

# نېم دځت س م ل ل RADIUS ة م س نېي ع ت نېو ك ت ل نېي دي ع ب ل ل FlexVPN

## تاي و ت ح م ل ا

[ة م د ق م ل ا](#)

[ة ي س ا س ا ل ا ت ا ب ل ط ت م ل ا](#)

[ت ا ب ل ط ت م ل ا](#)

[ة م د ځ ت س م ل ا ت ا ن و ك م ل ا](#)

[نېي و ك ت ل ا](#)

[ة ك ب ش ل ل ل ي ط ي ط ځ ت ل ا م س ر ل ا](#)

[ت ا ن ي و ك ت ل ا](#)

[ة ځ و م ل ا نېي و ك ت](#)

[\(ISE\) ة ي و ه ل ا ت ا م د ځ ك ر ځ م نېي و ك ت](#)

[ل ي م ع ل ا نېي و ك ت](#)

[ق ح ص ل ا ن م ق ق ح ت ل ا](#)

[ا ه ځ ا ل ص ا و ا ط ځ ا ل ا ف ا ش ك ت س ا](#)

[ت ا ل ځ س ل ا و ا ط ځ ا ل ا ځ ي ح ص ت](#)

[ل م ع ل ا و ي ر ا ن ي س](#)

[ة ل ص ت ا ذ ت ا م و ل ع م](#)

## ة م د ق م ل ا

Cisco Identity Services Engine (ISE) م ا د ځ ت س ا ب FlexVPN نېي و ك ت ة ي ف ي ك د ن ت س م ل ا ا ذ ه ف ص ي ت ا م س ل ا ة و م ځ م نېي ع ت ا ر ځ ا و ت ا ي و ه ل ا ن م ق ق ح ت ل ل .

## ة ي س ا س ا ل ا ت ا ب ل ط ت م ل ا

### ت ا ب ل ط ت م ل ا

ة ي ل ل ا ت ل ا ع ي ض ا و م ل ا ب ة ف ر ع م ك ي د ل ن و ك ت ن ا ب Cisco ي ص و ت :

- ه ځ و م ي ل ع IKEV2/IPsec نېي و ك ت ع م (RAVPN) ة ي ر ه ا ط ل ا ة ص ا ځ ل ا د ع ب ن ع ل و ص و ل ا ة ك ب ش Cisco IOS® XE ن م C L I
- ن م Cisco (ISE) ة ي و ه ل ا ت ا م د ځ ك ر ځ م نېي و ك ت
- ن م Cisco (CSC) ن م ا ل ل ي م ع ل ا
- RADIUS ل و ك و ت و ر ب

### ة م د ځ ت س م ل ا ت ا ن و ك م ل ا

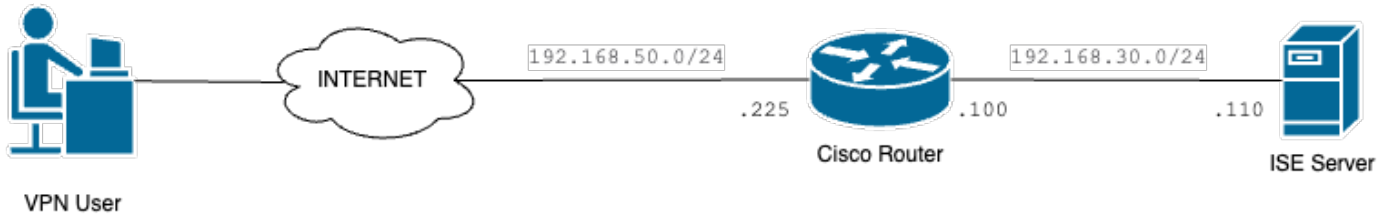
ة ي ل ل ا ت ل ا ة ي د ا م ل ا ت ا ن و ك م ل ا و ا ځ م ا ر ب ل ا ت ا ر ا د ص ا ي ل ا د ن ت س م ل ا ا ذ ه د ن ت س ي

- Cisco CSR1000V (VXE) - رادصإلإ 17.03.04a
- Cisco Identity Services Engine (ISE) - 3.1
- Cisco Secure Client (CSC) - رادصإلإ 5.0.05040
- Windows 11 ليغشلتالماظن

ةصاخةي لمعم ةئيبي في ةدوجوملا ةزهجالأ نم دنتسمل اذه في ةدراول تامولعمل عاشنإ مت تناك اذإ. (يضا رتفا) حوسمم نيوكتب دنتسمل اذه في ةمدختسمل ةزهجالأ عيمج تادب رمايال لمحتالم ريثأتلل كمهف نم دكأتف، ليغشلتال دي قكتكبش

## نيوكتال

ةكبشلل يطيختال مسرلا



ةيساسألا ةكبشلل يطيختال مسرلا

## تانويكتال

ةجوملا نيوكت

زاهجالا يلع يلحملا ليوختال او ةقداصم لل RADIUS مداخ نيوكت 1. ةوطخال

```

aaa new-model
aaa group server radius FlexVPN-Authentication-Server
server-private 192.168.30.110 key Cisco123
aaa authentication login FlexVPN-Authentication-List group FlexVPN-Authentication-Server
aaa authorization network FlexVPN-Authorization-List local
  
```

ةبساحملا وليوختال او ةقداصملا ةومجم يلا AAA authentication login <list\_name> رمالا ريشي (AAA) (RADIUS مداخ فرعت يال).

<list\_name> (AAA) ةبساحملا وضيوفتال او ةقداصملا ضيوفت ةكبشل يلحملا رمالا ريشي ايلحم ةدحم تاومجم/نمي مدختسم مادختسا بجي هنا يلا

يه هجوملل ةيلحملا ةقداصملا نال ارظن. هجوملا ةداهش نيختل ةقت ةطقن نيوكت 2. ةوطخال ةداهش مادختساب هسفن ةقداصمب مداخال موقني نأ زاهجالا بلطتي، RSA عون

```

crypto pki trustpoint FlexVPN-TP
enrollment url http://192.168.50.230:80
subject-name CN=192.168.50.225
  
```

```
revocation-check none
rsa-keypair FlexVPN_KEY
```

ةفلةلخ م نيمدختسم ةومجم لكلي لم IP عمجت ديدحت 3. ةوطخلال

```
ip local pool group1 172.16.10.1 172.16.10.50
ip local pool group2 172.16.20.1 172.16.20.50
```

ليلمل ليوختلال جهن نيوكت 4. ةوطخلال

```
crypto ikev2 authorization policy FlexVPN-Local-Policy
```

تاذ ميقلال لاسررا نع لوؤسم ةقداصمالم داخ نأل ارظن ليوختلال جهن يلع نيوكت دوجو مزلي ال يمتني يتلال ةومجملال يلى اداختسا (كلذ يلى امو ةيجململ تاراسملاو، عمجتلالو، DNS) ةلصلال تانايب ةدعاق ي فمدختسملا مسا فيرعتل اهن نيوكت بجي، كلذ عم و. ممدختسملا اهيلي انب ةصاخلال ةيجململ ليوختلال.

مادختسا متي، هنيوكت مدع ةلاح ي ف) IKEv2 جهن وحرتم عاشنإ. (ةيرايختخا) 5 ةوطخلال (ةيكدذلال تايضارتفال):

```
crypto ikev2 proposal IKEv2-prop
  encryption aes-cbc-256
  integrity sha256
  group 14
```

```
crypto ikev2 policy IKEv2-pol
  proposal IKEv2-prop
```

مادختسا متي، هنيوكت مدع ةلاح ي ف) ليوختلال ةومجم نيوكت. (ةيرايختخا) 6 ةوطخلال (ةيكدذلال تايضارتفال):

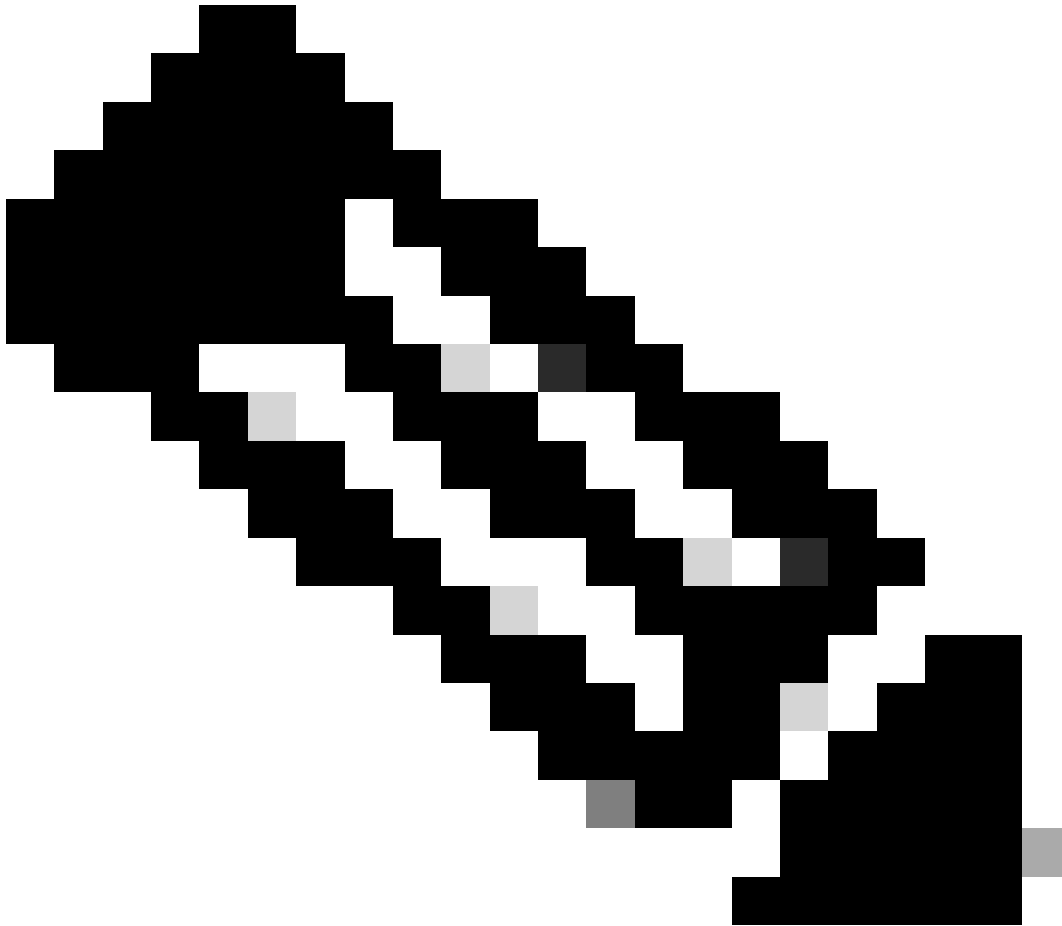
```
crypto ipsec transform-set TS esp-aes 256 esp-sha256-hmac
  mode tunnel
```

ةديعبلاو ةيجململا ةبسانملا تايلوهلا مادختساب IKEv2 فيرعت فلم نيوكتب مق 7. ةوطخلال يرهاظلال بلاقلال ةهجاوو AAA ةقثلال ةطقنو (ةديعبلاو ةيجململا) ةقداصملا بيلالساو تالاصتلال ةمدختسملا:

```
crypto ikev2 profile FlexVPN-IKEv2-Profile
match identity remote key-id cisco.example
identity local dn
authentication local rsa-sig
authentication remote eap query-identity
pki trustpoint FlexVPN-TP
aaa authentication eap FlexVPN-Authentication-List
aaa authorization group eap list FlexVPN-Authorization-List FlexVPN-Local-Policy
aaa authorization user eap cached
virtual-template 100
```

ةقداصم ءانثأ ةم لتسمل تامسلا نأ هن يزخت مت يذلا aaa authorization user eap رمأل ددحي  
مادختسا متي ال ،هن ودب هنأل نيوكتلل يرورض رمأل اذه .اتقوم اهن يزخت متي نأ بجي EAP  
للاصتال لشف لىل يذوي امم ،ةقداصم الم مداخ نم ةلسرمل اتانايبل

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فلم ي فحاتفملا فرعم ةم يق عم ديعبلل احاتفملا فرعم قباطتي نأ بجي :ةظالم  
ةيضارتفال ةم يقلال مادختسا متي ، XML فلم ي ف هل يدعت مدع ةلاح ي ف XML.  
IKEv2 فيرعت فلم لىل اهن يوكت بجي و (\*\$AnyConnectClient\$)

---

IKEv2 فيرعت فلم وليوحتلا ةومجم نييعتو IPsec فيرعت فلم نيوكت 8. ةوطخل

```
crypto ipsec profile FlexVPN-IPsec-Profile
set transform-set TS
set ikev2-profile FlexVPN-IKEv2-Profile
```

اهنم IP ناونع ضارتقاب يرهاظلا لوصولا تاهجاو موقت .عاجرتسا ةهجاو نيوكت 9. ةوطخل

```
interface Loopback100
ip address 10.0.0.1 255.255.255.255
```

لوصولا تاهجاو عاشنإل همادختسا متيس يذلا يرهاظلا بلاقل عاشنإب مق 10. ةوطخل  
8: ةوطخل ي ف هؤاشنإ مت يذلا IPsec فيرعت فلم طبرو ةفلتخملا يرهاظلا

