

MobileIron Access Cookbook Access with Workday and Microsoft ADFS

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Overview

SAML provides single sign-on capability for users accessing their services hosted in a cloud environment. Generally, a service provider such as Workday is federated with an identity provider such as Microsoft ADFS for authentication. The user gets authenticated by ADFS and obtains a token for accessing applications in a cloud environment, such as Workday. This guide serves as step-by-step configuration manual for users using ADFS as an authentication provider with Workday in a cloud environment.

Disclaimer:

This cookbook is informational to help with the setup flow and actual screenshots. The steps might vary in your deployment scenario due to changes in SP/IdP versions.

Prerequisites

Verify that you have the following components in your environment:

- ADFS version 3.0
- Existing working direct federation between ADFS and Workday
- <u>ADFS (IDP) Metadata Files</u> You must download the ADFS metadata files for ADFS (IdP)
 - Download ADFS metadata file from <u>https://<ADFS Server</u> FQDN>/FederationMetadata/2007-06/FederationMetadata.xml

<u>Workday Metadata Files</u>

You must download the metadata files for Workday (SP)

In the Workday administration portal, navigate to **Generate Workday SAML Metadata**. Copy the text starting with "<md:EntityDescriptor>" and save it as a metadata file with .xml extension. This is the Workday metadata file.



Configuring Workday and Microsoft ADFS with MobileIron Access

You must perform the following tasks to accomplish the configuration between Workday and ADFS:

- <u>Register Sentry to Access</u>
- Configure Access to create a Federated Pair
- <u>Configure the ADFS environment</u>
- Configure the Workday environment

Register Sentry to Access

You must register Sentry to Access to fetch the latest configuration from Access.

Prerequisite

Verify that you have registered Sentry earlier. If so, then do not perform this step.

Procedure

- Clish Sentry. In the configuration mode, execute the following command for registration. (config)#accs registration https:/<FQDN of Access server><Admin Username of Access Server>
- 2. Enter the **Tenant password** and complete the registration.
- 3. In Access, click the Sentry tab.
- 4. Select the appropriate Sentry instance, then click **Action** > **Assign**.
- 5. Click **OK**.
- 6. **Clish** Sentry and execute the following command in configuration mode to fetch the latest configuration from Access immediately:

(config)# accs config-fetch update

Note: All the published configuration changes are fetched by Sentry assigned to the profile in fifteen minutes. However, if you want to see the changes immediately, then perform Step 6.

Task Result

This configuration lets you fetch the latest configuration from Access.



Configure Access to create a Federated Pair

You must configure Access to select your service provider and the identity provider to create a federated pair.

Procedure

- 1. In Access, click **Profile** > **Get Started**.
- 2. Enter the Access host information and upload the ACCESS SSL Certificate. The other fields retain their default values. Click **Save**.
- 3. Click **Profile** > **Federated Pairs** > **Add New Pair.**
- 4. Select **Custom Service Provider** as the service provider.
- 5. Enter the following details:
 - Name
 - Description
 - Select the Access Signing Certificate or use the **Advanced Options** to create and upload a new Access Signing Certificate.
 - Upload the metadata file of the Workday (SP) downloaded in the <u>Prerequisites</u> section.
 - Under Choose SAML Response Signature option, select Sign Response.

Choose SAML Response Signature Option	
Some SPs require the SAML Response to be signed instead of the SAML Assertion inside the SAML Response. Choose the appropriate signing option here. Note that SAML Responses received by Access must always have the Assertion signed, and the Response not signed.	
Sign Assertion 🖉 Sign Response	

• (**Optional**) Select Use Tunnel Certificates for SSO for users to be authenticated automatically. This leverages the user's authentication in the MobileIron Tunnel VPN.

Note: Ensure that the field required to login to Workday (such as the employee id) is a part of the certificate (such as a Subject Alternative Name of type Rfc822Name). Specify a custom SAML Subject Configuration that pulls the value from the certificate and provides it to Workday in the SAML assertion generated by MobileIron Access.



