

# فیرعت تافللمل SAML ةقداصم نیوكت FTD یلع ةددعتم WAPN لاصتا

## تایوتحمل

[ةمدقملا](#)

[ةیساسألالتابلطتملا](#)

[تابلطتملا](#)

[ةمدختسملا تانوكملا](#)

[ةیساسأ تامولعم](#)

[تانیوكتلا](#)

[نیوكتلا یلع ةماع ةرظن](#)

[نیوكتلا](#)

[Azure IDp یلع نیوكتلا](#)

[FMC ربعت FTD یلع نیوكتلا](#)

[ةحصللا نم ققحتلا](#)

[FTD رماو اطرس یلع نیوكتلا](#)

[Azure ةقاطب فرعم فرعم فرعم فرعم نم لوخللا لیجست لچس](#)

[اهجالص او عاطخال فاشركتسا](#)

## ةمدقملا

ةددعتم لیصوت فیرعت تافللمل Azure ةیوه رفوم عم SAML ةقداصم دنتسملا اذه فصی  
FMC ةطساوب ةرادملا Cisco FTD یلع

## ةیساسألالتابلطتملا

### تابلطتملا

ةیلالتل تاعوضوملا ةفرعمب Cisco یصوت:

- زكرم ةطساوب رادملا (NGFW) یلالتل لیجل نم ةیامحل رادج یلع نمأل لیعمل نیوكت  
Firepower (FMC) ةراد
- SAML و metadata.xml میق

### ةمدختسملا تانوكملا

ةیلالتل ةیدامل تانوكملا و اوجماربلا تارادصا یل دنتسملا اذه یف ةدراولا تامولعملا دنتست:

- 7.4.0 رادصإل، Firepower (FTD) دیدهت دض عافدل
- 7.4.0 رادصإل، FMC
- SAML 2.0 عم Azure Microsoft Entra ID
- Cisco Secure Client 5.1.7.80





# FTD-SAML-1 | SAML-based Sign-on

Enterprise Application

Upload metadata file | Change single sign-on mode | Test this application

## Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experience. Choose SAML single sign-on whenever possible for existing applications that do not support OpenID Connect.

Read the [configuration guide](#) for help integrating FTD-SAML-1.

- ### 1 Basic SAML Configuration

Identifier (Entity ID)	https://[redacted].cisco.com/saml/sp
Reply URL (Assertion Consumer Service URL)	https://[redacted].cisco.com/+CSCOE+/me=FTD-SAML-1
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

<b>Token signing certificate</b>	
Status	Active
Thumbprint	3125987754C687CCBE86DD214BD...
Expiration	25/11/2027, 18:23:11
Notification Email	[redacted]

## 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.

https://[redacted].cisco.com/saml/sp/metadata/FTD-SAML-1	Default
--	---------

Add identifier

Patterns: https://\*.YourCiscoServer.com/saml/sp/metadata/TGTGroup

### 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.

https://[redacted].cisco.com/+CSCOE+/saml/sp/acs?tname=FTD-SAML-1	Index	Default
---	-------	---------

Add reply URL

Patterns: https://YOUR\_CISCO\_ANYCONNECT\_FQDN/+CSCOE+/SAML/SP/ACS

### Sign on URL (Optional)

Sign on URL is used if you would like to perform service provider-initiated single sign-on. This value is the sign-in page URL for your application. This field is unnecessary if you want to perform identity provider-initiated single sign-on.

### Relay State (Optional)

The Relay State instructs the application where to redirect users after authentication is completed, and the value is typically a URL or URL path that takes users to a specific location within the application.

# FTD-SAML-1 | SAML-based Sign-on

Enterprise Application

Upload metadata file | Change single sign-on mode | Test this application

- ### 3 SAML Certificates

<b>Token signing certificate</b>	
Status	Active
Thumbprint	3125987754C687CCBE86DD214BD...
Expiration	25/11/2027, 18:23:11
Notification Email	[redacted]
App Federation Metadata Url	https://login.microsoftonline.com
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

**Verification certificates (optional)**

Required	No
Active	0
Expired	0
- ### 4 Set up FTD-SAML-1

You'll need to configure the application to link with Microsoft Entra ID.

