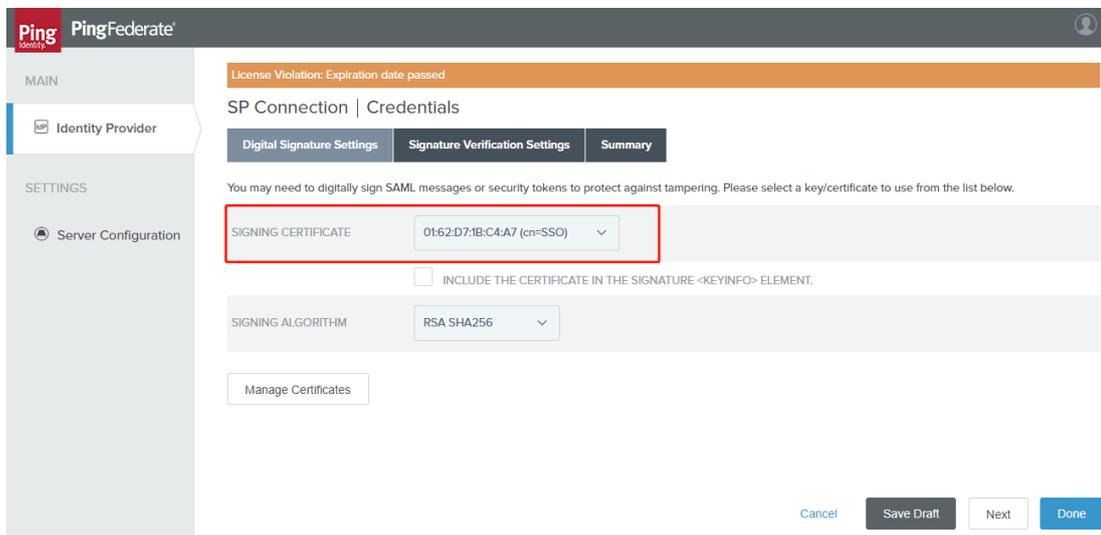
Step 5: Configuring Credentials

To configure credentials:

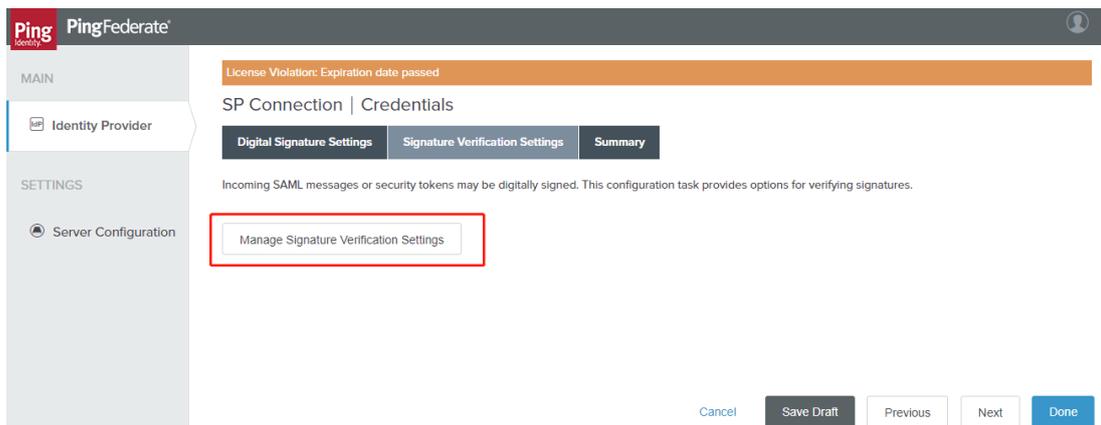
- 1 On the **Credentials** tab, click **Configure Credentials**.



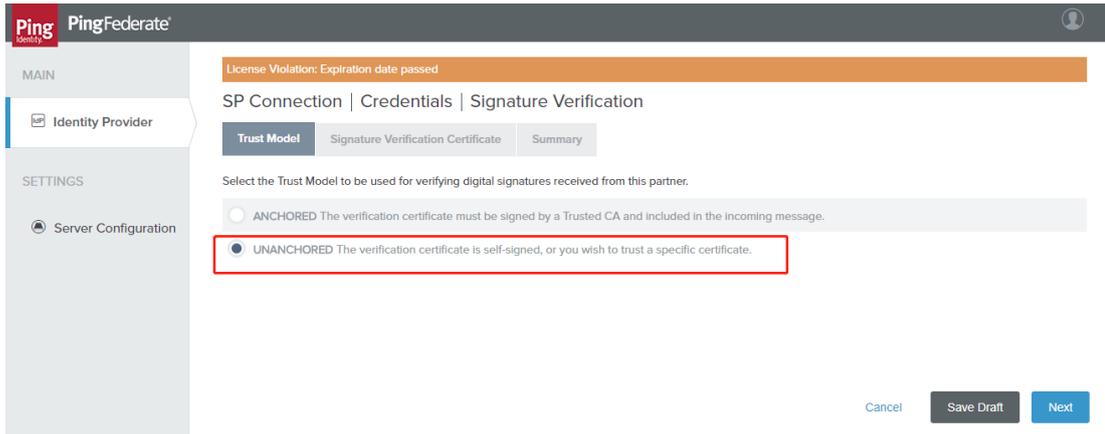
- 2 On the **Digital Signature Settings** tab, select the Signing Certificate to use the SSO service and click **Next**.



