

Foglight® 6.0.0

Integration with SAML 2.0 in ADFS



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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 ADFS

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 ADFS sever.

i **NOTE:** ADFS requires https protocol, so Foglight's http SAML login cannot be used on ADFS. Foglight https SAML login could be using either IP address or the host name. For detailed configurations about IP or host name logon, see Before you begin, step 8 & 9 in the Step 1: Adding Relying Party Trust in ADFS section, and step 3 in the Step 3: Configuring Endpoints section.

- Before you begin
- Step 1: Adding Relying Party Trust in ADFS
- Step 2: Editing Claim Rules
- Step 3: Configuring Endpoints
- Step 4: Configuring Signature and Hash Algorithm
- Step 5: Exporting the Certificate
- Step 6: Configuring the Trust Relationship
- Step 7: 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 in to 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:

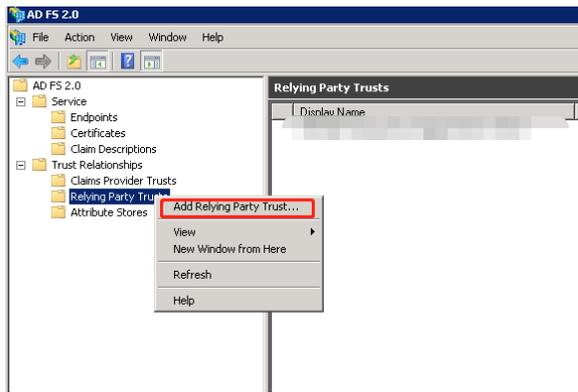
- 1 Log into the Foglight Management Server as the Administrator.
- 2 Under **Dashboards**, click **Administration > Users & Security**, and then click **SAML 2.0 Integration Settings**. The *SAML 2.0 SSO Configuration* dashboard appears.
- 3 Click **Enable**.



Step 1: Adding Relying Party Trust in ADFS

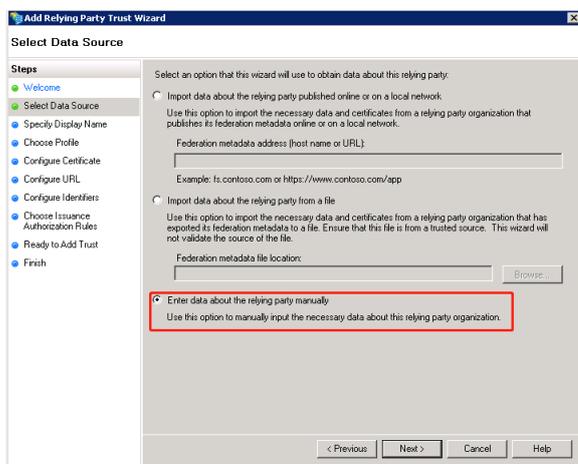
To add Relying Party Trust:

- 1 Open the ADFS Management Console.
- 2 Navigate to **Trust Relationships > Relying Party Trusts**. Right click **Relying Party Trusts**, and then select **Add Relying Party Trust...** from the context menu.



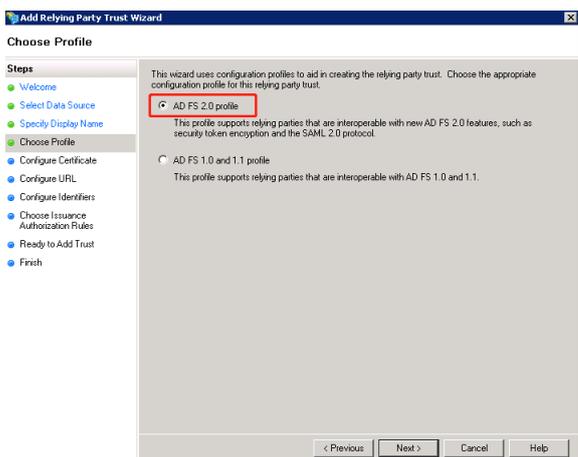
3 Click **Start** on the *Add Relying Party Trust Wizard*.

4 *Select Data Source*: Select **Enter data about the relying party manually** and click **Next**.



5 *Specify Display Name*: Specify a display name and click **Next**.

6 *Choose Profile*: Select **AD FS 2.0** and click **Next**.

