

Single Sign On



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Chapter 1

Overview

Topics:

- Overview of Single Sign-On
- SSO Workflow

Overview of Single Sign-On

SSO is a process that allows pre-authenticated users to access APM, without having to re-enter their credentials.

The APM user logs on initially using a form-based enterprise login screen. SSO is a common procedure in enterprises, where a user logs in once and gains access to different applications without the need to reenter log-in credentials at each application. SSO authentication facilitates seamless network resource usage. SSO mechanisms vary, depending on application type.

SSO advantages include:

- Eliminates credential re-authentication.
- Streamlines local and remote application and desktop workflow.
- Minimizes phishing.
- Improves compliance through a centralized database.
- Provides detailed user access reporting.

APM supports the following types of authentication for SSO:

- Pass-through authentication Enables the users to enter their Windows credentials in the APM login page and APM validates the credentials against Active Directory.
- Security Assertion Markup Language (SAML) authentication
 Enables the users to navigate to the SSO URL (hosted on the APM Application Server) that redirects
 the browser to a preconfigured URL (not hosted on the APM Application Server), which is the Identity
 Provider (IDP). If there are multiple databases, and when the user selects a database, the user account
 is then authenticated and the IDP provides the web browser a token through a cookie. If the token is
 valid, the user can access APM.

SSO Workflow

This workflow provides the basic, high-level steps for using this module. The steps and links provided in the workflow do not necessarily reference every possible procedure.

Procedure

- 1. Set up APM SSO by configuring an identity provider.
- 2. Enable SSO on-site or off-site authentication.
- 3. Configure the APM server.

Chapter

2

Set up APM SSO

Topics:

- About Setting Up APM SSO
- Configure Azure Active Directory as the Identity Provider (IDP)
- Configure Identity Provider
 (IDP) on Active Directory

About Setting Up APM SSO

About Setting up APM SSO

To set up APM SSO, perform one of the following tasks:

- Configure Azure Active Directory as the Identity Provider (IDP)
- Configure IDP on Active Directory

Configure Azure Active Directory as the Identity Provider (IDP)

Configure Azure Active Directory as the Identity Provider (IDP)

Before You Begin

You must have an Azure Active Directory (Azure AD) instance.

Procedure

1. Sign in to the Azure portal and select **Azure Active Directory**.



In the navigation pane, select Enterprise applications.
 The Enterprise applications - All applications page appears.

	K Home > Enterprise applications - All	applications				
+ Create a resource	Enterprise application: apmtestad - Azure Active Directory	s - All applications				
🛧 Home	Overview	 ≪ ► New application ■■ Columns 				
■ All services	 Overview 	Application Type Enterprise Applications	Applications status	Application visibility Any	Apply Reset	
* FAVORITES	Manage	Cint 50 shows to search all afores and		institut (D		-
App Services	All applications	Plast 30 shown, to search all of your app	nicutions, enter a aisplay name or the appl	opurer in		
Function App	Application proxy	NAME	HOMEPAGE ORL	OBJECT ID		
SQL databases	User settings		Jemer	a5055119-db45	-4923-956d-d7570621	46ed8t77-e062-4bce-bb95
Azure Cosmos DB	Security	Asset Performance Manag	jemei	96d803e5-3016	-4896-81db-d28a75e9	2e54f355-2498-4a5a-93e9.
Virtual machines	Conditional Access	Office 365 Exchange Onlin	http://office.microsoft.com/ou	tlook/ 3b0e3709-93c	-4830-a33d-b96defd4	00000002-0000-0ff1-ce00
Load balancers	Activity	Office 365 Management A	APIs	5008761a-19dd	-48ed-b043-4e25bac0	c5393580-f805-4401-95e8-
Virtual networks	Sign-ins	Office 365 SharePoint Onli	ine http://office.microsoft.com/sh	arepoint/ dd333e69-4b2	c-4bda-bdf3-792fb39a	00000003-0000-0ff1-ce00
Azure Active Directory	👔 Usage & insights (Preview)	onprem-apm-test-NEW		ebe17c60-5f38	-4724-b8a8-330edb1f5	01c7ee4f-2f13-4119-b454-8
Monitor	Audit logs	Outlook Groups		7a4a6d0e-4dci	8-4be6-ab99-4d8b41ec	925eb0d0-da50-4604-a19f-
Advisor	Access reviews	Same Sign on		2f37ea7d-9962	-4694-bc77-d4f9d413	b12afa8d-6ecb-4fb6-b761-
J Security Center Cost Management + Bill	Virtual assistant (Preview)	SF Skype for Business Online		822dcb0d-e9a	2-44ff-aa0c-65d94227	00000004-0000-0ff1-ce00

3. Select New application. The Add an application section appears.

+ Create a resource	Categories	×	Add an application		☆ 🗆
A Home	All (3171)	-	Add your own app		
All services	Business management (400)		Application	On-premises	Non-gallery
+ FAVORITES	Collaboration (454)		developing		
Ann Sonicos	Construction (7)	_	Register an app you're	Configure Azure AD Application Proxy to	Integrate any other application that you
App Services	Consumer (44)		working on to integrate it with Azure AD	enable secure remote access	don't find in the gallery
SQL databases	Content management (153)				
🖉 Azure Cosmos DB	CRM (155)	_	Add from the gallery		
👤 Virtual machines	Data services (149)				
😔 Load balancers	Developer services (109)		Enter a name		
Storage accounts	E-commerce (75)		Featured applications		
😔 Virtual networks	Education (145)				
Azure Active Directory	ERP (92)		box	C	
Monitor	Finance (258)		COA		
🜪 Advisor	Health (63)		Box Con	cur Cornerstone O	
Cost Management - Bill	Human resources (290)				
 Cost Management + Bill Holp + support 	IT infrastructure (194)			σ	

4. Select Non-gallery application. The Add your own application section appears.

0	Home > apmtestad > Enterprise applic	ations - All	applications > Categories > Ad	d an application > Add your c	wn application		
+ Create a resource	Categories	×	Add an application		\$	×	Add your own application $\ \ \Box \ \times$
A Home	All (3171)	-	Add your own app			^	* Name 🚯
	Business management (400)	- 1	Application	On-premises	Non-gallery		The display name for your new application
	Collaboration (454)	- 1	you're	application	application		Once you decide on a name for your new
All resources	Construction (7)	- 1	Register an app you're	Configure Azure AD Application Proxy to	Integrate any other application that you		application, click the "Add" button below and
(Resource groups	Consumer (44)		working on to integrate it with Azure AD	enable secure remote access	don't find in the gallery		we'll walk you through some simple configuration steps to get the application
🔕 App Services	Content management (153)	- 1					working.
🤣 Function App	CRM (155)	- 1	Add from the gallery				Supports: 🚯
🤞 SQL databases	Data services (149)	- 1	Add from the gallery				SAML-based single sign-on
🖉 Azure Cosmos DB	Developer services (109)		Enter a name				Learninore
Virtual machines	E-commerce (75)		Featured applications				Automatic User Provisioning with SCIM Learn more
Load balancers	Education (145)						Password-based single sign-on
Storage accounts	ERP (92)		box	C			Learn more
Azure Active Directory	Finance (258)		COA				
Monitor	Health (63)		Box Con	cur Cornerstone C)		
Advisor	Human resources (290)	-				-	Add

5. In the **Name** box, enter a name for the application that you want to configure with Azure AD, and then select **Add**.

