

How to Create a SAML Endpoint in Microsoft Azure and Client-to-Site SAML Configuration

<https://campus.barracuda.com/doc/98210143/>

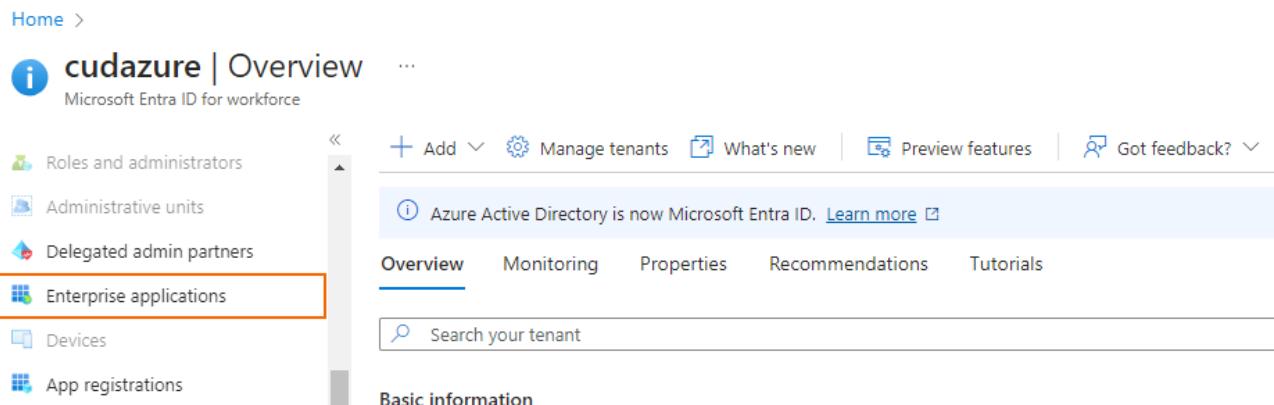
Follow the guide below to create a SAML endpoint in Microsoft Azure and to configure a Barracuda CloudGen Firewall to use SAML authentication for the client-to-site VPN service.

Before You Begin

- Create and configure a VPN service. For more information, see [VPN](#).
- You must have an existing user group in Microsoft Entra ID. For more information, see <https://learn.microsoft.com/en-us/entra/fundamentals/how-to-manage-groups>.
- An Advanced Remote Access subscription is required. For more information on subscriptions, see [Base Licensing and Subscriptions](#).

Step 1. Create a SAML Endpoint in Microsoft Azure

1. Log into the Azure portal: <https://portal.azure.com>
2. In the left menu, click **All services** and search for *Microsoft Entra ID*.
3. Click **Microsoft Entra ID**.
4. In the left menu of the **Microsoft Entra ID** blade, click **Enterprise applications**.



5. The **Enterprise applications** blade opens. Click **Overview**.
6. In the **Overview** blade, click **New application**.

[Home >](#)

Enterprise applications | Overview

cud azure - Microsoft Entra ID for workforce

Overview

 Overview Diagnose and solve problems

Manage

 All applications New application Got feedback?

Overview

Tutorials

 Search your tenant

Basic information

7. The **Browse Microsoft Entra Gallery** blade opens. Click **Create your own application**.

 Microsoft Azure[Home > Enterprise applications | Overview >](#)

Browse Microsoft Entra Gallery

 Create your own application Got feedback?

The Microsoft Entra App Gallery is a catalog of thousands of apps that make it easier to connect your organization to their apps. Browse or create your own application here. If you are wanting to publ

 Search application

Single Sign-on : All

8. Enter the name of your application, and select **Integrate any other application you don't find in the gallery (Non-gallery)**.

Create your own application

X

 Got feedback?

What's the name of your app?

Campus-Saml



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 (App you're developing)
- Integrate any other application you don't find in the gallery (Non-gallery)

We found the following applications that may match your entry

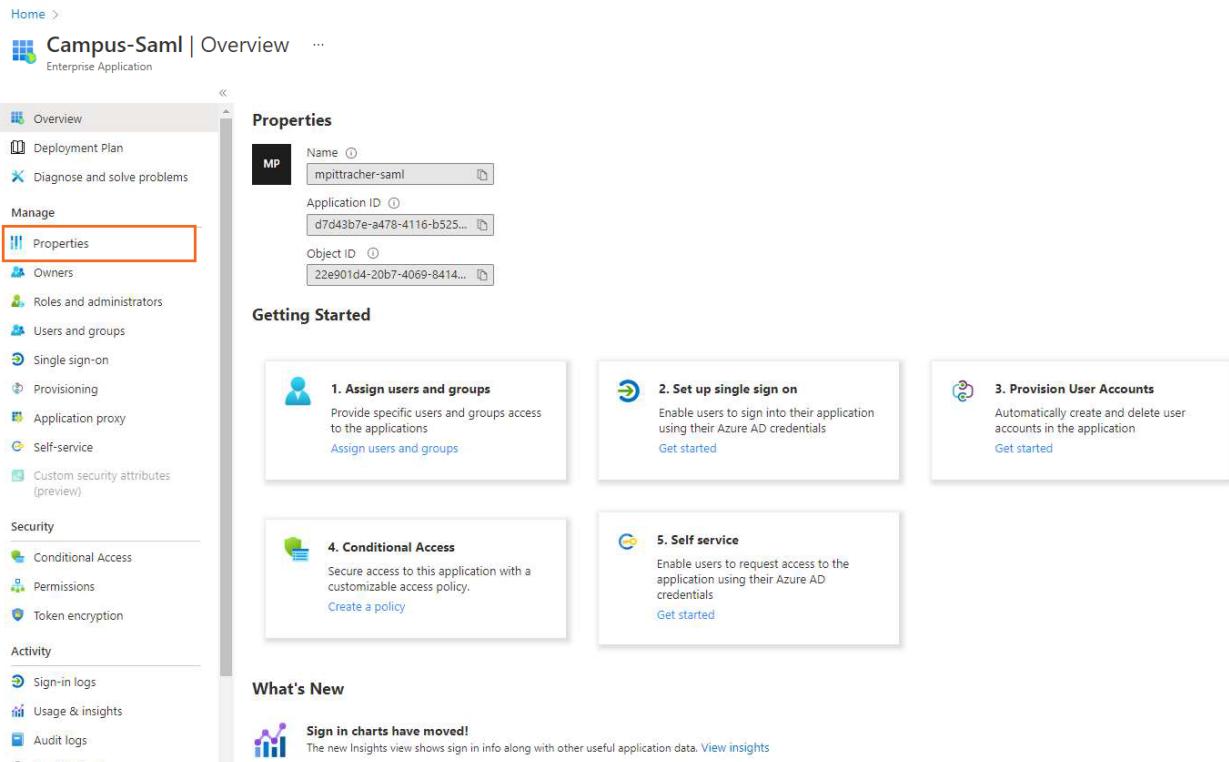
We recommend using gallery applications when possible.