☑ Use Tunnel Certificates for SSO Check this box if you would like users to be authenticated automatically by leveraging their authentication in the MobileIron Tunnel VPN. For users logging in from managed mobile devices and applications, this will eliminat the need for them to enter passwords. Other users will not be affected by this behavior (i.e. they will continue to be routed to the original idP to authenticate themselves).
- Advanced Options
Assertion Validity: 60
Enter information here only if you would like the SAML assertions generated by MobileIron Access to have a structure different than the default configured for this SP.
You can select values from the certificate Subject or Subject Alternative Name fields to go into the SAML Response Subject or Attributes in an Attribute Assertion in the SAML Response.
SAML Subject Configuration
Type: Unspecified
Value: Custom
select X509:SubjectAltName:rfc822Name:2
SAML Attribute Configuration
0 Attribute(s) Add New

- 6. Click **Next** and select **Microsoft** as the identity provider.
- 7. Select the Access Signing Certificate or use the Advanced Options to create and upload a new self-signed Access Signing Certificate.
- 8. Add or Upload the **IdP metadata** file that you downloaded in the Prerequisites section.
- 9. Click Done.
- 10. Download the Access SP Metadata (Upload to IDP) and ACCESS IDP Metadata (Upload to SP) metadata files.
- 11. Click **Publish** to publish the profile.

Configure the ADFS environment

You must configure the identity provider with the service provider metadata file. This builds the trust relationship with the service provider.

Procedure

- 1. Use Remote Desktop services to log into an ADFS machine with Admin credentials.
- 2. Click Start > Administrative tools > ADFS Management > Expand Trust Relationships.
- 3. Click **Relying Party Trust.** In the right-hand pane, click **Add Relying Party Trust** and follow the prompts.



4. Click **Start** and select **Import data about the relying party from a file**. Click **Next**.

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			AD FS	- 6
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is .	Relying Party Trusts			Actions
Service Trust Relationships Claims Provider Trusts Relying Party Trusts Attribute Stores Authentication Policies	Deplay Name Device Registration Service 0365eeml	Yes 1	joe dentaler Isteral / SML / WS-Federation um refederation MonoutOnice 1% Total / SML / WS-Federation um federation MonoutOnice	Retyring Party Trusts Add Relying Party Trust Add Non-Claims-Aware Relying Party Trust View
		\$	Add Relying Party Trust Wizard	New Window from Here
		Select Data Source		Help
		Steps		Q365saml
		Welcome Select Data Source	Select an option that this wicard will use to obtain data about this relying party: O Import data about the relying party sublished online or on a local network	Update from Federation Metadata Edit Claim Rules
		Configure Multi-factor Authentication Now?	Use this cytom to import the recessary data and contributes from a relying party organization that publishes to federation metadata online or on a local network. Federation metadata address that name or URU:	Disable Properties
		Choose Issuance Authorization Rules	Poderación medicada diadetes prodi Alame de Unica.	× Delete
		 Ready to Add Trust Prish 	Sampler is unclassic user in type, investigation of the unclassic Plan point data along here integra party many and Use the spoton is port of the nonenany data and confidence from a relying setty organization that has expond all induction maintails at a list. Ensure what has the inform a instead assure. The watard will not induce the source of the flat.	Picip Holp
			Even data about the migrary party manually Use the option to manually right the recessary data about the relying party organization:	
			Cheeses Terror Career	

5. Click **Browse** and select the service provider proxy metadata file that you downloaded and click **Next**.

Note: The filename for the proxy metadata file name ends with *UploadTo-Microsoft ADFS-IdP.xml*.