Login URL	https://login.microsoftonline.com
Microsoft Entra Identifier	https://sts.windows.net/477a586b
Logout URL	https://login.microsoftonline.com
- ### 5 Test single sign-on with FTD-SAML-1

## SAML Signing Certificate

Manage the certificate used by Microsoft Entra ID to sign SAML tokens issued to your app

Save | + New Certificate | Import Certificate | Got feedback?

Status	Expiration Date	Thumbprint
Active	25/11/2027, 18:23:11	3125987754C687CCBE86DD214BDA5E50A13C211B

Signing Option: Sign SAML assertion

Signing Algorithm: SHA-256

### Notification Email Addresses

4

### Set up FTD-SAML-1

You'll need to configure the application to link with Microsoft Entra ID.

Login URL	<a href="https://login.microsoftonline.com/477a586b-61c2...">https://login.microsoftonline.com/477a586b-61c2...</a>
Microsoft Entra Identifier	<a href="https://sts.windows.net/477a586b-61c2-4c8e-9a4...">https://sts.windows.net/477a586b-61c2-4c8e-9a4...</a>
Logout URL	<a href="https://login.microsoftonline.com/477a586b-61c2...">https://login.microsoftonline.com/477a586b-61c2...</a>

5

## FTD-SAML-2

Home > cisco | Devices > Enterprise applications | All applications > FTD-SAML-2

### FTD-SAML-2 | SAML-based Sign-on

Enterprise Application

» Upload metadata file Change single sign-on mode Test this application

#### Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experience. Choose SAML single sign-on whenever possible for existing applications that do not support OpenID Connect.

Read the [configuration guide](#) for help integrating FTD-SAML-2.

1

#### Basic SAML Configuration

Identifier (Entity ID)	<a href="https://[redacted].cisco.com/saml/sp/...-2">https://[redacted].cisco.com/saml/sp/...-2</a>
Reply URL (Assertion Consumer Service URL)	<a href="https://[redacted].cisco.com/+CSCOE+me=FTD-SAML-2">https://[redacted].cisco.com/+CSCOE+me=FTD-SAML-2</a>
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	
Status	Active
Thumbprint	F1CF8A1B07E704EE793A7132AF04...
Expiration	27/11/2027, 02:33:11

### 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.

[https://\[redacted\].cisco.com/saml/sp/metadata/FTD-SAML-2](https://[redacted].cisco.com/saml/sp/metadata/FTD-SAML-2)

Add identifier

Patterns: [https://\\*.YourCiscoServer.com/saml/sp/metadata/TGTGroup](https://*.YourCiscoServer.com/saml/sp/metadata/TGTGroup)

#### 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.

[https://\[redacted\].cisco.com/+CSCOE+/saml/sp/acs?tgname=FTD-SAML-2](https://[redacted].cisco.com/+CSCOE+/saml/sp/acs?tgname=FTD-SAML-2)

Add reply URL

Patterns: [https://YOUR\\_CISCO\\_ANYCONNECT\\_FQDN/+CSCOE+/SAML/SP/ACS](https://YOUR_CISCO_ANYCONNECT_FQDN/+CSCOE+/SAML/SP/ACS)

#### Sign on URL (Optional)

Sign on URL is used if you would like to perform service provider-initiated single sign-on. This value is the sign-in page URL for your application. This field is unnecessary if you want to perform identity provider-initiated single sign-on.

Enter a sign on URL

#### Relay State (Optional)

The Relay State instructs the application where to redirect users after authentication is completed, and the value is typically a URL or URL path that takes users to a specific location within the application.

Enter a relay state

Home > cisco | Devices > Enterprise applications | All applications > FTD-SAML-2

## FTD-SAML-2 | SAML-based Sign-on

Enterprise Application

Upload metadata file | Change single sign-on mode | Test this application

Unique User Identifier: user:userprincipalname

### SAML Certificates

Token signing certificate

Status	Active
Thumbprint	F1CF8A1B07E704EE793A7132AF04...
Expiration	27/11/2027, 02:33:11
Notification Email	
App Federation Metadata Url	https://login.microsoftonline.com/...
Certificate (Base64)	Download
Certificate (Raw)	Download
Federation Metadata XML	Download

Verification certificates (optional)

Required	No
Active	0
Expired	0

### Set up FTD-SAML-2

You'll need to configure the application to link with Microsoft Entra ID.