 OU Campus Create

9. Click **Create**.

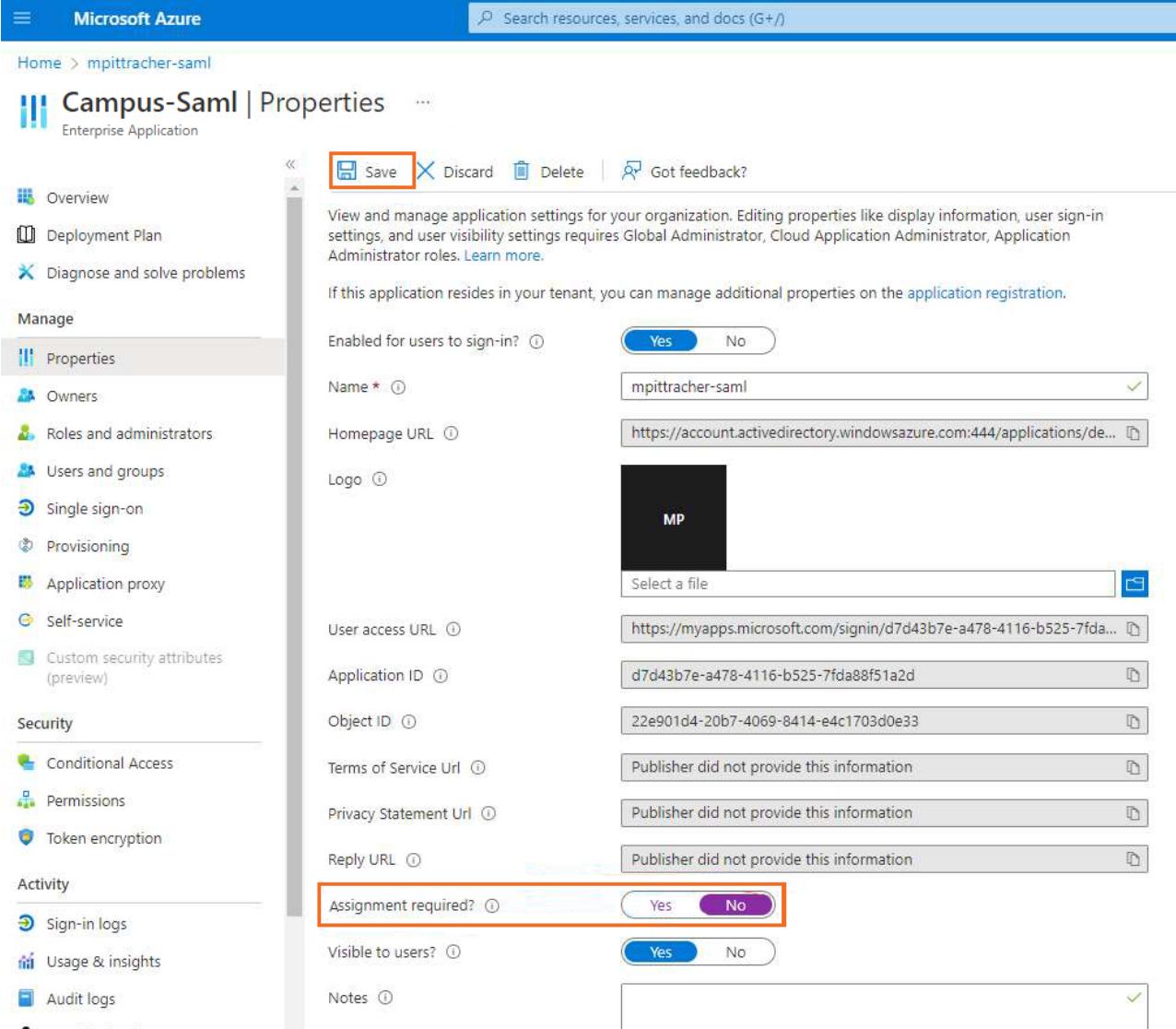
After the application is successfully deployed, it automatically opens the **Overview** blade of the created application.

10. In the left menu, select **Properties**.



The screenshot shows the 'Campus-Saml | Overview' page in the Microsoft Azure portal. On the left, there's a navigation menu with sections like Overview, Deployment Plan, Diagnose and solve problems, Manage (with Properties highlighted), Owners, Roles and administrators, Users and groups, Single sign-on, Provisioning, Application proxy, Self-service, and Custom security attributes (preview). Below that are Security (Conditional Access, Permissions, Token encryption), Activity (Sign-in logs, Usage & insights, Audit logs), and Monitoring (Logs). The main content area is titled 'Properties' and shows details for the application: Name (mpittracher-saml), Application ID (d7d43b7e-a478-4116-b525...), and Object ID (22e901d4-20b7-4069-8414...). To the right, under 'Getting Started', there are five numbered steps: 1. Assign users and groups (Provide specific users and groups access to the applications), 2. Set up single sign on (Enable users to sign into their application using their Azure AD credentials), 3. Provision User Accounts (Automatically create and delete user accounts in the application), 4. Conditional Access (Secure access to this application with a customizable access policy), and 5. Self service (Enable users to request access to the application using their Azure AD credentials). At the bottom, there's a 'What's New' section with a message about sign-in charts being moved to the Insights view.

11. In the **Properties** blade, disable **Assignment required** and click **Save**.



The screenshot shows the 'Campus-Saml | Properties' page in Microsoft Azure. The left sidebar lists various management sections like Overview, Deployment Plan, Diagnose and solve problems, and several under 'Manage'. The main area shows application settings with fields for Name (mpittracher-saml), Homepage URL (https://account.activedirectory.windowsazure.com:444/applications/de...), Logo (a placeholder image with 'MP'), and several other URLs and IDs. A red box highlights the 'Save' button at the top right. Another red box highlights the 'Assignment required?' section where 'No' is selected. A third red box highlights the 'Visible to users?' section where 'Yes' is selected.

12. In the left menu, click **Single sign-on**.
13. The **Single sign-on** blade opens. Select **SAML**.

Home > Enterprise applications > Campus-SAML-Endpoint

Campus-SAML-Endpoint | Single sign-on

Overview

Deployment Plan

Manage

Properties

Owners

Roles and administrators (Preview)

Users and groups

Single sign-on

Provisioning

Application proxy

Self-service

Security

Conditional Access

Permissions

Token encryption

Activity

Sign-ins

Usage & insights (Preview)

Audit logs

Provisioning logs (Preview)

Access reviews

« Select a single sign-on method Help »



Disabled

Single sign-on is not enabled. The user won't be able to launch the app from My Apps.



SAML

Rich and secure authentication to applications using the SAML (Security Assertion Markup Language) protocol.



Password-based

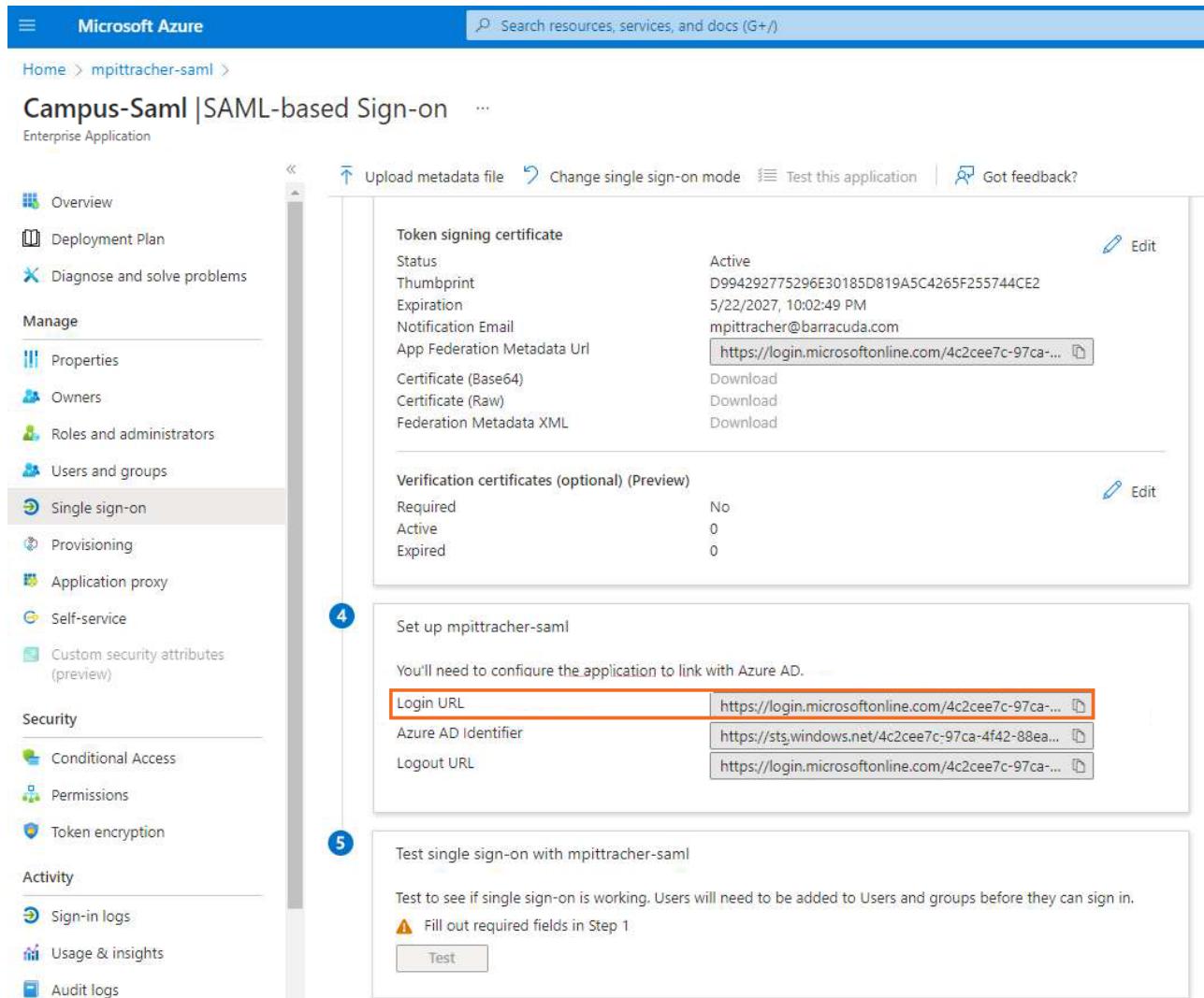
Password storage and replay using a web browser extension or mobile app.