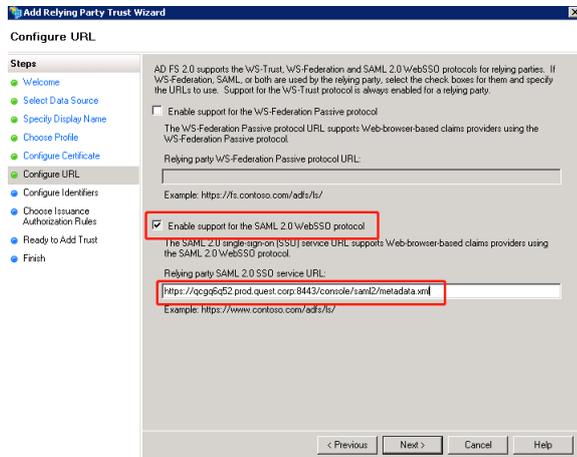


7 *Configure Certificate*: Click **Next**.

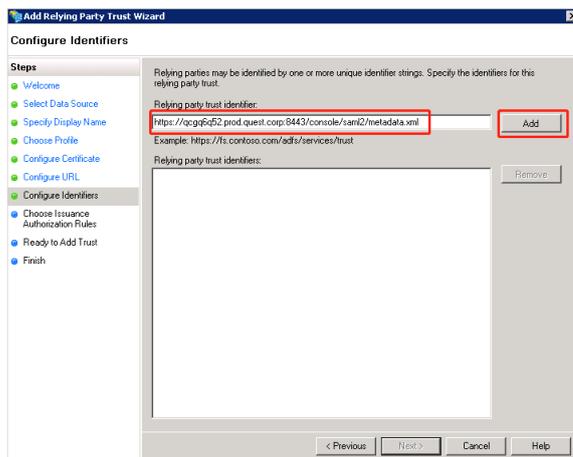
8 *Configure URL*: Select **Enable support for the SAML 2.0 WebSSO protocol**, and then input Foglight's SAML 2.0 metadata URL in https, which is:

i NOTE: ADFS requires https protocol, so Foglight's http SAML login cannot be used on ADFS.

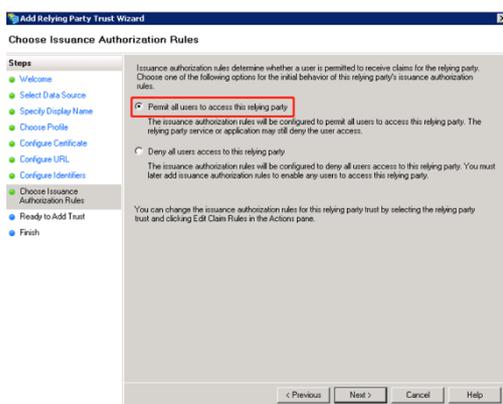
- IP logon: <https://<foglflight-server-ip>:<foglflight-ssl-port>/console/saml2/metadata.xml>. Click **Next**.
- Host name logon: <https://<foglflight-server-host-name>:<foglflight-ssl-port>/console/saml2/metadata.xml>. Click **Next**.



- 9 *Configure Identifiers*: Input Foglight's SAML 2.0 metadata https URL used in step 8 in the **Relying party trust identifier** field, click **Add**, and then click **Next**.

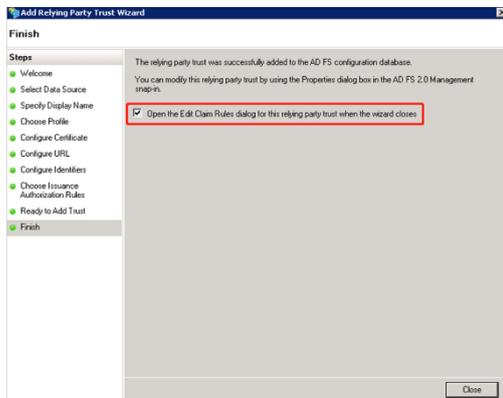


- 10 *Choose Issuance Authorization Rules*: Select **Permit all users to access this relying party** and click **Next**.



11 *Ready to Add Trust*: Click **Next**.