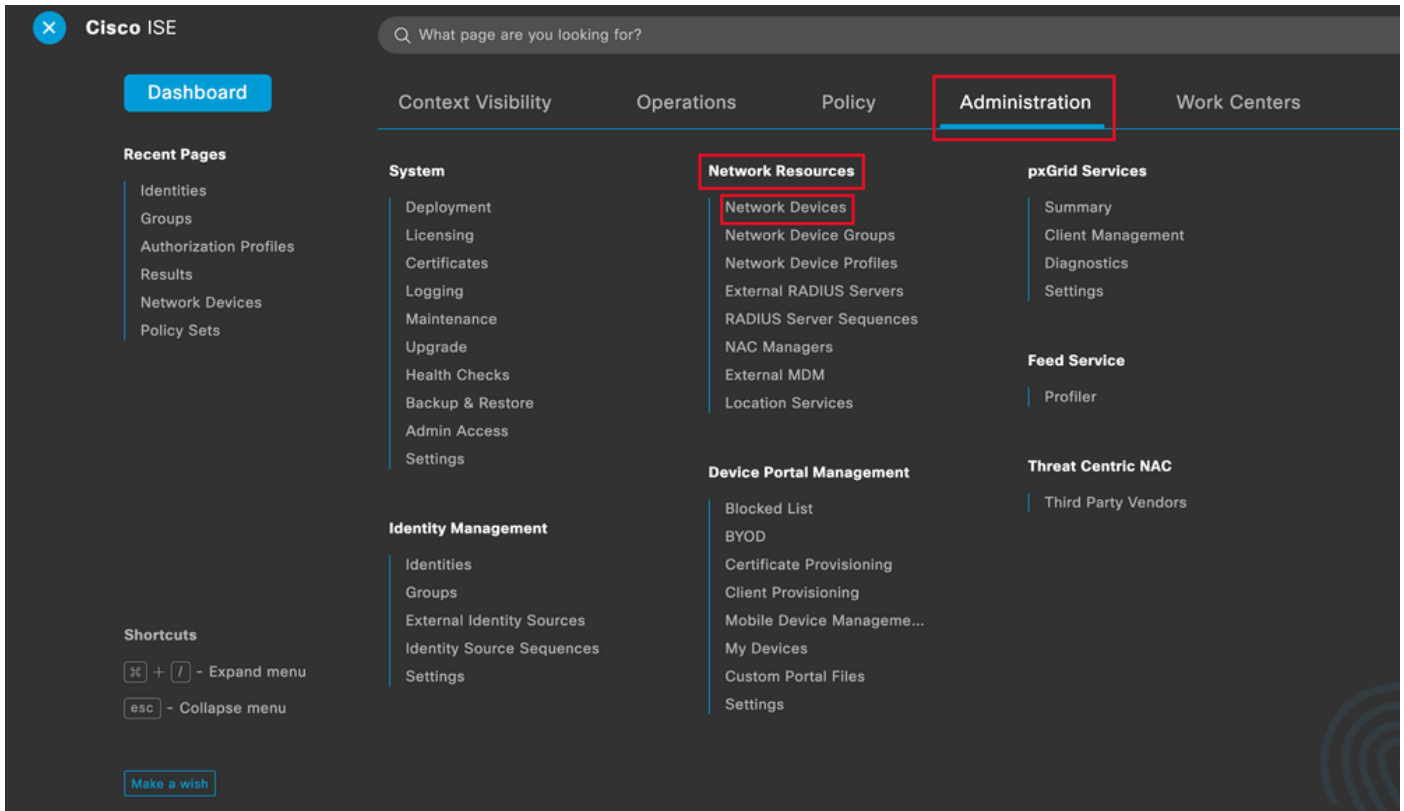
```
interface Virtual-Template100 type tunnel
ip unnumbered Loopback100
tunnel mode ipsec ipv4
tunnel protection ipsec profile FlexVPN-IPsec-Profile-1
```

هجوملا يلع HTTP مداخلو HTTP-URL يلى ةدنتسملا ةداهشلا ن ع شحبلا ليطعت 11. ةوطخل

```
no crypto ikev2 http-url cert
no ip http server
no ip http secure-server
```

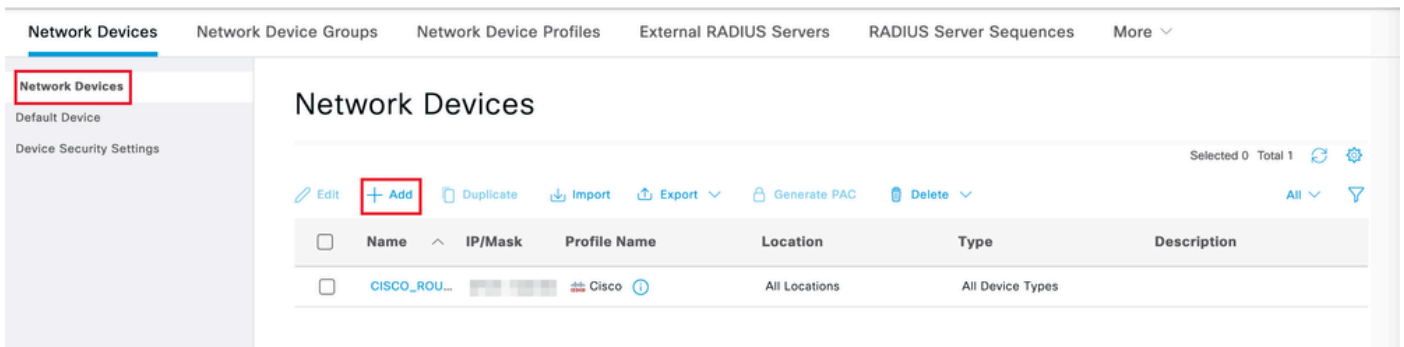
(ISE) ةيوهلا تامدخ كرحم نيوكت

ةزهجأ > ةكبشلا دراوم > ةرادا يلى لقتناو ISE مداخل يلى لوخدلا ليحستب مق 1. ةوطخل  
ةكبشلا:



قائمة ISE

AAA: إعدادات قوائم IP



إعدادات قوائم IP

إرسال قوائم RADIUS أو إعدادات قوائم IP. إعدادات قوائم IP هي إعدادات قوائم IP التي يتم استخدامها لإرسال قوائم RADIUS إلى الخوادم. إعدادات قوائم IP هي إعدادات قوائم IP التي يتم استخدامها لإرسال قوائم RADIUS إلى الخوادم.

## Network Devices

Name

CISCO\_ROUTER

Description

IP Address

\* IP :

192.168.30.110

/

32



IP ناونعو مسالا



✓ RADIUS Authentication Settings

### RADIUS UDP Settings

Protocol

RADIUS

Shared Secret

\*\*\*\*\*

Show



Use Second Shared Secret ⓘ

networkDevices.secondSharedSecret

Show

RADIUS رورم ةم لك

ظافح قوف رقنا

تاعومجم > ةي وهلا ةرادا > ةرادا يلا لقتنا 3. ةوطخلا

The screenshot shows the Cisco ISE Administration console. The top navigation bar includes 'Context Visibility', 'Operations', 'Policy', 'Administration' (highlighted), and 'Work Centers'. The left sidebar has 'Recent Pages' (Identities, Groups, Authorization Profiles, Results, Policy Sets) and 'Shortcuts' (Expand menu, Collapse menu). The main area is divided into sections: 'System' (Deployment, Licensing, Certificates, Logging, Maintenance, Upgrade, Health Checks, Backup & Restore, Admin Access, Settings), 'Identity Management' (Identities, Groups, External Identity Sources, Identity Source Sequences, Settings), 'Network Resources' (Network Devices, Network Device Groups, Network Device Profiles, External RADIUS Servers, RADIUS Server Sequences, NAC Managers, External MDM, Location Services), 'Device Portal Management' (Blocked List, BYOD, Certificate Provisioning, Client Provisioning, Mobile Device Manageme..., My Devices, Custom Portal Files, Settings), 'pxGrid Services' (Summary, Client Management, Diagnostics, Settings), 'Feed Service' (Profiler), and 'Threat Centric NAC' (Third Party Vendors).

تم اعالج ISE ةم ئاق

ةف اضا قوف رقنا مئ مدخت سمل اةوه تاعوم جم قوف رقنا 4 ةوطخا:

The screenshot shows the 'User Identity Groups' configuration page. On the left, the 'Identity Groups' sidebar has 'User Identity Groups' highlighted. The main area has a '+ Add' button highlighted in red. Below it is a table with columns 'Name' and 'Description'.

Name	Description
<input type="checkbox"/> ALL_ACCOUNTS (default)	Default ALL_ACCOUNTS (default) User Group
<input type="checkbox"/> Employee	Default Employee User Group
<input type="checkbox"/> GROUP_ACCOUNTS (default)	Default GROUP_ACCOUNTS (default) User Group

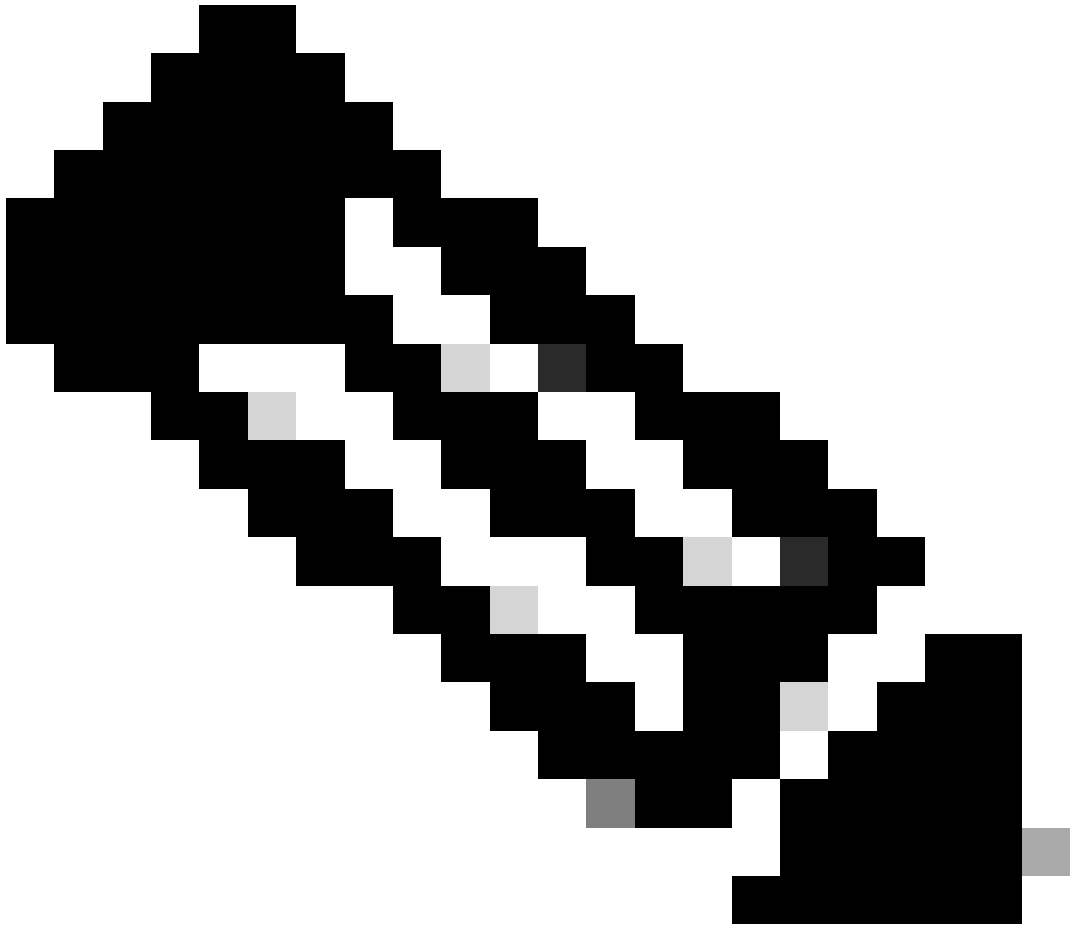
ةدءء ةعوم جم ةف اضا

ل اسررا قوف رقنا و ةعوم جم ل مسا لءءا.

The screenshot shows the 'Identity Group' configuration form. The 'Name' field is highlighted in red and contains the text 'Group1'. Below it is a 'Description' field. At the bottom right, there is a 'Submit' button highlighted in red and a 'Cancel' button.

ةعوم جم ل تام و ل عم

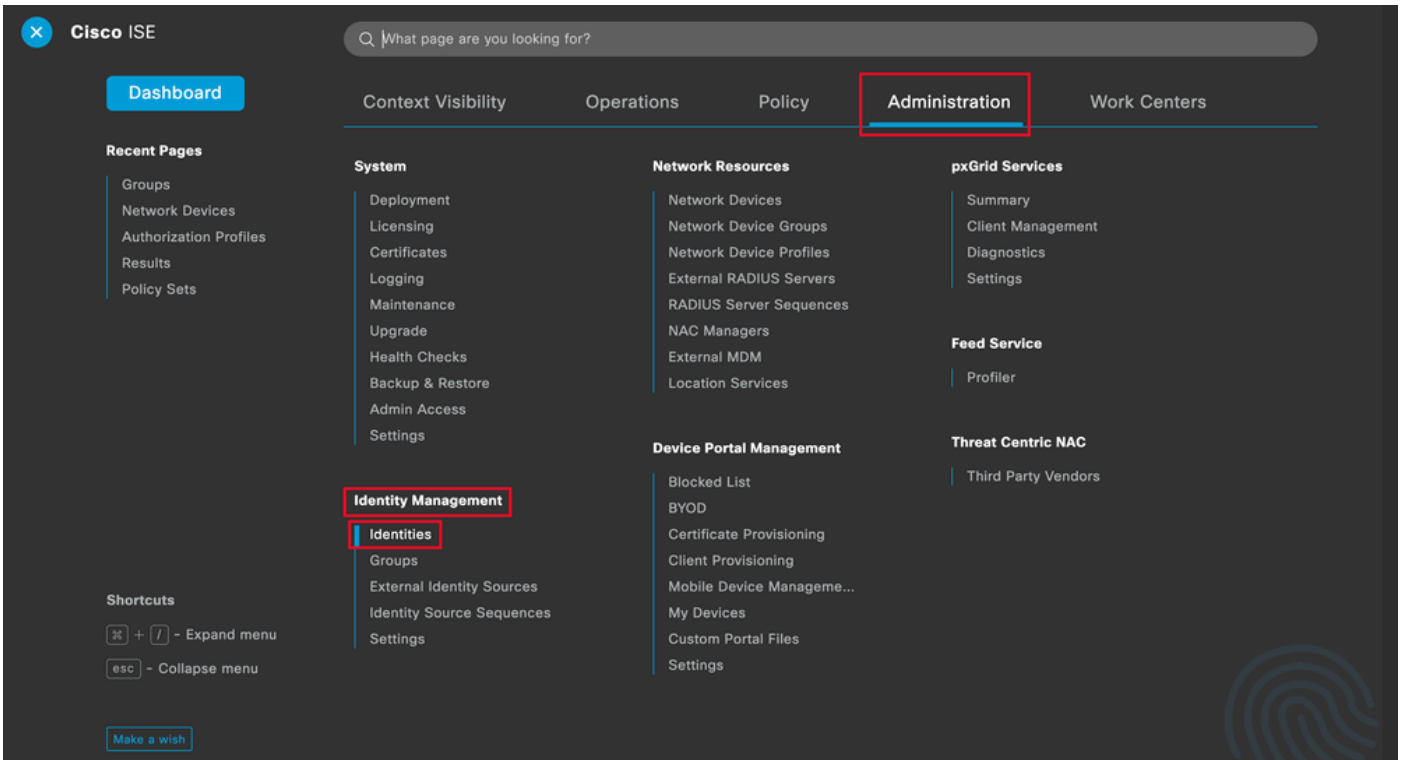




ةجأال بسح تاعومجملا نم ددع ربكأ عاشنإل 4 و 3 تاوطخال ررك :ةظحالم

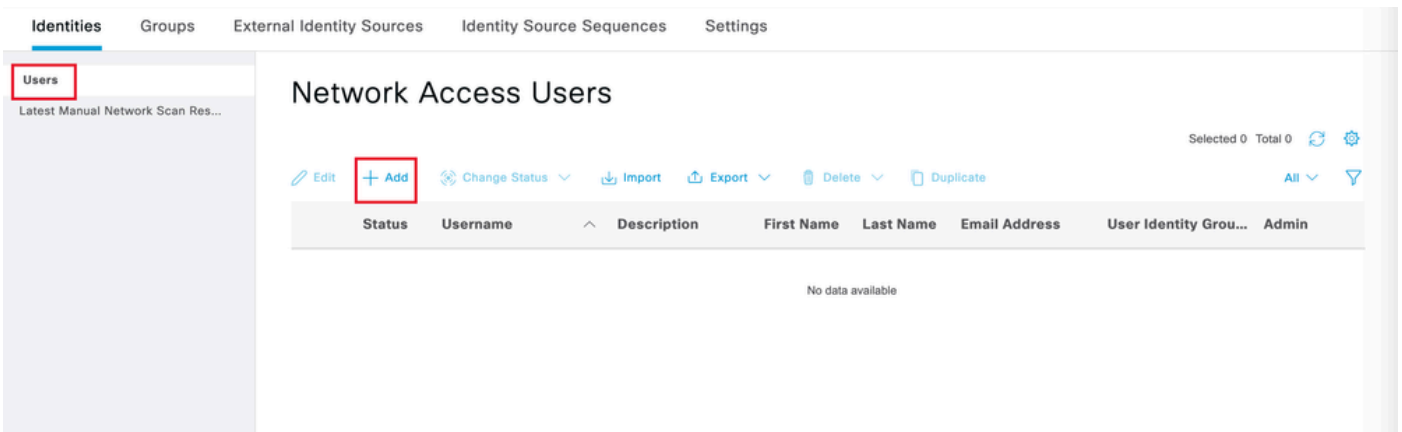
---

تايوهال > ةيوهال ةرادإ > ةرادإ ىلإ لقتنا 5 ةوطخال



مراجعة ال ISE ةم ئاق

ي لجم تاي طعم ةدعاق لدان لاي ف ديدج لمعتسم تقلخ in order to فيضي ةق طقط 6. ةوطخلا