Linked

Link to an application in the Azure Active Directory Access Panel and/or Office 365 application launcher.

14. The **SAML-based Sign-on** blade opens. Copy the **Login URL**.



The screenshot shows the Microsoft Azure portal interface for managing a SAML-based sign-on application named "Campus-Saml".

Left Sidebar:

- Overview
- Deployment Plan
- Diagnose and solve problems
- Manage**
 - Properties
 - Owners
 - Roles and administrators
 - Users and groups
 - Single sign-on**
 - Provisioning
 - Application proxy
 - Self-service
 - Custom security attributes (preview)
- Security
 - Conditional Access
 - Permissions
 - Token encryption
- Activity
 - Sign-in logs
 - Usage & insights
 - Audit logs

Top Bar:

- Microsoft Azure
- Search resources, services, and docs (G+)

Application Overview:

Campus-Saml |SAML-based Sign-on ···

Enterprise Application

Actions:

- Upload metadata file
- Change single sign-on mode
- Test this application
- Got feedback?

Token signing certificate:

Status	Active
Thumbprint	D994292775296E30185D819A5C4265F255744CE2
Expiration	5/22/2027, 10:02:49 PM
Notification Email	mpittracher@barracuda.com
App Federation Metadata Url	https://login.microsoftonline.com/4c2cee7c-97ca-4f42-88ea-...
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

Verification certificates (optional) (Preview):

Required	No
Active	0
Expired	0

Step 4: Set up mpittracher-saml

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

Login URL	https://login.microsoftonline.com/4c2cee7c-97ca-4f42-88ea-...
Azure AD Identifier	https://sts.windows.net/4c2cee7c-97ca-4f42-88ea-...
Logout URL	https://login.microsoftonline.com/4c2cee7c-97ca-4f42-88ea-...

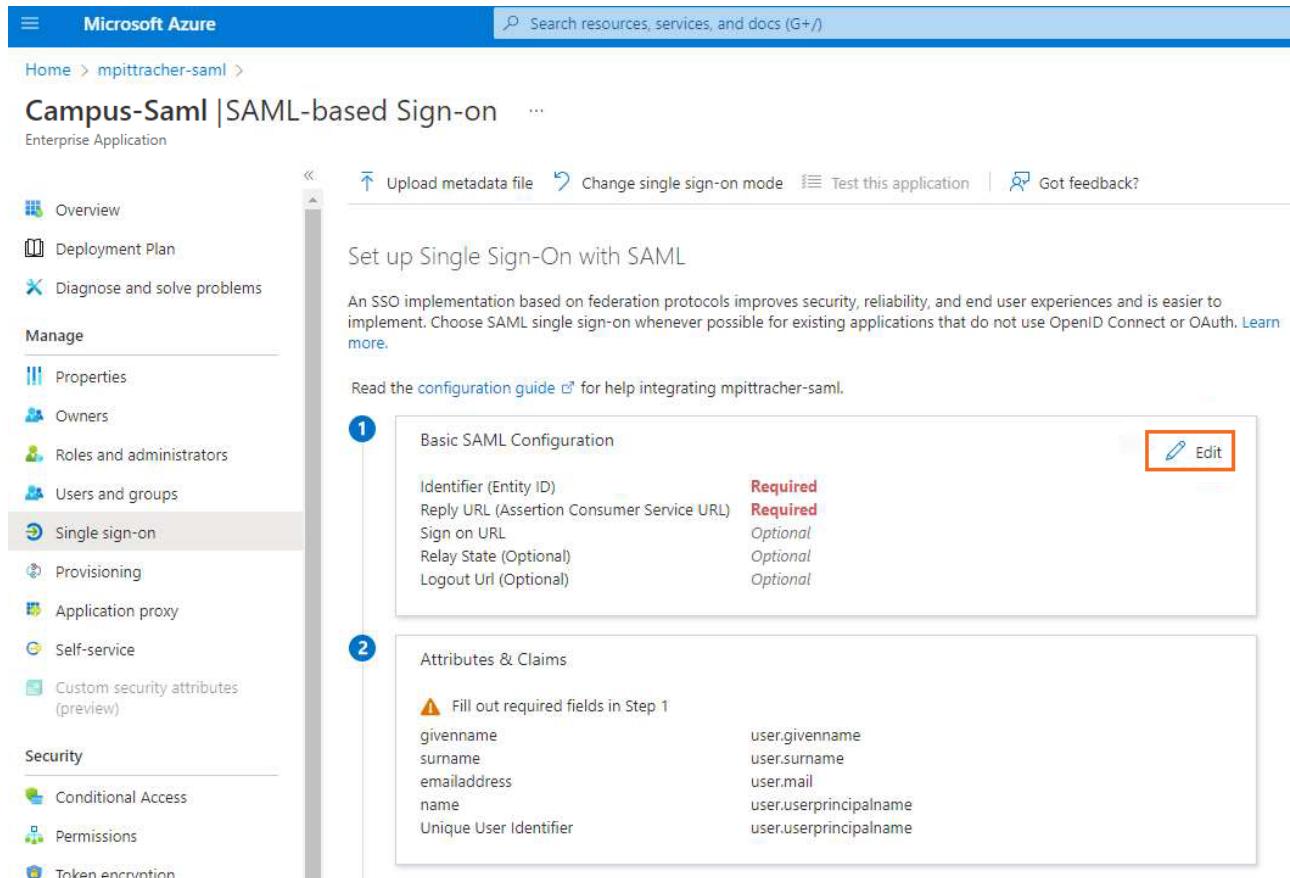
Step 5: Test single sign-on with mpittracher-saml

Test to see if single sign-on is working. Users will need to be added to Users and groups before they can sign in.

Warning: Fill out required fields in Step 1.

Test

15. Click **Edit** next to **Basic SAML Configuration**.



Campus-Saml | SAML-based Sign-on

Enterprise Application

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 mpittracher-saml.

