



# MobileIron Access Cookbook

## Access with Office 365 and Okta

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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 Office 365 is federated with an identity provider such as Okta for authentication. The user gets authentication from Okta and obtains a SAML token for accessing applications in a cloud environment, such as Office 365.

This guide serves as step-by-step configuration manual for users using Okta as an authentication provider with Office 365 in a cloud environment.

This cookbook is to configure Office 365 and Okta for passive authentication in SAML protocol. WS-Fed for Office 365 and Okta pair is not supported.

## **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

You must perform the following steps before you configure Office 365:

- Verify that you download the deployment guide for Okta with Office 365:  
[https://support.okta.com/help/Documentation/Knowledge\\_Article/Office365-Deployment-Guide](https://support.okta.com/help/Documentation/Knowledge_Article/Office365-Deployment-Guide)
- Download the metadata files for Okta.
  1. Login to Okta with admin credentials.
  2. On the **Application** tab, click **Sign On** tab.
  3. Click **Identity Provider metadata** and download the metadata file.
- Download the metadata files for Office 365.
  1. Download Office 365 metadata file from <https://nexus.microsoftonline-p.com/federationmetadata/saml20/federationmetadata.xml>



# Configuring Office 365 and Okta with MobileIron Access

You must perform the following tasks to configure Office 365 and Okta with MobileIron Access:

- [Configure Access to create a Federated Pair](#)
- [Configure the Okta environment](#)
- [Configure the Office 365 environment](#)
- [Configure Office 365 with IDP Proxy Settings](#)
- [Configure Okta with SP Proxy Settings](#)
- [Register Sentry to Access](#)

## [Configure Access to create a Federated Pair](#)

You must configure Access to select your service provider and the identity provider. You can apply the configuration settings for the service provider and the identity provider to create a federated pair.

### Procedure

1. Log in to **Access**.
2. Click **Profiles > Get Started**.
3. Enter Access host information and upload the **ACCESS SSL certificate**. The other fields retain the default values. Click **Save**.
4. Click **Profiles > Federated Pairs > Add**.
5. Select **Office 365** as the service provider.
6. Enter the following details:
  - a. Enter a **Name** for Office 365.
  - b. Enter an appropriate Description.
  - c. Select the Access generated default **Signing Certificate** from the drop-down list.
  - d. Upload the SPProxy Certificate.
  - e. Select **WS-Trust 2005** in Office 365 specifics.
  - f. Enter value for Federated Domain: <domain\_name>.com
  - g. Enter the original IdP Active Logon URL  
You can find the value in Office365 > Sign On >WS-Federation View setup instruction.  
**Note:** For active authentication, a pre-defined Microsoft Office 365 application must be available in Okta. Use the above URL from this application.
  - h. Upload the metadata file of service provider downloaded from <https://nexus.microsoftonline-p.com/federationmetadata/saml20/federationmetadata.xml>
  - i. Select *Use Tunnel Certificates for SSO* to configure Cert SSO on MobileIron Core. See *Appendix* in the *MobileIron Access Guide* at <https://support.mobileiron.com/docs/current/accs/> .
7. Click **Next**.



8. Select **Okta** as the Identity provider. Click **Next**.
9. Upload the **IdP certificate** and the **IdP metadata file** download. Click **Done**.
10. Download the **ACCESS SP Proxy** and the **ACCESS IDP Proxy** metadata file.
11. On the **Profile** tab, click **Publish** to publish the profile.

### **Task Result**

The Federated Pair is created.

### **Configure the Okta environment**

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

### **Procedure**

1. Login to Okta with Admin credentials.
2. Click **Add Application**.
3. Click **Create New App**.
4. Select **SAML 2.0** and click **Create**.
5. Enter an **App name** for the application and click **Next**.
6. Enter the configuration values.