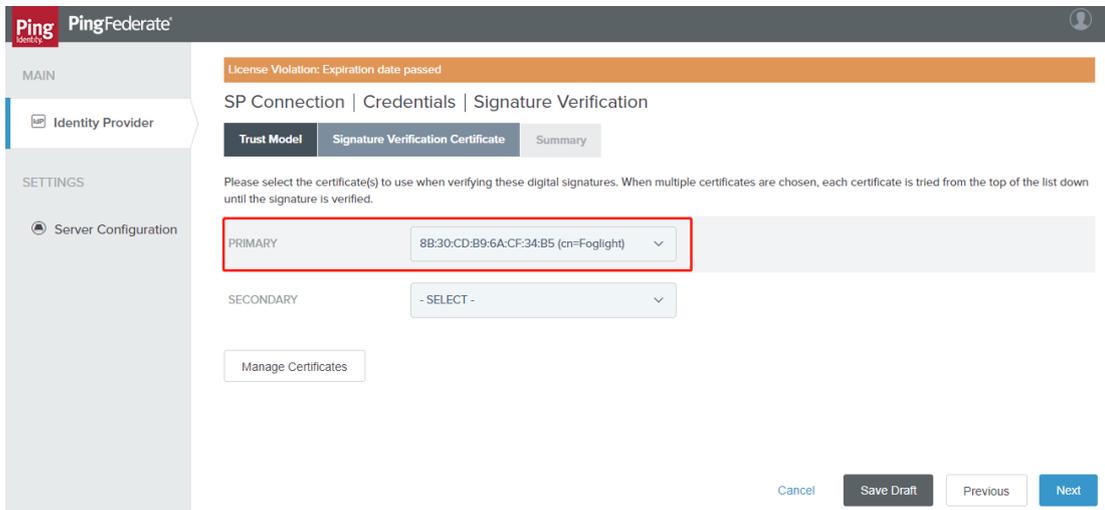
- 3 On the **Signature Verification Settings** tab, click **Manage Signature Verification Settings**.



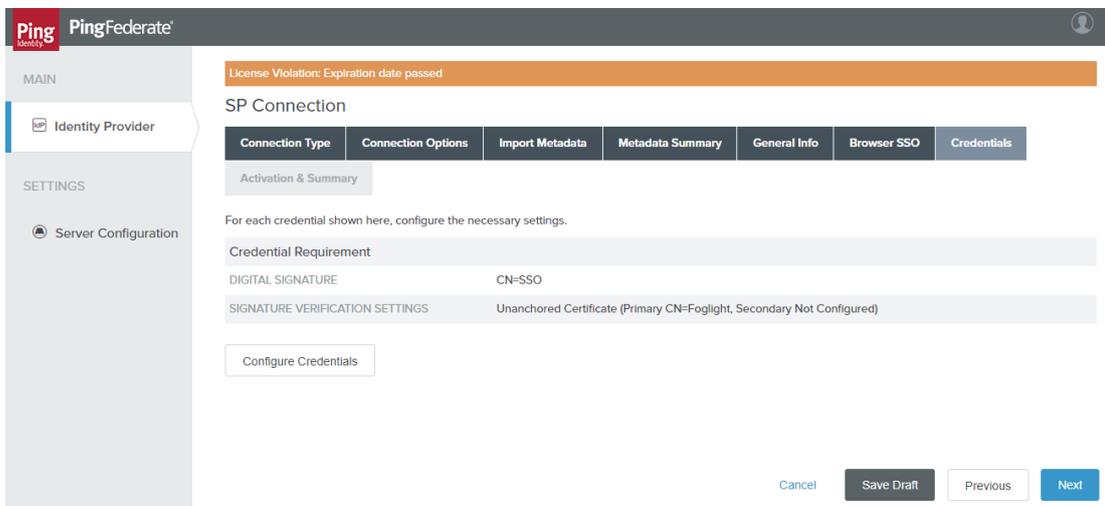
- 4 On the **Trust Model** tab, select the **UNANCHORED** option and click **Next**.