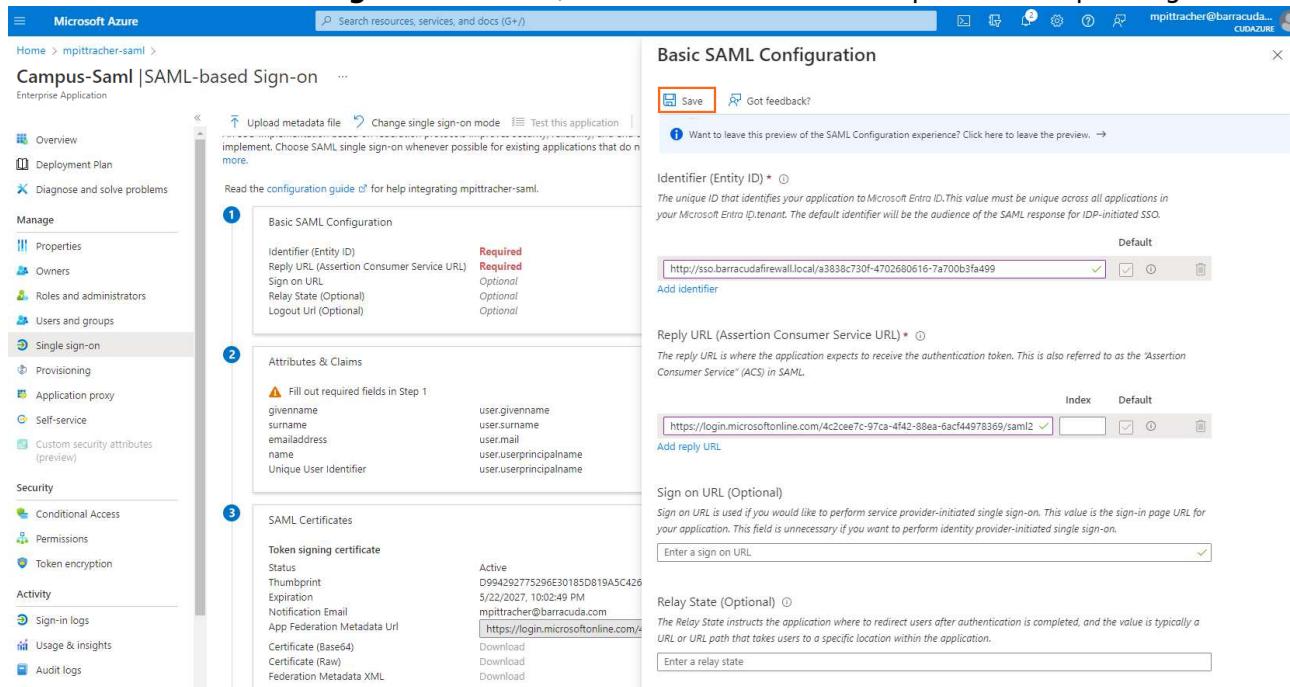
1 Basic SAML Configuration

Identifier (Entity ID)	Required
Reply URL (Assertion Consumer Service URL)	Required
Sign on URL	Optional
Relay State (Optional)	Optional
Logout Url (Optional)	Optional

2 Attributes & Claims

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

16. Click **Add reply URL** and paste the copied URL.
17. Open the SAML configuration on your Barracuda CloudGen Firewall, and copy the **Service Provider Entity ID**.
18. In the **Basic SAML Configuration** blade, click **Add identifier** and paste the copied login URL.



Basic SAML Configuration

1 Basic SAML Configuration

Identifier (Entity ID)	Required
Reply URL (Assertion Consumer Service URL)	Required
Sign on URL	Optional
Relay State (Optional)	Optional
Logout Url (Optional)	Optional

2 Attributes & Claims

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

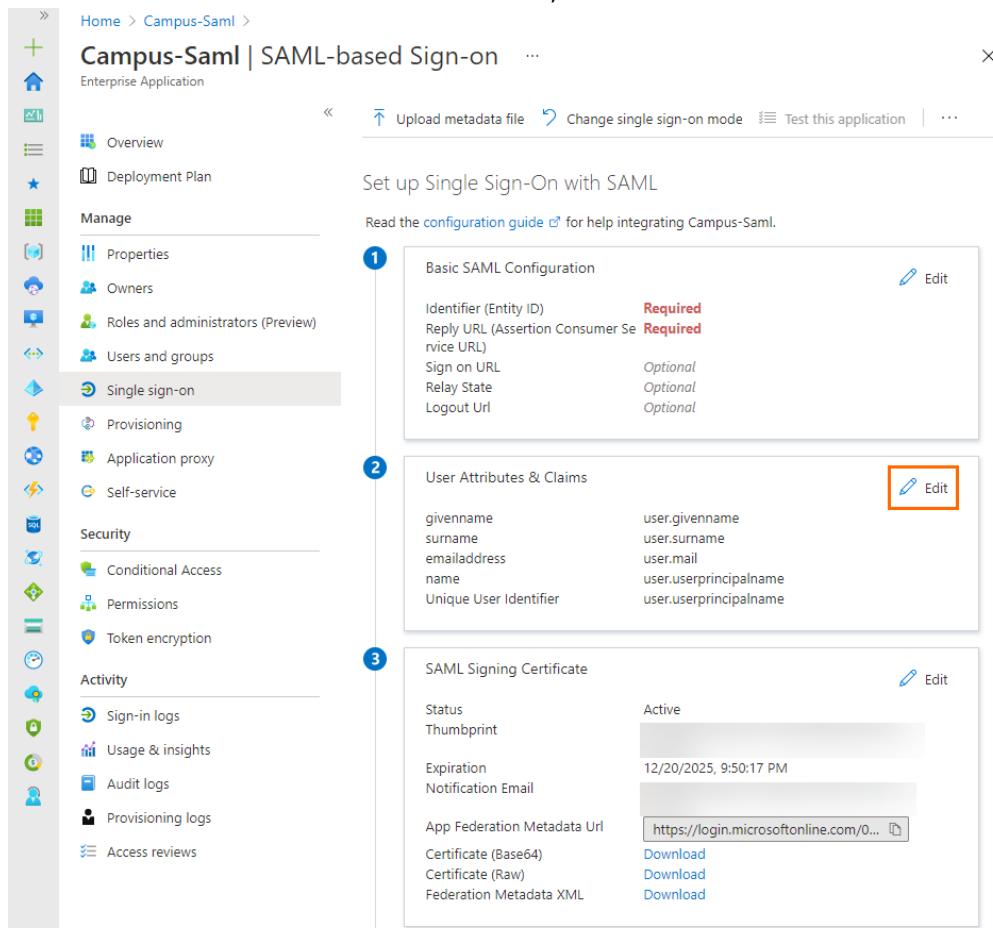
3 SAML Certificates

Token signing certificate	Active
Status	Active
Thumbprint	0994292775296E30185D819A5C426
Expiration	5/22/2027, 10:02:49 PM
Notification Email	mpittracher@barracuda.com
App Federation Metadata Url	https://login.microsoftonline.com/.well-known/openid-configuration
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

19. Click **Save**.

20. Click **X** to close the **Basic SAML Configuration** blade.

21. In the **User Attribute & Claims** section, click **Edit**.



Basic SAML Configuration

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

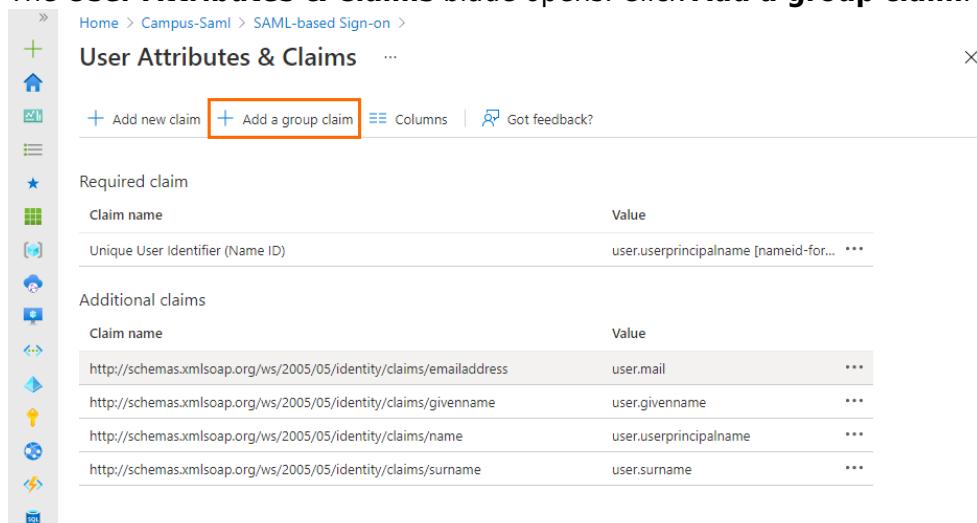
User Attributes & Claims

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

SAML Signing Certificate

Status	Active
Thumbprint	
Expiration	12/20/2025, 9:50:17 PM
Notification Email	
App Federation Metadata Url	https://login.microsoftonline.com/0...
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

22. The **User Attributes & Claims** blade opens. Click **Add a group claim**.



Required claim

Claim name	Value
Unique User Identifier (Name ID)	user.userprincipalname [nameid-for...]

