

# Configure SNA Manager for Microsoft Entra ID SSO

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## Introduction

This document describes how to configure Secure Network Analytics (SNA) to use Microsoft Entra ID for Single Sign On (SSO.)

## Prerequisites

### Requirements

Cisco recommends that you have knowledge of these topics:

- Microsoft Azure
- Secure Network Analytics

### Components Used

- SNA Manager v7.5.2
- Microsoft Entra ID

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, ensure that you understand the potential impact of any command.

## Configuration Steps

### Configure Enterprise Application in Azure

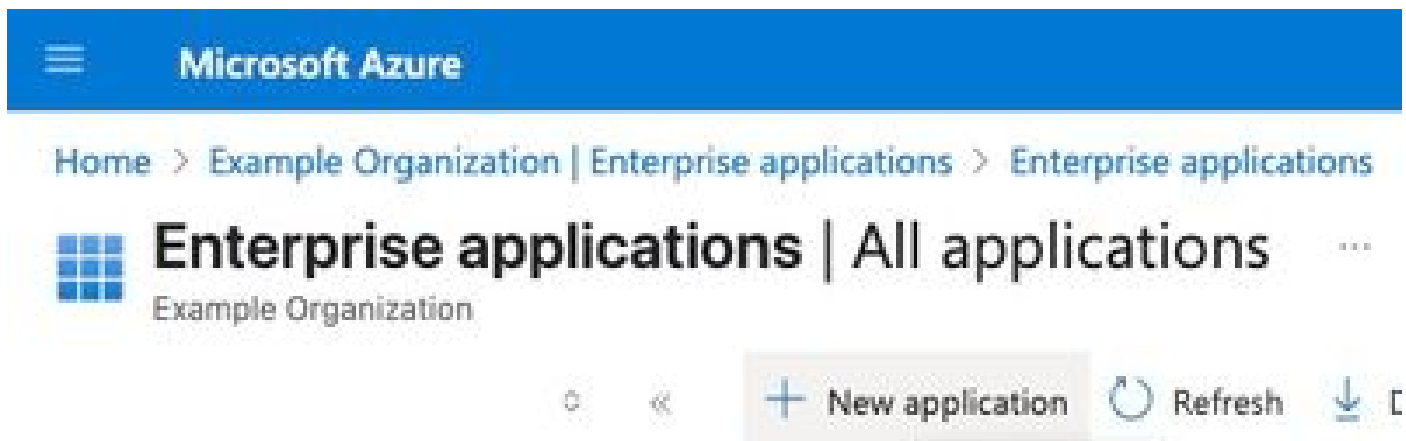
1. Log in to [Azure cloud portal](#).

2. Search **Entra ID** service in the search box and select **Microsoft Entra ID**.



3. In the left pane expand **Manage** and select **Enterprise Applications**.

4. Click **New Application**.



5. Select **Create Your Own Application** on the new page that loads.



[Home](#) > [Enterprise applications](#) | [All applications](#) >

# Browse Microsoft Entra Gallery



Create your own application



Got feedback?

The Microsoft Entra App Gallery is a catalog of thousands of applications. Browse or create your own application here. If you are want



Sir

## Cloud platforms

*Azure-UI*

6. Provide a name to application in **What's the name of your app?** field.

7. Select the radio button **Integrate any other application you don't find in the gallery (Non-gallery)** and click **Create**.

# Create your own application



Got feedback?

If you are developing your own application, using Application Proxy, or want to integrate an application that is not in the gallery, you can create your own application here.

What's the name of your app?

An Example SNA App Name





What are you looking to do with your application?


- ☐ Configure Application Proxy for secure remote access to an on-premises application
- ☐ Register an application to integrate with Microsoft Entra ID (App you're developing)
- ☒ Integrate any other application you don't find in the gallery (Non-gallery)


Create


8. On newly configured application dashboard click **Set up single sign on**.


 **An Example SNA App Name | Overview** ...  
Enterprise Application


 Overview


 Deployment Plan

 Diagnose and solve problems


 Manage

 Security

 Activity

 Troubleshooting + Support


### Properties


 Name ⓘ  
An Example SNA App Name ⓘ

Application ID ⓘ  
[Redacted] ⓘ

Object ID ⓘ  
[Redacted] ⓘ

### Getting Started

 **1. Assign users and groups**  
Provide specific users and groups access to the applications  
[Assign users and groups](#)

 **2. Set up single sign on**  
Enable users to sign into their application using their Microsoft Entra credentials  
[Get started](#)


## 9. Select **SAML**.

The screenshot shows the 'Single sign-on' configuration page in the Microsoft Entra ID portal. The left-hand navigation pane includes links for Overview, Deployment Plan, Diagnose and solve problems, Manage, Properties, Owners, Roles and administrators, Users and groups, **Single sign-on** (which is highlighted), Provisioning, and Authentication. The main content area is titled 'Select a single sign-on method' with a 'Help me decide' link. It features two selectable options: 'Disabled' (which is currently selected and has a grey background) and 'SAML'. The 'Disabled' option includes a crossed-out circle icon and text stating that single sign-on is not enabled and users cannot launch the app from 'My Apps'. The 'SAML' option includes a puzzle piece icon and text describing it as a rich and secure authentication protocol using SAML (Security Assertion Markup Language).