مدختسم ةفاضل

ددح و ةحفصل هذه ةي اهن لى لى لقتنا ، مث . لوخذل لى جست رورم ةم لك و مدختسم لى مس لى خدأ : نى مدختسم لى ةومجم

### Network Access User

\* Username

Status  Enabled ▼

Email

### Passwords

Password Type:  ▼

Password

Re-Enter Password

\* Login Password

[Generate Password](#) ⓘ

Enable Password

[Generate Password](#) ⓘ

رورملا ةملاك و مدخت سمل مس

### Account Options

Description

Change password on next login

### Account Disable Policy

Disable account if date exceeds 20

### User Groups

**User Groups**

EQ

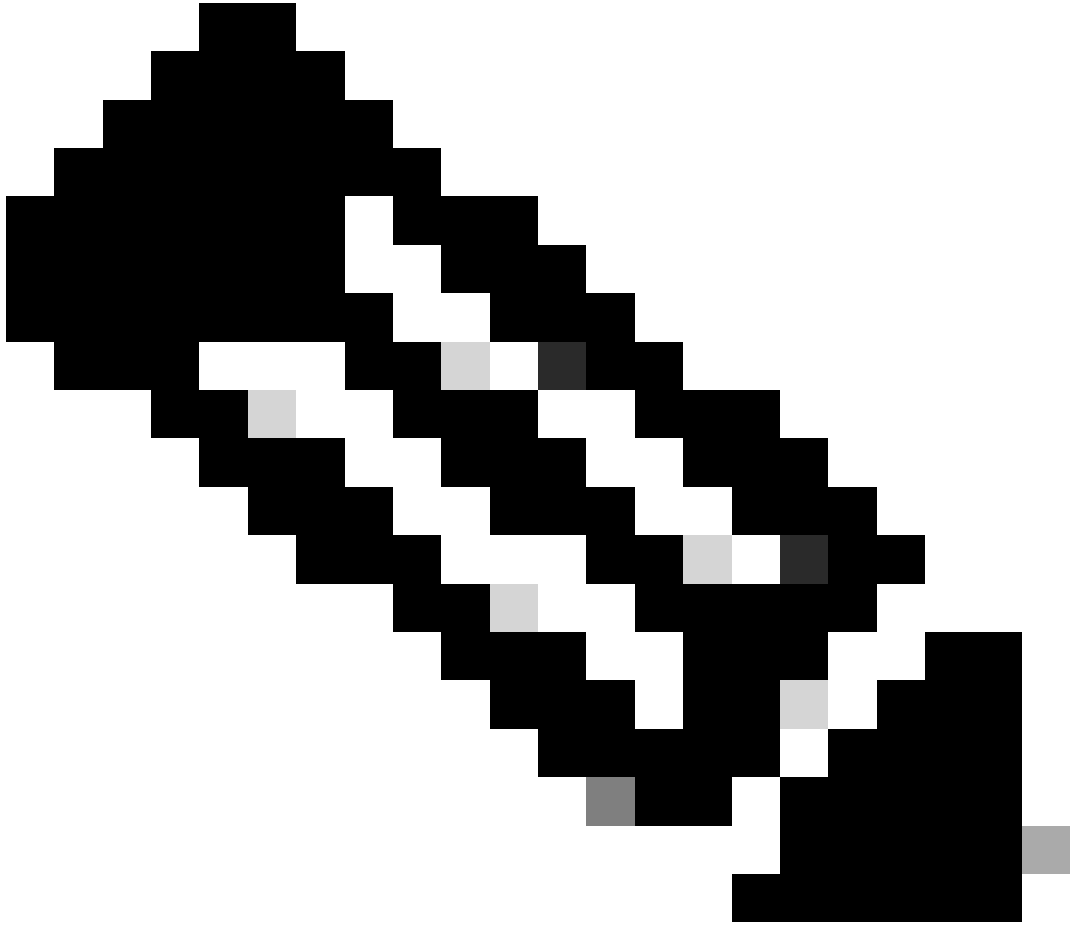
<

- ALL\_ACCOUNTS (default)
- Employee
- Group1**
- Group2
- GROUP\_ACCOUNTS (default)

▼ − +

مدخت سمل ةححصلا ةومح سمل نييت

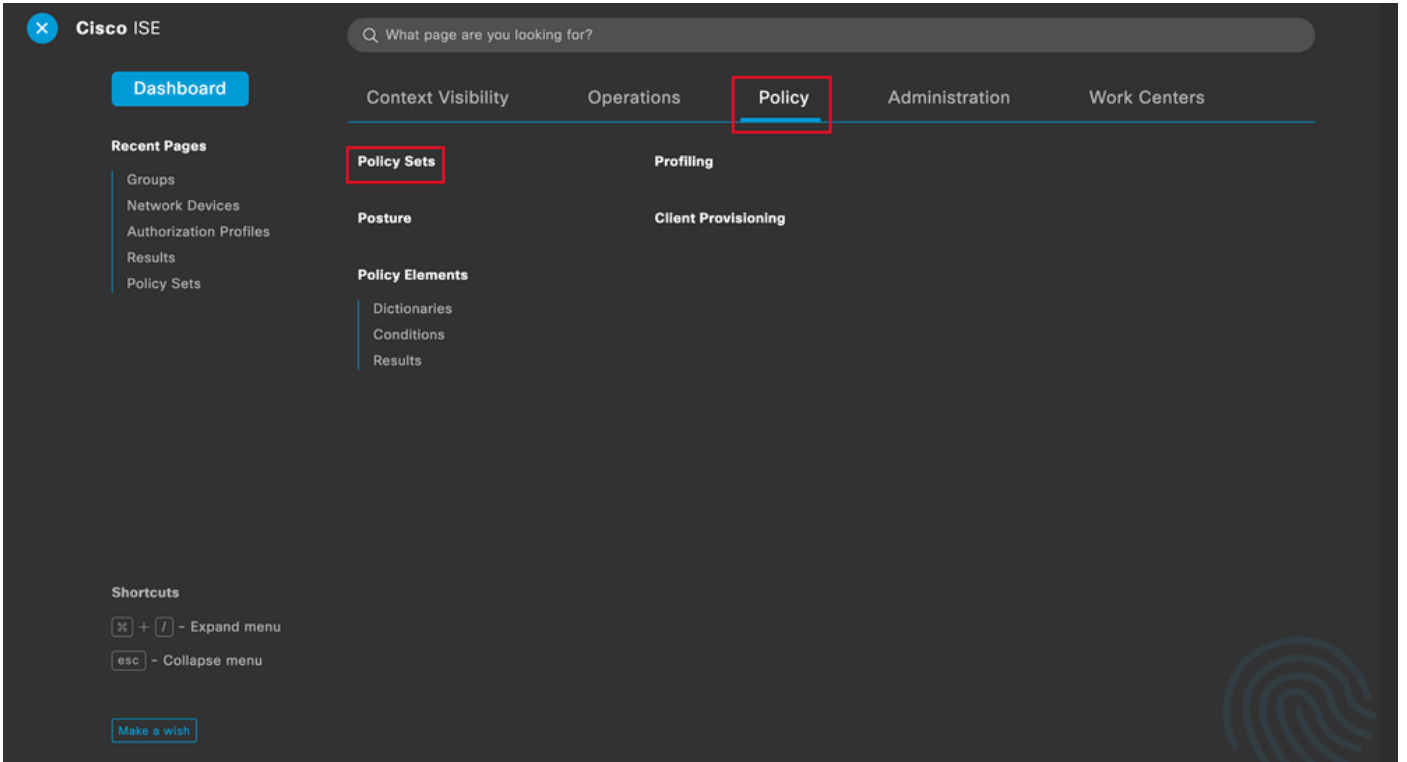
ظافح قوف رقنا.



مهنيي عتوم هيل اجاتحت نيذلا ني مدختس مل ااشن اإل 6 و 5 ني ووطخا لرك :ةظحال م  
ةلباقم لة وومجم لال ع

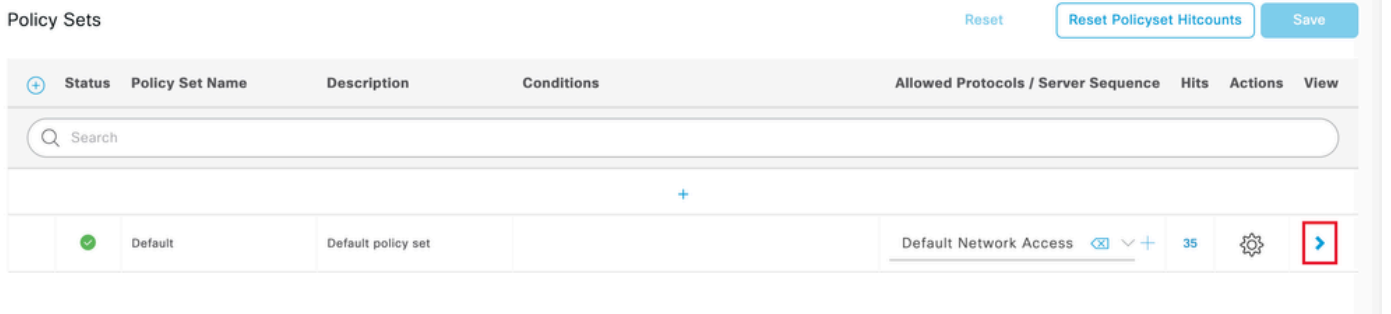
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تاسايس لال ااعومجم > ةسايس لال اإل لقتنا 7. ةوطخا لال



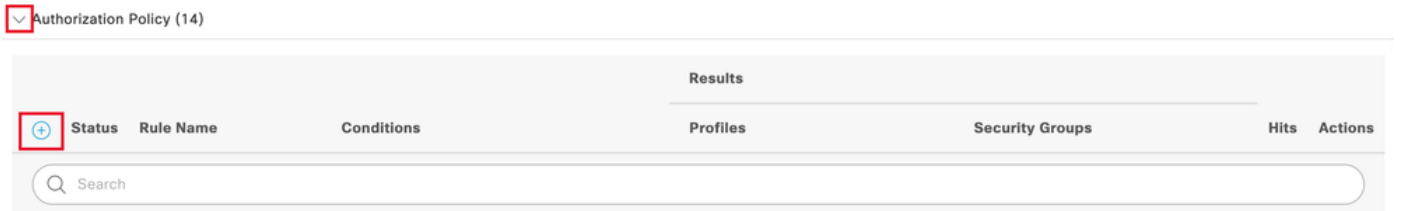
قائمة ISE

الهدف من هذا العمل هو إعداد سياسات الوصول التي تتيح الوصول إلى موارد الشبكة.



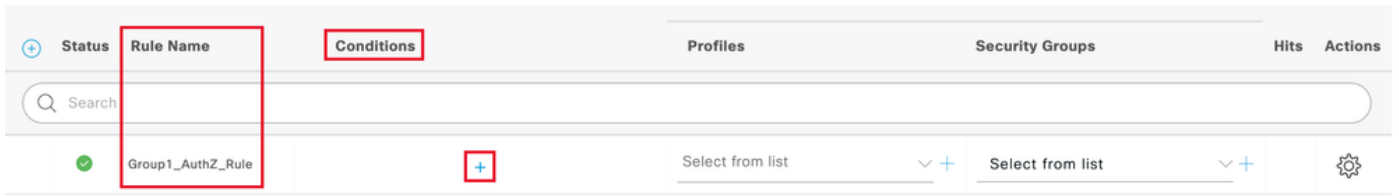
الهدف من هذا العمل هو إعداد سياسات الوصول التي تتيح الوصول إلى موارد الشبكة.

الهدف من هذا العمل هو إعداد سياسات الوصول التي تتيح الوصول إلى موارد الشبكة.



الهدف من هذا العمل هو إعداد سياسات الوصول التي تتيح الوصول إلى موارد الشبكة.

الهدف من هذا العمل هو إعداد سياسات الوصول التي تتيح الوصول إلى موارد الشبكة.