Additional claims

Claim name	Value
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress	user.mail
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	user.givenname
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	user.userprincipalname
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	user.surname

23. The **Group Claims** blade opens. Select **Security groups** and click **Save**.

Group Claims

X

Manage the group claims used by Microsoft Entra ID to populate SAML tokens issued to your app

Which groups associated with the user should be returned in the claim?

- None
- All groups
- Security groups
- Directory roles
- Groups assigned to the application

Source attribute *

Advanced options

Customize the name of the group claim

Name (required)

Namespace (optional)

Emit groups as role claims ⓘ

Save

24. Click **X** to close the **User Attributes & Claims** blade.

Home > Campus-Saml > SAML-based Sign-on >

User Attributes & Claims

X

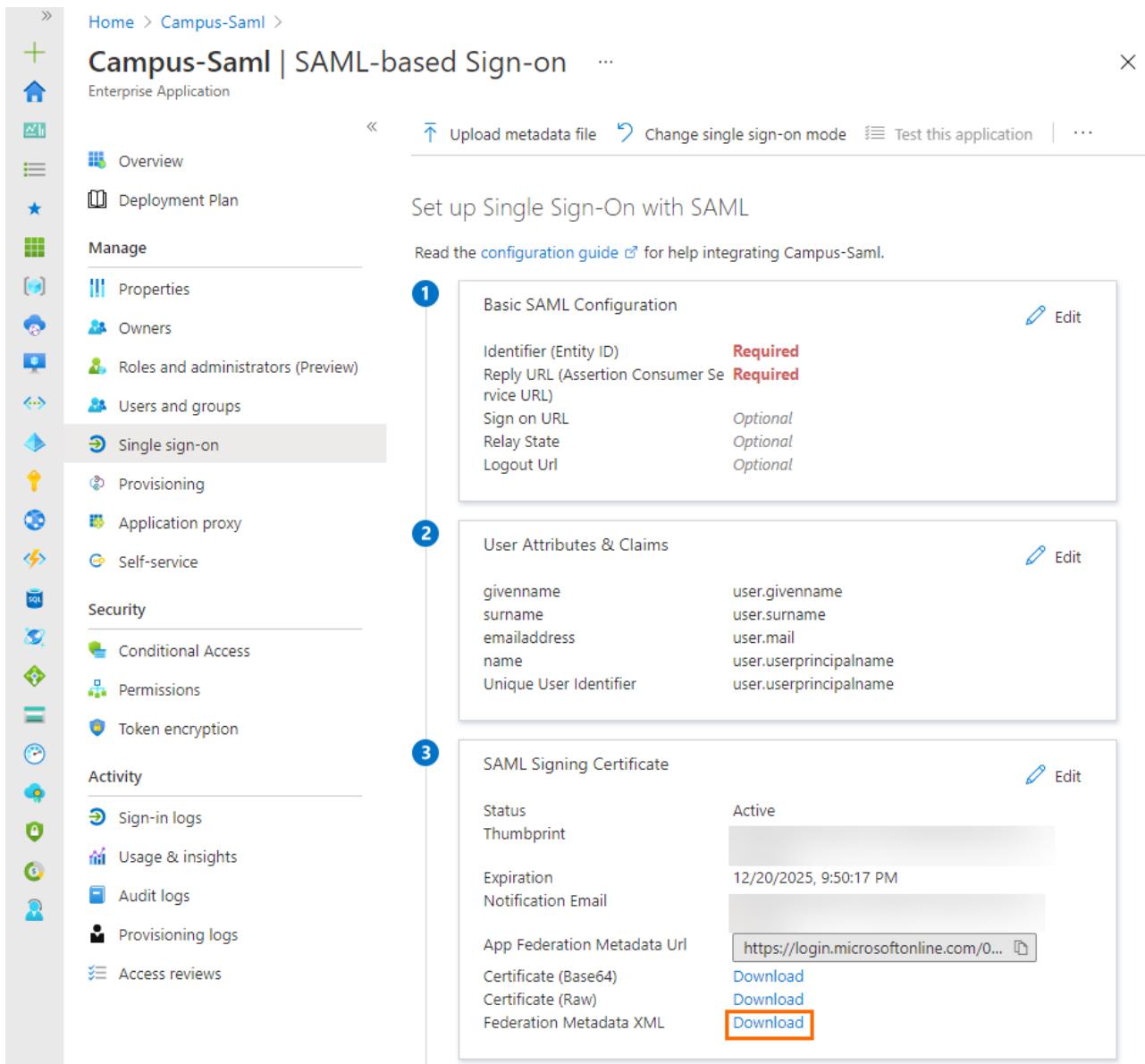
+ Add new claim + Add a group claim ≡ Columns | ↗ Got feedback?

Required claim

Claim name	Value
Unique User Identifier (Name ID)	user.userprincipalname [nameid-for... ***]

If the number of groups a user is in exceeds a certain limit (150 for SAML, 200 for JWT) then an overage claim will be added, the claim sources pointing at the graph endpoint containing the list of groups for the user. (For detailed information, see [Claims in SAML tokens](#) in the Microsoft documentation.) The firewall does not use this link to extract user groups and therefore generates a "DENY: Group did not match" security entry in the VPN logs in this case, as no group policy containing a group filter will match. This can be avoided by creating a group filter, preventing Microsoft from sending a link pointing to the groups. For more information, see [Configure group claims for applications by using Microsoft Entra ID](#).

25. In the **SAML-based Sign-on** blade, click **Download** to download the *Federation Metadata XML*.



Set up Single Sign-On with SAML

Read the [configuration guide](#) for help integrating Campus-Saml.

1 Basic SAML Configuration

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

2 User Attributes & Claims

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

3 SAML Signing Certificate

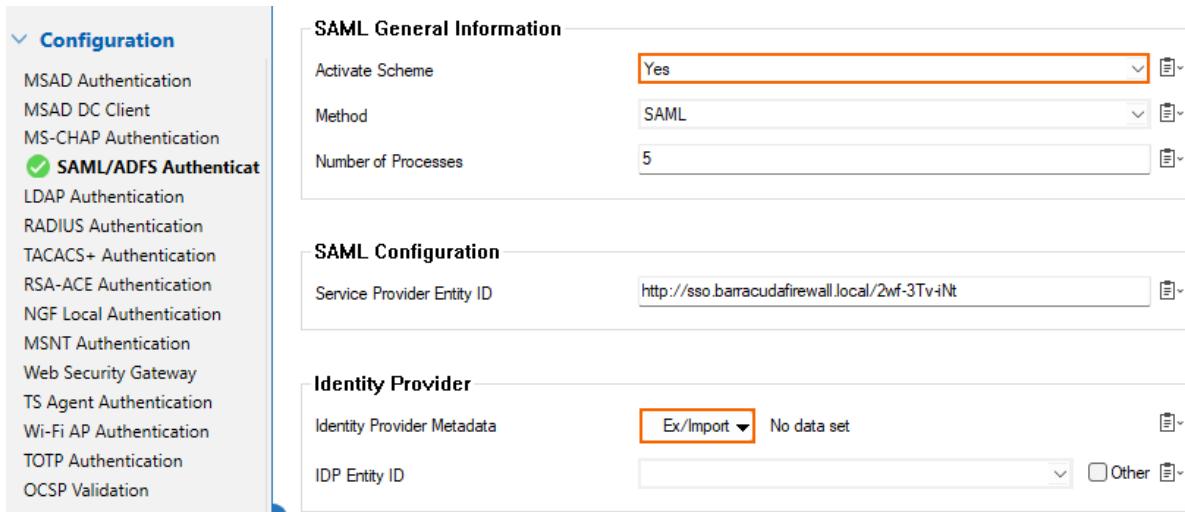
Status	Active
Thumbprint	
Expiration	12/20/2025, 9:50:17 PM
Notification Email	
App Federation Metadata Url	https://login.microsoftonline.com/0...
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

Note that some browsers might block the *.xml file.