## 10. On the Set up Single Sign-On with SAML page click **Edit** under Basic SAML Configuration.

### Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experiences and is easier to implement. Choose SAML single sign-on whenever possible for existing applications that do not use OpenID Connect or OAuth. [Learn more.](#)

Read the [configuration guide](#)  for help integrating An Example SNA App Name.

The screenshot shows the 'Basic SAML Configuration' pane, which is the first step in the setup process (indicated by a '1' in a blue circle on the left). The pane has a title 'Basic SAML Configuration' and an 'Edit' link with a pencil icon in the top right corner. It contains a list of configuration fields with their respective requirements:

Identifier (Entity ID)	<b>Required</b>
Reply URL (Assertion Consumer Service URL)	<b>Required</b>
Sign on URL	<i>Optional</i>
Relay State (Optional)	<i>Optional</i>
Logout Url (Optional)	<i>Optional</i>

## 11. Under **Basic SAML Configuration** pane configure **Add Reply URL** to <https://example.com/fedlet/fedletapplication> replacing example.com with FQDN of SNA Manager and click **save**.

# Basic SAML Configuration



Save



Got feedback?

## Identifier (Entity ID) \* ⓘ

The unique ID that identifies your application to Microsoft Entra ID. This value must be unique across all applications in your Microsoft Entra tenant. The default identifier will be the audience of the SAML response for IDP-initiated SSO.

Default

https://example.com/fedlet



[Add identifier](#)

## Reply URL (Assertion Consumer Service URL) \* ⓘ

The reply URL is where the application expects to receive the authentication token. This is also referred to as the "Assertion Consumer Service" (ACS) in SAML.

Index

Default

https://example.com/fedlet/fedletapplication



[Add reply URL](#)

12. Locate the **SAML Certificates** card and save the **App Federation Metadata URL** field value and download the **Federation Metadata XML**.

3

### SAML Certificates

#### Token signing certificate

Edit

Status	Active
Thumbprint	123456789abcdefghijklmnopqrstuvwxyz
Expiration	6/3/2028, 8:39:10 AM
Notification Email	someuser@example.com
App Federation Metadata Url	<a href="https://login.microsoftonline.com/af42bac0-52aa-...">https://login.microsoftonline.com/af42bac0-52aa- ...</a>
Certificate (Base64)	<a href="#">Download</a>
Certificate (Raw)	<a href="#">Download</a>
Federation Metadata XML	<a href="#">Download</a>

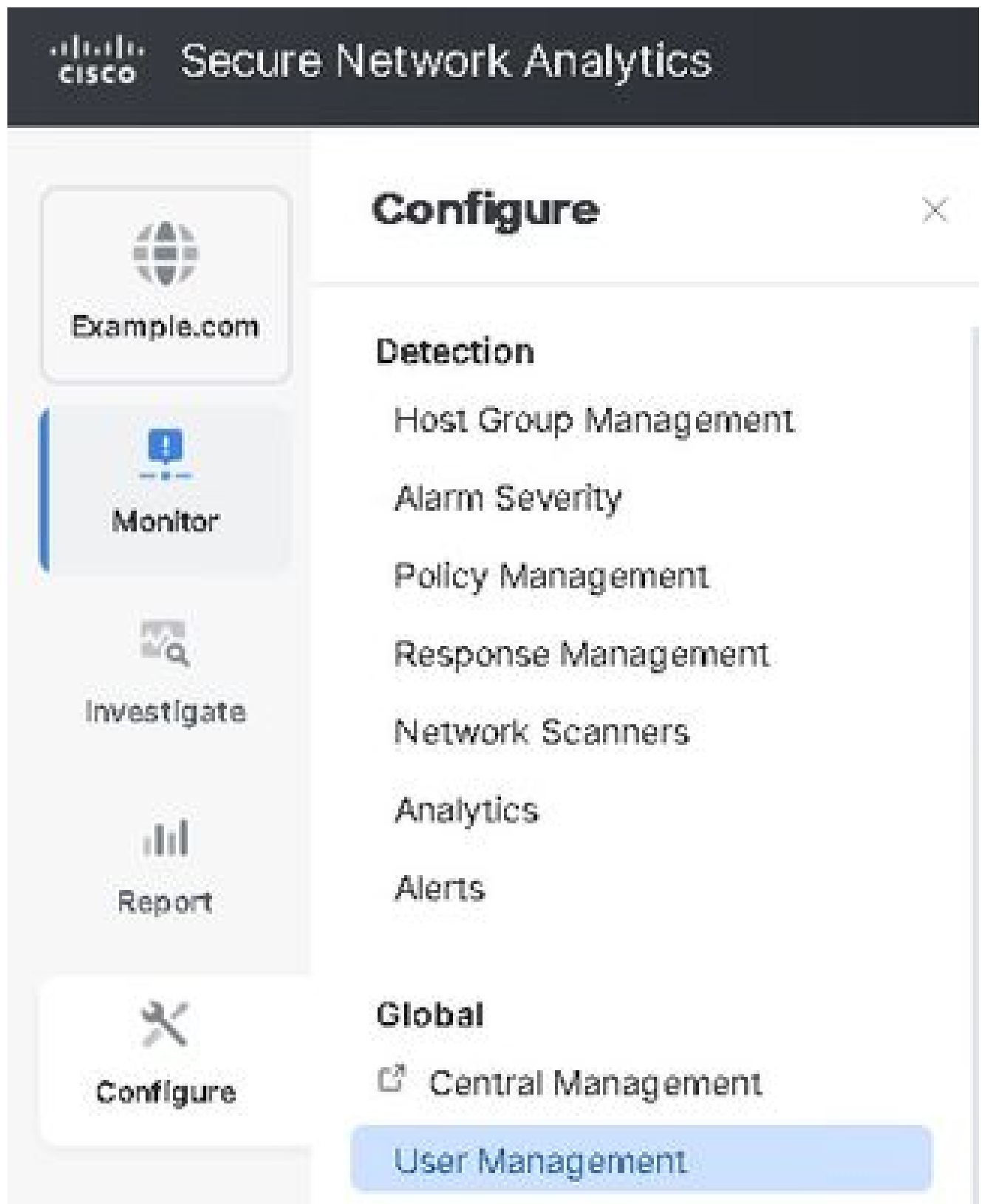
#### Verification certificates (optional)