طارش ةفاضإ

- ةيوهلا ةعومجم دح . ةيوهلا ةعومجم قوف رقن او تامسلا ررحم صن ع برم يف رقنا 9 ةوطخلا مسالا ةمس:

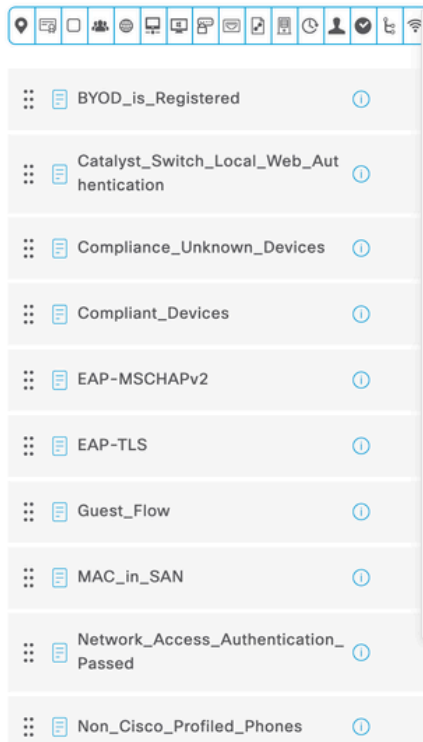
## Conditions Studio

Library

Editor

Search by Name

Click to add an attribute



Select attribute for condition

Dictionary	Attribute	ID	Info
All Dictionaries	Attribute	ID	
CWA	CWA_ExternalGroups		
IdentityGroup	Description		
IdentityGroup	Name		
InternalUser	IdentityGroup		
PassiveID	PassiveID_Groups		

طارشلا دح

ةحاتملا تارايخلا راهظال ةلدسنملا ةمئاقلا مهس قوف رقنا ، كلذ دعب لغشملا EqualSas دح <GROUP\_NAME>: مدختسملا ةيوه تاعومجم دحو

## Editor

IdentityGroup-Name

Equals

Choose from list or type

Set to 'Is not'

User Identity Groups:GROUP\_ACCOUNTS (default)

User Identity Groups:Group1

User Identity Groups:Group2

User Identity Groups:GuestType\_Contractor (default)

User Identity Groups:GuestType\_Daily (default)

Save

ةومجمل اديحت

طفح قوف رونا

ليوخت فيصوت عاشن ارتخاو (+) ةفاض ا نوقيا ل ع رونا ، تا فيصوت ال دومع في 10 ةوطخ ال  
ديج:

Status	Rule Name	Conditions	Profiles	Security Groups	Hits	Actions
✓	Group1_AuthZ_Rule	IdentityGroup-Name EQUALS User Identity Groups:Group1	Select from list	Select from list	10	⚙️
✓	Wireless Black List Default	Wireless_Access AND IdentityGroup-Name EQUALS Endpoint Identity Groups:Blacklist	Create a New Authorization Profile	Select from list	0	⚙️

ضيوفت ال فيرعت فلم عاشن ا

فيصوت ال مسا لخدأ

# Add New Standard Profile

## Authorization Profile

\* Name

Description

\* Access Type

Network Device Profile

Service Template

Track Movement  ⓘ

Agentless Posture  ⓘ

Passive Identity Tracking  ⓘ

في رعت ال فلم تام ولعم

عمئ اقل م هس لعل رقن او عم دقت م ال صئ اصخ ل ادادع ل ال ا ح ف ص ل ا هذ ه ة ي ا ه ن ل ل ل ق ت ن ا  
Cisco-AV-[1] جوز ددحو Cisco قوف رقن ا م ث . ة ل د س ن م ل ا

### Advanced Attributes Settings

Select an item

عم س ل ا عون ددح



(+) ةفاضل ةنوقل قوف رقناو اهنلوك ت ديرت ل Cisco-بئان-جوز ةمس ةفاضل مق  
سرخ ةمس ةفاضل:

#### Advanced Attributes Settings



Cisco:cisco-av-pair



=

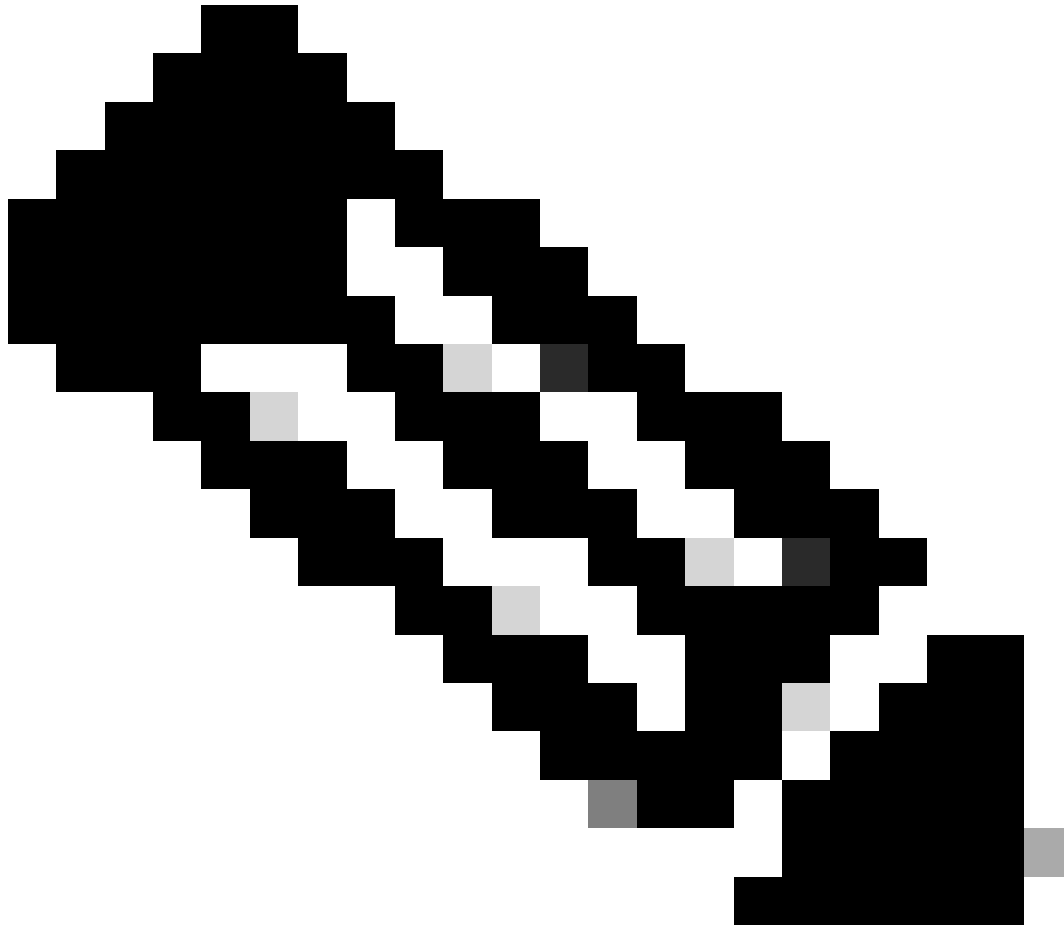
ipsec:dns-servers=10.0.50.10



-

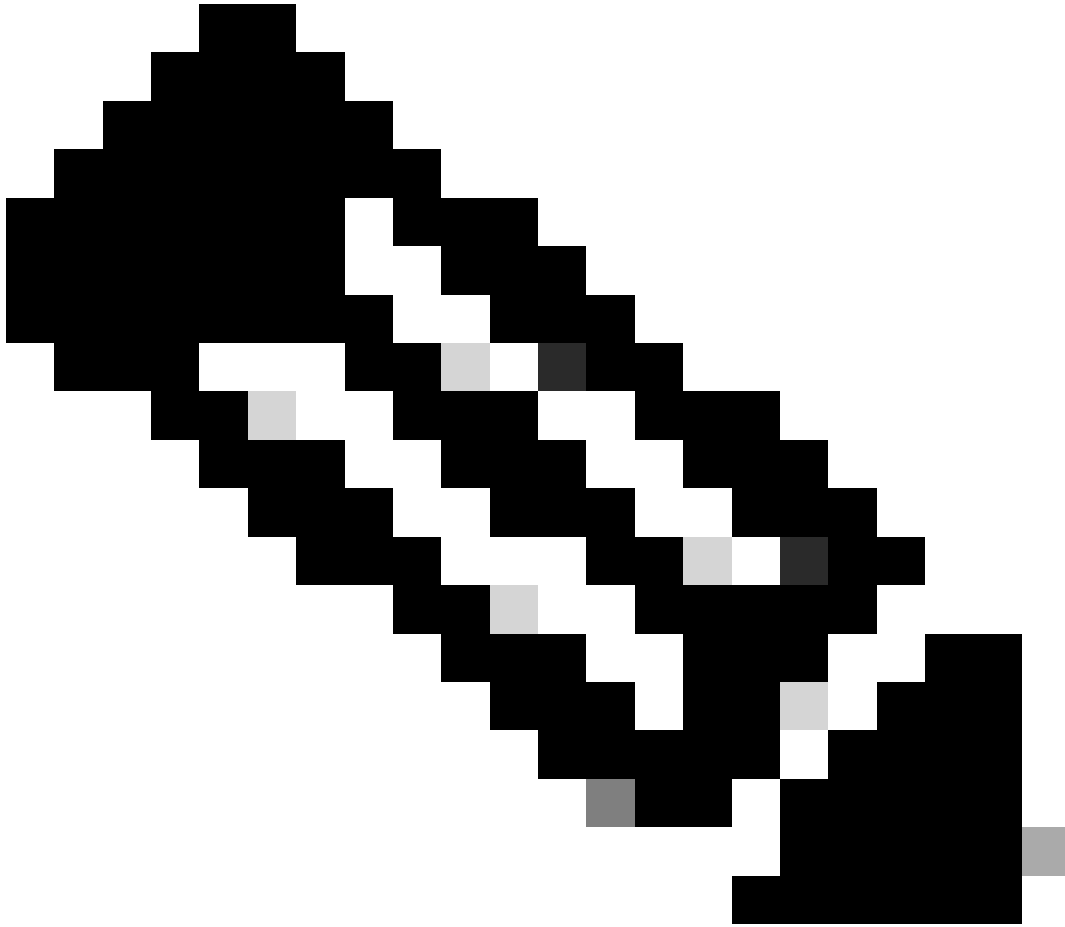


ةمس ل نلوك ت



(كلذل ل امو فصولاو ةلمجل اءانبو مسالا) تامس ل افاصول ةبس نلاب :ةظالم  
FlexVPN RADIUS تامس نلوك ت ل ل ةعجارم لجرل:

[Cisco IOS XE Fuji 16.9.x - رادصل ال Internet Key Exchange و FlexVPN نلوك ت ل ل](#)



قمة ورض لـ تامس لـ عاشن إلة قبا س لـ ة و ط خ لـ رك : ة ظ ح الم

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ظ ف ح ق و ف ر ق ن ا

ة و م ح م ل ك ل ك ل ذ د ع ب ي ت أ ت ي ت ل ا ت ا م س ل ا ن ي ع ت م ت

- 1 : ة و م ح م ل ا ت ا م س

### Advanced Attributes Settings

⋮	Cisco:cisco-av-pair	▼	=	ipsec:dns-servers=10.0.50.10	▼	—
⋮	Cisco:cisco-av-pair	▼	=	ipsec:route-set=prefix 192.168.100.0/24	▼	—
⋮	Cisco:cisco-av-pair	▼	=	ipsec:addr-pool=group1	▼	— +

### Attributes Details

Access Type = ACCESS\_ACCEPT  
cisco-av-pair = ipsec:dns-servers=10.0.50.101  
cisco-av-pair = ipsec:route-set=prefix 192.168.100.0/24  
cisco-av-pair = ipsec:addr-pool=group1

Group1 مةس

### 2: ةومجملا تامس

### Advanced Attributes Settings

⋮	Cisco:cisco-av-pair	▼	=	ipsec:dns-servers=10.0.50.20	▼	—
⋮	Cisco:cisco-av-pair	▼	=	ipsec:route-set=prefix 192.168.200.0/24	▼	—
⋮	Cisco:cisco-av-pair	▼	=	ipsec:addr-pool=group2	▼	— +

### Attributes Details

Access Type = ACCESS\_ACCEPT  
cisco-av-pair = ipsec:dns-servers=10.0.50.202  
cisco-av-pair = ipsec:route-set=prefix 192.168.200.0/24  
cisco-av-pair = ipsec:addr-pool=group2

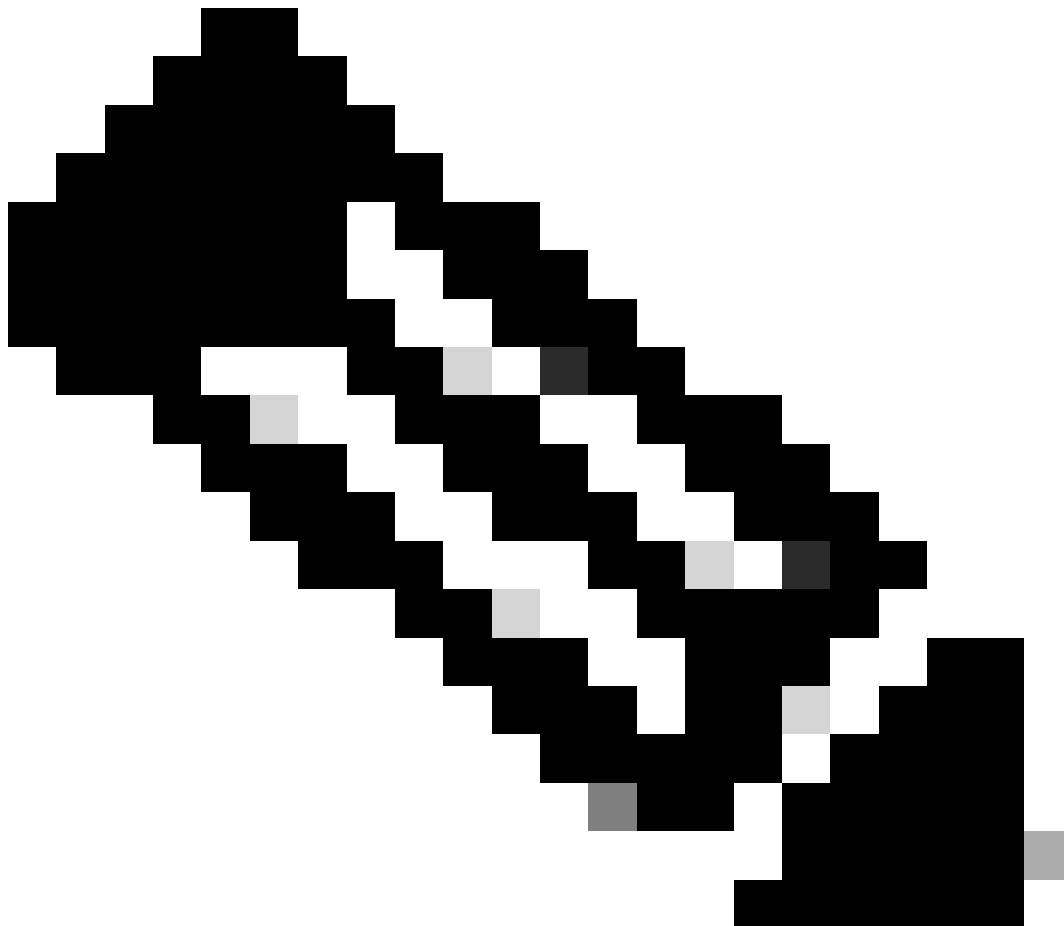
2 ةومجملا تامس

هؤاشنإ مت يذلا ليوختلا فيرعت فلم ددحو ةلدسنملا ةمئاقلا مهس قوف رقنا 11 ةوطخلا  
10: ةوطخلا في