The page of the added application appears.

6. In the navigation pane of the application page, select **Single sign-on**. The **Select a single sign-on method** section appears.

*	Home > apmtestad > Enterprise applicat	ions - All applications 🗧 Asset Performance Management - Single sign-on	
+ Create a resource	Asset Performance Mana Enterprise Application	gement - Single sign-on	×
A Home	«		
🛄 Dashboard	📕 Overview 🌰	Select a single sign-on method Help me decide	
E All services	🥳 Getting started		
* FAVORITES	🕮 Deployment Plan	Disabled	
All resources	Manage	User must manually enter their V Rich and secure authentication to applications using the SAML (Security	
(🕄 Resource groups	Properties	Assertion Markup Language) protocol.	
🔇 App Services	Owners		
🦘 Function App	^A Users and groups		
SQL databases	Single sign-on		
🖉 Azure Cosmos DB	Provisioning	Password-based Continued	
Virtual machines	Application provy	web browser extension or mobile app. Active Directory Access Panel and/or	
💠 Load balancers	 Self-senvice 	Office 365 application launcher.	
Storage accounts	Sen service		
Virtual networks	Security		
Azure Active Directory	Conditional Access		
() Monitor	🔏 Permissions		
Advisor	Token encryption (Preview)		•

7. Select SAML.

The Set up Single Sign-On with SAML section appears.

eate a resource	Asset Performance Manage Enterprise Application	ement - SAN	/IL-based sign-on			
shboard	Overview	≪ ↑ Uplo	ad metadata file 🛛 🍤 Change single sign-on r	node 🔚 Validate this application 📔 🛡 Ge	ot feedback?	
services	💅 Getting started	Set up	o Single Sign-On with SAML			
/ORITES	臼 Deployment Plan	Read th	e configuration guide af for help integrating As	set Performance Management.		
resources	Manage	0	Desis CAMI, Configuration			
source groups p Services	Properties		Identifier (Entity ID)	Required		
action App	A Users and groups		Reply URL (Assertion Consumer Service URL) Sign on URL	Required Optional		
databases	Single sign-on		Relay State Logout Url	Optional Optional		
e Cosmos DB al machines	Provisioning	6			•	
balancers	 Application proxy Self-service 		User Attributes & Claims Givenname	user.givenname	-	
ge accounts	Security		Emailaddress	user.mail		
Active Directory	Conditional Access		Name Unique User Identifier	user.userprincipalname user.userprincipalname		
tor	A Permissions					
sor	Token encryption (Preview)	3	SAML Signing Certificate		× 1	

8. In the Basic SAML Configuration section, select 🖋.

The **Basic SAML Configuration** window appears.

 Save Identifier (Entity ID) The default identifier will be the audience of the SAML response for IDP-initiated SSO * Reply URL (Assertion Consumer Service URL) The default reply URL will be the destination in the SAML response for IDP-initiated SSO 	×
 * Identifier (Entity ID) The default identifier will be the audience of the SAML response for IDP-initiated SSO * Reply URL (Assertion Consumer Service URL) The default reply URL will be the destination in the SAML response for IDP-initiated SSO 	
* Reply URL (Assertion Consumer Service URL) The default reply URL will be the destination in the SAML response for IDP-initiated SSO	^
 ★ Reply URL (Assertion Consumer Service URL) ● The default reply URL will be the destination in the SAML response for IDP-initiated SSO 	- 1
★ Reply URL (Assertion Consumer Service URL) The default reply URL will be the destination in the SAML response for IDP-initiated SSO	- 1
★ Reply URL (Assertion Consumer Service URL) The default reply URL will be the destination in the SAML response for IDP-initiated SSO	- 1
The default reply URL will be the destination in the SAML response for IDP-initiated SSO	- 1
	- 1
	- 1
	- 1
Sign on URL 👩	- 1
Enter a sign on URL	- 1
	- 1
Relay State 👩	- 1
Enter a relay state	- 1
	- 1
Logout Url 👦	
Enter a logout url	

9. Enter the following details.

Identifier (Entity	Enter a unique ID.
ID)	Note: This ID will be used in the saml.json file for the service provider name. Therefore, note the ID.
Reply URL	The application callback URL where the response will be posted.
(Assertion	Enter the URL in the following format: https:// <apm name="" server="">/</apm>
Consumer Service	Meridium/api/v1/core/security/ssologinauth, where <apm server<="" td=""></apm>
URL)	Name> is the name of the APM server.
Sign on URL	The application URL, which initiates the same sign-on. Enter the URL in the following format: https:// <apm name="" server="">/ meridium/index.html, where <apm name="" server=""> is the name of the APM server.</apm></apm>

10. Select Save.

11. In the SAML Signing Certificate section, select Download corresponding to Certificate (Base 64).

12. From the **Set up <Identifier>,** section copy the Login URL and Azure AD Identifier.

Set up sdsso

You'll need to configure the application to link with Azure AD.

Login URL	https://login.microsoftonline.com/78dd76d6-f3b7	D
Azure AD Identifier	https://sts.windows.net/78dd76d6-f3b7-4b89-9ef	0
Logout URL	https://login.microsoftonline.com/78dd76d6-f3b7	0

Note: The Login URL and Azure AD Identifier will be used in the saml.json file for SingleSignOnServiceURL and PartnerIdentityProviderConfigurations Name, respectively.