Edit

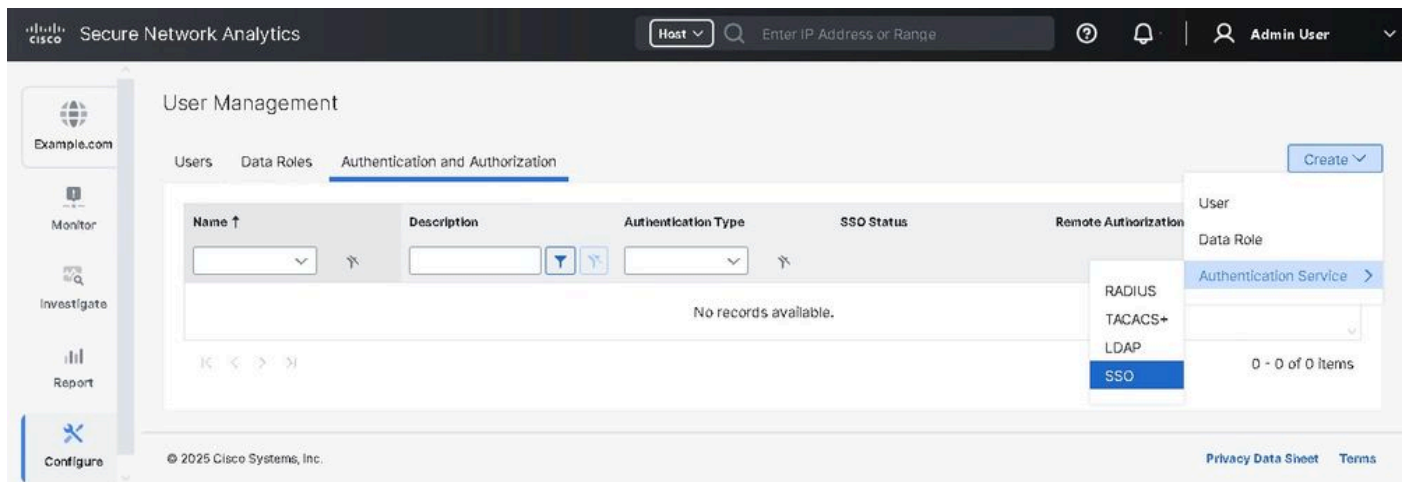
Required	No
Active	0
Expired	0

## Configure and Download Service Provider XML File in SNA

1. Log in to the **SNA Manager UI**.
2. Navigate to **Configure > Global > User Management**.



3. Under **Authentication and Authorization** tab click **Create > Authentication Service > SSO**.



4. Select the appropriate radio button for **Identity Provider Metadata URL** or **Upload Identity Provider Metadata XML File**.