Login URL	https://login.microsoftonline.com/...
Microsoft Entra Identifier	https://sts.windows.net/477a586b...
Logout URL	https://login.microsoftonline.com/...

## SAML Signing Certificate

Manage the certificate used by Microsoft Entra ID to sign SAML tokens issued to your app

Save | New Certificate | Import Certificate | Got feedback?

Status	Expiration Date	Thumbprint
Active	27/11/2027, 02:33:11	F1CF8A1B07E704EE793A7132AF044629C31FD9A7

Signing Option: Sign SAML assertion

Signing Algorithm: SHA-256

Notification Email Addresses

### 4 Set up FTD-SAML-2

You'll need to configure the application to link with Microsoft Entra ID.

Login URL	https://login.microsoftonline.com/477a586b-61c2...
Microsoft Entra Identifier	https://sts.windows.net/477a586b-61c2-4c8e-9a4...
Logout URL	https://login.microsoftonline.com/477a586b-61c2...

مع SAML ةقداصم نيوكتل ةمزالل تافللملاو تامولعمل كيدل نأ نم دكأتلا ىجري نألا ك: صاخلا ةيوهلا رفومك Microsoft Entra

Microsoft Entra فرعم عقوم دح:

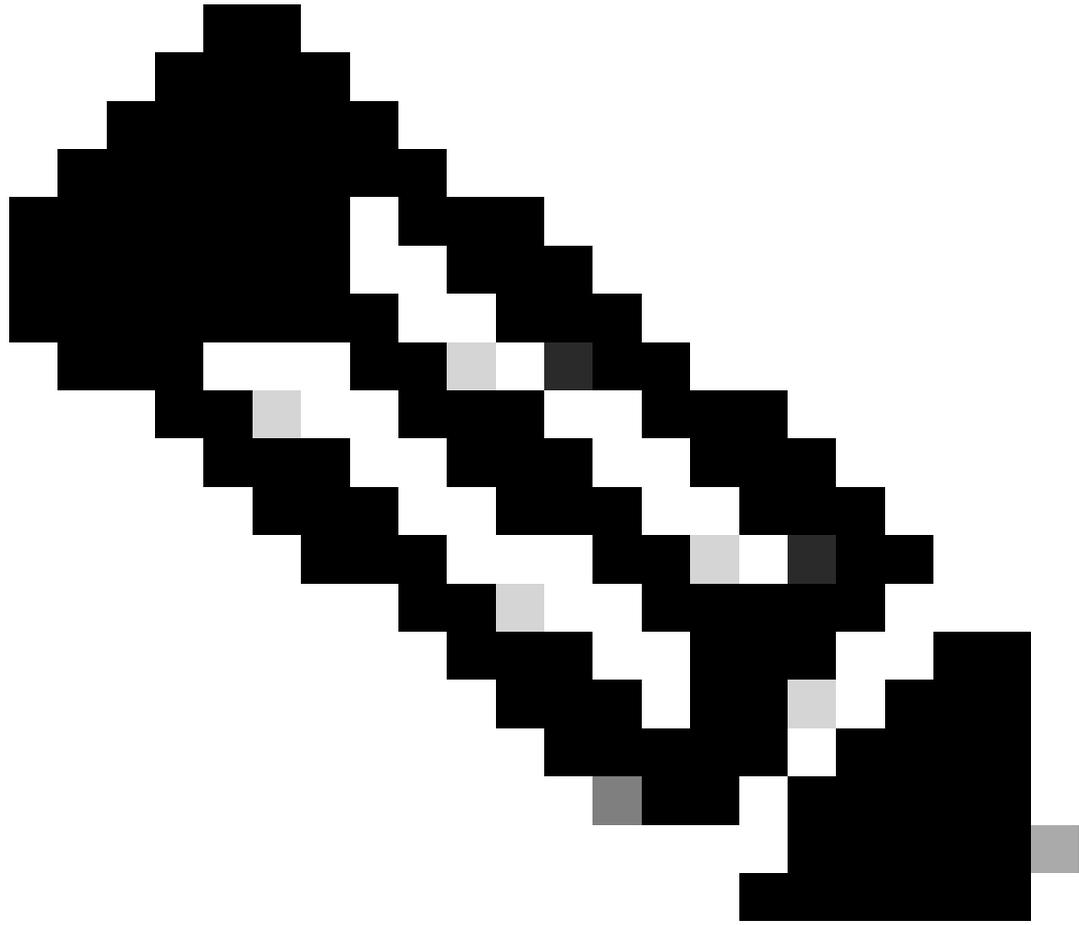
Microsoft Entra لخدم لخد SAML Enterprise تاقيبطت نم لك تادادعإ ىلإ لوصولاب مق