13. In the application server, copy the downloaded Certificate (Base 64) to C:\Program Files\Meridium\ApplicationServer\api and install it. Please refer to section Install the Token Signing idp.cer Certificate on the Application Server on page 41, steps 5 - 8 for installing the certificate.

```
14. Modify the saml.json file found in C:\Program Files\Meridium\ApplicationServer \api as follows:
```

- LocalServiceProviderConfiguration Name with the value that you entered and noted for the Identifier (Entity ID) box.
- PartnerIdentityProviderConfigurations Name with the Azure AD Identifier.
- SingleSignOnServiceURL with the Login URL.
- AssertionConsumerServiceUrl with the URL that you entered in the Reply URL (Assertion Consumer Service URL) box.
- PartnerCertificates FileName with the downloaded certificate name.

```
"SAML":
{
    "$schema": "https://www.componentspace.com/schemas/saml-config-
schema-v1.0.json",
    "Configurations":
    [
    {
        "LocalServiceProviderConfiguration":
        {
            "Name": "sdsso",
            "AssertionConsumerServiceUrl": "https://<APM Server
Name>/Meridium/api/v1/core/security/ssologinauth",
            "LocalCertificates":
            ſ
            {
                "FileName": "sp.pfx",
                "Password": "password"
            1
        },
        "PartnerIdentityProviderConfigurations":
        Γ
        {
            "Name": "https://sts.windows.net/78dd76d6-f3b7-4b89-9efc-
ef8d5483b7ea/",
            "Description": "Azure AD",
            "SignAuthnRequest": true,
            "WantSamlResponseSigned": false,
            "WantAssertionSigned": true,
```

```
"WantAssertionEncrypted": false,
            "UseEmbeddedCertificate": false,
            "SingleSignOnServiceUrl": "https://
login.microsoftonline.com/78dd76d6-f3b7-4b89-9efc-ef8d5483b7ea/
saml2",
            "DigestAlgorithm": "http://www.w3.org/2001/04/
xmlenc#sha256",
            "SignatureAlgorithm": "http://www.w3.org/2001/04/xmldsig-
more#rsa-sha256",
            "PartnerCertificates":
            {
                 "FileName": "sdsso.cer"
            1
        1
    }
    1
}
```

15. Add users to the enterprise application by accessing the Users and groups section.

- a) Select Users and groups section in the left navigation pane.
- b) Click on Add user/group button to add a new user to this enterprise application. Search for the user in the Users list and then click on Assign.

Users are added to the enterprise application.

Next Steps

• Enable SSO

Configure Identity Provider (IDP) on Active Directory

About Configuring Identity Provider (IDP) on Active Directory

About This Task

You must configure IDP on Active Directory using the Active Directory Federation System (AD FS) Management Console.

Note: The strings and the URLs in AD FS are case-sensitive.

To configure IDP on Active Directory, you must perform the following tasks:

Procedure

- 1. Add Relying Party Trusts on page 10
- 2. Add Claim Rules on page 21
- 3. Add Certificates on page 27
- 4. Federation Service Identifier from ADFS on page 43

Add Relying Party Trusts

Before You Begin

- You must have administrative privileges to configure AD FS.
- Ensure that the /adfs/Is endpoint exists for SAML v2.0.

Note: To add adfs/ls endpoint, refer to the AD FS documentation.

• Ensure that the token encrypting certificates exist.

Procedure

- 1. Access Control Panel, then select System and Security, and then select Administrative Tools.
- 2. Select **AD FS Management**. The **AD FS** window appears.



3. In the Actions section, select Add Relying Party Trust. The Add Relying Party Trust Wizard appears.

\$ #	Add Relying Party Trust Wizard
Welcome	
Steps Welcome Select Data Source Configure Multi-factor Authentication Now? Choose Issuance Authorization Rules Ready to Add Trust Finish	Welcome to the Add Relying Party Trust Wizard This wizard will help you add a new relying party trust to the AD FS configuration database. Relying parties consume claims in security tokens that are issued by this Federation Service to make authentication and authorization decisions. The relying party trust that this wizard creates defines how this Federation Service recognizes the relying party rout and issues claims to t. You can define issuance transform rules for issuing claims to the relying party after you complete the wizard.
	< Previous Start Cancel

4. Select **Start**. The **Select Data Source** page appears.

\$	Add Relying Party Trust Wizard
Select Data Source	
 Steps Welcome Select Data Source Specify Display Name Choose Profile Configure Certificate Configure URL Configure Identifiers Configure Multi factor Authentication Now? Choose Issuance Authorization Rules Ready to Add Trust Finish 	Select an option that this wizard will use to obtain data about this relying party: Import data about the relying party published online or on a local network Use this option to import the necessary data and certificates from a relying party organization that publishes its federation metadata online or on a local network. Eederation metadata address (host name or URL): Example: fs.contoso.com or https://www.contoso.com/app Import data about the relying party from a file Use this option to import the necessary data and certificates from a relying party organization that has exported its federation metadata to a file. Ensure that this file is from a trusted source. This wizard will not validate the source of the file. Federation metadata file location: @ Enter data about the relying party manually Use this option to manually input the necessary data about this relying party organization.
	< <u>Previous</u> <u>N</u> ext > Cancel

5. Select Enter data about relying party manually, and then select Next. The Specify Display Name page appears.

\$	Add Relying Party Trust Wizard	x
Specify Display Name		
Steps	Enter the display name and any optional notes for this relying party.	
Welcome	Display name:	
Select Data Source	um:componentspace:Meridium	
Specify Display Name	Notes:	
 Choose Profile 		
 Configure Certificate 		
Configure URL		
 Configure Identifiers 		
Configure Multi-factor Authentication Now?		<u> </u>
 Choose Issuance Authorization Rules 		
 Ready to Add Trust 		
Finish		
	< <u>P</u> revious <u>N</u> ext > Cance	

6. In the **Display name** box, enter **urn:componentspace:Meridium**, and then select **Next**. The **Choose Profile** page appears.

\$	Add Relying Party Trust Wizard	x
Choose Profile		
Steps	This wizard uses configuration profiles to aid in creating the relving party trust. Choose the appropriate	
Welcome	configuration profile for this relying party trust.	
Select Data Source	AD <u>F</u> S profile	
Specify Display Name	This profile supports relying parties that are interoperable with new AD FS features, such as	
Choose Profile	security token encryption and the SAMIL 2.0 protocol.	
Configure Certificate	O AD FS 1.0 and 1.1 profile	
Configure URL	This profile supports relying parties that are interoperable with AD FS 1.0 and 1.1.	
Configure Identifiers		
Configure Multi-factor Authentication Now?		
 Choose Issuance Authorization Rules 		
Ready to Add Trust		
Finish		
	< <u>P</u> revious <u>N</u> ext > Cance	1

7. Select the **AD FS profile** option, and then select **Next**. The **Configure Certificate** page appears.

\$	Add Relying Party Trust Wizard	X
Configure Certificate		
 Steps Welcome Select Data Source Specify Display Name Choose Profile Configure Cettificate Configure URL Configure Identifiers Configure Multi factor Authentication Now? Choose Issuance Authorization Rules Ready to Add Trust Finish 	Specify an optional token encryption certificate. The token encryption certificate is used to encrypt the claims that are sent to this relying party. The relying party will use the private key of this certificate to decrypt the claims that are sent to it. To specify the certificate, click Browse Issuer: Subject: Effective date: Eprivation date: Mew Browse Mew Browse Remove Cance	

8. Select Next.

The **Configure URL** page appears.