User Management | Authentication Service Cancel Save

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**Authentication Service**

Authentication Service Type:  Name:  Description:

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**Identity Provider**

Identity Provider Type:  Status:

☐ Identity Provider Metadata URL 
☒ Upload Identity Provider Metadata XML File \* XML format required Add File

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**General Configuration**

Name Identifier Format:  Login Screen Label:  Custom Service Provider Address:

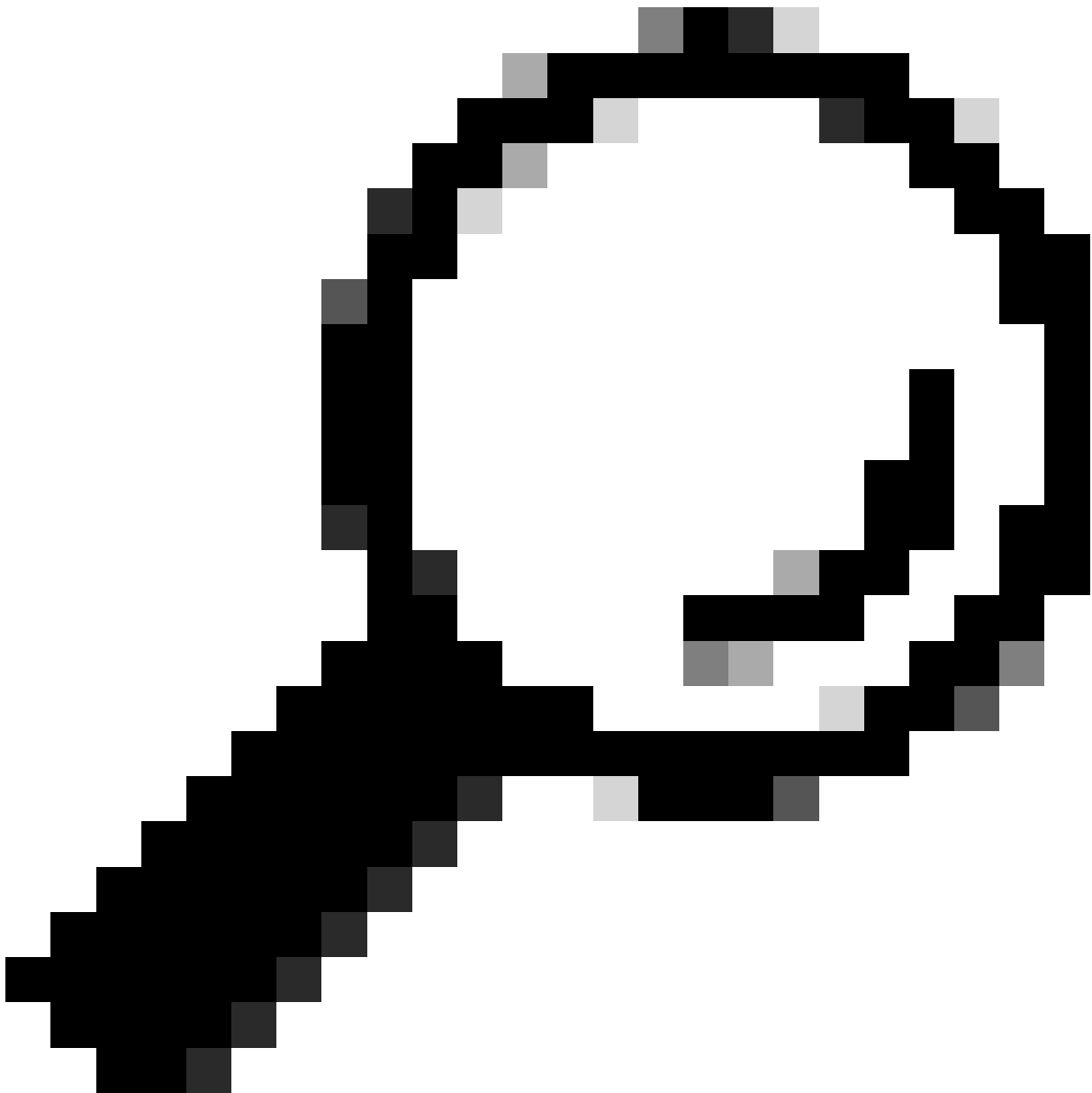