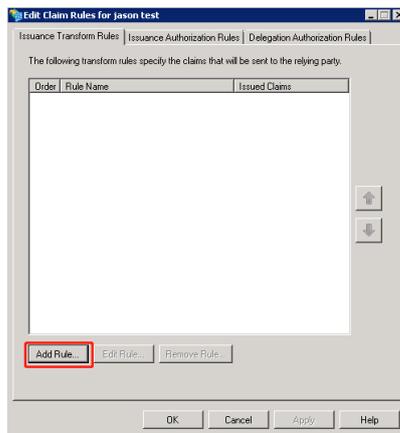
12 *Finish*: Make sure to select **Open the Edit Claim Rules dialog for this relying party trust when the wizard closes**, and then click **Close**.



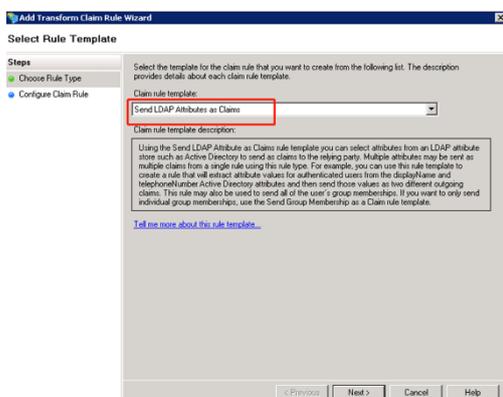
Step 2: Editing Claim Rules

To edit Claim Rules:

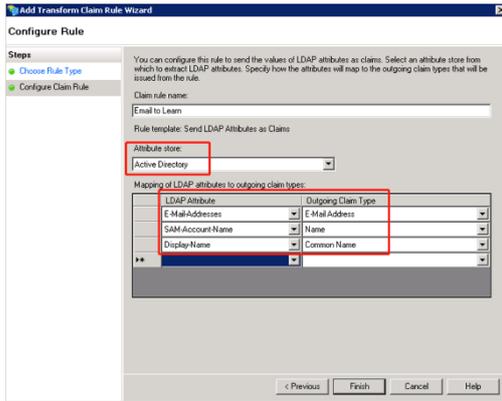
1 On the prompted **Edit Claim Rules** dialog box, click **Add Rule...**



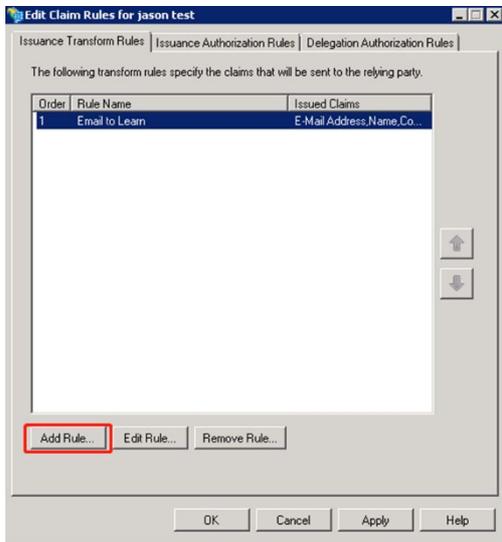
2 *Choose Rule Type*: Select **Send LDAP Attributes as Claims** and click **Next**.



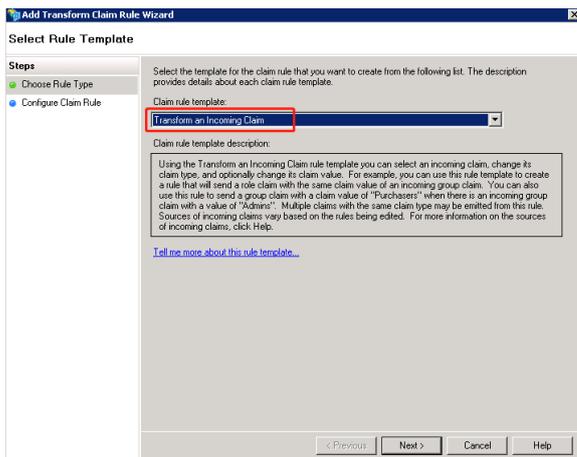
- 3 *Configure Claim Rule:* Specify a rule name, and select **Active Directory** as the **Attribute store**. Add LDAP attributes mapping as below, and then click **Finish**.