<b>SAML Settings</b>	<b>Values</b>
Single sign on URL	Extract the single sign on URL from the SP metadata file. Select the check box for <b>Use this for Recipient URL and destination URL</b> .
Audience URI(SP Entity ID)	Enter the above single sign on URL.
Default RelayState	Enter the above single sign on URL. If no value is set, a blank relay is sent.
Name ID format	Persistent
Application username	Okta username

7. Click **Show Advanced Settings**.

<b>Settings</b>	<b>Values</b>
Response	Unsigned
Assertion Signature	Signed
Signature Algorithm	RSA-SHA256
Digest Algorithm	SHA256
Assertion Encryption	Unencrypted
Enable Single Logout	Deselect the check box for Allow application to initiate Single Logout
Authentication context class	PasswordProtectedTransport
Honor Force Authentication	Yes
SAML Issuer ID	http://www.okta.com/\$(org.externalKey)



- Add the screen, ATTRIBUTE STATEMENTS (optional).
- user.email for IDPEmail
  - UPN
8. Configure the **Feedback Settings** and click **Finish**.
    - Are you a customer partner: Select **I'm an Okta customer adding an internal app**.
    - Select the **This is an internal app that we have created** check box.
  9. Click **Directory > People > Add Person > Create User**.
  10. On the **Applications** tab, click **Assign Application**.
  11. Select the Application and the User that you have created and click **Next**.
  12. Click **Confirm Assignment**.

### Testing a single user

The following instructions are used for testing with a single user. You must follow [Okta documentation](#) to sync your directory with Okta and use the appropriate user mappings.

**Note:** Okta is not configured to be synced with Active Directory. To test a single user, you must get the immutable property value of the user from Office 365 and replace the user name with immutable ID of the user in Okta user name value.

1. Open PowerShell and execute the following command:

```
PS C:\Users\Administrator> Get-MsolUser -UserPrincipalName <User_Name> | select ImmutableId | fl
```

2. On Okta portal, click **Applications > Office 365 > People**. Edit the **User Name** and enter the **ImmutableID**.

**Immutable ID:** cEogWsYJskiVf1MBE7Zi/Q==

### Configure the Office 365 environment

You must configure Office 365 to use with Okta.

#### Procedure

1. Login to Okta admin portal and click **Applications**.
2. On the **Sign On** tab, click **View Setup Instructions**.
3. Configure the setup instructions:

Settings	URL
Identity Provider Single Sign-on URL	<Single Sign-on URL extracted from the metadata file>





Overview Federated Pairs Conditional Access Split Tunneling Branding Certificates

### Federated Pairs

Show Description  
How to upload my Access metadata to my IDP or SP?

+ Add New Pair

O365 and Okta No description Policy Name: Default Policy	SP Metadata	<a href="#">View</a>	  
	Access SP Metadata (Upload to IDP)	<a href="#">View</a>   <a href="#">Download</a>	
	IDP Metadata	<a href="#">View</a>	
	Access IDP Metadata (Upload to SP)	<a href="#">View</a>   <a href="#">Download</a>	
	Powershell Commands For Office 365	<a href="#">View</a>   <a href="#">Download</a>	

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6. Login to the mail box from a browser, App (iOS native email app), or Outlook.  
Verify that the email sync is successful.





## Configure Office 365 with IDP Proxy Settings

Office 365 does not provide provision to upload the metadata file. The information must be extracted from IDP Proxy Metadata file downloaded at [Step 10](#) of [Configure Access to create a Federated Pair](#).

### Procedure

1. Use Remote Desktop services to log into an ADFS machine with Admin credentials.
2. Execute the following command in PowerShell to connect to Office 365 tenant:

```
PS c:\>Connect-MsolService
```

**Note:** Download the PowerShell script from MobileIron Access for Office 365 and PingOne federated pair to avoid manual editing.

The screenshot shows the MobileIron Access console interface. At the top, there are navigation tabs: Overview, Federated Pairs (selected), Conditional Access, Split Tunneling, Branding, and Certificates. Below the tabs, the 'Federated Pairs' section is visible, including a 'Show Description' link and a 'How to upload my Access metadata to my IDP or SP?' link. A blue '+ Add New Pair' button is present. Below this, a table lists existing federated pairs. The table has columns for Name, Description, and Actions. One entry is highlighted with a red box: 'Powershell Commands For Office 365' with 'View' and 'Download' links.

