

Foglight[®] 7.1.0

Integration with SAML 2.0 in Azure AD



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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.

Foglight® 7.1.0 – Integration with SAML 2.0 in Azure AD Foglight Version– 7.1.0

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Configure Foglight with Azure AD

 NOTE: To use SAML SSO with Azure Active Directory (AAD), a Premium edition of AAD is required. Go to: https://azure.microsoft.com/en-us/pricing/details/active-directory/ for more details. AAD requires HTTPs protocol, therefore Foglight's HTTP SAML login cannot be used on AAD. Foglight HTTPs SAML login supports either the IP address or the host name. For detailed configurations about IP or host name login, see Before you begin and Step 2: Configuring SAML SSO on AAD.

Before you begin

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 a Security 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, which will be imported to Azure AD in Step 2: Configuring SAML SSO on AAD.

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: Adding Enterprise Application in AAD

To add an Enterprise Application in AAD:

1 Go to:

https://portal.azure.com/#blade/Microsoft_AAD_IAM/StartboardApplicationsMenuBlade/AllApps/me nuld/

2 Click **New Application** as shown in the figure below.



Foglight® 7.1.0 – Integration with SAML 2.0 in Azure AD Configure Foglight with Azure AD 3 Then, click **Non-gallery application** as shown in the figure below.



4 Input the Name of your application and click **Add**.

Add an application		Ŕ	×	Add your own application $\ \ \Box \ \times$
Add your own app			-	* Name 🗿
Application you're developing Register an app you're working on to integrate it with Azure AD	On-premises application Configure Azure AD Application Proxy to enable secure remote access	Non-gallery application Integrate any other application that you don't find in the gallery		The display name for your new application Once you decide on a name for your new application, click the "Add" button below and we'll walk you through some simple configuration steps to get the application working. Supports:
Add from the gallery				SAML-based single sign-on Learn more
Featured applications				Password-based single sign-on Learn more

5 Click **Users and groups** to add a user or a group who needs an access to the application. The assigned user will be able to see the application on the access panel.

«	💼 Delete	
🐫 Overview		_
💅 Getting started	Total Users	
🕮 Deployment Plan	0	
Manage		
Properties		
Swners		
x ^R Users and groups	App usage between 2/6/2019 and 3/8/2019	
Single sign-on	100 FOGLIGHT_T	
Provisioning	80	
Application proxy	50	
Solf-convice	00	
Self-Selvice		

foglight_test - Users and	groups	
«	🕂 Add user 💉 Edit 🗴 Remove 🔎 Update Credentials	Columns
4 Overview	The application will appear on the access panel for assigned user	s. Set 'visible to users?' to no in properties to prevent this. $ ightarrow$
🛫 Getting started		
Doployment Plan	First 100 shown, to search all users & groups, enter a display name.	
		OR LECT TYPE
Manage		object the
	No application assignments found	
Properties		
🗳 Owners		
x ^R Users and groups		
Single sign-on		
Provisioning		

Step 2: Configuring SAML SSO on AAD

To configure SAML SSO on AAD:

1 Click **Single sign-on** > **SAML**. A *SAML-based sign-on* page will open.

foglight_test - Single sign-on			
« 🗮 Overview	Select a single sign-on method He	lp me decide	•
🥳 Getting started			
🕮 Deployment Plan	Disabled User must manually enter their	<u>्</u> रि	SAML Rich and secure authentication to
Manage	username and password.		applications using the SAML (Security Assertion Markup Language) protocol
Properties			Assertion Markup Language, protocol.
🍰 Owners			
x ^A Users and groups	1		
Single sign-on			
Provisioning			
Application proxy			
Self-service			



2 Click the edit icon on the upper right of **Basic SAML Configuration** section as shown in the figure above. Then, upload the Foglight SSO metadata file.

Identifier and Reply URL should be automatically filled.

Make sure the contents are as expected.

- IP login: https://<foglight-server-ip>:<foglight-ssl-port>/console/saml2/metadata.xml.
- Host name login: https://<foglight-server-host-name>:<foglight-sslport>/console/saml2/metadata.xml.