26. Save the file to your local machine.

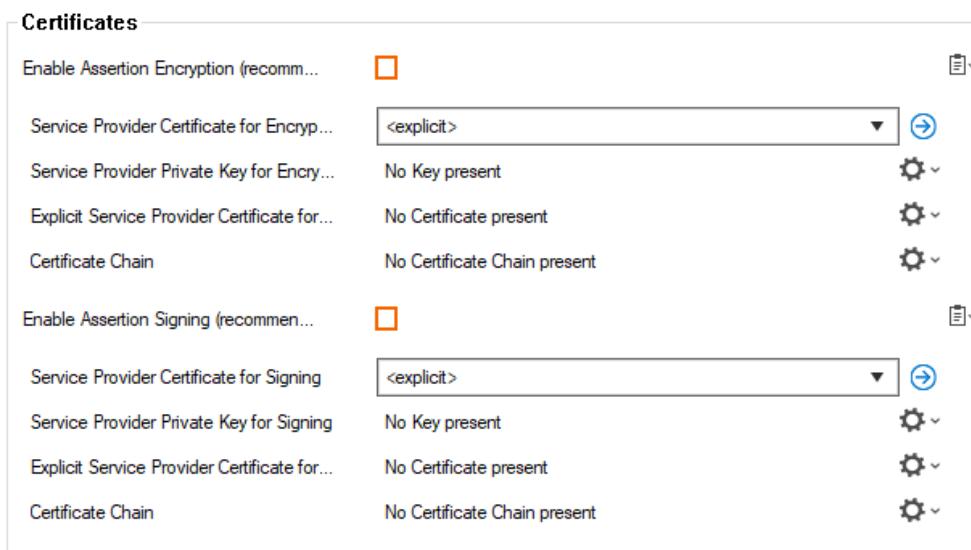
Step 2. Configure the Barracuda CloudGen Firewall to Use SAML Authentication

1. Connect to your Barracuda CloudGen Firewall and log in.
2. Go to **CONFIGURATION > Configuration Tree > Infrastructure Services > Authentication Service**.
3. In the left menu, click **SAML/ADFS Authentication**.
4. Click **Lock**.
5. In the **SAML General Information** section, set **Activate Scheme** to **yes**.
6. In the **Identity Provider** section, click **Ex/Import**. Then, click **Import from File...** and select the file retrieved in Step 1.



The screenshot shows the 'SAML General Information' and 'SAML Configuration' sections. In the 'SAML General Information' section, 'Activate Scheme' is set to 'Yes'. In the 'SAML Configuration' section, the 'Service Provider Entity ID' is set to `http://sso.barracudafirewall.local/2wf-3Tv-iNt`.

7. Click **Send Changes**.
8. In the **Attributes** section, specify the **Assertion Name ID** and select `um:oasis:names:tc:SAML:1.1:nameid-format:emailAddress` from the drop-down menu.
9. Click **Send Changes**.
10. Specify values for the following:
 - **User Attribute** – Select **Name ID (um:oasis:names:tc:SAML:1.1:nameid-format:emailAddress)** from the drop-down menu.
 - **Group Attribute** – Select **Attribute(Groups)** from the drop-down menu.
11. In the **Certificates** section, specify values for the following:
 - **Enable Assertion Encryption** – Clear the check box.
 - **Enable Assertion Signing** – Clear the check box.



The screenshot shows the 'Certificates' section. Under 'Enable Assertion Encryption (recomm...)', the checkbox is cleared. Under 'Service Provider Certificate for Encry...', the dropdown is set to '`<explicit>`'. Under 'Enable Assertion Signing (recomm...)', the checkbox is cleared. Under 'Service Provider Certificate for Signing', the dropdown is set to '`<explicit>`'.

12. In the left menu of the **SAML/ADFS Authentication** window, click **Configuration Mode** and select **Switch to Advanced**.
13. In the **Endpoints** section, specify values for the following if SAML/ADFS is not used for Firewall Authentication. Otherwise, you can skip this step.
 - **Use Hostname from** – Select **Explicit-Hostname** from the drop-down menu.

- **Explicit Hostname** - Enter localhost.

Endpoints	
Use Hostname from	Explicit-Hostname
Explicit Hostname	localhost
Endpoint Handler	/Shibboleth.sso
SAML2 Assertion Consumer Endpoint	/SAML2/POST

14. Click **Send Changes** and **Activate**.
15. On the firewall, go to **CONTROL > Services > Box Services**.
16. Restart the authentication daemon (phibs).

For High Availability (HA) setups, you must restart the service on both units.
17. Go back to **CONFIGURATION > Configuration Tree > Infrastructure Services > Authentication Service**.
18. In the left menu, click **SAML/ADFS Authentication**.
19. Click **Lock**.
20. In the **Service Provider Metadata** section, export the metadata by clicking **Generate Data**.

Service Provider Metadata

The service provider metadata will be available after activation of the SAML/ADFS configuration.

Generate Data

21. Copy the information and save it to your local machine in an .xml file. This file has to be uploaded in Azure at a later stage.

Specify the hostname only if SAML/ADFS is not used for Firewall Authentication.
22. Click **Send Changes** and **Activate**.

Step 3. Finalize the SAML Configuration in Microsoft Azure

1. Log into the Azure portal: <https://portal.azure.com>
2. In the left menu, click **All services** and search for **Microsoft Entra ID**.
3. Click **Microsoft Entra ID**. The **Microsoft Entra ID** blade opens.
4. In the left menu, select **Enterprise applications**.
5. In the **Enterprise applications** blade, click **All applications**.
6. Click on the application you created in Step 1, e.g., *Campus-SAML-Endpoint*.
7. In the left menu, click **Single sign-on**.
8. Select **SAML**. The **Single sign-on** blade opens.
9. Click **Upload metadata file**.

Home > Enterprise applications > Campus-SAML-Endpoint >

Campus-SAML-Endpoint | SAML-based Sign-on

Enterprise Application

- [Overview](#)
- [Deployment Plan](#)
- Manage**
 - [Properties](#)
 - [Owners](#)
 - [Roles and administrators \(Preview\)](#)

« [Upload metadata file](#) ↻ Change single sign-on mode ⚙ Test this application | ...

1 Basic SAML Configuration

Identifier (Entity ID)	Required
Reply URL (Assertion Consumer Service URL)	Required
Sign on URL	Optional
Relay State	Optional
Logout Url	Optional

[Edit](#)

10. Select the file downloaded in Step 2 and click **Add**.

Home > Enterprise applications > Campus-SAML-Endpoint >

Campus-SAML-Endpoint | SAML-based Sign-on

Enterprise Application

- [Overview](#)
- [Deployment Plan](#)
- Manage**
 - [Properties](#)
 - [Owners](#)
 - [Roles and administrators \(Preview\)](#)
 - [Users and groups](#)
 - [Single sign-on](#)

« [Upload metadata file](#) ↻ Change single sign-on mode ⚙ Test this application | ...