- 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**.

PingFederate

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

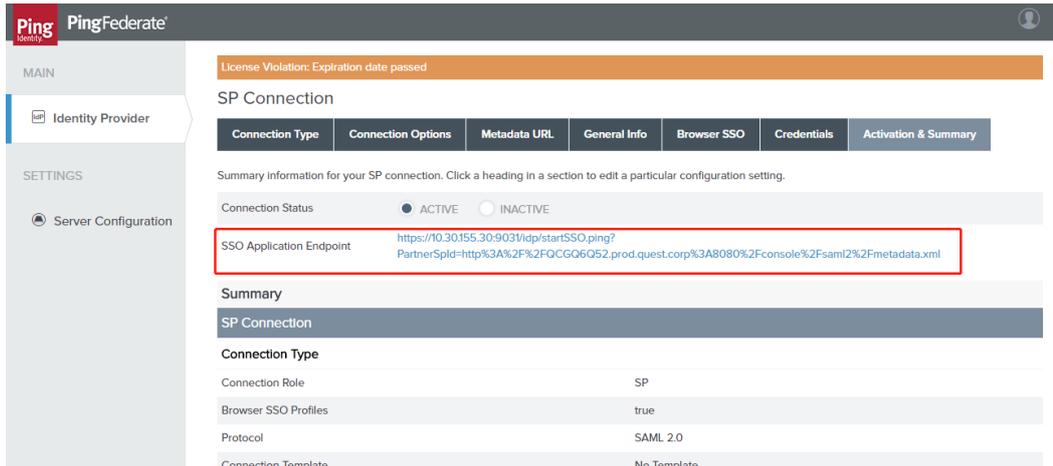
Enable IdP Discovery false

Federation Info

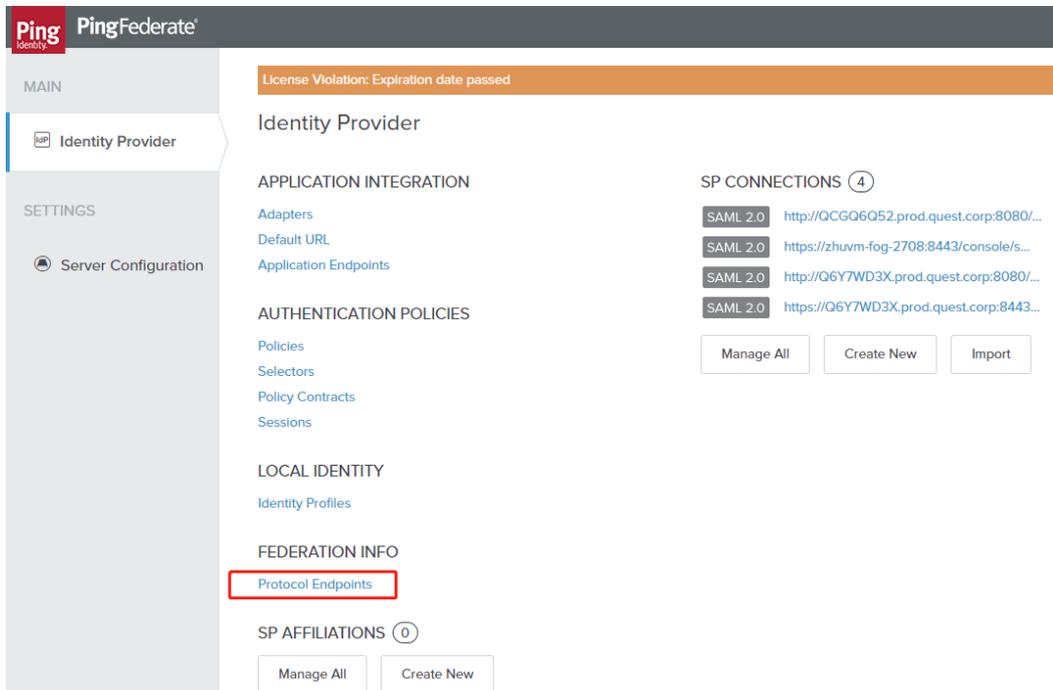
My Base URL https://10.30.155.30:9031

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.



- 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**.