**Note:** In this demo Upload Identity Provider Metadata XML File is selected.

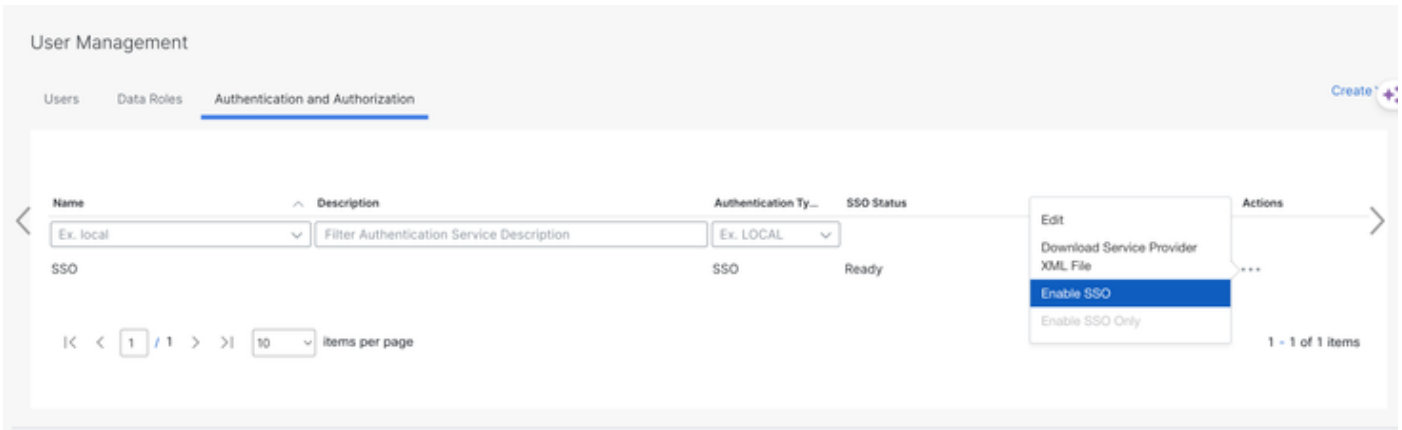
---

5. Configure **Identity Provider Type** field to **Microsoft Entra ID**, Name **Identifier Format** to **Persistent**, Type a **Login Screen Label**.

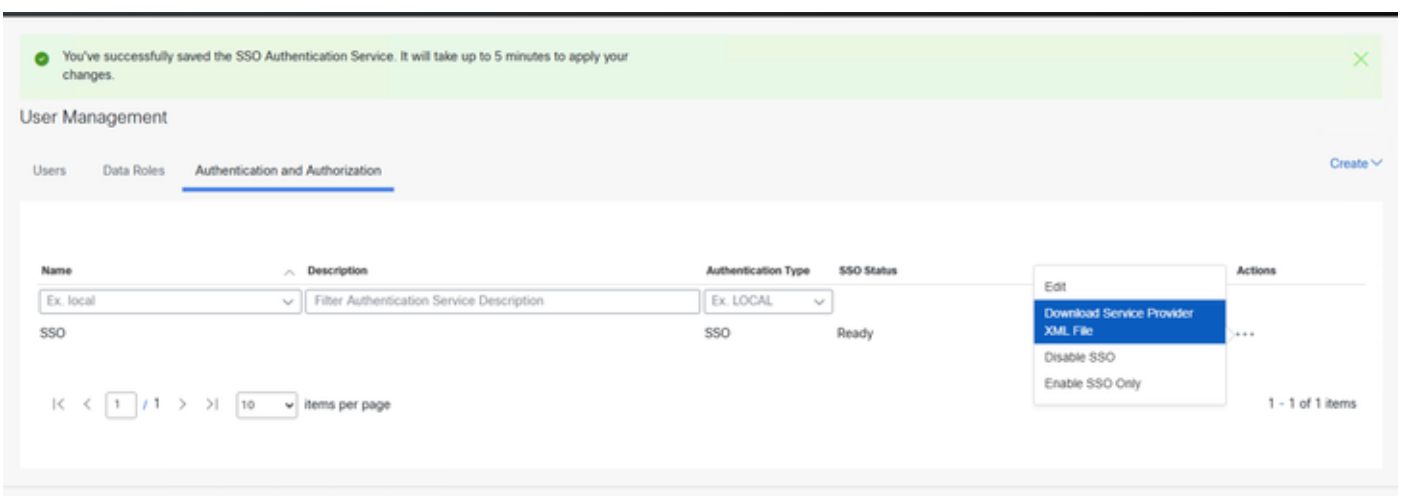


**Tip:** Configured Login Screen label (name/text) shows above the Login In with SSO button and should not be left empty.

- 
6. Click **Save** which returns you back to Authentication and Authorization tab.
  7. Wait for the status to be **READY** and select **Enable SSO** from the action menu.