نيوكتل مهم وهو نيقيبطتلا الك ربع اقستم لطي يذلا، Microsoft Entra فرعم طحال SAML.

Base64 IDp تاداهش ليزنت:

SAML Enterprise تاقيبطت نم نوكم قيبطت لك ىلإ لقتنا

تاداهشلا هذه Base64 ةطساوب اهزيمرت مت يتي ةصاخلا IdP تاداهش ليزنت مق ك: صاخلا Cisco VPN دادعإو ك صاخلا ةيوهلا رفوم ني ب ةقثلا ءاشنإل ةيرورص



اضيأ نكمي FTD لاصتا فيرعت تافلمل ةبولطملا هذه SAML تانيوكت لك :ةظحالما  
تاقببطلل لكب ةصاخلا IdP اهرفوت يتلا xml. فيرعتلا تافلما نم اهيلع لوصحلا  
ةينعمل.

---



# FMC ربع رادمللا FTD دلج SAML ةقداصم

Filter Add  
All Certificates

Name	Domain	Enrollment Type	Identity Certificate Expiry	CA Certificate Expiry	Status	
> [redacted] 1						🔒
> [redacted]						🔒
▼ 10.106.65.25						🔒
[redacted] 2	Global	Manual (CA & ID)		Dec 12, 2029		⬇️ 🔄 🗑️
FTD-SAML-1-ldp-cert	Global	Manual (CA Only)		Nov 25, 2027		⬇️ 🔄 🗑️
FTD-SAML-2-ldp-cert	Global	Manual (CA Only)		Nov 27, 2027		⬇️ 🔄 🗑️

### CA Certificate

- Status: Available
- Serial Number: 20894f0831ede99490c7c64dda7bee8
- Issued By:
  - CN: Microsoft Azure Federated SSO Certificate
- Issued To:
  - CN: Microsoft Azure Federated SSO Certificate
- Public Key Type: RSA (2048 bits)
- Signature Algorithm: RSA-SHA256
- Associated Trustpoints: **FTD-SAML-1-ldp-cert**
- Valid From: 12:53:11 UTC November 25 2024
- Valid To: 12:53:11 UTC November 25 2027

Close

### CA Certificate

- Status: Available
- Serial Number: 2758279b3b5cc98044c603999068ee61
- Issued By:
  - CN: Microsoft Azure Federated SSO Certificate
- Issued To:
  - CN: Microsoft Azure Federated SSO Certificate
- Public Key Type: RSA (2048 bits)
- Signature Algorithm: RSA-SHA256
- Associated Trustpoints: **FTD-SAML-2-ldp-cert**
- Valid From: 21:03:11 UTC November 26 2024
- Valid To: 21:03:11 UTC November 26 2027