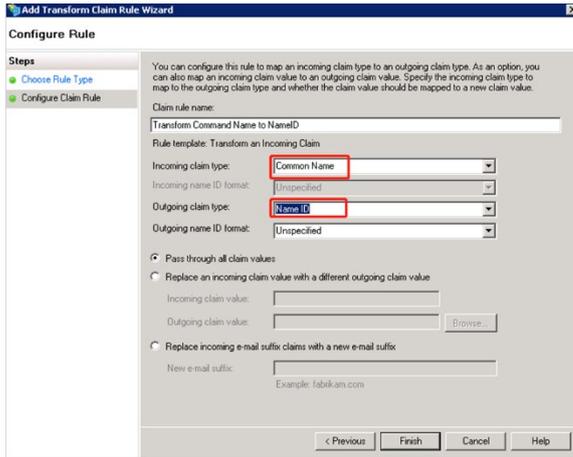
- 4 Click **Add Rule...** button again to add another rule on the **Edit Claim Rules** wizard.



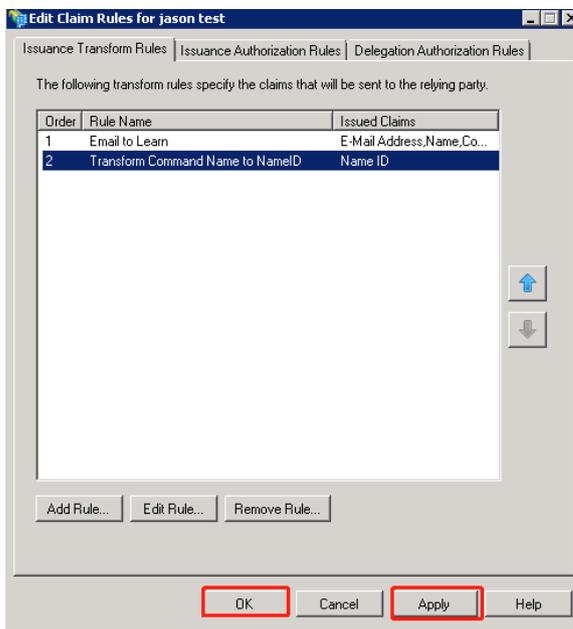
- 5 *Choose Rule Type:* Select **Transform an Incoming Claim** and click **Next**.



- 6 *Configure Claim Rule:* Specify a rule name and configure it as below, and then click **Finish**.



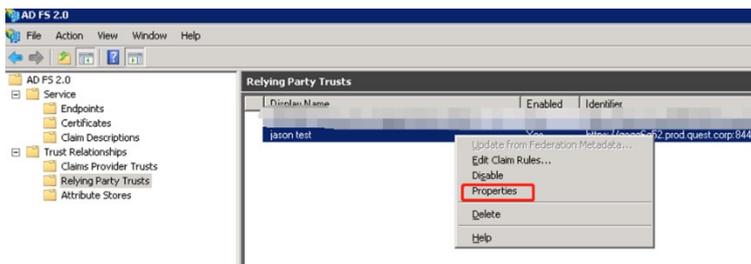
- 7 Click **Apply** to apply the configuration then click **OK** to close the **Edit Claim Rules** wizard.



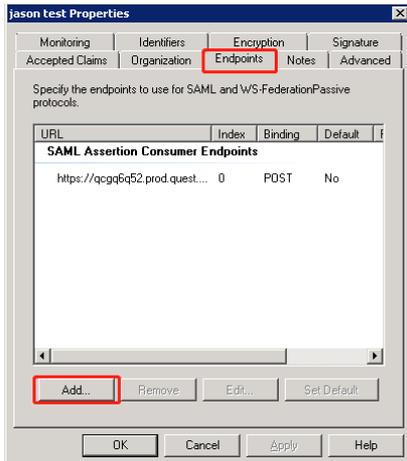
Step 3: Configuring Endpoints

To configure endpoints:

- 1 Right click the Relying party Trusts item that you added above, and then click **Properties**.