\$	Add Relying Party Trust Wizard	x
Configure URL		
Steps Welcome Select Data Source Select Data Source Choose Profile Configure Certificate Configure URL Configure URL Configure Identifiers Configure Multifactor Authentication Now? Choose Issuance Authorization Rules Ready to Add Trust Finish	AD FS supports the WS-Trust, WS-Federation and SAML 2.0 WebSSO protocols for relying parties. If WS-Federation, SAML, or both are used by the relying party, select the check boxes for them and specify URLs to use. Support for the WS-Federation Passive protocol Enable support for the WS-Federation Passive protocol The WS-Federation Passive protocol URL supports Web-browser-based claims providers using the WS-Federation Passive protocol URL: Example: https://fs.contoso.com/adfs/ls/ ✓ Enable support for the SAML 2.0 WebSSO protocol The SAML 2.0 single-sign-on (SSO) service URL supports Web-browser-based claims providers using the SAML 2.0 WebSSO protocol The SAML 2.0 single-sign-on (SSO) service URL supports Web-browser-based claims providers using the SAML 2.0 WebSSO protocol. Relying party SAML 2.0 SSO service URL: https://cmeridiumserver>. <corp.com api="" core="" meridium="" security="" ssologinauth<="" td=""> Example: https://www.contoso.com/adfs/ls/</corp.com>	ne

- 9. Select the Enable Support for the SAML 2.0 WebSSO protocol check box.
- 10. In the Relying Party SAML 2.0 SSO service URL box, enter https://<APM Server Name>/ Meridium/api/v1/core/security/ssologinauth, and then select Next.

Note: The word Meridium is case-sensitive. Therefore, ensure that the first letter of the word is capitalized. Also, the URL must be same as the AssertionConsumerServiceUrl in the saml.json file.

The **Configure Identifiers** page appears.

\$	Add Relying Party Trust Wizard	x
Configure Identifiers		
Configure Identifiers Steps • Welcome • Select Data Source • Specify Display Name • Choose Profile • Configure Certificate • Configure URL • Configure Identifiers • Configure Identifiers • Configure Multi-factor Authentication Now? • Choose Issuance Authorization Rules • Ready to Add Trust • Finish	Relying parties may be identified by one or more unique identifier strings. Specify the identifiers party trust. Relying party trust identifier: Example: https://fs.contoso.com/adfs/services/trust Relying party trust identifiers: Um.componentspace:Meridium	for this relying Add Remove
	< <u>P</u> revious <u>N</u> ext >	Cancel

11. In the Relying party trust identifier box, enter urn:componentspace:Meridium, then select Add, and then select Next.

The **Configure Multi-factor Authentication Now** page appears.

\$	Add Relying Party Trust Wizard			
Steps Welcome	Configure multi-factor authentication settings for this relying party trust. Multi-factor authentication is required if there is a match for any of the specified requirements.			
Select Data Source Specify Display Name Choose Profile Configure Certificate Configure URL Configure Identifiers Configure Multi-factor Authentication Now? Choose Issuance	Multi-factor Authentication Global Settings Requirements Users/Groups Not configured Device Not configured Location Not configured			
Authorization Rules Ready to Add Trust Finish 	 I do not want to configure multi-factor authentication settings for this relying party trust at this time. Configure multi-factor authentication settings for this relying party trust. You can also configure multi-factor authentication settings for this relying party trust by navigating to the Authentication Policies node. For more information, see <u>Configuring Authentication Policies</u>. 			
	< Previous Next > Cancel			

12. Select I do not want to configure multi-factor authentication settings for this relying party trust at this time, and then select Next. The Choose Issuance Authorization Rules page appears.

🖗 Add Relying Party Trust Wizard 🗙					
Choose Issuance Aut	thorization Rules				
Steps	Issuance authorization rules determine whether a user is permitted to receive claims for the relving party				
Welcome	Choose one of the following options for the initial behavior of this relying party's issuance authorization rules.				
Select Data Source	Permit all users to access this relying party				
Specify Display Name	The issuance authorization rules will be configured to permit all users to access this relying party. The relying				
Choose Profile	party service or application may still deny the user access.				
Configure Certificate	O Deny all users access to this relying party				
Configure URL	The issuance authorization rules will be configured to deny all users access to this relying party. You must				
Configure Identifiers	later aud issuance authorization rules to enable any users to access this reging party.				
Configure Multi-factor Authentication Now?	You can change the issuance authorization rules for this relying party trust by selecting the relying party trust				
 Choose Issuance Authorization Rules 	and clicking Edit Uaim Rules in the Actions pane.				
Ready to Add Trust					
 Finish 					
	< Previous Next > Cancel				

13. Select **Permit all users to access this relying party**, and then select **Next**. The **Ready to Add Trust** page appears.

🕅 Add Relying Party Trust Wizard			
Ready to Add Trust			
 Steps Welcome Select Data Source Specify Display Name Choose Profile Configure Certificate Configure URL Configure Identifiers Configure Multi factor Authentication Now? Choose Issuance Authorization Rules Ready to Add Trust Finish 	The relying party trust has been configuration database. Encryption Signature Accepted Claims Organization Endpoints Notes Advanced Specify the encryption certificate for this relying party trust. Encryption Encryption Signature Issuer: Subject: Effective date: Expiration date: View View <t< th=""><th></th></t<>		

14. Select Next.

The **Finish** page appears.

\$	Add Relying Party Trust Wizard	x
Finish		
Steps Welcome Select Data Source Specify Display Name Choose Profile Configure Certificate Configure URL Configure Identifiers Configure Multifactor Authentication Now? Choose Issuance Authorization Rules Ready to Add Trust Finish	The relying party trust was successfully added to the AD FS configuration database. You can modify this relying party trust by using the Properties dialog box in the AD FS Management snap-in ✓ Open the Edit Claim Rules dialog for this relying party trust when the wizard closes	•
	Qose	

15. Clear the **Open the Edit Claim Rules dialog for this relying party trust when the wizard closes** check box, and then select **Close**.

Next Steps

• Add Claim Rules on page 21

Add Claim Rules

Procedure

1. In the AD FS window, expand the Trust Relationships folder, and then select Relying Party Trusts. The Relying Party Trusts page appears.