Close

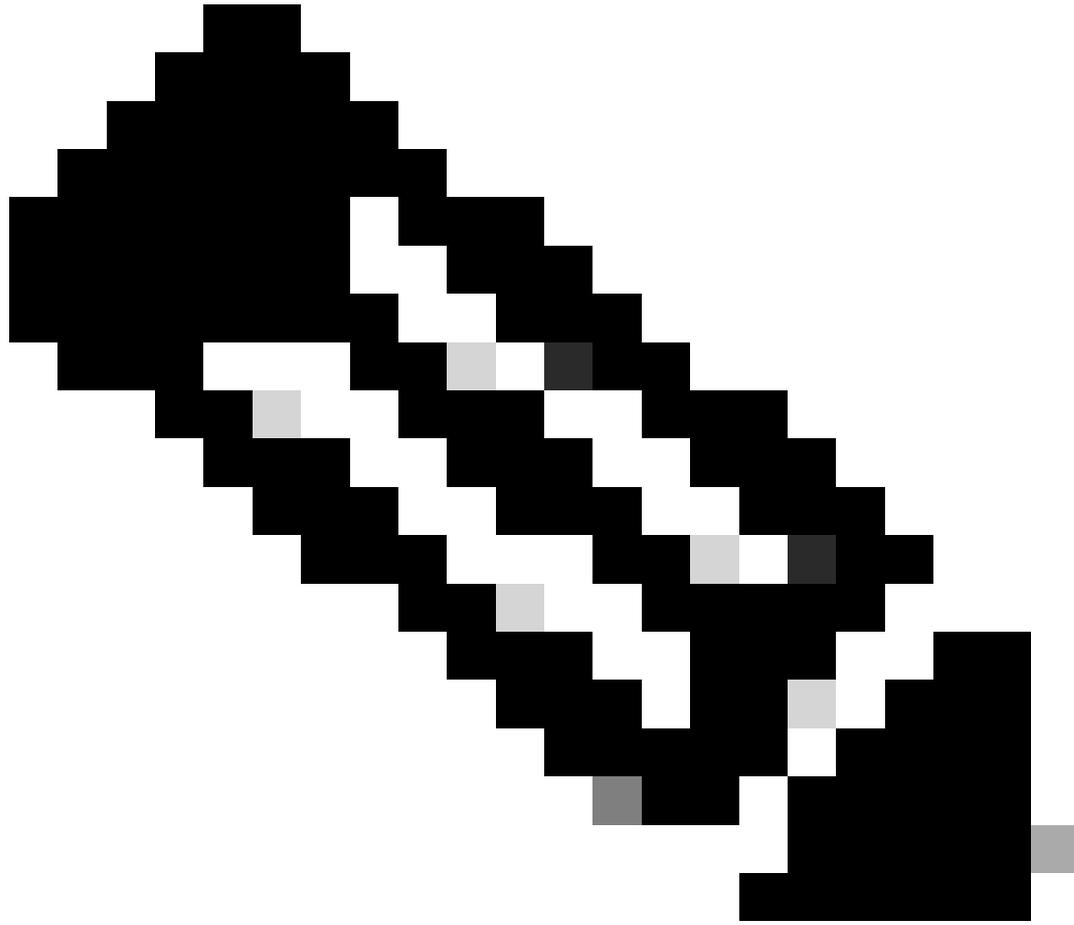


- SingleSignOnService: هجوم لابل صاخلا هجوم لابل صاخلا URL ناونع metadata.xml.
- SingleLogoutService: جورخلا ليجستل URL ناونع metadata.xml.
- فTD ل SSL فرعم ةداهش ل FQDN: يساسألا URL ناونع.
- IDP عيقوت ةداهش: ةيوهلا رفوم ةداهش.
  - ةلجسمل IDP تاداهش يدج ا قافراب مق، ةيوهلا دوزم ةداهش مسق تحت
  - FTD-SAML-1 قيبطت نم IDP ةداهش مدختسن، هذه مادختسال ةلاح يف
- FTD عيقوت ةداهش: ةمدخل رفوم ةداهش.