- 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:

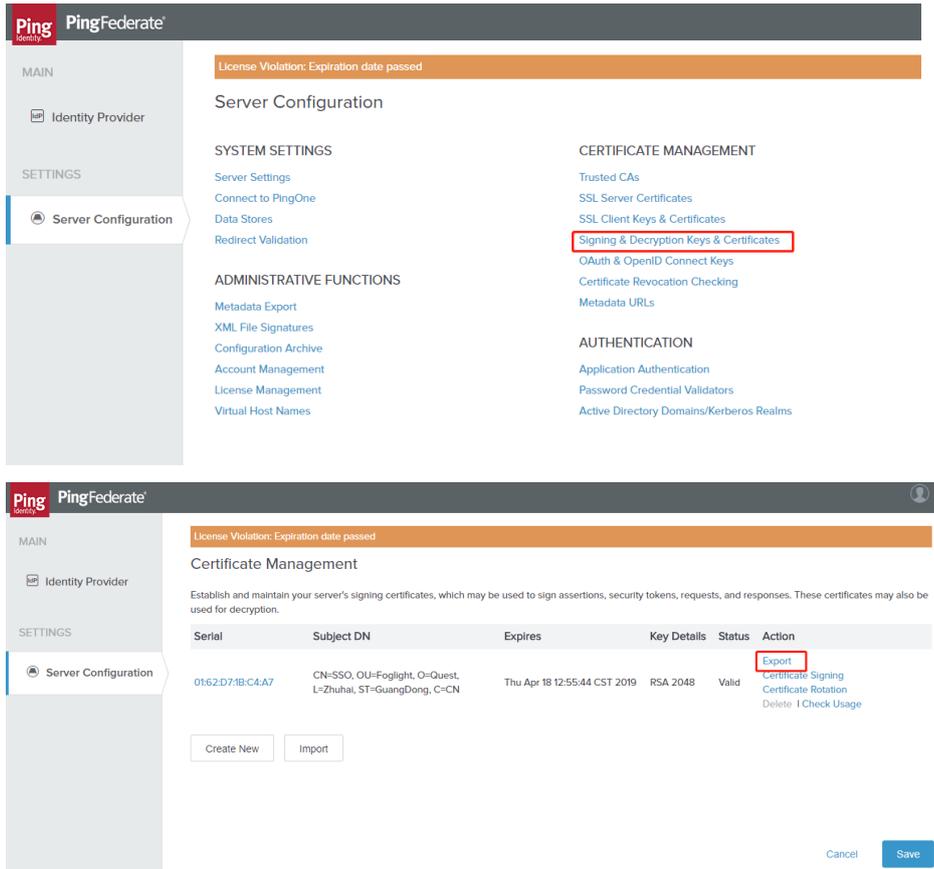
```

<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>

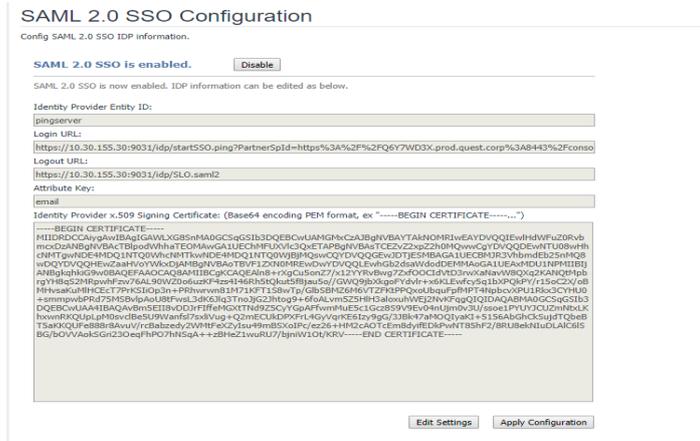
```

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, sAMAccountName 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.

SAML 2.0 SSO Configuration

Config SAML 2.0 SSO IDP information.

SAML 2.0 SSO is enabled.

SAML 2.0 SSO is now enabled. IDP information can be edited as below.

Identity Provider Entity ID:

Login URL:

Logout URL:

Attribute Key:

Identity Provider x.509 Signing Certificate: (Base64 encoding PEM format, ex "-----BEGIN CERTIFICATE-----")

```
-----BEGIN CERTIFICATE-----
MIIDRDCCAgwBAglGAWLXGSSnMADGCSqGSIb3DQEBCwUAMHghbCzA3BglVBAITAKIOMRiwEAYD
VQIQEiHh8VZzRvbmcc2pA8BjVBACTBpovVhhtTEOMawGAlUECNIHfYVQcQETAPBjVBAIT
CE2vZ2xpZ2h0MQwwCgYDVQQDEWlTU08wHhchHTGwvDE4NDQ1NTQ0VWkxNTU0NDQ1NTQ0VWJj
MQswCQYDVQQGEwJ1ESBBAQIUECBKIR3vAbmdE25M08wDQYDVQQHEVZaaHroYVYxODQjAMBgNV
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-----END CERTIFICATE-----
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