2 Upload metadata file.

Values for the fields below are provided by Campus-SAML-Endpoint. You may either enter those values manually, or upload a pre-configured SAML metadata file if provided by Campus-SAML-Endpoint.

"serviceProviderMetadata.xml"

Add [Cancel](#)

User Attributes & Claims

givenname	user.givenname
-----------	----------------

[Edit](#)

11. Click **Save**.

Basic SAML Configuration

Identifier (Entity ID)* ⓘ
The default identifier will be the audience of the SAML response for IDP-initiated SSO

Default
http://sso.barracudafirewall.local/vvi-BE6-1UE

Reply URL (Assertion Consumer Service URL)* ⓘ
The default reply URL will be the destination in the SAML response for IDP-initiated SSO

Default
https://localhost/Shibboleth.sso/SAML2/POST

Sign on URL ⓘ
Enter a sign on URL

Relay State ⓘ
Enter a relay state

Logout Url ⓘ
Enter a logout url

12. Close the **Basic SAML Configuration** blade.
You are now back in the **Single sign-on** blade.
13. Click **Download** to download the *Federation Metadata XML file* and save it to your local machine.

Home > Default Directory > Enterprise applications > Campus-Saml >

Campus-Saml | SAML-based Sign-on

Enterprise Application

Overview Deployment Plan

Manage

- Properties
- Owners
- Roles and administrators (Preview)
- Users and groups
- Single sign-on**
- Provisioning
- Application proxy
- Self-service

Security

- Conditional Access
- Permissions
- Token encryption

Activity

- Sign-in logs
- Usage & insights
- Audit logs
- Provisioning logs
- Access reviews

Set up Single Sign-On with SAML

Read the [configuration guide](#) for help integrating Campus-Saml.

1 Basic SAML Configuration

Identifier (Entity ID)	http://sso.barracudafirewall.local/vvi-BE6-1UE	Required
Reply URL (Assertion Consumer Service URL)		Optional
Sign on URL		Optional
Relay State		Optional
Logout Url		Optional

2 User Attributes & Claims

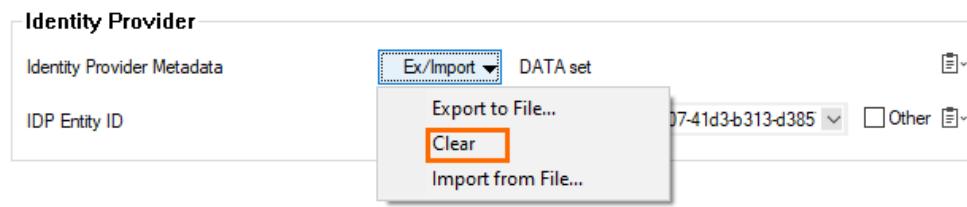
givenname	user.givenname
surname	user.surname
emailaddress	user.mail
name	user.userprincipalname
Unique User Identifier	user.userprincipalname
Group	user.groups

3 SAML Signing Certificate

Status	Active
Thumbprint	
Expiration	12/20/2025, 9:50:17 PM
Notification Email	
App Federation Metadata Url	https://login.microsoftonline.com/
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

Step 4. Finalize the Barracuda CloudGen Firewall SAML Configuration

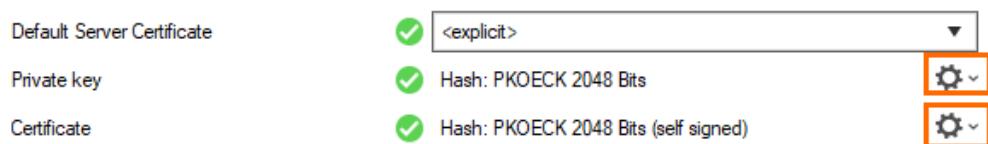
1. Connect to your Barracuda CloudGen Firewall and log in.
2. Go to **CONFIGURATION > Configuration Tree > Infrastructure Services > Authentication Service**.
3. In the left menu, click **SAML/ADFS Authentication**.
4. Click **Lock**.
5. In the **Identity Provider** section, click **Ex/Import**.
6. From the drop-down menu, select **Clear**.



7. In the **Identity Provider** section, click **Ex/Import**.
 8. From the drop-down menu, select **Import from File**.
 9. Select the file downloaded in Step 3 and import it.
 10. Click **Send Changes** and **Activate**.
 11. Restart the authentication daemon (phibs) in **CONTROL > Services > Box Services**.
- For High Availability (HA) setups, you must restart the service on both units.

Step 5. VPN Configuration of the Barracuda CloudGen Firewall

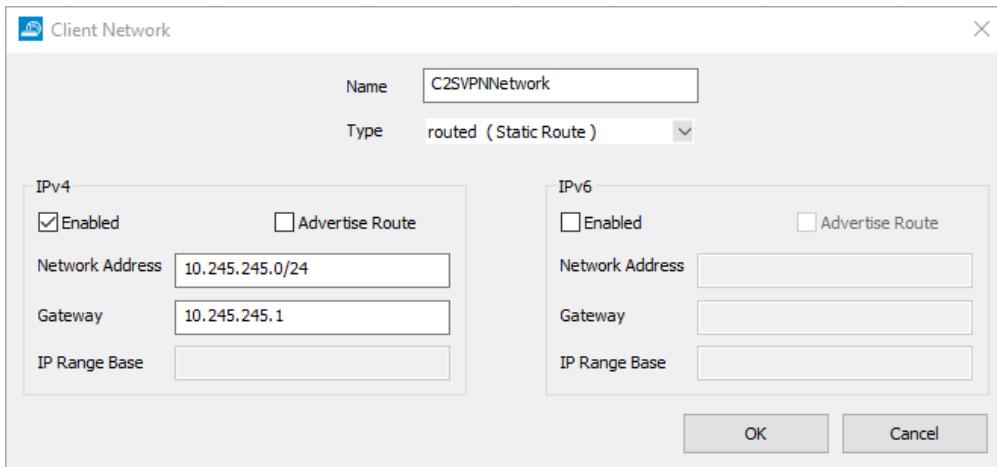
1. Connect to your Barracuda CloudGen firewall and log in.
2. Go to **CONFIGURATION > Configuration Tree > Assigned Services > VPN (VPN-Service) > VPN Settings**.
3. In the left menu, click **General**.
4. Click **Lock**.
5. In the **Service** section, specify values for the following:
 - **Private key** – Click to generate a new private key. Select a key length and click **OK**.
 - **Certificate** – Click to generate a new certificate. Enter a name and click **OK**.



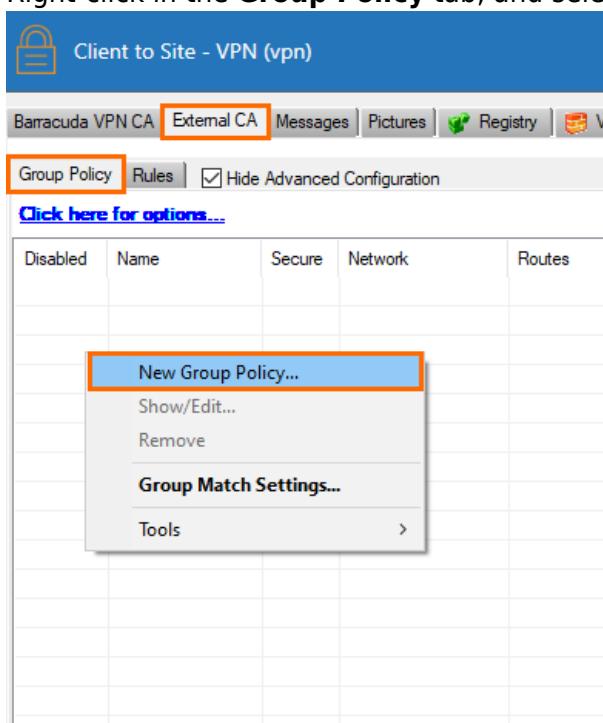
6. Click **Send Changes** and **Activate**.
7. In the left menu, click **Client Networks**.
8. Click **Lock**.
9. In the right menu, right-click in the table and select **New Client Network** from the drop-down menu.