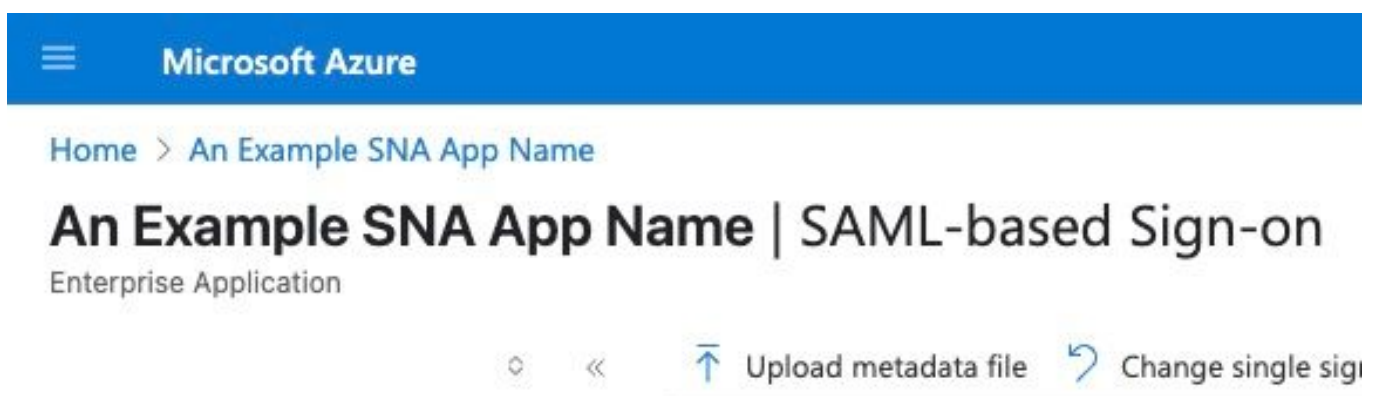


8. Under **Authentication and Authorization** tab click on **the three dots** in the **Actions** column and click **Download Service Provider XML File**.



## Configure SSO in Azure

1. Log in to [Azure portal](#).
2. From the search bar navigate to **Enterprise Application** > **Select configured Enterprise Application** > **Click setup single sign on**.
3. Click **Upload metadata file** at the top of the page and upload the sp.xml file downloaded from SNA Manager.
4. It opens "Basic SAML Configuration" screen and set various settings to correct values, Click **Save**.





**Note:** Ensure the Name ID Format in Entra ID is correct.

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5. Locate **Attributes & Claims** section and click **Edit**.

# Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experiences and is easier to implement. Choose SAML single sign-on whenever possible for existing applications that do not use OpenID Connect or OAuth. [Learn more.](#)

Read the [configuration guide](#) for help integrating An Example SNA App Name.

1

Basic SAML Configuration

Edit

Identifier (Entity ID)	https://example.com/fedlet
Reply URL (Assertion Consumer Service URL)	https://your-sna-manager-fqdn.com/fedlet/fedletapplication
Sign on URL	Optional
Relay State (Optional)	Optional
Logout Url (Optional)	Optional

2

Attributes & Claims

Edit

Edit u

givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.userprincipalname

6. Click **user.userprincipalname** value under **Claim Name** section.

Home > An Example SNA App Name | SAML-based Sign-on > SAML-based Sign-on >

Attributes & Claims

+ Add new claim

+ Add a group claim

Columns

Got feedback?

Required claim

Claim name	Type	Value
Unique User Identifier (Name ID)	SAML	user.userprincipalname [...] ...

7. Under **Manage Claim** page Verify **Choose name identifier format**.



## Manage claim ...



Save



Discard changes



Got feedback?

Name

nameidentifier

Namespace

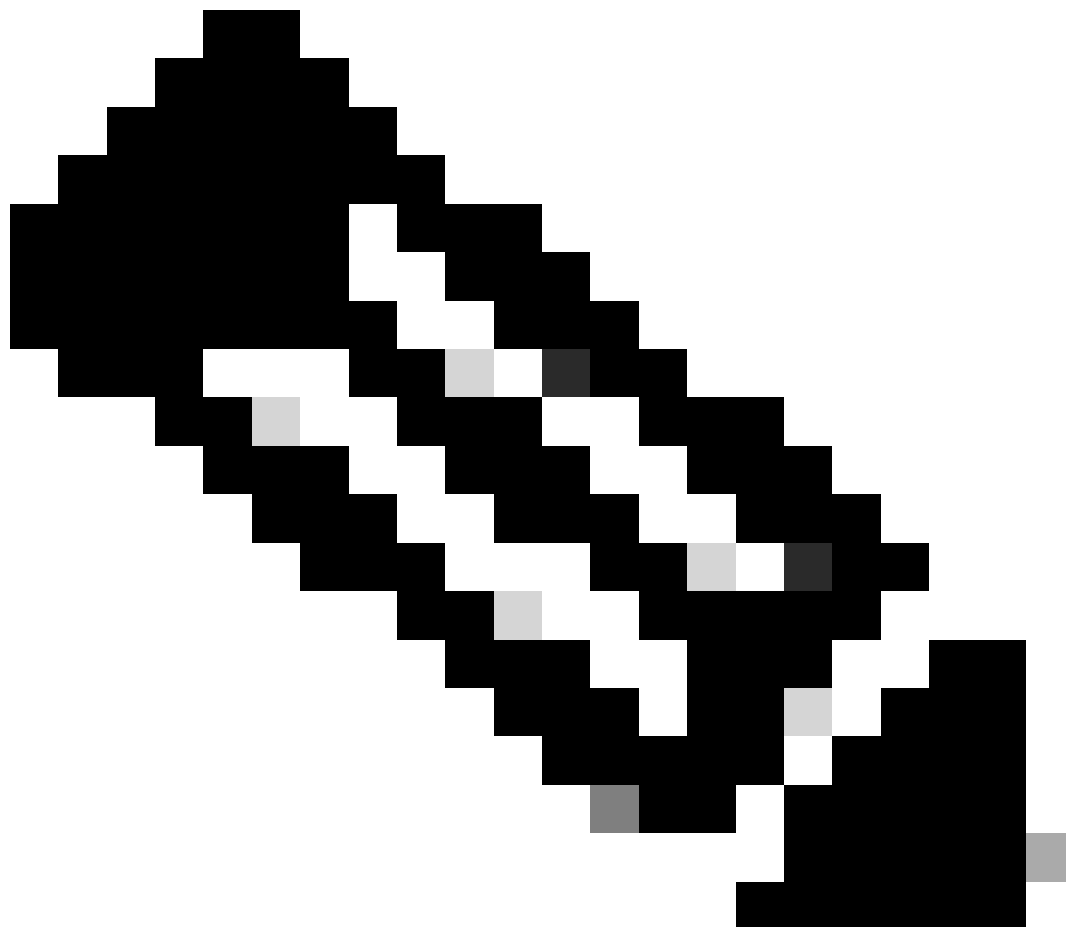
http://schemas.xmlsoap.org/ws/2005/05/identity/claims