\$	AD) FS		_ _ ×
翰 File Action View Window Help				- 6 ×
Attribute Stores Attribute Stores Attribute Stores Authentication Policies	Relying Party Trusts Display Name Device Registration Service um:componentspace:Meridiumsso um:componentspace:Meridiumssor um:componentspace:Meridium7 um:componentspace:Meridium7 um:componentspace:MeridiumGE	Enabled T Yes V Yes V Yes V Yes V Yes V	Type Identifier WS-T um.ms-dns WS-T um.compo WS-T um.compo WS-T um.compo WS-T um.compo WS-T um.compo	Actions Relying Party Trusts Add Relying Party Trust Add Non-Claims-Aware Relying Party Trust View New Window from Here Refresh Help Device Registration Service Update from Federation Metadata Edit Claim Rules Disable Properties Claim Rules Disable Properties Claim Rules Pisable Properties Claim Rules Pisable Properties Claim Rules Pisable Properties Claim Rules Pisable Properties Claim Rules Refresh

2. Select urn:componentspace:Meridium, and then, in the Actions section, select Edit Claim Rules. The Edit Claim Rules for urn:componentspace:Meridium window appears. Select Issuance Transform Rules tab.

翰 🛛 Edit Clain	n Rules for urn:component	tspace:Meridium				
Issuance Transfor	Issuance Transform Rules Issuance Authorization Rules Delegation Authorization Rules					
The following tra	ansform rules specify the claims that	will be sent to the relying party.				
Order Rule N	Vame	Issued Claims				
Add Rule	Edit Rule					
L						
		OK Cancel	Apply			

3. Select Add Rule. The Add Transform Claim Rule Wizard window appears.

\$	Add Transform Claim Rule Wizard	x		
Select Rule Template				
Select Rule Template Steps Choose Rule Type Configure Claim Rule	Select the template for the claim rule that you want to create from the following list. The description provides details about each claim rule template. Claim rule template: Send LDAP Attributes as Claims Claim rule template description: Using the Send LDAP Attribute as Claims rule template you can select attributes from an LDAP attribute store such as Active Directory to send as claims to the relying party. Multiple attributes may be sent as multiple claims from a single rule using this rule type. For example, you can use this rule template to create a rule that will extract attribute values for authenticated users from the displayName and telephoneNumber Active Directory attributes and then send those values as two different outgoing claims. This rule may also be used to send all of the user's group memberships. If you want to only send individual group memberships, use the Send Group Membership as a Claim rule template.			
	< Previous Next > Cancel			

4. In the Claim rule template drop-down list box, select Send LDAP Attributes as Claims, and then select Next.

The **Configure Rule** page appears.

\$	Add Transform Claim Rule Wizard	x
Configure Rule		
Steps • Choose Rule Type • Configure Claim Rule	You can configure this rule to send the values of LDAP attributes as claims. Select an attribute store from which to extract LDAP attributes. Specify how the attributes will map to the outgoing claim types that will be issued from the rule. Claim rule name: Claim rule name:	e V
	< Previous Finish Cancel	

- 5. In the **Claim rule name** box, enter **Meridium Claims**, and then, in the **Attribute store** drop-down list box, select **Active Directory**.
- 6. Perform the following steps:
 - In the first drop-down list box in the LDAP Attribute column, select User-Principal-Name, and then, in the corresponding Outgoing Claim Type drop-down list box, select Name ID.
 - In the second drop-down list box in the LDAP Attribute column, select E-mail-Addresses, and then, in the corresponding Outgoing Claim Type drop-down list box, select E-Mail Address.

The **Configure Rule** page is populated with the selected values.

\$		Add Transform Claim I	Rule	Wizard
Configure Rule				
Configure Rule Steps • Choose Rule Type • Configure Claim Rule	You c which issued Qlaim Meridi Rule t Attribu Active <u>Mapp</u>	an configure this rule to send the value to extract LDAP attributes. Specify hor from the rule. rule name: um Claims emplate: Send LDAP Attributes as Clair ite store: Directory ing of LDAP attributes to outgoing clair LDAP Attribute (Select or type to add more) User-Principal-Name E-Mail-Addresses	ms v	DAP attributes as claims. Select an attribute store from attributes will map to the outgoing claim types that will be s: Outgoing Claim Type (Select or type to add more) Name ID v E-Mail Address v
				< Previous Finish Cancel

7. Select Finish.

The Edit Claim Rules for urn:componentspace:Meridium window appears.

翰 🛛 Edit Claim Rules for u	rn:componentspace:Meridium 🗕 🗖 🗙
Issuance Transform Rules Issuance	ce Authorization Rules Delegation Authorization Rules
The following transform rules spec	cify the claims that will be sent to the relying party.
Order Rule Name	Issued Claims
1 Meridium Claims	E-Mail Address,Given Na
	4
Add Rule Edit Rule	Remove Rule
L	
	OK Cancel Apply

8. Select **OK**.

The claim rule is added to the Edit Claim Rules for urn:componentspace:Meridium window.

Next Steps

• Add Certificates on page 27

Add Certificates

About This Task

To add certificates, you must perform the following tasks:

Procedure

- 1. Install the Service Provider certificate (sp.pfx) on page 28
- 2. Export the Public Key Certificate on page 32
- 3. Copy the Certificate to Active Directory on page 39

4. Install the Token Signing idp.cer Certificate on the Application Server on page 41

Install the Service Provider certificate (sp.pfx)

Procedure

1. Navigate to C:\Program Files\Meridium\ApplicationServer\api, where the public key certificate file (sp.pfx) is located.

Note: APM provides the public key certificate file (sp.pfx). pfx is personal information exchange.

2. Right-click **sp**, and then select **Install PFX**. The **Certificate Import Wizard** appears.

icate trust lists, and certificate revocation
icate dust lists, and tertificate revocation
a authority, is a confirmation of your ident a or to establish secure network area where certificates are kept.

3. Select Local Machine, and then select Next. The User Account Control window appears.

•	User Account Control				
Do you want to allow the following program to make changes to this computer?					
Program name: Windows host process (Rundll32) Verified publisher: Microsoft Windows					
Show detail	s Yes No				
	Change when these notifications appear				

4. Select Yes.

The **Certificate Import Wizard** appears, and the **File Name** box displays the file path where the certificate is located.