Status	Rule Name	Conditions	Profiles	Security Groups	Hits	Actions
✓	Group1_AuthZ_Rule	IdentityGroup-Name EQUALS User Identity Groups:Group1	Select from list	Select from list	10	⚙️
✓	Wireless Black List Default	AND Wireless_Access IdentityGroup-Name EQUALS Endpoint Identity Groups:Blacklist	DenyAccess NSP_Onboard Non_Cisco_IP_Phones PermitAccess Profile_group1	Select from list	0	⚙️
✓	Profiled Cisco IP Phones	IdentityGroup-Name EQUALS Endpoint Identity Groups:Profiled:Cisco-IP-Phone	Non_Cisco_IP_Phones	Select from list	0	⚙️
✓	Profiled Non Cisco IP Phones	Non_Cisco_Profiled_Phones	Non_Cisco_IP_Phones	Select from list	0	⚙️

ليوختال فيرعت فلم نييعت

ظفح قوف رقونا



ةومجم لك لةمزالال ليوختال دع اوق عاشنإل 11 لى 8 نم تاوطخال ررك :ةظحال

> ةسايسلا لى لى لقتنا ،ليوختال فيرعت فلم ريحتل تحتحا اذإ .(ةيرايخا) 12 ةوطخال



## لي مغل ني وكت

وه لاثملا اذه XML فيرعت فلم ررحم مادختساب XML فيرعت فلم عاشنإب مق 1. ةوطخل دنس مغل اذه عاشنإل مدختس مغل:

```
<#root>
```

```
<AnyConnectProfile xmlns="http://schemas.xmlsoap.org/encoding/" xmlns:xsi="http://www.w3.org/2001/XMLSchema"
  <ClientInitialization>
    <UseStartBeforeLogon UserControllable="true">true</UseStartBeforeLogon>
    <AutomaticCertSelection UserControllable="false">true</AutomaticCertSelection>
    <ShowPreConnectMessage>false</ShowPreConnectMessage>
    <CertificateStore>All</CertificateStore>
    <CertificateStoreMac>All</CertificateStoreMac>
    <CertificateStoreLinux>All</CertificateStoreLinux>
    <CertificateStoreOverride>true</CertificateStoreOverride>
    <ProxySettings>Native</ProxySettings>
    <AllowLocalProxyConnections>true</AllowLocalProxyConnections>
    <AuthenticationTimeout>30</AuthenticationTimeout>
    <AutoConnectOnStart UserControllable="true">false</AutoConnectOnStart>
    <MinimizeOnConnect UserControllable="true">true</MinimizeOnConnect>
    <LocalLanAccess UserControllable="true">false</LocalLanAccess>
    <DisableCaptivePortalDetection UserControllable="true">false</DisableCaptivePortalDetection>
    <ClearSmartcardPin UserControllable="false">true</ClearSmartcardPin>
    <IPProtocolSupport>IPv4, IPv6</IPProtocolSupport>
    <AutoReconnect UserControllable="false">
      true
    </AutoReconnect>
    <AutoReconnectBehavior UserControllable="false">ReconnectAfterResume</AutoReconnectBehavior>
    <SuspendOnConnectedStandby>false</SuspendOnConnectedStandby>
    <AutoUpdate UserControllable="false">true</AutoUpdate>
    <RSASecurIDIntegration UserControllable="false">Automatic</RSASecurIDIntegration>
    <WindowsLogonEnforcement>SingleLocalLogon</WindowsLogonEnforcement>
    <LinuxLogonEnforcement>SingleLocalLogon</LinuxLogonEnforcement>
    <WindowsVPNEstablishment>AllowRemoteUsers</WindowsVPNEstablishment>
    <LinuxVPNEstablishment>LocalUsersOnly</LinuxVPNEstablishment>
    <AutomaticVPNPolicy>false</AutomaticVPNPolicy>
    <PPPEExclusion UserControllable="false">
      Disable
    </PPPEExclusion>
    <PPPEExclusionServerIP UserControllable="false"/>
    <EnableScripting UserControllable="false">false</EnableScripting>
    <EnableAutomaticServerSelection UserControllable="false">
      false
    </EnableAutomaticServerSelection>
    <AutoServerSelectionImprovement>20</AutoServerSelectionImprovement>
    <AutoServerSelectionSuspendTime>4</AutoServerSelectionSuspendTime>
    <RetainVpnOnLogoff>false </RetainVpnOnLogoff>
    <CaptivePortalRemediationBrowserFailover>false</CaptivePortalRemediationBrowserFailover>
    <AllowManualHostInput>true</AllowManualHostInput>
  </ClientInitialization>
  <ServerList>
    <HostEntry>
      <HostName>
        FlexVPN HUB
      </HostName>
      <HostAddress>
```

192.168.50.225

```
</HostAddress>  
<PrimaryProtocol>
```

IPsec

```
<StandardAuthenticationOnly>  
true  
<AuthMethodDuringIKENegotiation>
```

EAP-MD5

```
</AuthMethodDuringIKENegotiation>  
<IKEIdentity>
```

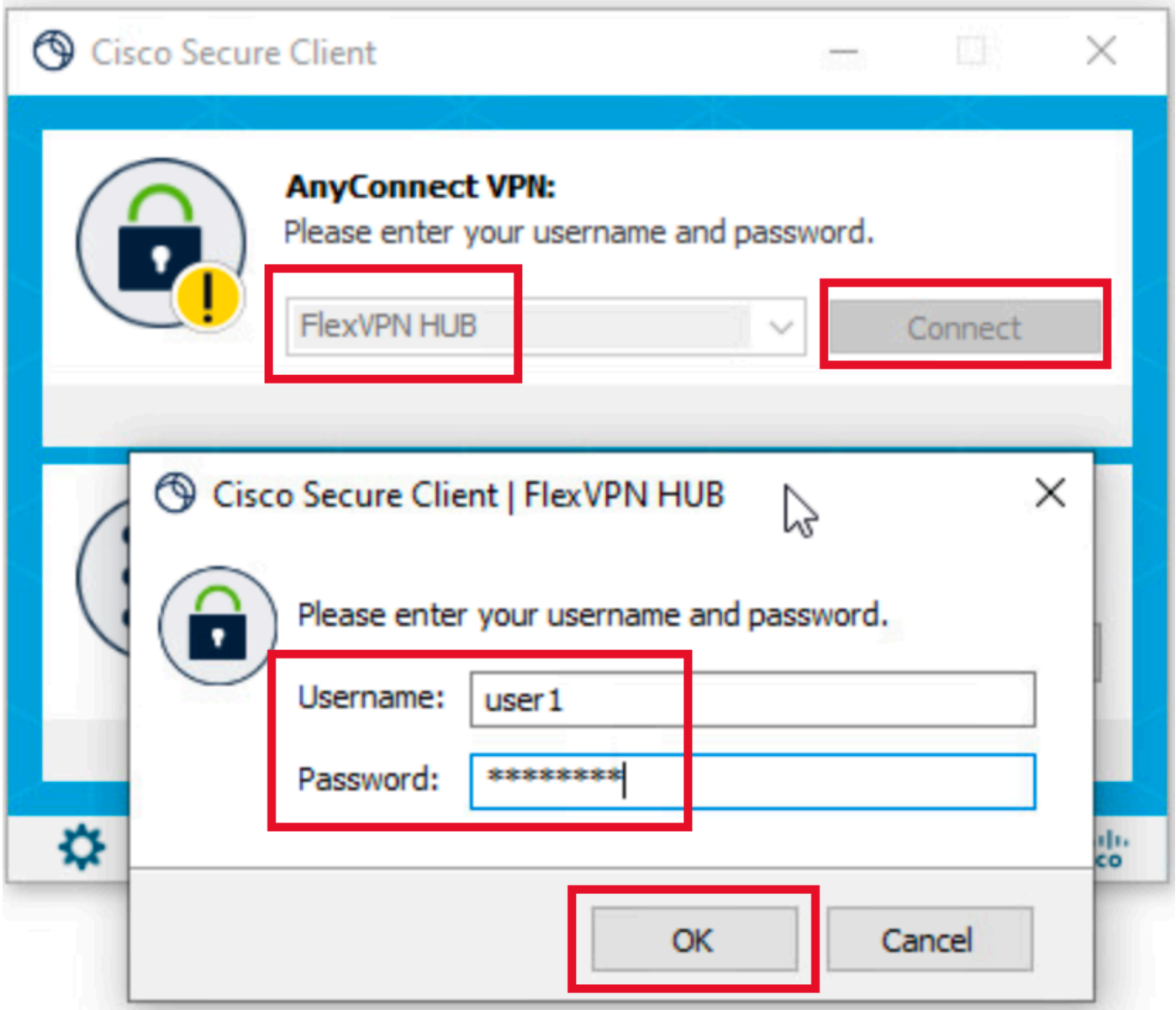
cisco.example

```
</IKEIdentity>  
</StandardAuthenticationOnly>  
</PrimaryProtocol>  
</HostEntry>  
</ServerList>  
</AnyConnectProfile>
```

- <hostName> - مسأ و IP ناونع و ا فيضملا الى ا راش ا لل مدختسملا راعتسملا مسالا -
  - <hostAddress> - FlexVPN عزومب صاخلا FQDN و IP ناونع -
  - <primaryProtocol> - IKEv2/IPsec مادختسلا الى ليمعلا رابجال IPsec الى هنييت بجي -
  - <AuthMethodDuringIKENegotiation> - EAP-MD5 مادختسالا هنييت بجي -
  - <IKEIdentity> - عون فرعم ةلومحك ليمعلا ةطساوب ةلسلسلا هذه لاسرا متي -
- ددم IKEv2 فيريت فلمب ليمعلا ةقباطملا اذ مادختسلا نكمي ID\_GROUP. ةرصللا الى

## ةحصللا نم ققحتلا

لخدأو FlexVPN عزومب لاصتالاب مق CSC تيبتت مت ثيح ليمعلا زاها الى لقتنا 1. ةوطخلا  
1: مدختسملا دامتعا تانايب



User1 تاغوسم

(يلفسللا ىرسلا ةيوازلا) سورتلا ةنوقيا ىلع رقنا ، لىصوتلا سىسات درجم ب . 2 ةوطخلا  
يذلا IP ناوع نا ناوعلا تامولعم مسق يف دكأت . تاياىاصح | > AnyConnectVPN ىلى لقتناو  
1: ةومحملل هنيوكت مت يذلا عمحتلا ىلى يمئني هنييغت مت



Cisco Secure Client

Secure Client

Status Overview

**AnyConnect VPN**

Secure Endpoint

Virtual Private Network (VPN)

Preferences **Statistics** Route Details Firewall Message History

Connection Information

State: Connected

Tunnel Mode (IPv4): Split Include

Tunnel Mode (IPv6): Drop All Traffic

Dynamic Tunnel Exclusion: None

Dynamic Tunnel Inclusion: None

Duration: 00:00:22

Session Disconnect: None

Management Connection State: Disconnected (user tunnel active)

Address Information

Client (IPv4): 172.16.10.5

Client (IPv6): Not Available

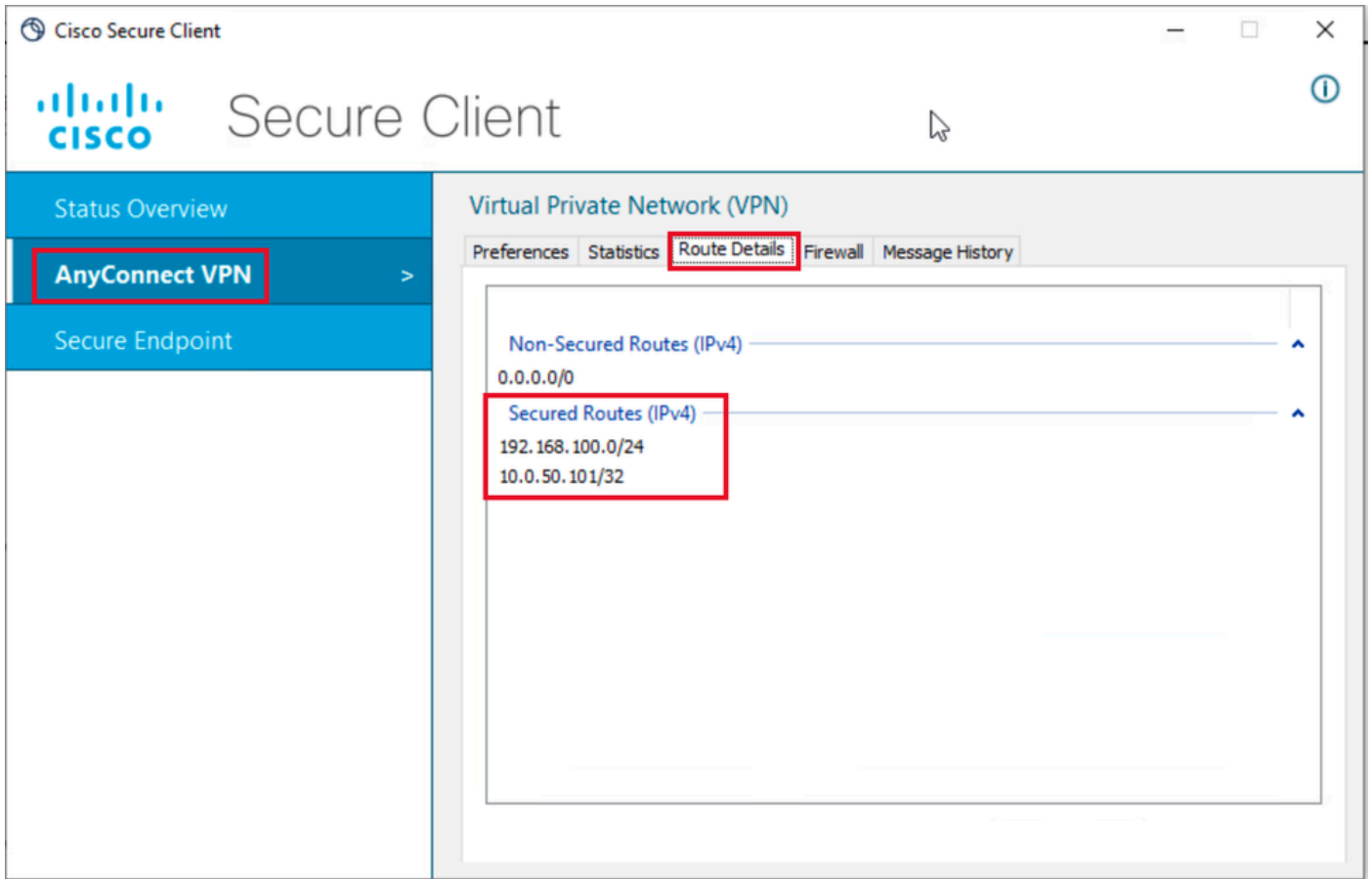
Server:

Bytes

Reset Export Stats

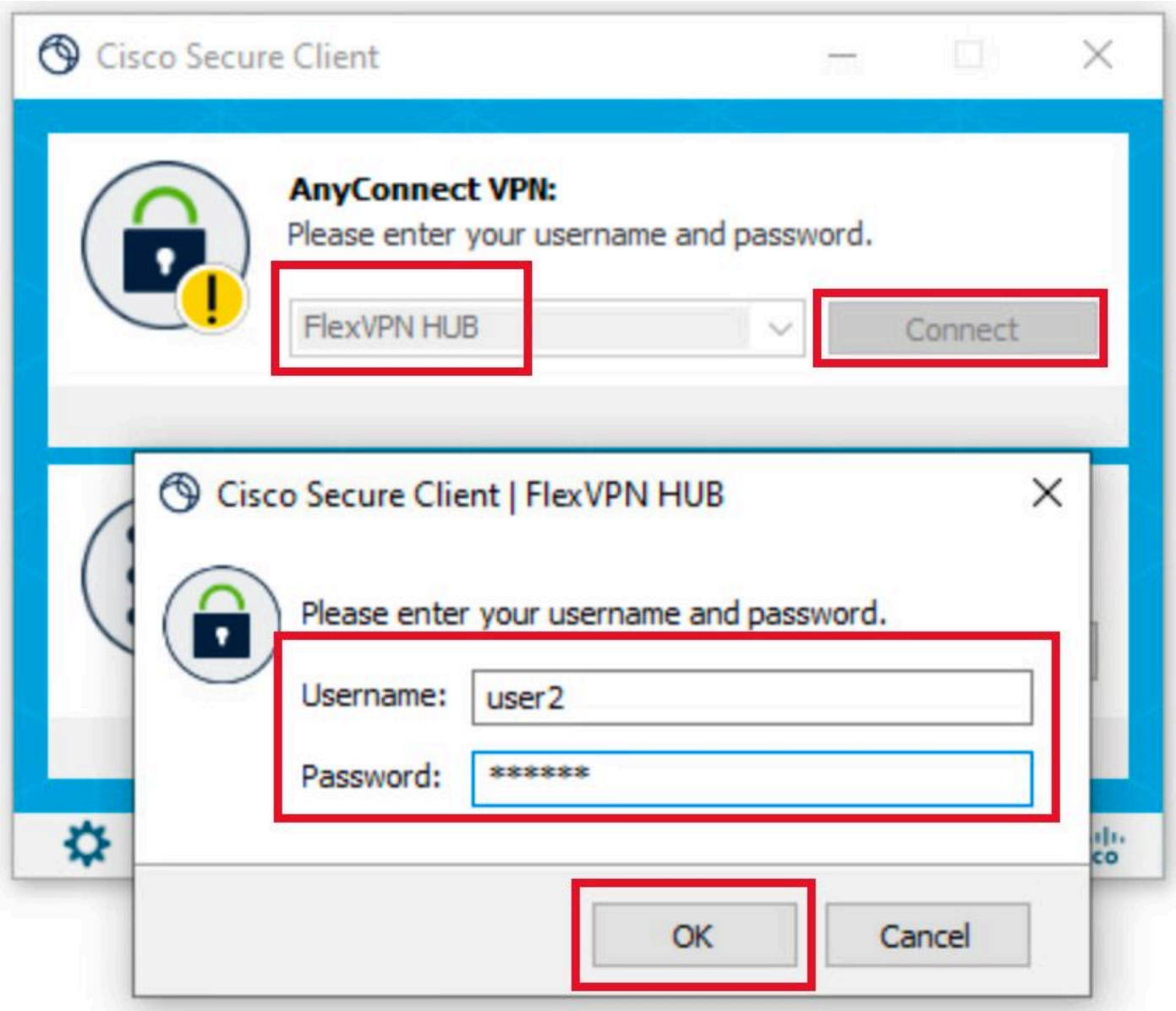
User1 تايئاصح

قباطتة ضرورعمل تامولعمل انم دكأتوراسملا ليصافت > AnyConnectVPN لي لقتنا  
1: ةومجملل هنيوكت مت يذلا DNS و ةنمآل تاراسملا عم



1مدخستسملا راسم ليصافات

تامولعمللة قباطم نم ققحتلل 2مدخستسملا دامتعا تانايب عم 2 و 1ةوطخلال ررك. 3ةوطخلال  
ةومجملال هذهل ISE ليوخت جهن يف اهنيوكت مت ي التا ميقلل



User2 تاغوسم

Cisco Secure Client

# Secure Client

Status Overview

**AnyConnect VPN**

Secure Endpoint

## Virtual Private Network (VPN)

Preferences **Statistics** Route Details Firewall Message History

**Connection Information**

State:	Connected
Tunnel Mode (IPv4):	Split Include
Tunnel Mode (IPv6):	Drop All Traffic
Dynamic Tunnel Exclusion:	None
Dynamic Tunnel Inclusion:	None
Duration:	00:00:12
Session Disconnect:	None
Management Connection State:	Disconnected (user tunnel active)

**Address Information**

Client (IPv4):	172.16.20.5
Client (IPv6):	Not Available
Server:	

Bytes

Reset Export Stats

User2 تايئاصح

Cisco Secure Client

# Secure Client

Status Overview

**AnyConnect VPN**

Secure Endpoint

## Virtual Private Network (VPN)

Preferences Statistics **Route Details** Firewall Message History

**Non-Secured Routes (IPv4)**

0.0.0.0/0

**Secured Routes (IPv4)**

192.168.200.0/24
10.0.50.202/32

2 مدختسم لاسم لي صافات

# اه حال صا و ااطخا ل فاش ك ت سا

## تال ج سا و ااطخا ل ا ح ص ت

Cisco ه ج و م ل ع

1. ل ا ب ق ت سا ل ا ة د و و ن ي ب ض و ا ف ت ل ا ن م ق ق ح ت ل ل IPsec و IKEv2 ااطخا ل ا ح ص ت م د خ ت س ا ل ل م ع ل ل و ث ب ل ل و

```
debug crypto ikev2
debug crypto ikev2 packet
debug crypto ikev2 error
debug crypto ikev2 internal
debug crypto ipsec
debug crypto ipsec error
```

2. ة د ي ع ب ل ل و ا و ة ل ل ح م ل ل ا ت ا م س ل ل ن ي ي ع ت ن م ق ق ح ت ل ل AAA ااطخا ل ا ح ص ت م ا د خ ت س ا ل

```
debug aaa authorization
debug aaa authentication
debug radius authentication
```

ISE ل ع

- ة ر ش ا ب م ل RADIUS تال ج س

## ل م ع ل ل و ي ر ا ن ي س

ة ج ج ا ن ل ل تال ا ص تال ل ل ع ة ل ث م ا ي ه ة ل ل تال ل ا ج ت ا و ن ل ل

- User1 ااطخا ل ا ح ص ت ج ا ر خ ا

<#root>

```
Jan 30 02:57:21.088: AAA/BIND(000000FF): Bind i/f
Jan 30 02:57:21.088: AAA/AUTHEN/LOGIN (000000FF):
```

```
Pick method list 'FlexVPN-Authentication-List'
```

```
Jan 30 02:57:21.088: RADIUS/ENCODE(000000FF):Orig. component type = VPN IPSEC
Jan 30 02:57:21.088: RADIUS/ENCODE(000000FF): dropping service type, "radius-server attribute 6 on-for-
Jan 30 02:57:21.088: RADIUS(000000FF): Config NAS IP: 0.0.0.0
Jan 30 02:57:21.088: vrfid: [65535] ipv6 tableid : [0]
Jan 30 02:57:21.088: idb is NULL
Jan 30 02:57:21.088: RADIUS(000000FF): Config NAS IPv6: ::
```

Jan 30 02:57:21.089: RADIUS/ENCODE(000000FF): acct\_session\_id: 4245  
Jan 30 02:57:21.089: RADIUS(000000FF): sending  
Jan 30 02:57:21.089: RADIUS/ENCODE: Best Local IP-Address 192.168.30.100 for Radius-Server 192.168.30.1  
Jan 30 02:57:21.089: RADIUS: Message Authenticator encoded  
Jan 30 02:57:21.089: RADIUS(000000FF):

Send Access-Request to 192.168.30.110:1645 id 1645/85, len 229

RADIUS: authenticator C9 82 15 29 AF 4B 17 61 - 27 F4 5C 27 C2 C3 50 34  
Jan 30 02:57:21.089: RADIUS: Service-Type [6] 6 Login [1]  
Jan 30 02:57:21.089: RADIUS: Vendor, Cisco [26] 26  
Jan 30 02:57:21.089: RADIUS: Cisco AVpair [1] 20 "service-type=Login"  
Jan 30 02:57:21.089: RADIUS: Vendor, Cisco [26] 36  
Jan 30 02:57:21.089: RADIUS: Cisco AVpair [1] 30

"isakmp-phase1-id=cisco.example"

Jan 30 02:57:21.089: RADIUS: Calling-Station-Id [31] 13 "192.168.50.130"  
Jan 30 02:57:21.089: RADIUS: Vendor, Cisco [26] 64  
Jan 30 02:57:21.089: RADIUS: Cisco AVpair [1] 58 "audit-session-id=L2L42F2F0116Z02L42F2F016FZH1194CAE2Z  
Jan 30 02:57:21.089: RADIUS: User-Name [1] 7

"user1"

Jan 30 02:57:21.089: RADIUS: Vendor, Cisco [26] 21  
Jan 30 02:57:21.089: RADIUS: Cisco AVpair [1] 15 "coa-push=true"  
Jan 30 02:57:21.089: RADIUS: EAP-Message [79] 12  
RADIUS: 02 3B 00 0A 01 75 73 65 72 31 [ ;user1]  
Jan 30 02:57:21.089: RADIUS: Message-Authenticato[80] 18  
RADIUS: E7 22 65 E0 DC 03 3A 49 0B 01 49 2A D5 3F AD 4F [ "e:II\*?0"  
Jan 30 02:57:21.089: RADIUS: NAS-IP-Address [4] 6 192.168.30.100  
Jan 30 02:57:21.089: RADIUS(000000FF): Sending a IPv4 Radius Packet  
Jan 30 02:57:21.090: RADIUS(000000FF): Started 5 sec timeout  
Jan 30 02:57:21.094: RADIUS:

Received from id 1645/85 192.168.30.110:1645, Access-Challenge, len 137

RADIUS: authenticator 67 2B 9D 9C 4D 1F F3 E8 - F6 EC 9B EB 8E 49 C8 A5  
Jan 30 02:57:21.094: RADIUS: State [24] 91  
RADIUS: 35 32 43 50 4D 53 65 73 73 69 6F 6E 49 44 3D 4C [52CPMSessionID=L]  
RADIUS: 32 4C 34 32 46 32 46 30 31 31 36 5A 4F 32 4C 34 [2L42F2F0116Z02L4]  
RADIUS: 32 46 32 46 30 31 36 46 5A 48 31 31 39 34 43 41 [2F2F016FZH1194CA]  
RADIUS: 45 32 5A 4E 31 46 3B 33 31 53 65 73 73 69 6F 6E [E2ZN1F;31Session]  
RADIUS: 49 44 3D 49 53 45 2D 44 49 41 4E 2F 34 39 33 30 [ID=ISE-SERVER/4930]  
RADIUS: 38 30 30 31 38 2F 32 39 3B [ 80018/29;]  
Jan 30 02:57:21.094: RADIUS: EAP-Message [79] 8  
RADIUS: 01 52 00 06 0D 20 [ R ]  
Jan 30 02:57:21.094: RADIUS: Message-Authenticato[80] 18  
RADIUS: 38 8A B1 31 72 62 06 40 4F D4 58 48 E8 36 E7 80 [ 81rb@0XH6]  
Jan 30 02:57:21.094: RADIUS(000000FF): Received from id 1645/85  
RADIUS/DECODE: EAP-Message fragments, 6, total 6 bytes  
Jan 30 02:57:21.097: AAA/AUTHEN/LOGIN (000000FF):

Pick method list 'FlexVPN-Authentication-List'

Jan 30 02:57:21.097: RADIUS/ENCODE(000000FF):Orig. component type = VPN IPSEC  
Jan 30 02:57:21.097: RADIUS/ENCODE(000000FF): dropping service type, "radius-server attribute 6 on-for-  
Jan 30 02:57:21.097: RADIUS(000000FF): Config NAS IP: 0.0.0.0  
Jan 30 02:57:21.097: vrfid: [65535] ipv6 tableid : [0]  
Jan 30 02:57:21.097: idb is NULL

Jan 30 02:57:21.097: RADIUS(000000FF): Config NAS IPv6: ::  
Jan 30 02:57:21.097: RADIUS/ENCODE(000000FF): acct\_session\_id: 4245  
Jan 30 02:57:21.097: RADIUS(000000FF): sending  
Jan 30 02:57:21.097: RADIUS/ENCODE: Best Local IP-Address 192.168.30.100 for Radius-Server 192.168.30.1  
Jan 30 02:57:21.097: RADIUS: Message Authenticator encoded  
Jan 30 02:57:21.097: RADIUS(000000FF):

Send Access-Request to 192.168.30.110:1645 id 1645/86, len 316

RADIUS: authenticator 93 07 42 CC D1 90 31 68 - 56 D0 D0 5A 35 C3 67 BC

Jan 30 02:57:21.097: RADIUS: Service-Type [6] 6 Login [1]  
Jan 30 02:57:21.097: RADIUS: Vendor, Cisco [26] 26  
Jan 30 02:57:21.098: RADIUS: Cisco AVpair [1] 20 "service-type=Login"  
Jan 30 02:57:21.098: RADIUS: Vendor, Cisco [26] 36  
Jan 30 02:57:21.098: RADIUS: Cisco AVpair [1] 30

"isakmp-phase1-id=cisco.example"

Jan 30 02:57:21.098: RADIUS: Calling-Station-Id [31] 13 "192.168.50.130"  
Jan 30 02:57:21.098: RADIUS: Vendor, Cisco [26] 64  
Jan 30 02:57:21.098: RADIUS: Cisco AVpair [1] 58 "audit-session-id=L2L42F2F0116Z02L42F2F016FZH1194CAE2Z  
Jan 30 02:57:21.098: RADIUS: User-Name [1] 7