Choose name identifier format

Name identifier format \*

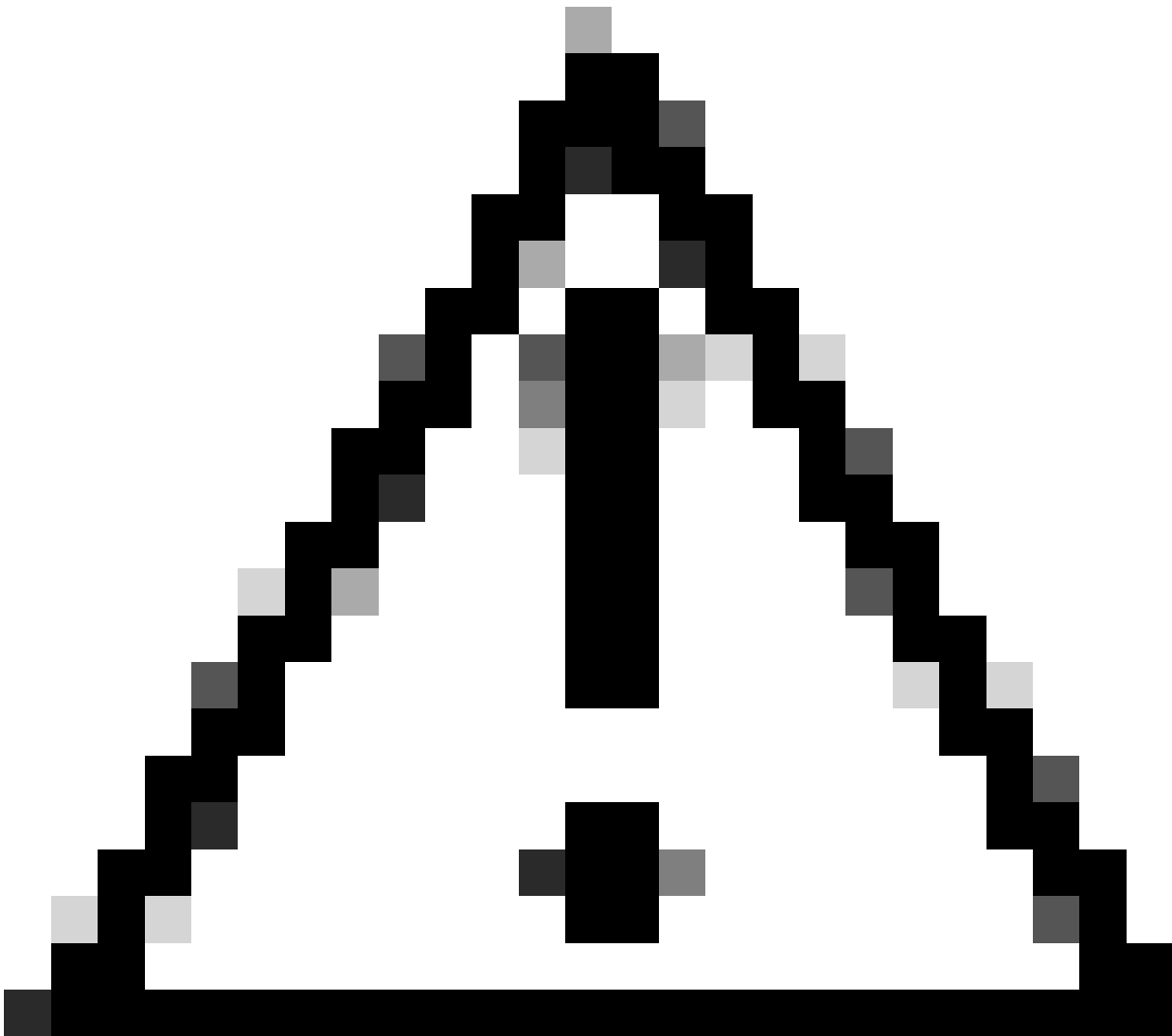
Persistent



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**Note:** Name identifier format field is set to Persistent if not then select it from the drop down menu. Click save if changes were made.