🖻 🝠 Certificate Import Wizard
File to Import
Specify the file you want to import.
File name:
C:\Program Files\Meridium\ApplicationServer\api\sp.pfx Browse
Note: Many then any partificate and he stand in a single file in the following formate:
Note: More than one certificate can be stored in a single file in the following formats:
Personal Information Exchange- PKCS #12 (.PFX,.P12)
Cryptographic Message Syntax Standard-PKCS #7 Certificates (.P7B)
Microsoft Serialized Certificate Store (.SST)
Next Cance

🗧 嵾 Certificate Import Wizard

Private key protection

To maintain security, the private key was protected with a password.

Type the password for the private key.

~	Display Password
mpo	ort options:
	Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.
	Mark this key as exportable. This will allow you to back up or transport your keys at a later time.
	Protect private key using virtualized-based security(Non-exportable)
-	Include all extended properties.

6. Enter a password password, and then select Next.

📀 🍠 Certificate Import Wizard	-
Certificate Store Certificate stores are system areas where certificates	are kept.
Windows can automatically select a certificate store, o the certificate.	or you can specify a location for
Automatically select the certificate store based	on the type of certificate
O Place all certificates in the following store	
Certificate store:	
	Browse
	Next Cancel

7. Select Automatically select the certificate store based on the type of certificate. The Completing the Certificate Import Wizard appears.

	X
🛞 🍠 Certificate Import W	izard
Completing the C	ertificate Import Wizard
The certificate will be import	ed after you click Finish.
Certificate Store Selected	Automatically determined by the wizard
Content	PFX
File Name	C:\Program Files\Meridium\ApplicationServer\api\sp.pfx
	Finish Cancel

8. Select Finish.

Next Steps

• Export the Public Key Certificate on page 32

Export the Public Key Certificate

Procedure

- 1. Access Microsoft Management Console.
- 2. In the main navigation bar, select **File**, then select **Add/Remove Snap-in**, and then select **Certificates**.

The Add or Remove Snap-ins window appears.

nap-in	Vendor	^		Console Root	Edit Extensions
ActiveX Control	Microsoft Cor				
Authorization Manager	Microsoft Cor				Remove
Certificates	Microsoft Cor	≣			
Component Services	Microsoft Cor				Move Up
Computer Managem	Microsoft Cor				
Device Manager	Microsoft Cor				Move Down
Disk Management	Microsoft and		Add >		
Event Viewer	Microsoft Cor				
Folder	Microsoft Cor				
Group Policy Object	Microsoft Cor				
Internet Informatio	Microsoft Cor				
Internet Informatio	Microsoft Cor				
IP Security Monitor	Microsoft Cor				
IP Security Policy M	Microsoft Cor	~			Advanced
ription:					
ription:					

3. Select **Add**. The **Certificates snap-in** window appears.

Certificates snap-in	
This snap-in will always manage certificates for: My user account Computer account	
< Back Next > Cancel	

4. Select the **Computer account** option, and then select **Next**. The **Select Computer** window appears.

	Select Computer	X
Select the computer you wan This snap-in will always mar O Local computer: (the c	t this snap-in to manage. nage: omputer this console is running on)	
O Another computer:	Browse	
Allow the selected com only applies if you save	puter to be changed when launching from the command line. This the console.	
	< Back Finish Cance	;

5. Select the **Local computer** option, and then select **Finish**.

	venuor	^		Console Root	Edit Extensions
ActiveX Control	Microsoft Cor			Certificates (Local Computer)	
Authorization Manager	Microsoft Cor				Remove
Certificates	Microsoft Cor	≡			
Component Services	Microsoft Cor				Move Up
Computer Managem	Microsoft Cor				
Device Manager	Microsoft Cor				Move Down
Disk Management	Microsoft and		Add >		
Event Viewer	Microsoft Cor				
Folder	Microsoft Cor				
Group Policy Object	Microsoft Cor				
Internet Informatio	Microsoft Cor				
Internet Informatio	Microsoft Cor				
IP Security Monitor	Microsoft Cor	_			
IP Security Policy M	Microsoft Cor	~			Advanced

6. In the Add or Remove Snap-ins window, select OK.

The certificate appears in the **Personal** > **Certificates** folder of the **Certificates (Local Computer)** folder.

7. Select Certificates (Local Computer), then select Personal, and then select Certificates.



8. Right-click the certificate that you have installed, select **All Tasks**, and then select **Export**. The **Certificate Export Wizard** appears.

Welcome to the Certificate Export Wizard
This wizard helps you copy certificates, certificate trust lists and certificate revocation lists from a certificate store to your disk.
A certificate, which is issued by a certification authority, is a confirmation of your identiti and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
To continue, click Next.

Y

9. Select Next.

	X
📀 🧬 Certificate Export Wizard	
Export Private Key You can choose to export the private key with the certificate.	
Private keys are password protected. If you want to export the private key with the certificate, you must type a password on a later page.	
Do you want to export the private key with the certificate?	
 Yes, export the private key 	
No, do not export the private key	
Note: The associated private key is marked as not exportable. Only the certificate can be exported.	
Next Cancel	

10. Select the **No, do not export the private key** option, and then select **Next**.

 Select the format you want to use: DER encoded binary X.509 (.CER) Base-64 encoded X.509 (.CER) Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B) Include all certificates in the certification path if possible Personal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties 	 Select the format you want to use: DER encoded binary X.509 (.CER) Base-64 encoded X.509 (.CER) Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B) Include all certificates in the certification path if possible Personal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible Delete the private key if the export is successful 	 Select the format you want to use: DER encoded binary X.509 (.CER) Base-64 encoded X.509 (.CER) Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B) Include all certificates in the certification path if possible Personal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties 	 Select the format you want to use: DER encoded binary X.509 (.CER) Base-64 encoded X.509 (.CER) Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B) Include all certificates in the certification path if possible Personal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties Microsoft Serialized Certificate Store (.SST) 	 Select the format you want to use: DER encoded binary X.509 (.CER) Base-64 encoded X.509 (.CER) Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B) Include all certificates in the certification path if possible Personal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties 	 Select the format you want to use: DER encoded binary X.509 (.CER) Base-64 encoded X.509 (.CER) Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B) Include all certificates in the certification path if possible Personal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties Microsoft Serialized Certificate Store (.SST) 	 Select the format you want to use: DER encoded binary X.509 (.CER) Base-64 encoded X.509 (.CER) Cryptographic Message Syntax Standard - PKCS #7 Certificates (.P7B) Include all certificates in the certification path if possible Personal Information Exchange - PKCS #12 (.PFX) Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties
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 Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties 	 Include all certificates in the certification path if possible Delete the private key if the export is successful 	 Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties 	Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties Microsoft Serialized Certificate Store (LSST)	 Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties Microsoft Serialized Certificate Store (SST) 	 Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties Microsoft Serialized Certificate Store (.SST) 	 Include all certificates in the certification path if possible Delete the private key if the export is successful Export all extended properties
Delete the private key if the export is successful Export all extended properties	Delete the private key if the export is successful	 Delete the private key if the export is successful Export all extended properties 	Delete the private key if the export is successful Export all extended properties Microsoft Serialized Certificate Store (LSST)	Delete the private key if the export is successful Export all extended properties Microsoft Serialized Certificate Store (SST)	 Delete the private key if the export is successful Export all extended properties Microsoft Serialized Certificate Store (.SST) 	 Delete the private key if the export is successful Export all extended properties
Export all extended properties		Export all extended properties	Export all extended properties Microsoft Serialized Certificate Store (LSST)	Export all extended properties Microsoft Serialized Certificate Store (SST)	Export all extended properties Microsoft Serialized Certificate Store (.SST)	Export all extended properties
	Export all extended properties		Microsoft Serialized Certificate Store (.SST)	Microsoft Serialized Certificate Store (SST)	Microsoft Serialized Certificate Store (.SST)	
O Microsoft Serialized Certificate Store (.SST)	O Microsoft Serialized Certificate Store (.SST)	O Microsoft Serialized Certificate Store (.SST)				O Microsoft Serialized Certificate Store (.SST)