Basic S	AML Configuratior				
Save	↑ Upload metadata file				
Identifie	r (Entity ID) (Required	•			
Reply UI	RL (Assertion Consum	er Service URL) (I	Required) 👩		
Sign on	URL (Optional) 👔				
Sign on	URL (Optional) 👩				 ✓
Sign on	URL (Optional) 🛛				✓
Sign on Enter a si Relay Sta	URL (Optional) 👩 gn on URL ate (Optional) 👩				✓
Sign on Enter a si Relay Sta	URL (Optional) 🕢 gn on URL ate (Optional) 🗿				✓ _
Sign on Enter a si Relay Sta	URL (Optional) 🕡 gn on URL ate (Optional) 🕕 lay state				✓
Sign on Enter a si Relay Sta Enter a re	URL (Optional) 🕢 gn on URL ate (Optional) 🕡 lay state JRL (Optional) 👔				✓

3 Click Save.

Step 3: Selecting Attribute Key

To select an attribute key:

1 In the *SAML-based sign-on* blade, click the edit icon on the upper right of *User Attributes & Claims* section.

Basic SAML Configuration	/
Identifier (Entity ID)	Required
Reply URL (Assertion Consumer Service URL)	Required
Sign on URL	Optional
Relay State	Optional
Logout Url	Optional
User Attributes & Claims	
Givenname	user.givenname
Surname	user.surname
Emailaddress	user.mail
Name	user.userprincipalname
Unique User Identifier	user, user principal name
SAML Signing Certificate	/
Status	Active
Thumbprint	4578EEED29167DC0224B44FA49859092ECBB2B17
Expiration	3/8/2022, 11:22:29 AM
Notification Email	
App Federation Metadata Url	https://login.microsoftonline.com/94172181-7df0-4

2 Record the **CLAIM NAME** you want to use, which will be needed later in Step 5.

User Attributes & Claims		
+ Add new claim		
Name identifier value: user.userprincipalname [nameid-format:emailAddress Groups returned in claim: None]	
CLAIM NAME	VALUE	
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress	user.mail	
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	user.givenname	
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	user.userprincipalname	
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nameidentifier	user.userprincipalname	
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	user.surname	

Step 4: Exporting the Certificate

To export the certificate:

1 In the *SAML-based sign-on* blade, click the Download link of Certificate (Base64) in *SAML Signing Certificate* section.

W	elcome to the new experience for configuring SAML	based SSO. Please click here to provide feedback. $ ightarrow$	
tu	p Single Sign-On with SAML - Pre	eview	
ia ti	ne configuration guide or for help integrating te	te.	
	Basic SAML Configuration		
	Identifier (Entity ID)	Required	
	Reply URL (Assertion Consumer Service URL)	Required	
	Sign on URL	Optional	
	Relay State	Optional	
	Logout Url	Optional	
	User Attributes & Claims		
	Givenname	user.givenname	
	Surname	user.surname	
	Emailaddress	user.mail	
	Name	user.userprincipalname	
	Unique User Identifier	user.userprincipalname	
	SAML Signing Certificate		
	Status	Active	
	Thumbprint	BD79AB1F2EA91FFFE13C1041522C0FD3AD1574EB	
	Expiration	2022/3/7 下午4:38:12	
	Notification Email	mark.bai@questfve.onmicrosoft.com	
	App Federation Metadata Url	https://login.microsoftonline.com/94172181-7df0-4	
	Certificate (Base64)	Download	
	Certificate (Raw)	Download	
	Federation Metadata XML	Download	

2 Open the downloaded certificate file as a text file, which will be needed in Step 5.

Step 5: Setting up SAML in Foglight

To set up SAML in Foglight Management Server:

- 1 Log in to the Foglight Management Server as a Security Administrator.
- 2 Under **Dashboards**, click **Administration** > **Users & Security**> **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 is in AAD *SAML-based sign-on* blade section 4, marked as *Azure AD Identifier*.
 - b) Login URL: The value is in AAD SAML-based sign-on blade section 4, marked as Login URL.
 - c) Logout URL: The value is in AAD SAML-based sign-on blade section 4, marked as Logout URL.
 - d) *Attribute Key*: It is the CLAIM NAME you chose in Step 3. 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 exported in Step
 4: Exporting the Certificate.
- 4 Click **Apply Configuration** to save the configuration.

Then, the configuration of integrating SAML 2.0 SSO with the Foglight Management Server in AAD is completed.

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