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**Caution:** This is the most common place to encounter issues. The settings on the SNA Manager and Microsoft Azure must match. if you opted to use the "emailAddress" format in SNA, the format here must also be "Email Address."

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## Setup Users in Entra ID.

1. Log in to [Azure portal](#).
2. From the search bar navigate to the **Enterprise Application > Select configured Enterprise Application > select Users and Groups on the left > click Add user/group.**

Microsoft Azure

Home > An Example SNA App Name

## An Example SNA App Name | Users and groups

Enterprise Application

+ Add user/group   Edit assignment   Remove as:

Overview

Deployment Plan

Diagnose and solve problems

Manage

- Properties
- Owners
- Roles and administrators
- Users and groups**

The application will appear for assigned users within My App

Assign users and groups to app-roles for your application here

First 200 shown, search all users & groups

Display name

No application assignments found

3. In the left pane click **None Selected**.

4. Search and add required user to the application.

Microsoft Azure

Search resources, services, and docs (G+)

Copilot

Home > An Example SNA App Name | Users and groups >

### Add Assignment

Example Organization

Users and groups

None Selected

Select a role

User


### Users and groups

Try changing or adding filters if you don't see what you're looking for.

Search


1 result found

All Users Groups

	Name	Type	Details
<input checked="" type="checkbox"/>	 Example User	User	user@example.com

Selected (1)

Reset

 Example User  
user@example.com

Assign

Select

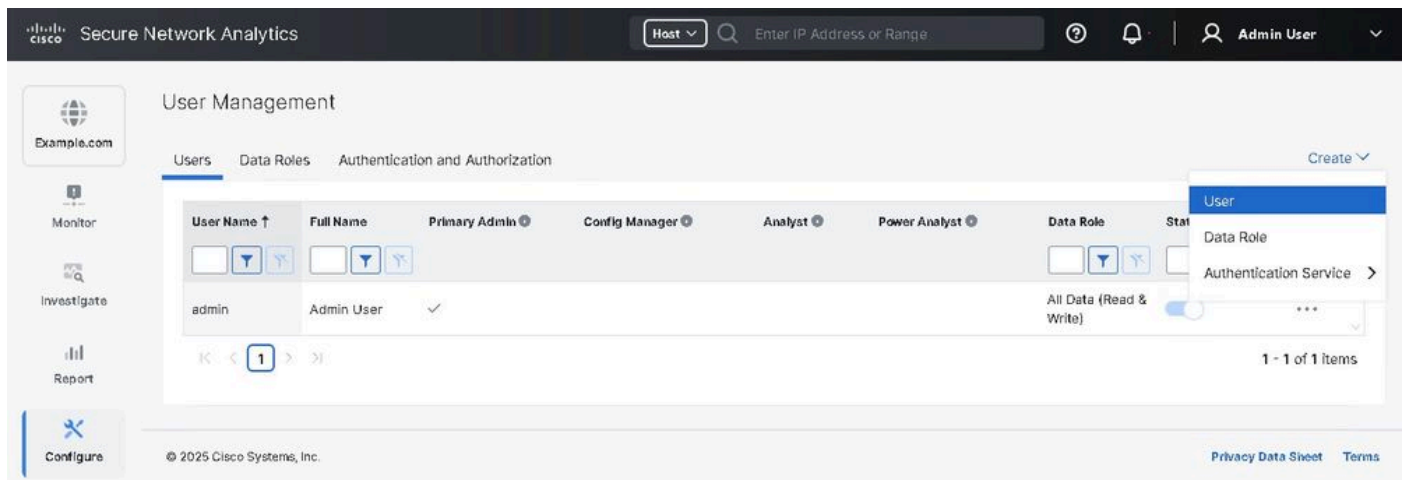
## Configure SSO in SNA

1. Log in to the **SNA Manager UI**.

2. Navigate to **Configure > Global > User Management**.

3. Click **Create > User**.





4. Configure user by providing associated details with **Authentication service selected as SSO** and click **Save**.

*SAML-User creation in SNA-UI*

## Troubleshoot

If users are unable to login to the SNA Manager, a SAML tracer can be used to investigate further.

If further assistance is needed investigating the SNA Manager a TAC Case can be raised.

<https://www.cisco.com/c/en/us/support/web/tsd-cisco-worldwide-contacts.html>