х

11. Select **DER encoded binary X.509 (.CER)**, and then select **Next**.

	X
📀 🐓 Certificate Export Wizard	
File to Export Specify the name of the file you want to export	
File name: Browse	
Next Car	ncel

- 12. Select **Browse**, and then navigate to the location to which you want to export the certificate.
- 13. In the **File name** box, enter the same name that was mentioned while installing the certificate, and then, in the **Save as type** drop-down list box, select **DER Encoded Binary X.509 (.cer)**.
- 14. Select Next, and then select Finish.
- 15. Copy the exported certificate to Active Directory and install it. Please refer to section Install the Token Signing idp.cer Certificate on the Application Server on page 41, steps 5 - 8 for detailed process of installing the certificate.

Next Steps

• Copy the Certificate to Active Directory on page 39

Copy the Certificate to Active Directory

Procedure

- 1. Access Control Panel, then select System and Security, and then select Administrative Tools.
- 2. Select **AD FS Management**. The **AD FS** window appears.

\$	AD FS	
输 File Action View Window Help		_ <i>8</i> ×
🗢 🔿 🖄 📰 🚺 🗊		
AD FS	Relying Party Trusts	Actions
 Service Trust Relationships Claims Provider Trusts Relying Party Trusts Atribute Stores Authentication Policies 	Display Name Enabled Type Identifier Device Registration Service Yes WS-T	Relying Party Trusts Add Relying Party Trust Add Non-Claims-Aware R View New Window from Here Refresh Help urnccomponentspace:Me Update from Federation Edit Claim Rules Disable Properties Delete Help
Opens a new window rooted at this node.	1	

- 3. Expand Trust Relationships, and then select Relying Party Trusts.
- 4. Select urn:componentspace:Meridium, and then, in the Actions section, select Properties. The urn:componentspace:Meridium Properties window appears.

Organization	Endpoints	Proxy End	points	Notes	Advanced
Monitoring	Identifiers	Encryption	Signatu	ure Acc	cepted Claims
pecify the sig arty.	nature verifica	tion certificate	s for requ	ests from th	his relying
Subject	Issu	er	Effecti	ve Date	Expiratio
<		111			>

- 5. Select the **Signature** tab, and then select **Add**.
- 6. Navigate to the location in which you have saved the certificate, and then select the file.

- 7. Select **Yes** to ignore the warning about certificate key length.
- 8. Select the **Advanced** tab.
- 9. In the **Secure hash algorithm** drop-down list box, based on the policy of your organization, select **SHA-1** or **SHA-256**.

urr	n:componen	tspace:Me	eridium Pi	roperti	es X
Monitoring	Identifiers	Encryption	Signature	Acc	epted Claims
Organization	Endpoints	Proxy End	lpoints N	lotes	Advanced
Specify the	secure hash alg	orithm to use	for this relyir	ng party t	rust.
Secure has	h algorithm: Si	HA-1			~
	[ОК	Cano	el	Apply

10. Select **Apply**, and then select **OK**.

Next Steps

• Install the Token Signing idp.cer Certificate on the Application Server on page 41

Install the Token Signing idp.cer Certificate on the Application Server

Procedure

- 1. Access the Active Directory.
- 2. Export the token signing certificate and save the certificate.
- 3. Select Finish.
- 4. Copy the certificate to the api folder of the application server.
- 5. Right-click the file, and then select **Install Certificate**. The **Certificate Import wizard** appears.

Certificate Import Wizard
Welcome to the Certificate Import Wizard
This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.
A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.
Store Location
Local Machine
To continue, dick Next.
Sext Cancel

6. Select Local Machine, and then select Next.

) 🍠 Certificate Imp	🝠 Certificate Import Wizard		
Certificate Store Certificate stores	are system areas where certificates are kept.		
Windows can auto the certificate.	omatically select a certificate store, or you can specify a location for		
Automatica	Ily select the certificate store based on the type of certificate		
O Place all cer	rtificates in the following store		
Certificate	store:		
	Browse		
	Next Cancel		

- 7. Select Automatically select the certificate store based on the type of certificate.
- 8. Select Next, and then select Finish.

Next Steps

• Enable SSO On Site Authentication Using Active Directory on page 46

Federation Service Identifier from ADFS

To get Federation Service Identifier from ADFS.

Procedure

- 1. Open AD FS management console.
- 2. Select AD FS from left navigation and select 'Edit Federation Service Properties' from Actions pane on the right.
- 3. On the **Federation Service Properties** dialog window, you can find the Federation Service identifier value.

4. Navigate to C:\Program Files\Meridium\ApplicationServer\api folder and open saml.json file in a text editor. Update the PartnerIdentityProviderConfigurations Name value with the Federation Service Identifier.

Next Steps

• About Enabling APM SSO

Chapter

3

Enable SSO

Topics:

- About Enabling APM SSO
- About Host Names
- Enable SSO On Site
 Authentication Using Active
 Directory
- Enable SSO Off-Site
 Authentication Using APM
 Server Setup
- Enable OAuth for APM using SSO Off-Site

About Enabling APM SSO

To enable APM SSO, perform one of the following tasks:

- Enable SSO On Site Authentication Using Active Directory on page 46
- Enable SSO Off-Site Authentication Using APM Server Setup on page 46

About Host Names

Using the Host Names feature, you can:

- Enable Single Sign-On (SSO) off-site authentication and SSO on-site authentication.
- Filter Data Sources to access the related APM database.
- Create a unique URL to access APM.