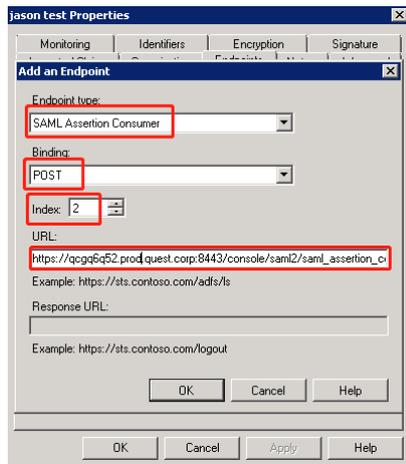
- 2 Select **Endpoints** on the **Properties** wizard, and then click **Add**.



3 You need add two Endpoints, including SAML Assertion Consumer endpoint and SAML Logout endpoint.

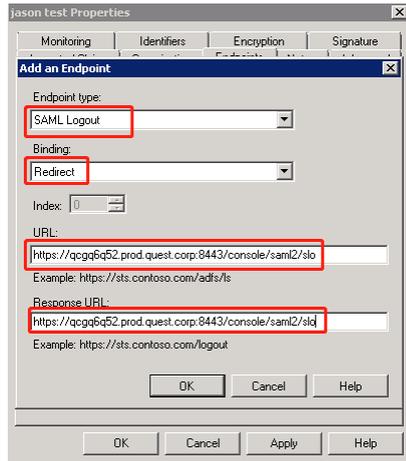
- a For the URL field of SAML Assertion Consumer endpoint, the value is:
 - IP logon: https://<foglight-server-ip>:<foglight-ssl-port>/console/saml2/saml_assertion_consumer
 - Host name logon: https://<foglight-server-host-name>:<foglight-ssl-port>/console/saml2/saml_assertion_consumer

Configure the other fields as below, and then click **OK** when you finish.

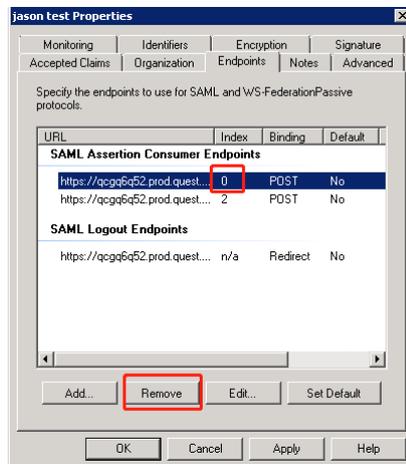


- b Both the URL and Response URL fields of SAML Logout endpoint are:
 - IP logon: <https://<foglight-server-ip>:<foglight-ssl-port>/console/saml2/slo>
 - Host name logon: <https://<foglight-server-host-name>:<foglight-ssl-port>/console/saml2/slo>

Configure the other fields as below, and then click **OK** when you finish.



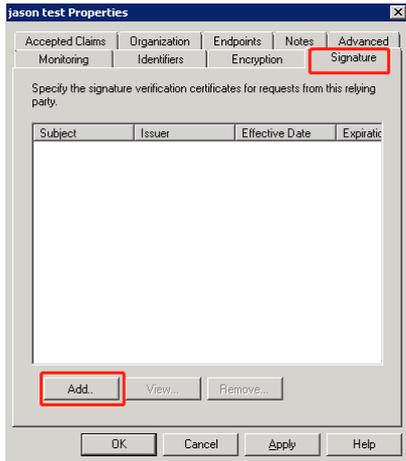
- c Select the default **SAML Assertion Consumer Endpoint** which index is 0, and then click **Remove** to delete it.



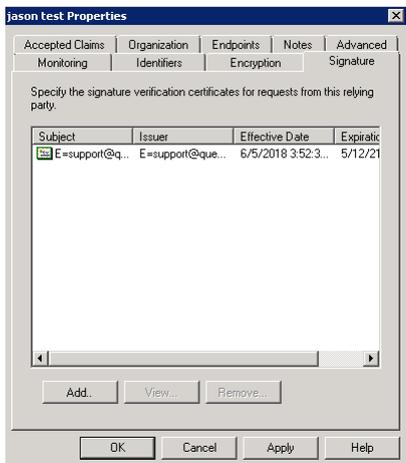
Step 4: Configuring Signature and Hash Algorithm

To configure Signature and Hash algorithm:

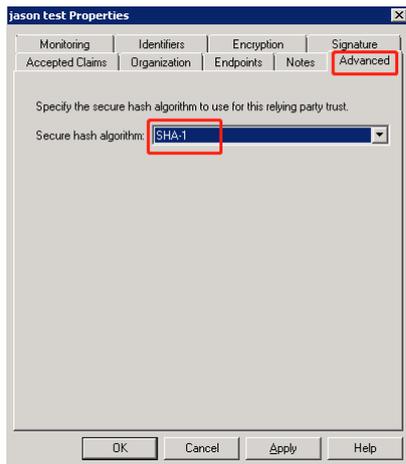
- 1 Select **Signature** on the **Properties** wizard, and then click **Add**.



- 2 Add a Foglight server's signature file. You can get a default one from `<foglight-server-directory>/config/sam_certificate.pem` or you can generate your own signature file.



- 3 After adding the signature file, select **Advanced** and choose **SHA-1** option for the **Secure hash algorithm** field, and then click **Apply**.

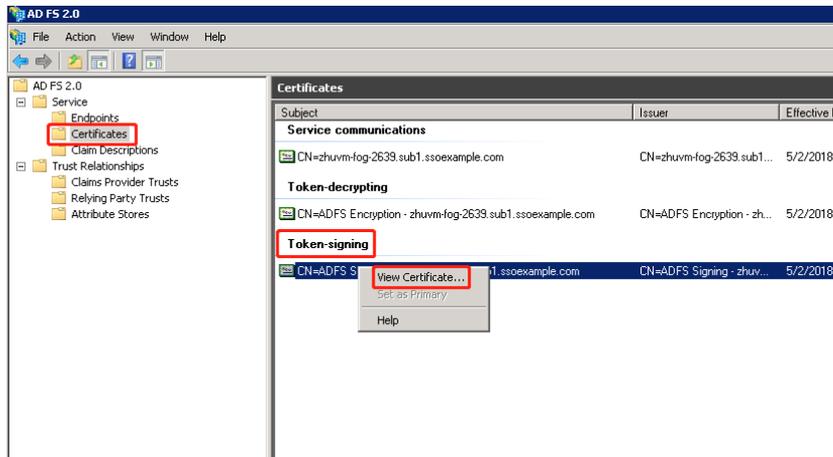


- 4 Click **OK** to finish the Properties configuration.

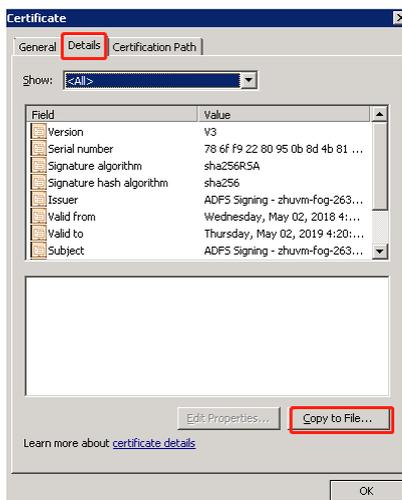
Step 5: Exporting the Certificate

To export the certificate:

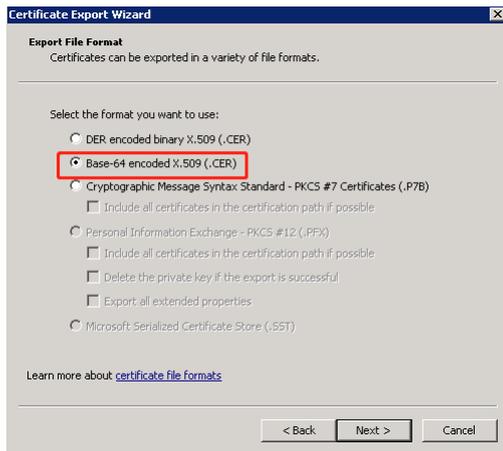
- 1 Navigate to **Service > Certificates** on the ADFS Management Console, right click the **Token-signing** item, and then click **View Certificate...**



- 2 Select **Details** on the pop-up **Certificate** wizard and click **Copy to File...** to export the certificate which will be used in the following Foglight SAML setup.



- 3 Select **Base-64 encoded X.509 (.CER)** format as the export file type.