Name	Description	Actions
O365 and Okta	No description Policy Name: Default Policy	Access SP Metadata (Upload to IDP) View   Download IDP Metadata View Access IDP Metadata (Upload to SP) View   Download <b>Powershell Commands For Office 365 View   Download</b>

3. Execute the following command to fetch the existing settings:  
PS C:\> \$saml = Get-MsolDomainFederationSettings -DomainName <domain name>
4. Edit the settings for ActiveLogOnUri, IssuerUri, LogOffUri, PassiveLogOnUri
  - PSC:\>\$saml = New-Object -TypeName PSObject
  - PSC:\>\$saml | Add-Member -MemberType NoteProperty -Name ActiveLogOnUri -Value \$saml.ActiveLogOnUri
  - PSC:\>\$saml.ActiveLogOnUri="https://eapp051-alt.auto.mobileiron.com/MobileIron/acc/a5158d28-0f7c-4579-8ddc-aa59a1f28d13/idp/active"
  - PSC:\>\$saml | Add-Member -MemberType NoteProperty -Name IssuerUri -Value \$saml.IssuerUri
  - PSC:\>\$saml.IssuerUri="https://eapp051-alt.auto.mobileiron.com/MobileIron/acc/a5158d28-0f7c-4579-8ddc-aa59a1f28d13/idp"
  - PSC:\>\$saml | Add-Member -MemberType NoteProperty -Name LogOffUri -Value \$saml.LogOffUri
  - PSC:\>\$saml.LogOffUri="https://eapp051-alt.auto.mobileiron.com/MobileIron/acc/a5158d28-0f7c-4579-8ddc-aa59a1f28d13/idp/logout"
  - PSC:\>\$saml | Add-Member -MemberType NoteProperty -Name PassiveLogOnUri -Value \$saml.PassiveLogOnUri
  - PSC:\>\$saml.PassiveLogOnUri="https://eapp051-alt.auto.mobileiron.com/MobileIron/acc/a5158d28-0f7c-4579-8ddc-aa59a1f28d13/idp"





## Register Sentry to Access

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

### Prerequisites

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

### Procedure

1. **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. Enter the tenant password for the profile.
6. Click **OK**.
7. **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

Single sign-on service is now configured using SAML with Office 365 and Okta. This configuration lets you fetch the latest configuration from Access.

### What's next

Verify that the following tests are successful:

- Open a browser and login to Office 365 account. Verify that the Sentry logs for SAML request and responses are available.
- Configure Native Email app on iOS device and verify the Sentry logs for SAML request and responses.



# ActiveSync email access control

You must enable Office 365 ActiveSync access control using Standalone Sentry and IP claim rules with Okta. This is not a mandatory task for upgrade cycle.

## Prerequisites

- Verify that you have configured SSO using SAML between Office 365 as service provider and Okta as the identity provider. See [Configuring Office 365 and Okta with MobileIron Access](#).

## Procedure:

1. Login to Okta admin portal with admin credentials.
2. Select **Security > Network**.
3. Click **Add Zone** to add Zone tab in test tenants.  
**Note:** There are two zones that are available by default and can be used as an example to create zones. This lets you allow or block IP addresses.
4. Click **Edit** to modify IP Zone such as LegacyIpZone and enter the IP address of the Sentry.
5. Click **Save**.
6. On the **Applications** tab, select **Office365**.
7. Click **Sign On** and scroll-down to **Signon Policy**.
8. Click **Add Rule** and enter the following information:
  - a. Enter the **Rule Name**.
  - b. In **Location**, select **Not in Zone**.
  - c. In **Network Zones**, enter the name of the zone that you created, such as, LegacyIpZone.
  - d. In **CLIENT**, select Mobile (ActiveSync)
  - e. In **ACTIONS**, select Denied from the drop-down list.
  - f. Click Save.
9. The IP Claim Rule is added.



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