- 6. Enter the **Display Name** and click **Next**.
- 7. All other fields are set to defaults. Follow the prompts.
- 8. At the end, select **Open Edit Claim rules dialog for relying party trust**.
- 9. In the Claim Rule Template drop-down, select Send Claims Using a Custom Rule and click Next.
- 10. Add Claim rules as follows:

a) <u>Rule 1:</u>

Name: Query AD for ObjectGUID Custom Rule Value: c:[Type == "http://schemas.microsoft.com/ws/2008/06/identity/claims/windowsaccountna me", Issuer == "AD AUTHORITY"] => add(store = "Active Directory", types = ("ObjectGuid"), query = ";objectGUID;{0}", param = c.Value);

b) <u>Rule 2:</u>

Name: Issue ObjectGUID as Name Id claim Custom Rule Value: c:[Type == "ObjectGuid"] => issue(Type = "http://schemas.xmlsoap.org/ws/2005/05/identity/claims/nameidentifier", Issuer = c.Issuer, OriginalIssuer = c.OriginalIssuer, Value = c.Value, ValueType = c.ValueType, Properties["http://schemas.xmlsoap.org/ws/2005/05/identity/claimproperties/f ormat"] = "urn:oasis:names:tc:SAML:2.0:nameid-format:persistent");

c) <u>Rule 3:</u>

Name: IDPEmail Custom Rule Value: c:[Type == "http://schemas.xmlsoap.org/ws/2005/05/identity/claims/upn"]



=> issue(Type = "IDPEmail", Issuer = c.Issuer, OriginalIssuer = c.OriginalIssuer, Value = c.Value, ValueType = c.ValueType);

11. Click Apply and OK.

Configure the Workday environment

Procedure

1. Navigate to the Workday tenant security page.

Ŵ	Q security	
	Edit Tenant Setup - Security - Task	

2. Edit the Access IDP metadata file and copy the URL for the value of the attribute *Location* of the XML tag <md:SingleSignOnService>

	PARKED PLANDALY (FIND FIND FIND FOR THE SECTION AND FIND FOR THE SECTION AND S
INiACSG#SUID#b8sArchPSUMVgZSc#gBeEc=L7g#IDAGA8MABBCSgSSTb3OQEBC#UAAAIBAGAJ2bgSsKeBLyxR/	
rbjX5LsHT002nACc8502fQ5whjiNY7+ZwY78nfLCyYwor8LdbeCq0ftZxxKfdWq01x8M2My30RePgT0JxA83MENzxy www884v587XCh602PCd5z5wfxycxc6htE8N/82Naz6vtSe60x8+8vy5aNa5690txLa52UL63Nbe8M5Y25aN6cerTvc5afat	
*/ds:Xb00etra	Hand The residence of The set Barrand Condition and All Constraints to Little Little Constraints
cida: Key Infus	
(And:KeyDescriptory	
und:Single.uportEnvice Binding="envicesis:names:ts:SAML:2.0:Nindings:HTTP-Redirect" Location="http:	
<pre>weitingle.ageatiervice Binding="utmodellsingnesits:SAML12.0:01ndlegs:HTTP-P097" Location="https:///</pre>	/ #46/2018/02/14/02/14/02/14/02/12/14/02/10/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/14/02/100/000/100/000/000/000/000/000/000/
and Neme TDF streats upp : casis: nones: to:SAML:1.1:noneid=formet:emeilAddress	
und:NameTDFormat>urm:pasis:Hames:to:SAML12.0:nameEd=format:persistent	
adiNameIDFormet>uphioasisinamesito:SAMLi2.0:nameid=formatipersistent mdiNameIDFormet>uphioasisinamesito:SAMLi2.0:nameid=formatitransient	

3. Copy the single sign-on URL and paste it in the *Mobile App Login Redirect URL* and *Mobile Browser Login Redirect URL* field in the *Single Sign On* section.

💿 Singl	e Sign-on								
Default Dele	gated Authentication System	select on	e v						
Delegated A	uthentication Timeout	select on	e v						
Redirection	URLs 1 item								
۲	Login Redirect URL Environme	nt-Setting	*Redirect Type	Login Redirect URL	Logout Redirect URL	Timeout Redirect URL	Mobile App Login Redirect URL	Mobile Browser Login Redirect URL	
Ξ	Implementation - https://impl.workdey.com/ /login-saml2.htmld		Single URL Authentication Selector	https://impl.workdey.com/	https://impl.workday.com/	https://impl.workdsy.com/	om/ flogin-sami2.htmid	https://impl.workday.com/	×
-									

4. In the SAML Setup section, check *Enable SAML Authentication* and expand the identity providers list in the below table. A new row appears. Enter a name for the new identity provider.