Step 6: Configuring the Trust Relationship

To configure the trust relationship:

- 1 On the ADFS server machine, run PowerShell as administrator.
- 2 Run the following command to load the ADFS PowerShell module.
Add-PSSnapin Microsoft.Adfs.PowerShell
- 3 Run the following two commands to set up the trust relationship. You need to change the *<relying-party-trust-display-name>* to the **Display Name** of the Relying Party Trust that you have added in Step 1: Adding Relying Party Trust in ADFS.
 - *Set-ADFSRelyingPartyTrust -TargetName <relying-party-trust-display-name> -SigningCertificateRevocationCheck None*
 - *Set-ADFSRelyingPartyTrust -TargetName <relying-party-trust-display-name> -EncryptionCertificateRevocationCheck None*

Step 7: Setting up SAML in Foglight

To set up SAML in the Foglight Management Server:

- 1 Log into the Foglight Management Server as an administrator.
- 2 Under **Dashboards**, click **Administration > Setup > SAML 2.0 SSO**. The *SAML 2.0 SSO Configuration* dashboard appears.
- 3 Click **Edit Settings** and configure the SAML settings as below.

- a *Identity Provider Entity ID*: The value should be https://<ADFS_SERVER>/federationmetadata/2007-06/federationmetadata.
- b *Login URL*: The value should be https://<ADFS_SERVER>/adfs/ls/.
- c *Logout URL*: The value should be https://<ADFS_SERVER>/adfs/ls/.
- d *Attribute Key*: It depends on the identity key selected to identify the user. For example it can be <http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name>.
- e *Identity Provider x.509 Signing Certificate*: copy the content of the certificate file which you have exported in Step 5: Exporting the Certificate.

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-----
MIIDADCCAgEgAwIBAgIQeG/S1oC/C41lgVQGI/HuoPJANBgkqhkiG9w0BAQsFADA8
MTowOAYDVQQDEzFBREZlIFNpZ25pbmcgLS86aHv2bS1mb2ctMjYzOjSSzdWxLnNz
b2V4YW1wbGUuY29lMB4XDTE4MDUwMjA1MjE0DTE5MDUwMjA1MjE0DTE5MDUwMjA1MjE0
MDgGA1UEAxMxQURGLy8tYm9vaW5nLjE0Zm0Zm9nLTI1ZmZkZm9nLTI1ZmZkZm9nLTI1ZmZkZm9n
eGRTG9MLmV6TCAS1wDQYJKoZIhvcNAQEBBQADggEPADCCAQoCggEBAl9/g0rU
bvyvHxOCiQKQcZBuFgH5Glo3GCMyaVwoVIs+VQu2MheIk3z9jNlWd0Fbu
XyJ4zYKIB0UdK09GU/0+xpbyCVeed0IerzFkv9zGfCuo0jNcmkGHu87Ijpx+C
AyW6BSaqozZ2RPhRkbitoeM0DKu+oHMLwTlCwvtrb0INSJQsUR3WPxCPAUcUj
cAjYTUH8Bh6ozFCh7qQ2CIEIliwA6apFtsB8/z2hvcXbtFxcUjVejn/MZYM6
LpXXIgo9Ht5ppaudmII+BVAA6n6GF2Knczb239Vrs9nPFMaxAEn/coohVayQUjH2
48e0AKu/tqIBDCCAmEATAINBgkqhkiG9w0BAQsFAAQCAQELTlFhseWISPHIz
H7UfJ7h1EIk4/Zj9mg0eb0uzccqPH4bTqyB0+VpJC+Qz2o/EPjEla+1VUJAK
3+9sfazZ7B3kQLxLNAQ03vAHd9J5huGZyP.TgoMfjvBFj6ouRVL0PXS3uIU
ytv0S34qnlAlx8YRi78nlHZlidi1p9zTh/xdabiQ+3mvZV4r/b2+1sQvZDTHT
9q0BlMFmgasYHr0sY5jHMHY08ks8PymK Taj+k4hpZT oPLhwFozzrINS+gHjPLY
kg+CABjFfwhnTPmbwvjfH0s38ZWN62KAV4konThkVf5tgxqvYISFNhwgpgVxj/1+
QnxXlW==
-----END CERTIFICATE-----
```

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

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

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