When you use a URL to access APM, you can access the data sources that are mapped to the host name. For example, if two data sources (data_source1 and data_source2) are associated with a APM server, you can create two different URLs (https://data_source1/meridium/index.html and https://data_source2/ meridium/index.html) using the host names that are mapped to the data sources. If you log in to APM with https://data_source1/meridium/index.html or https://data_source2/meridium/index.html, you can access data_source1 or data_source2, respectively.

In the **Host Names** page, you can add multiple host names. However, only the host name of the URL with which you have logged in to APM is listed.

Enable SSO On Site Authentication Using Active Directory

Procedure

- 1. Run the LDAP Synchronization Process Manually or Schedule a LDAP Synchronization Process .
- 2. Log out of APM.
- 3. Log in to APM with the Windows user name and password. You are logged in.

Results

• SSO On-Site Authentication is enabled.

Next Steps

Configure APM Server on page 50

Enable SSO Off-Site Authentication Using APM Server Setup

About This Task

Note: The settings shown below may vary depending on your system.

Procedure

- 1. In the Applications menu, navigate to ADMIN > Operations Manager > SSO Configuration. The SSO Configuration page appears.
- 2. In the IDP URL box, enter the PartnerIdentityProviderConfigurations Name value configured in the C:\Program Files\Meridium\ApplicationServer\api \saml.json file.
- 3. Select the SSO Enabled check box.
- 4. Select 🛅.

The SSO configuration is saved.

- 5. Log out of APM.
- 6. On the APM Server, in the APM program files, navigate to the folder ... \ApplicationServer \api.

Note:

- If you installed the software in the default location, the folder location will be C:\Program Files\Meridium\ApplicationServer\api.
- The settings in the saml.json file must match the environment to which you are connecting. For example, the URL listed in SingleSignOnServiceUrl should point to the URL where you want to authorize the users.
- 7. Modify the assertion and response signing settings to match the signing settings that are specified on the IDP, and then save and close the file.
- 8. Reset IIS.
- Access APM via a web browser. SSO off-site authentication is enabled.

Next Steps

Configure APM Server on page 50.

Enable OAuth for APM using SSO Off-Site

About This Task

For specific workflows, you can authenticate with APM using a JSON Web Token (JWT) provided by an IDP using the OAuth protocol. To enable this authentication, you must provide the following configuration.

Note: This form of authentication can be used by external applications that require access to APM APIs, such as mobile applications.

Procedure

- 1. On the APM server, navigate to C:\ProgramData\Meridium.
- 2. Open the appsettings.Global.json file using a text editor.
- 3. Add the following values:
 - msEntraID0AuthURL: URL represents the location for the public signing key for JWT tokens
 issued by your IDP. For Microsoft Entra, this URL is https://login.microsoftonline.com/
 <tenantId>.
 - msEntraIDAppID: Application ID represents the application you have configured within your IDP.
- 4. Reset IIS.
- 5. Access APM APIs, providing the JWT token in the header of an HTTP request as a Bearer token.

Results

OAuth authentication for APM using SSO Off-Site is enabled.

Chapter 4

Configure the Server

Topics:

Configure APM Server

Configure APM Server

Before You Begin

- Ensure that the APM Server is installed and the server is configured to use SSL.
- Ensure that you can access the APM application in a web browser using HTTPS protocol.
- Ensure that the APM data source is configured and you can log in with administrative privileges.

Procedure

- 1. Using a web browser, log in to APM as an Administrator.
- 2. In the Applications menu, navigate to ADMIN > Operations Manager > Data Sources. The Data Sources page appears.
- 3. In the Data Source Host box, enter the name of the APM server, and then select Save.
- 4. Enable LDAP Integration, configure Domain Record, and then schedule and run LDAP synchronization.

Note: For more information on how to enable LDAP Integration, configure a Domain Record, and schedule LDAP synchronization, refer to the Lightweight Directory Access Protocol documentation.

The users from Active Directory are now imported to APM and are assigned the appropriate Security Roles and Groups.

- 5. Stop IIS, the Redis service, and all Meridium Windows services.
- 6. Navigate to C:\Program Files\Meridium\ApplicationServer\api
- 7. Using a json or text editor, access the file saml.json.
- 8. Add a new configuration to <PartnerIdentityProviderConfigurations>json array or update the existing configuration by setting the following attributes:
 - Name: As described in sections Configure Azure Active Directory as the Identity Provider (IDP) on page 4 and About Configuring Identity Provider (IDP) on Active Directory on page 9.
 - WantSAMLResponseSigned: false
 - WantAssertionSigned: true
 - WantAssertionEncrypted: false
 - UseEmbeddedCertificate: false
 - SingleSignOnServiceUrl: {https version of Federation Service identifier} + "/adfs/ls". For example, https://myadfsserver/adfs/ls. This information must be obtained from the ADFS team. In the case of Azure AD, please refer to section Configure Azure Active Directory as the Identity Provider (IDP) on page 4

Note:

For SHA-256, you must add the following two attributes to the saml.json file:

- "DigestAlgorithm":"http://www.w3.org/2001/04/xmlenc#sha256"
- "SignatureAlgorithm":"http://www.w3.org/2001/04/xmldsig-more#rsa-sha256"

The following example shows the configured saml.json file:

```
{"SAML":
{
    "$schema": "https://www.componentspace.com/schemas/saml-config-
schema-v1.0.json",
    "Configurations":
    [
    [
    [
    ]
}
```

```
"LocalServiceProviderConfiguration":
        {
            "Name": "urn:componentspace:Meridium",
            "AssertionConsumerServiceUrl": "https://<APM Server
Name>/Meridium/api/v1/core/security/ssologinauth",
            "LocalCertificates":
            Γ
            {
                "FileName": "sp.pfx",
                "Password": "password"
            }
            1
        },
        "PartnerIdentityProviderConfigurations":
        [
        {
            "Name": "http://fs.xyz.com/adfs/services/trust",
            "Description": "ADFS",
            "SignAuthnRequest": true,
            "WantSamlResponseSigned": false,
            "UseEmbeddedCertificate": true,
            "WantAssertionEncrypted": false,
            "WantAssertionSigned": true,
            "SingleSignOnServiceUrl": "https://fs.xyz.com/adfs/ls/
idpinitiatedsignon.aspx",
            "PartnerCertificates":
            {
                "FileName": "idp.cer"
        }
        1
    }
    1
```

9. Save and close the file saml.json.

10. Start IIS, the Redis service, and all Meridium Windows Services.