The screenshot shows the Cisco Firewall Management Center (FMC) interface. The main window displays the configuration for a Single Sign-on Server. The 'Edit Single Sign-on Server' dialog box is open, showing the following fields:

- Name: FTD-SAML-Object
- Identity Provider Entity ID\*: https://sts.windows.net/477a586b
- SSO URL\*: https://login.microsoftonline.com/
- Logout URL: https://login.microsoftonline.com/
- Base URL: https://[redacted].cisco.com
- Identity Provider Certificate\*: FTD-SAML-1-idp-cert
- Service Provider Certificate: [redacted]2
- Request Signature: --No Signature--
- Request Timeout: Use the timeout set by the provide

The 'Base URL' and 'Identity Provider Certificate' fields are highlighted with green boxes. The 'Add Single Sign-on Server' button is also highlighted in green. The interface includes a navigation menu on the left, a top navigation bar with tabs like Overview, Analysis, Policies, Devices, Objects, and Integration, and a bottom status bar showing 'Displaying 1 - 2 of 2 rows'.



نئاك نم ةيوهلا رفوم ةداهش لادبتسا طقف نكمي، لالحال نيوكتللا في: ةظحال م  
لثم تازيمل نيكمت نكمي ال، ظحال ءوسل. لاصتالا فيرعت فلم تاداعإ نمض SAML  
نكمي يذلا P فرعم نيكمت "و" لوخدلا ليحست دنع P فرعم ةقداصم ةداعإ بلط"  
فلم لكل اهليطعت وأ يدرف لكشب "ةلخادلا ةكبشلا يلع طقف هيلإ لوصول  
لاصتا فيرعت.

FMC ربيع Cisco FTD يلع لاصتالا فيرعت تافلم نيوكت  
ةبسانملا تاملعل ملباب ليصوتلا تافيصوت نيوكت كمزلي، SAML ةقداصم دادعإ ءاهنإل  
اقبسم هنيوكت مت يذلا SAML مداخل م ادختسا اب SAML يلع AAA ةقداصم نييعت و  
FTD في نيوكتللا" نمض ةسمخال ةوطخال يلع عجرا، اليصفت رثكأ تاداشرا يلع لوصول  
رادملا FTD يلع SAML ةقداصم م ادختسا اب [Secure Client نيوكت](#): Cisco قئاثو في "FMC ربيع  
[FMC ربيع](#).

Firewall Management Center  
Devices / VPN / Edit Connection Profile

Overview Analysis Policies **Devices** Objects Integration Deploy 🔍 🚫 ⚙️ ? admin | cisco SECURE

10.106.65.25\_VPN Save Cancel

Enter Description Policy Assignments (1)

Local Realm: None Dynamic Access Policy: None

Connection Profile Access Interfaces Advanced

Name	AAA	Group Policy	
DefaultWEBVPNGroup	Authentication: None Authorization: None Accounting: None	DfltGrpPolicy	🗑️
EME_CERT_LOCAL_VPN	Authentication: Kavin (RADIUS) Authorization: Kavin (RADIUS) Accounting: Kavin (RADIUS)	LocalLAN	🗑️
FTD-SAML-1	Authentication: FTD-SAML-Object (SSO) Authorization: None Accounting: None	FTD-SAML-1-gp	🗑️
FTD-SAML-2	Authentication: FTD-SAML-Object (SSO) Authorization: None Accounting: None	FTD-SAML-2-gp	🗑️

لأولاً لاصت الال فيرعت فلمل AAA نيوكت جارخت سا

لأولاً لاصت الال فيصوتل AAA نيوكت تادادعإ لىع ةرظن يلى امي في:

Firewall Management Center  
Devices / VPN / Edit Connection Profile

Overview Analysis Policies **Devices** Objects Integration Deploy 🔍 🚫 ⚙️ ? admin | cisco SECURE

10.106.65.25\_VPN Save Cancel

Enter Description Policy Assignments (1)

Local Realm: None Dynamic Access Policy: None

Connection Profile Access Interfaces

**Edit Connection Profile**

Connection Profile:\*

Group Policy:\*  +

Edit Group Policy

Client Address Assignment **AAA** Aliases

**Authentication**

Authentication Method:

Authentication Server:

Override Identity Provider Certificate ⓘ

SAML Login Experience:  VPN client embedded browser ⓘ  Default OS Browser ⓘ

**Authorization**

Authorization Server:

Allow connection only if user exists in authorization database

**Accounting**

Accounting Server:

▶ Advanced Settings

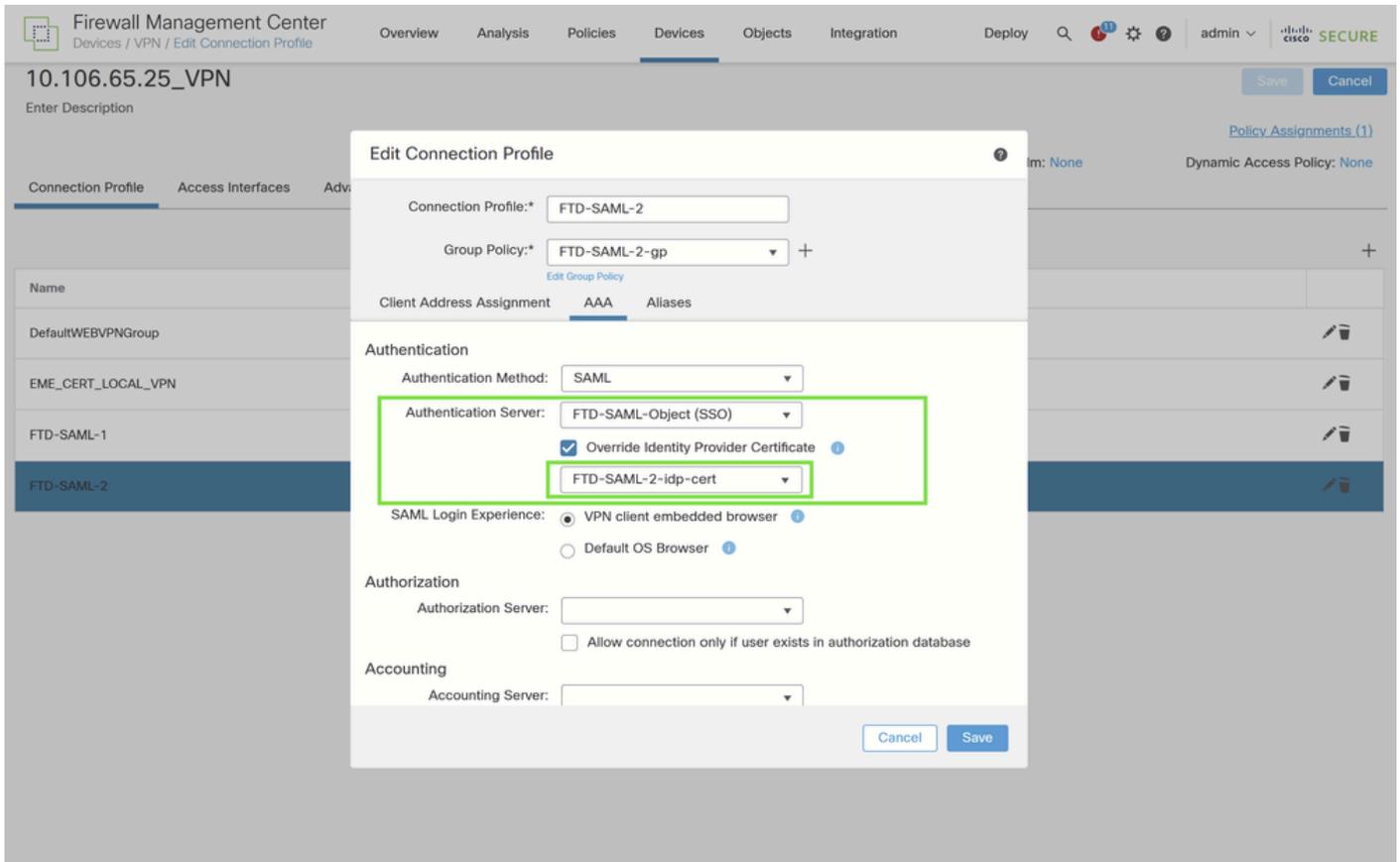
Cancel Save

Cisco FTD في ينيثال لاصت الال فيرعت فلمل IDp ةداهش زواجت نيوكت

مق، ينيثال لاصت الال فيرعت فلمل ةححص الال (IdP) ةيوهل رفوم ةداهش مادخت سا نم دكأت لل ةيالاتل تاوطخلال لامكإب IDp ةداهش زواجت نيوكت ب:

مقو "ةيوهل دوزم ةداهش يطخت" راخي ناكم دح ،ليصوتل فيصوت تاداعإ نمض  
مداخل انهنيوكت مت يتل كلت نع ةفلتخم IdP ةداهش مادختساب حامسلل هنيكمتب  
SAML.