A screenshot of the Barracuda CloudGen Firewall's configuration interface. The 'Client Networks' table is displayed. A context menu is open over the table, with the 'New Client Network...' option highlighted. The left sidebar shows the 'Client Networks' section selected.

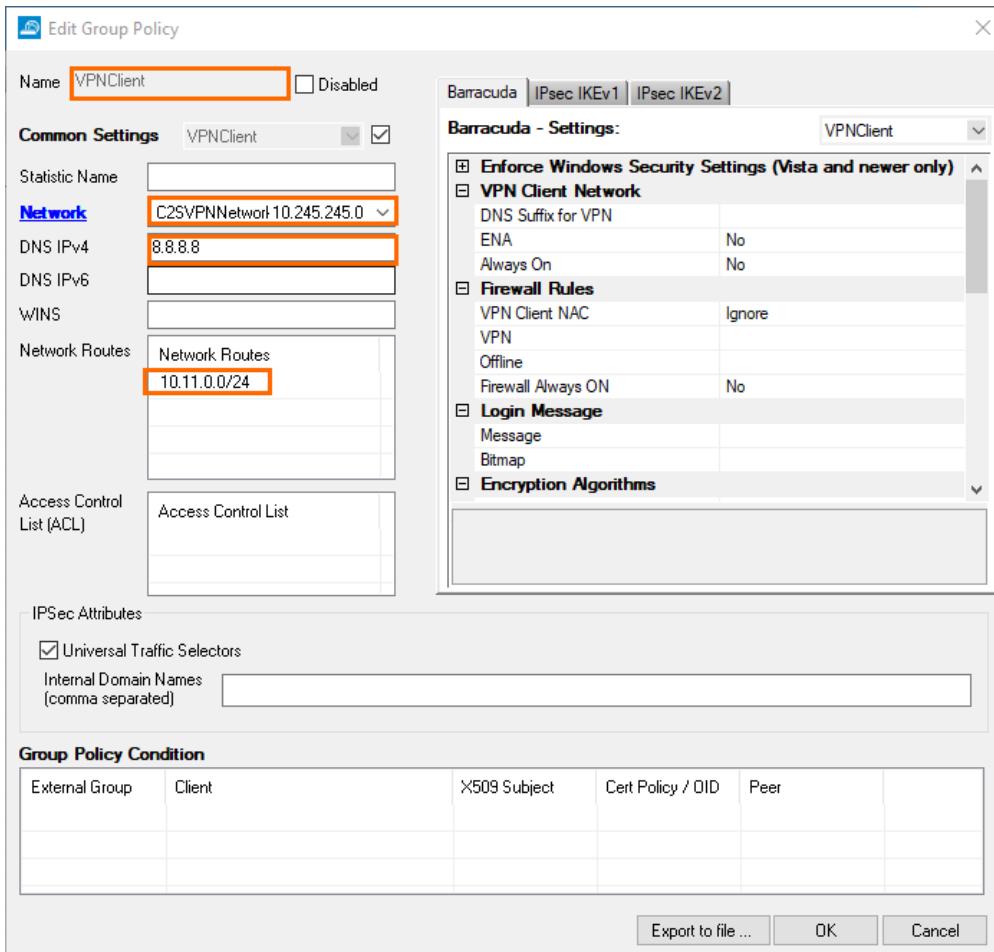
10. The **Client Network** window opens. Specify values for the following:
 - **Name** – Enter a name.
 - **Network Address** – Enter the network address.
 - **Gateway** – Enter the gateway.



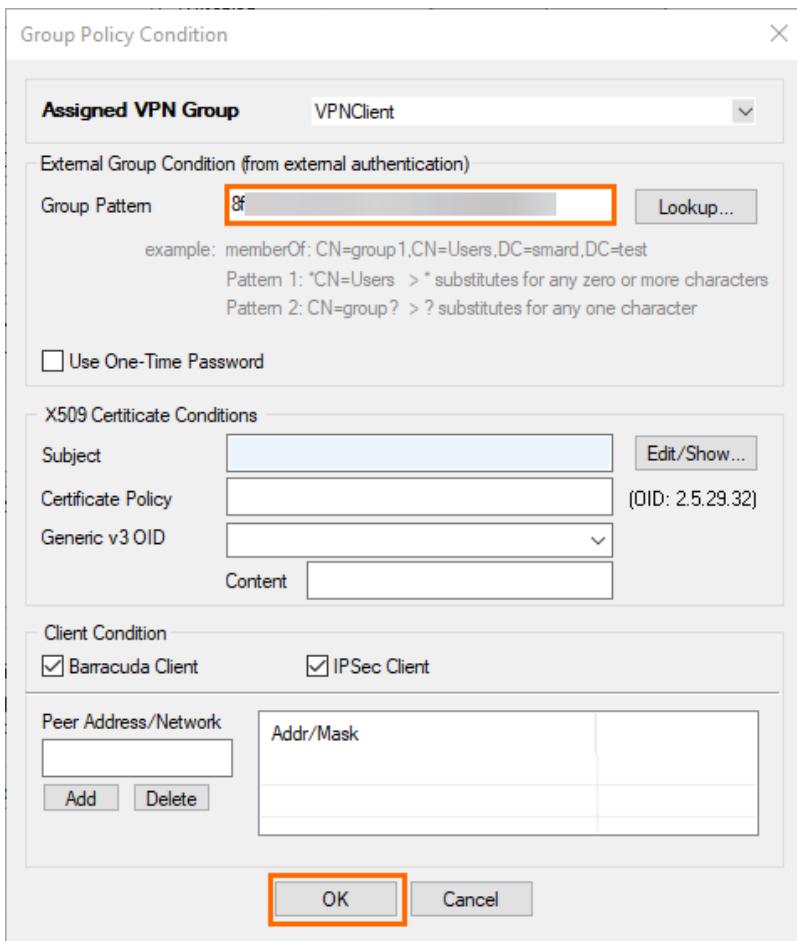
11. Click **OK**.
12. Click **Send Changes and Activate**.
13. Go to **CONFIGURATION > Configuration Tree > Assigned Services > VPN (VPN-Service) > Client to Site**.
14. Click **Lock**.
15. Open the **External CA** tab.
16. Select **Click here for options**.
17. Select the check-box to **Enable SAML support**.
18. Click **OK**.
19. Right-click in the **Group Policy** tab, and select **New Group Policy** from the drop-down menu.



20. The **Edit Group Policy** window opens. Specify values for the following:
 - **Name** – Enter a name.
 - **Network** – Select the client network created before.
 - **DNS IPv4** – Enter a DNS server.
 - **Network Routes** – Enter one or more routes if applicable.



21. Stay in the **Edit Group Policy** window. In the **Group Policy Condition** section, double-click to add a new entry.
22. The **Group Policy Condition** window opens. Specify values for the following:
 - o **Group Pattern** – Enter the object ID of your Microsoft Entra ID group that will be enabled to use client-to-site VPN.



23. Click **OK**.
24. Click **OK**.
25. Click **Send Changes** and **Activate**.

Step 6. Configuration of the VPN Client

- In the VPN configuration, you must select **SAML** as **Authentication Method**.
- Transport mode for the VPN tunnel must be either **TCP** or **Optimized** to guarantee 100% functionality.

- For the configuration of the Windows client, see [How to Configure the Barracuda VPN Client for Windows](#).
- For the configuration of the macOS client, see [How to Configure the Barracuda VPN Client for macOS](#).
- For more information on establishing VPN connections, see [How to Establish a VPN Connection Using Barracuda VPN Client for Windows](#) or [How to Establish a VPN Connection Using Barracuda VPN Client for macOS](#).

Further Information

- For more information on client-to-site configuration, see [Client-to-Site VPN](#).
- For more information on the VPN client, see [Overview - VPN Client & Network Access Client 5.x](#).

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