Enable SAM			>								Ŷ	·
٢	ldentity Provider	Disabled	Ndentity Provider Name	4(33UST	*x609 Certificate	Enable IdP Initiated Logout	Lopout Response URL	Enable Workday Initiated Logout	Logout Request URL	Use Unspecified Name ID Format for Logout Request	IdP \$90 Service URL	
Θ	ď		STSDEV	http: /adfs/zervices/trust	STSDEV						https:// /edfs/la/	

5. Paste the Single Sign-on URL copied in Step 3. Open the Access IdP metadata file again, and copy the entityID from this file.



xml version="1.8" encoding="UTF-8" standalone="no"?	SAML:2.0:metadata" entityID="https://eapp183-alt.auto.mobileiron.com/Mobileiron/acc/33a92749-b2a1-4521-a5i
<pre><md:entitydescriptor entityid="https://
cmd:IDESCOmescriptor protocolSupportEnumeration=" urnicesis:namesite:saml:2.0:protocol"="" wnlns:rd="urnicesis:namesite:SAML:2.0:metadata"> <md:keydescriptor use="signing"> <ds:keyinfo xmlns:di="http://www.w3.org/2000/09/ymldsig#"> <ds:keyinfo xmlns:di="http://www.w3.org/2000/09/ymldsig#"> <ds:keyinfo xmlns:di="http://www.w3.org/2000/09/ymldsig#"> <ds:keyinfo xmlns:di="http://www.w3.org/2000/09/ymldsig#"></ds:keyinfo></ds:keyinfo></ds:keyinfo></ds:keyinfo></md:keydescriptor></md:entitydescriptor></pre>	-alt.auto.mobileiron.com/MobileIron/acc/33a92749-b2a1-4521-a566-824167ba2a68/idg*>
NhbG1mb3JuaWExCzAJBgNVBAYTALVTMB4XDTE3MDQyMT1wMTg1N1oXDTQ3MDQxND1wMTg1N1owdzEv	LUEAww.LU21nbn1u20x1cnQxEDAOBgNVBASMBINIcHBvcnQxE2ARBgNVBAoMCkivYm1s2U1yb24xFjAUBgNVBAcMC MBICALUEAww.LU21nbn1u20x1cnQxEDAOBgNVBAsMBINIcHBvcnQxE2ARBgNVBAoMCkivYm1s2U1yb24xFjAUBgN E2AluricFXCyARONKD21kD82FQnmSTULSZQxNMQs9xCrTvmVF57hU6MiniFiiA11;vN1AibergCD2CVGT

- 6. Copy the entityID and paste it in the Issuer column of the new row. In the x509 Certificate column of this row, choose the *Access IdP Signing Certificate*.
- 7. Configure the SAML Parameters:
 - Check Enable SP Initiated SAML Authentication.
 - The IdP SSO Service URL is set to the same value as the *IdP SSO Service URL* in the new row of the SAML Identity Providers table.
 - Enable Do Not Deflate SP-initiated Authentication Request.

x509 Private Key Pair	* SSO Private Key 📃
Enable Dynamic Certificate Pinning	
Trusted Domain Certificates	=
Service Provider ID	+ http://www.workday.com
Enable SP Initiated SAML Authentication	
TdP SSO Service URL	* https://miaccess
Sign SP-initiated Authentication Request	
Do Not Deflate SP-initiated Authentication Rec	quest

- 8. Click OK.
- 9. Navigate to the Manage Authentication Policy screen.



10. On the Authentication Whitelist table, ensure that the authentication type named SAML: <name as in step 4> is an allowed authentication type.

Verification

From of managed mobile device, launch the Workday application. It must navigate to MobileIron Access upon launch.

- If certificate-based SSO is not enabled, then you are redirected to the original identity provider.
- If certificate-based SSO is enabled, then you are logged into Workday automatically.



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