FTD-SAML-2 قي بطل اصي صخ ةلجسمل ةداهشلا دح ،ةلجسمل IdP تاداهش ةمئاق نم  
في رعت فللم ةقداصم بلط ءارج دنح ةحيصل IdP ةداهش مادختساب دي دحتلا اذه نمضي  
اذه لاصلتالا.



نيوكتل رشن

SAML ةقداصم VPN تاريغت قي بطل بسانملا FTD دي دحت ىلإ Deployment > Deploy لقتنا

## ةحصل نم ققحتلا

FTD رم اوأ رطس ىلع نيوكتلا

<#root>

```
firepower# sh run webvpn
webvpn
  enable outside
  http-headers
    hsts-server
      enable
      max-age 31536000
      include-sub-domains
      no preload
```

```
hsts-client
  enable
x-content-type-options
x-xss-protection
content-security-policy
Secure Client image disk0:/csm/Secure Client-win-4.10.08025-webdeploy.pkg 1 regex "Windows"
Secure Client enable
```

```
saml idp https://sts.windows.net/477a586b-61c2-4c8e-9a41-1634016aa513/
```

```
url sign-in https://login.microsoftonline.com/477a586b-61c2-4c8e-9a41-1634016aa513/saml2
```

```
url sign-out https://login.microsoftonline.com/477a586b-61c2-4c8e-9a41-1634016aa513/saml2
```

```
base-url https://nigarapa2.cisco.com
```

```
trustpoint idp FTD-SAML-1-idp-cert
```

```
trustpoint sp nigarapa2
```

```
no signature
```

```
force re-authentication
```

```
tunnel-group-list enable
cache
  disable
error-recovery disable
firepower#
```

```
<#root>
```

```
firepower# sh run tunnel-group FTD-SAML-1
tunnel-group FTD-SAML-1 type remote-access
tunnel-group FTD-SAML-1 general-attributes
  address-pool secure-client-pool
  default-group-policy FTD-SAML-1-gp
tunnel-group FTD-SAML-1 webvpn-attributes
  authentication saml
  group-alias FTD-SAML-1 enable
```

```
saml identity-provider https://sts.windows.net/477a586b-61c2-4c8e-9a41-1634016aa513/
```

```
firepower#
```



2. اذہءاطخألا حئحصت مدختسأ، اءءالصإو SAML ةقءاصم ءاطخأ فاشكئتسال.

```
<#root>
```

```
firepower#
```

```
debug webvpn saml 255
```

3. ققءءلل رمالا اذہءمادختسإ نكمئ؛ ءءاعأ ءضوم وه امك "نمآلا لئمءلا" نئوكئت نم ققءء نم ءءاهشلل نم.

```
<#root>
```

```
firepower#
```

```
show crypto ca certificate
```

ةمچرتل هذه لوج

ةللأل تاي نقتل نمة ومة مادختساب دن تسمل اذة Cisco تمةرت  
ملاعلاء انء مء مء نمة دختسمل معد و تمة مء دقتل ةر شبل او  
امك ةق قء نوك ت نل ةللأل ةمچرت لصف أن ةظحال مء ءرء. ةصاأل مء تءل ب  
Cisco ةلخت. فرتمة مچرت مء مء دقء ةل ةل ةفارتحال ةمچرتل عم لاعل او  
ىل إأمءءاد ءوچرلاب ةصوء و تامةرتل هذه ةقء نء اهءل وئس م Cisco  
Systems (رفوتم طبارل) ةلصلأل ةزءل ءن إل دن تسمل