"user1"

Jan 30 02:57:21.098: RADIUS: Vendor, Cisco [26] 21  
Jan 30 02:57:21.098: RADIUS: Cisco AVpair [1] 15 "coa-push=true"  
Jan 30 02:57:21.098: RADIUS: EAP-Message [79] 8  
RADIUS: 02 52 00 06 03 04 [ R]  
Jan 30 02:57:21.098: RADIUS: Message-Authenticato[80] 18  
RADIUS: E0 67 24 D3 BB CF D9 E0 EE 44 98 8A 26 64 AC C9 [ g\$D&d]  
Jan 30 02:57:21.098: RADIUS: State [24] 91  
RADIUS: 35 32 43 50 4D 53 65 73 73 69 6F 6E 49 44 3D 4C [52CPMSessionID=L]  
RADIUS: 32 4C 34 32 46 32 46 30 31 31 36 5A 4F 32 4C 34 [2L42F2F0116Z02L4]  
RADIUS: 32 46 32 46 30 31 36 46 5A 48 31 31 39 34 43 41 [2F2F016FZH1194CA]  
RADIUS: 45 32 5A 4E 31 46 3B 33 31 53 65 73 73 69 6F 6E [E2ZN1F;31Session]  
RADIUS: 49 44 3D 49 53 45 2D 44 49 41 4E 2F 34 39 33 30 [ID=ISE-SERVER/4930]  
RADIUS: 38 30 30 31 38 2F 32 39 3B [ 80018/29;]  
Jan 30 02:57:21.098: RADIUS: NAS-IP-Address [4] 6 192.168.30.100  
Jan 30 02:57:21.098: RADIUS(000000FF): Sending a IPv4 Radius Packet  
Jan 30 02:57:21.099: RADIUS(000000FF): Started 5 sec timeout  
Jan 30 02:57:21.101: RADIUS:

Received from id 1645/86 192.168.30.110:1645, Access-Challenge, len 161

RADIUS: authenticator 42 A3 5F E0 92 13 51 13 - B2 80 56 A3 91 36 BD A1

Jan 30 02:57:21.101: RADIUS: State [24] 91  
RADIUS: 35 32 43 50 4D 53 65 73 73 69 6F 6E 49 44 3D 4C [52CPMSessionID=L]  
RADIUS: 32 4C 34 32 46 32 46 30 31 31 36 5A 4F 32 4C 34 [2L42F2F0116Z02L4]  
RADIUS: 32 46 32 46 30 31 36 46 5A 48 31 31 39 34 43 41 [2F2F016FZH1194CA]  
RADIUS: 45 32 5A 4E 31 46 3B 33 31 53 65 73 73 69 6F 6E [E2ZN1F;31Session]  
RADIUS: 49 44 3D 49 53 45 2D 44 49 41 4E 2F 34 39 33 30 [ID=ISE-SERVER/4930]  
RADIUS: 38 30 30 31 38 2F 32 39 3B [ 80018/29;]  
Jan 30 02:57:21.101: RADIUS: EAP-Message [79] 32  
RADIUS: 01 53 00 1E 04 10 D7 61 AE 69 3B 88 A1 83 E4 EC 0F B6 EF 68 58 16 49 53 45 2D 44 49 41 4E [ Sai  
Jan 30 02:57:21.101: RADIUS: Message-Authenticato[80] 18  
RADIUS: 3E C9 C1 E1 F2 3B 4E 4C DF CF AC 21 AA E9 C3 F0 [ >;NL!]  
Jan 30 02:57:21.101: RADIUS(000000FF): Received from id 1645/86  
RADIUS/DECODE: EAP-Message fragments, 30, total 30 bytes  
Jan 30 02:57:21.103: AAA/AUTHEN/LOGIN (000000FF):

Pick method list 'FlexVPN-Authentication-List'

Jan 30 02:57:21.103: RADIUS/ENCODE(000000FF):Orig. component type = VPN IPSEC  
Jan 30 02:57:21.103: RADIUS/ENCODE(000000FF): dropping service type, "radius-server attribute 6 on-for-  
Jan 30 02:57:21.103: RADIUS(000000FF): Config NAS IP: 0.0.0.0  
Jan 30 02:57:21.103: vrfid: [65535] ipv6 tableid : [0]  
Jan 30 02:57:21.104: idb is NULL  
Jan 30 02:57:21.104: RADIUS(000000FF): Config NAS IPv6: ::  
Jan 30 02:57:21.104: RADIUS/ENCODE(000000FF): acct\_session\_id: 4245  
Jan 30 02:57:21.104: RADIUS(000000FF): sending  
Jan 30 02:57:21.104: RADIUS/ENCODE: Best Local IP-Address 192.168.30.100 for Radius-Server 192.168.30.1  
Jan 30 02:57:21.104: RADIUS: Message Authenticator encoded  
Jan 30 02:57:21.104: RADIUS(000000FF):

Send Access-Request to 192.168.30.110:1645 id 1645/87, len 332

RADIUS: authenticator 89 35 9C C5 06 FB 04 B7 - 4E A3 B2 5F 2B 15 4F 46  
Jan 30 02:57:21.104: RADIUS: Service-Type [6] 6 Login [1]  
Jan 30 02:57:21.104: RADIUS: Vendor, Cisco [26] 26  
Jan 30 02:57:21.104: RADIUS: Cisco AVpair [1] 20 "service-type=Login"  
Jan 30 02:57:21.104: RADIUS: Vendor, Cisco [26] 36  
Jan 30 02:57:21.104: RADIUS: Cisco AVpair [1] 30

"isakmp-phase1-id=cisco.example"

Jan 30 02:57:21.104: RADIUS: Calling-Station-Id [31] 13 "192.168.50.130"  
Jan 30 02:57:21.104: RADIUS: Vendor, Cisco [26] 64  
Jan 30 02:57:21.104: RADIUS: Cisco AVpair [1] 58 "audit-session-id=L2L42F2F0116Z02L42F2F016FZH1194CAE2Z  
Jan 30 02:57:21.104: RADIUS: User-Name [1] 7

"user1"

Jan 30 02:57:21.104: RADIUS: Vendor, Cisco [26] 21  
Jan 30 02:57:21.104: RADIUS: Cisco AVpair [1] 15 "coa-push=true"  
Jan 30 02:57:21.104: RADIUS: EAP-Message [79] 24  
RADIUS: 02 53 00 16 04 10 B0 BB 3E D5 B1 D6 01 FC 9A B7 4A DB AB F7 2F B6 [ S>J/]  
Jan 30 02:57:21.104: RADIUS: Message-Authenticato[80] 18  
RADIUS: 79 43 97 A7 26 17 3E 3B 54 B4 90 D4 76 0F E0 14 [ yC&>Tv]  
Jan 30 02:57:21.104: RADIUS: State [24] 91  
RADIUS: 35 32 43 50 4D 53 65 73 73 69 6F 6E 49 44 3D 4C [52CPMSessionID=L]  
RADIUS: 32 4C 34 32 46 32 46 30 31 31 36 5A 4F 32 4C 34 [2L42F2F0116Z02L4]  
RADIUS: 32 46 32 46 30 31 36 46 5A 48 31 31 39 34 43 41 [2F2F016FZH1194CA]  
RADIUS: 45 32 5A 4E 31 46 3B 33 31 53 65 73 73 69 6F 6E [E2ZN1F;31Session]  
RADIUS: 49 44 3D 49 53 45 2D 44 49 41 4E 2F 34 39 33 30 [ID=ISE-SERVER/4930]  
RADIUS: 38 30 30 31 38 2F 32 39 3B [ 80018/29;]  
Jan 30 02:57:21.104: RADIUS: NAS-IP-Address [4] 6 192.168.30.100  
Jan 30 02:57:21.105: RADIUS(000000FF): Sending a IPv4 Radius Packet  
Jan 30 02:57:21.105: RADIUS(000000FF): Started 5 sec timeout  
Jan 30 02:57:21.170: RADIUS:

Received from id 1645/87 192.168.30.110:1645, Access-Accept, len 233

RADIUS: authenticator 75 F6 05 85 1D A0 C3 EE - F8 81 F9 02 38 AC C1 B6  
Jan 30 02:57:21.170: RADIUS: User-Name [1] 7

"user1"

Jan 30 02:57:21.170: RADIUS: Class [25] 68  
RADIUS: 43 41 43 53 3A 4C 32 4C 34 32 46 32 46 30 31 31 [CACS:L2L42F2F011]



```
RADIUS: 36 5A 4F 32 4C 34 32 46 32 46 30 31 36 46 5A 48 [6Z02L42F2F016FZH]
RADIUS: 31 31 39 34 43 41 45 32 5A 4E 31 46 3A 49 53 45 [1194CAE2ZN1F:ISE]
RADIUS: 2D 44 49 41 4E 2F 34 39 33 30 38 30 30 31 38 2F [-DIAN/493080018/]
RADIUS: 32 39 [ 29]
Jan 30 02:57:21.170: RADIUS: EAP-Message [79] 6
RADIUS: 03 53 00 04 [ S]
Jan 30 02:57:21.170: RADIUS: Message-Authenticato[80] 18
RADIUS: 8A A9 CC 07 61 A2 6D BA E4 EB B5 B7 73 0E EC 28 [ ams()]
Jan 30 02:57:21.170: RADIUS: Vendor, Cisco [26] 37
Jan 30 02:57:21.170: RADIUS: Cisco AVpair [1] 31
```

```
"ipsec:dns-servers=10.0.50.101"
```

```
Jan 30 02:57:21.170: RADIUS: Vendor, Cisco [26] 47
Jan 30 02:57:21.170: RADIUS: Cisco AVpair [1] 41
```

```
"ipsec:route-set=prefix 192.168.100.0/24"
```

```
Jan 30 02:57:21.170: RADIUS: Vendor, Cisco [26] 30
Jan 30 02:57:21.170: RADIUS: Cisco AVpair [1] 24
```

```
"ipsec:addr-pool=group1"
```

```
Jan 30 02:57:21.171: RADIUS(000000FF): Received from id 1645/87
RADIUS/DECODE: EAP-Message fragments, 4, total 4 bytes
Jan 30 02:57:21.175: AAA/BIND(00000100): Bind i/f
Jan 30 02:57:21.175: AAA/AUTHOR (0x100):
```

```
Pick method list 'FlexVPN-Authorization-List'
```

```
Jan 30 02:57:21.176: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access1, changed state to down
Jan 30 02:57:21.192: %SYS-5-CONFIG_P: Configured programmatically by process Crypto INT from console as
Jan 30 02:57:21.376: %LINEPROTO-5-UPDOWN:
```

```
Line protocol on Interface Virtual-Access1, changed state to up
```

- User2: عا طخأ ح ح ص ت ج ا ر خ |

```
<#root>
```

```
Jan 30 03:28:58.102: AAA/BIND(00000103): Bind i/f
Jan 30 03:28:58.102: AAA/AUTHEN/LOGIN (00000103):
```

```
Pick method list 'FlexVPN-Authentication-List'
```

```
Jan 30 03:28:58.103: RADIUS/ENCODE(00000103):Orig. component type = VPN IPSEC
Jan 30 03:28:58.103: RADIUS/ENCODE(00000103): dropping service type, "radius-server attribute 6 on-for-
Jan 30 03:28:58.103: RADIUS(00000103): Config NAS IP: 0.0.0.0
Jan 30 03:28:58.103: vrfid: [65535] ipv6 tableid : [0]
Jan 30 03:28:58.103: idb is NULL
Jan 30 03:28:58.103: RADIUS(00000103): Config NAS IPv6: ::
Jan 30 03:28:58.103: RADIUS/ENCODE(00000103): acct_session_id: 4249
Jan 30 03:28:58.103: RADIUS(00000103): sending
Jan 30 03:28:58.103: RADIUS/ENCODE: Best Local IP-Address 192.168.30.100 for Radius-Server 192.168.30.1
Jan 30 03:28:58.103: RADIUS: Message Authenticator encoded
Jan 30 03:28:58.103: RADIUS(00000103):
```

Send Access-Request to 192.168.30.110:1645 id 1645/88, len 229

RADIUS: authenticator 71 99 09 63 19 F7 D7 0B - 1D A9 4E 64 28 6F A5 64  
Jan 30 03:28:58.103: RADIUS: Service-Type [6] 6 Login [1]  
Jan 30 03:28:58.103: RADIUS: Vendor, Cisco [26] 26  
Jan 30 03:28:58.103: RADIUS: Cisco AVpair [1] 20 "service-type=Login"  
Jan 30 03:28:58.103: RADIUS: Vendor, Cisco [26] 36  
Jan 30 03:28:58.104: RADIUS: Cisco AVpair [1] 30

"isakmp-phase1-id=cisco.example"

Jan 30 03:28:58.104: RADIUS: Calling-Station-Id [31] 13 "192.168.50.130"  
Jan 30 03:28:58.104: RADIUS: Vendor, Cisco [26] 64  
Jan 30 03:28:58.104: RADIUS: Cisco AVpair [1] 58 "audit-session-id=L2L42F2F0116Z02L42F2F016FZH1194E444Z"  
Jan 30 03:28:58.104: RADIUS: User-Name [1] 7

"user2"

Jan 30 03:28:58.104: RADIUS: Vendor, Cisco [26] 21  
Jan 30 03:28:58.104: RADIUS: Cisco AVpair [1] 15 "coa-push=true"  
Jan 30 03:28:58.104: RADIUS: EAP-Message [79] 12  
RADIUS: 02 3B 00 0A 01 75 73 65 72 32 [ ;user2]  
Jan 30 03:28:58.104: RADIUS: Message-Authenticato[80] 18  
RADIUS: 12 62 2F 51 12 FC F7 EC F0 87 E0 34 1E F1 AD E5 [ b/Q4]  
Jan 30 03:28:58.104: RADIUS: NAS-IP-Address [4] 6 192.168.30.100  
Jan 30 03:28:58.104: RADIUS(00000103): Sending a IPv4 Radius Packet  
Jan 30 03:28:58.105: RADIUS(00000103): Started 5 sec timeout  
Jan 30 03:28:58.109: RADIUS:

Received from id 1645/88 192.168.30.110:1645, Access-Challenge, len 137

RADIUS: authenticator 98 04 01 EA CD 9B 1E A9 - DC 6F 2F 17 1F 2A 5F 43  
Jan 30 03:28:58.109: RADIUS: State [24] 91  
RADIUS: 35 32 43 50 4D 53 65 73 73 69 6F 6E 49 44 3D 4C [52CPMSessionID=L]  
RADIUS: 32 4C 34 32 46 32 46 30 31 31 36 5A 4F 32 4C 34 [2L42F2F0116Z02L4]  
RADIUS: 32 46 32 46 30 31 36 46 5A 48 31 31 39 34 45 34 [2F2F016FZH1194E4]  
RADIUS: 34 34 5A 4E 32 30 3B 33 31 53 65 73 73 69 6F 6E [44ZN20;31Session]  
RADIUS: 49 44 3D 49 53 45 2D 44 49 41 4E 2F 34 39 33 30 [ID=ISE-SERVER/4930]  
RADIUS: 38 30 30 31 38 2F 33 30 3B [ 80018/30;]  
Jan 30 03:28:58.110: RADIUS: EAP-Message [79] 8  
RADIUS: 01 35 00 06 0D 20 [ 5 ]  
Jan 30 03:28:58.110: RADIUS: Message-Authenticato[80] 18  
RADIUS: E3 A6 88 B1 B6 3D 93 1F 39 B3 AE 9E EA 1D BB 15 [ =9]  
Jan 30 03:28:58.110: RADIUS(00000103): Received from id 1645/88  
RADIUS/DECODE: EAP-Message fragments, 6, total 6 bytes  
Jan 30 03:28:58.112: AAA/AUTHEN/LOGIN (00000103):

Pick method list 'FlexVPN-Authentication-List'

Jan 30 03:28:58.112: RADIUS/ENCODE(00000103):Orig. component type = VPN IPSEC  
Jan 30 03:28:58.112: RADIUS/ENCODE(00000103): dropping service type, "radius-server attribute 6 on-for-  
Jan 30 03:28:58.112: RADIUS(00000103): Config NAS IP: 0.0.0.0  
Jan 30 03:28:58.112: vrfid: [65535] ipv6 tableid : [0]  
Jan 30 03:28:58.113: idb is NULL  
Jan 30 03:28:58.113: RADIUS(00000103): Config NAS IPv6: ::  
Jan 30 03:28:58.113: RADIUS/ENCODE(00000103): acct\_session\_id: 4249  
Jan 30 03:28:58.113: RADIUS(00000103): sending  
Jan 30 03:28:58.113: RADIUS/ENCODE: Best Local IP-Address 192.168.30.100 for Radius-Server 192.168.30.1  
Jan 30 03:28:58.113: RADIUS: Message Authenticator encoded  
Jan 30 03:28:58.113: RADIUS(00000103):

Send Access-Request to 192.168.30.110:1645 id 1645/89, len 316

RADIUS: authenticator 56 BD F0 9A 4B 16 5C 6C - 4E 41 00 56 8D C0 3A 8C

Jan 30 03:28:58.113: RADIUS: Service-Type [6] 6 Login [1]

Jan 30 03:28:58.113: RADIUS: Vendor, Cisco [26] 26

Jan 30 03:28:58.113: RADIUS: Cisco AVpair [1] 20 "service-type=Login"

Jan 30 03:28:58.113: RADIUS: Vendor, Cisco [26] 36

Jan 30 03:28:58.113: RADIUS: Cisco AVpair [1] 30

"isakmp-phrase1-id=cisco.example"

Jan 30 03:28:58.113: RADIUS: Calling-Station-Id [31] 13 "192.168.50.130"

Jan 30 03:28:58.113: RADIUS: Vendor, Cisco [26] 64

Jan 30 03:28:58.113: RADIUS: Cisco AVpair [1] 58 "audit-session-id=L2L42F2F0116Z02L42F2F016FZH1194E444Z"

Jan 30 03:28:58.113: RADIUS: User-Name [1] 7

"user2"

Jan 30 03:28:58.113: RADIUS: Vendor, Cisco [26] 21

Jan 30 03:28:58.113: RADIUS: Cisco AVpair [1] 15 "coa-push=true"

Jan 30 03:28:58.113: RADIUS: EAP-Message [79] 8

RADIUS: 02 35 00 06 03 04 [ 5]

Jan 30 03:28:58.113: RADIUS: Message-Authenticato[80] 18

RADIUS: 47 1F 36 A7 C3 9B 90 6E 03 2C B8 D7 FE A7 13 44 [ G6n,D]

Jan 30 03:28:58.113: RADIUS: State [24] 91

RADIUS: 35 32 43 50 4D 53 65 73 73 69 6F 6E 49 44 3D 4C [52CPMSessionID=L]

RADIUS: 32 4C 34 32 46 32 46 30 31 31 36 5A 4F 32 4C 34 [2L42F2F0116Z02L4]

RADIUS: 32 46 32 46 30 31 36 46 5A 48 31 31 39 34 45 34 [2F2F016FZH1194E4]

RADIUS: 34 34 5A 4E 32 30 3B 33 31 53 65 73 73 69 6F 6E [44ZN20;31Session]

RADIUS: 49 44 3D 49 53 45 2D 44 49 41 4E 2F 34 39 33 30 [ID=ISE-SERVER/4930]

RADIUS: 38 30 30 31 38 2F 33 30 3B [ 80018/30;]

Jan 30 03:28:58.114: RADIUS: NAS-IP-Address [4] 6 192.168.30.100

Jan 30 03:28:58.114: RADIUS(00000103): Sending a IPv4 Radius Packet

Jan 30 03:28:58.114: RADIUS(00000103): Started 5 sec timeout

Jan 30 03:28:58.116: RADIUS:

Received from id 1645/89 192.168.30.110:1645, Access-Challenge, len 161

RADIUS: authenticator 84 A3 30 3D 80 BC 71 42 - 1B 9B 49 EF 0B 1B 02 02

Jan 30 03:28:58.116: RADIUS: State [24] 91

RADIUS: 35 32 43 50 4D 53 65 73 73 69 6F 6E 49 44 3D 4C [52CPMSessionID=L]

RADIUS: 32 4C 34 32 46 32 46 30 31 31 36 5A 4F 32 4C 34 [2L42F2F0116Z02L4]

RADIUS: 32 46 32 46 30 31 36 46 5A 48 31 31 39 34 45 34 [2F2F016FZH1194E4]

RADIUS: 34 34 5A 4E 32 30 3B 33 31 53 65 73 73 69 6F 6E [44ZN20;31Session]

RADIUS: 49 44 3D 49 53 45 2D 44 49 41 4E 2F 34 39 33 30 [ID=ISE-SERVER/4930]

RADIUS: 38 30 30 31 38 2F 33 30 3B [ 80018/30;]

Jan 30 03:28:58.116: RADIUS: EAP-Message [79] 32

RADIUS: 01 36 00 1E 04 10 EB 9F A5 AC 70 1F 4D D6 48 05 9D EC 1F 29 67 AE 49 53 45 2D 44 49 41 4E [ 6pM]

Jan 30 03:28:58.116: RADIUS: Message-Authenticato[80] 18

RADIUS: 08 5E BC EF E5 38 50 CD FB 3C B3 E9 99 0A 51 B3 [ ^8P<Q]

Jan 30 03:28:58.116: RADIUS(00000103): Received from id 1645/89

RADIUS/DECODE: EAP-Message fragments, 30, total 30 bytes

Jan 30 03:28:58.118: AAA/AUTHEN/LOGIN (00000103):

Pick method list 'FlexVPN-Authentication-List'

Jan 30 03:28:58.118: RADIUS/ENCODE(00000103):Orig. component type = VPN IPSEC

Jan 30 03:28:58.118: RADIUS/ENCODE(00000103): dropping service type, "radius-server attribute 6 on-for-

Jan 30 03:28:58.118: RADIUS(00000103): Config NAS IP: 0.0.0.0

Jan 30 03:28:58.118: vrfid: [65535] ipv6 tableid : [0]

Jan 30 03:28:58.118: idb is NULL  
Jan 30 03:28:58.118: RADIUS(00000103): Config NAS IPv6: ::  
Jan 30 03:28:58.118: RADIUS/ENCODE(00000103): acct\_session\_id: 4249  
Jan 30 03:28:58.118: RADIUS(00000103): sending  
Jan 30 03:28:58.118: RADIUS/ENCODE: Best Local IP-Address 192.168.30.100 for Radius-Server 192.168.30.1  
Jan 30 03:28:58.119: RADIUS: Message Authenticator encoded  
Jan 30 03:28:58.119: RADIUS(00000103):

Send Access-Request to 192.168.30.110:1645 id 1645/90, len 332

RADIUS: authenticator A1 62 1A FB 18 58 7B 47 - 5C 8A 64 FA B7 23 9B BE  
Jan 30 03:28:58.119: RADIUS: Service-Type [6] 6 Login [1]  
Jan 30 03:28:58.119: RADIUS: Vendor, Cisco [26] 26  
Jan 30 03:28:58.119: RADIUS: Cisco AVpair [1] 20 "service-type=Login"  
Jan 30 03:28:58.119: RADIUS: Vendor, Cisco [26] 36  
Jan 30 03:28:58.119: RADIUS: Cisco AVpair [1] 30

"isakmp-phase1-id=cisco.example"

Jan 30 03:28:58.119: RADIUS: Calling-Station-Id [31] 13 "192.168.50.130"  
Jan 30 03:28:58.119: RADIUS: Vendor, Cisco [26] 64  
Jan 30 03:28:58.119: RADIUS: Cisco AVpair [1] 58 "audit-session-id=L2L42F2F0116Z02L42F2F016FZH1194E444Z"  
Jan 30 03:28:58.119: RADIUS: User-Name [1] 7

"user2"

Jan 30 03:28:58.119: RADIUS: Vendor, Cisco [26] 21  
Jan 30 03:28:58.119: RADIUS: Cisco AVpair [1] 15 "coa-push=true"  
Jan 30 03:28:58.119: RADIUS: EAP-Message [79] 24  
RADIUS: 02 36 00 16 04 10 73 B7 F2 42 09 5B AB 21 D8 77 96 A2 F7 C7 83 AD [ 6sB[!w]  
Jan 30 03:28:58.119: RADIUS: Message-Authenticato[80] 18  
RADIUS: B1 68 3C 25 9E FE 52 13 10 69 E6 BB 17 67 6F 18 [ h<?Rigo]  
Jan 30 03:28:58.119: RADIUS: State [24] 91  
RADIUS: 35 32 43 50 4D 53 65 73 73 69 6F 6E 49 44 3D 4C [52CPMSessionID=L]  
RADIUS: 32 4C 34 32 46 32 46 30 31 31 36 5A 4F 32 4C 34 [2L42F2F0116Z02L4]  
RADIUS: 32 46 32 46 30 31 36 46 5A 48 31 31 39 34 45 34 [2F2F016FZH1194E4]  
RADIUS: 34 34 5A 4E 32 30 3B 33 31 53 65 73 73 69 6F 6E [44ZN20;31Session]  
RADIUS: 49 44 3D 49 53 45 2D 44 49 41 4E 2F 34 39 33 30 [ID=ISE-SERVER/4930]  
RADIUS: 38 30 30 31 38 2F 33 30 3B [ 80018/30;]  
Jan 30 03:28:58.119: RADIUS: NAS-IP-Address [4] 6 192.168.30.100  
Jan 30 03:28:58.119: RADIUS(00000103): Sending a IPv4 Radius Packet  
Jan 30 03:28:58.119: RADIUS(00000103): Started 5 sec timeout  
Jan 30 03:28:58.186: RADIUS: Received from id 1645/90 192.168.30.110:1645, Access-Accept, len 233  
RADIUS: authenticator 48 A5 A0 11 ED B8 C2 87 - 35 30 17 D5 6D D7 B4 FD  
Jan 30 03:28:58.186: RADIUS: User-Name [1] 7

"user2"

Jan 30 03:28:58.186: RADIUS: Class [25] 68  
RADIUS: 43 41 43 53 3A 4C 32 4C 34 32 46 32 46 30 31 31 [CACS:L2L42F2F011]  
RADIUS: 36 5A 4F 32 4C 34 32 46 32 46 30 31 36 46 5A 48 [6Z02L42F2F016FZH]  
RADIUS: 31 31 39 34 45 34 34 34 5A 4E 32 30 3A 49 53 45 [1194E444ZN20:ISE]  
RADIUS: 2D 44 49 41 4E 2F 34 39 33 30 38 30 30 31 38 2F [-DIAN/493080018/]  
RADIUS: 33 30 [ 30]  
Jan 30 03:28:58.186: RADIUS: EAP-Message [79] 6  
RADIUS: 03 36 00 04 [ 6]  
Jan 30 03:28:58.186: RADIUS: Message-Authenticato[80] 18  
RADIUS: 9E A6 D9 56 40 C8 EB 08 69 8C E1 35 35 53 18 83 [ V@i55S]  
Jan 30 03:28:58.187: RADIUS: Vendor, Cisco [26] 37  
Jan 30 03:28:58.187: RADIUS: Cisco AVpair [1] 31

"ipsec:dns-servers=10.0.50.202"

Jan 30 03:28:58.187: RADIUS: Vendor, Cisco [26] 47

Jan 30 03:28:58.187: RADIUS: Cisco AVpair [1] 41

"ipsec:route-set=prefix 192.168.200.0/24"

Jan 30 03:28:58.187: RADIUS: Vendor, Cisco [26] 30

Jan 30 03:28:58.187: RADIUS: Cisco AVpair [1] 24

"ipsec:addr-pool=group2"

Jan 30 03:28:58.187: RADIUS(00000103): Received from id 1645/90

RADIUS/DECODE: EAP-Message fragments, 4, total 4 bytes

Jan 30 03:28:58.190: AAA/BIND(00000104): Bind i/f

Jan 30 03:28:58.190: AAA/AUTHOR (0x104):

Pick method list 'FlexVPN-Authorization-List'

Jan 30 03:28:58.192: %LINEPROTO-5-UPDOWN: Line protocol on Interface Virtual-Access2, changed state to

Jan 30 03:28:58.209: %SYS-5-CONFIG\_P: Configured programmatically by process Crypto INT from console as

Jan 30 03:28:58.398: %LINEPROTO-5-UPDOWN:

Line protocol on Interface Virtual-Access2, changed state to up

## ةلص تاذا تامول عم

- [Cisco نيم تاليزنت لاولي نفل ا مع دل ا](#)

ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسمل اذ ه Cisco ت مچرت  
ملاعلاء ان ا عي مچ ي ف ن ي م دخت سمل ل معد ي و تح م مي دقت ل ة ي رش ب ل و  
امك ة ق ي قد ن و ك ت ن ل ة ي ل ة مچرت ل ض ف ا ن ا ة ظ حال م ي ج ر ي . ة ص ا خ ل م ه ت غ ل ب  
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا ع م ل ا ح ل ا و ه  
ي ل ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco  
Systems (رف و ت م ط بار ل ا) ي ل ص ا ل ا ي ز ي ل ج ن ا ل ا دن تسمل ا