

# Configurer l'attribution d'adresses IP statiques aux utilisateurs AnyConnect via l'autorisation RADIUS

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## Introduction

Ce document décrit comment configurer l'autorisation RADIUS avec un serveur ISE (Identity Services Engine) afin qu'il transfère toujours la même adresse IP à Firepower Threat Defense (FTD) pour un utilisateur spécifique du client Cisco AnyConnect Secure Mobility via l'adresse IP tramée RADIUS Attribute 8.

## Conditions préalables

### Conditions requises

Cisco vous recommande de prendre connaissance des rubriques suivantes :

- FTD
- Firepower Management Center (FMC)
- ISE
- Client de mobilité sécurisée Cisco AnyConnect
- protocole RADIUS

### Components Used

Les informations contenues dans ce document sont basées sur les versions de logiciel suivantes :

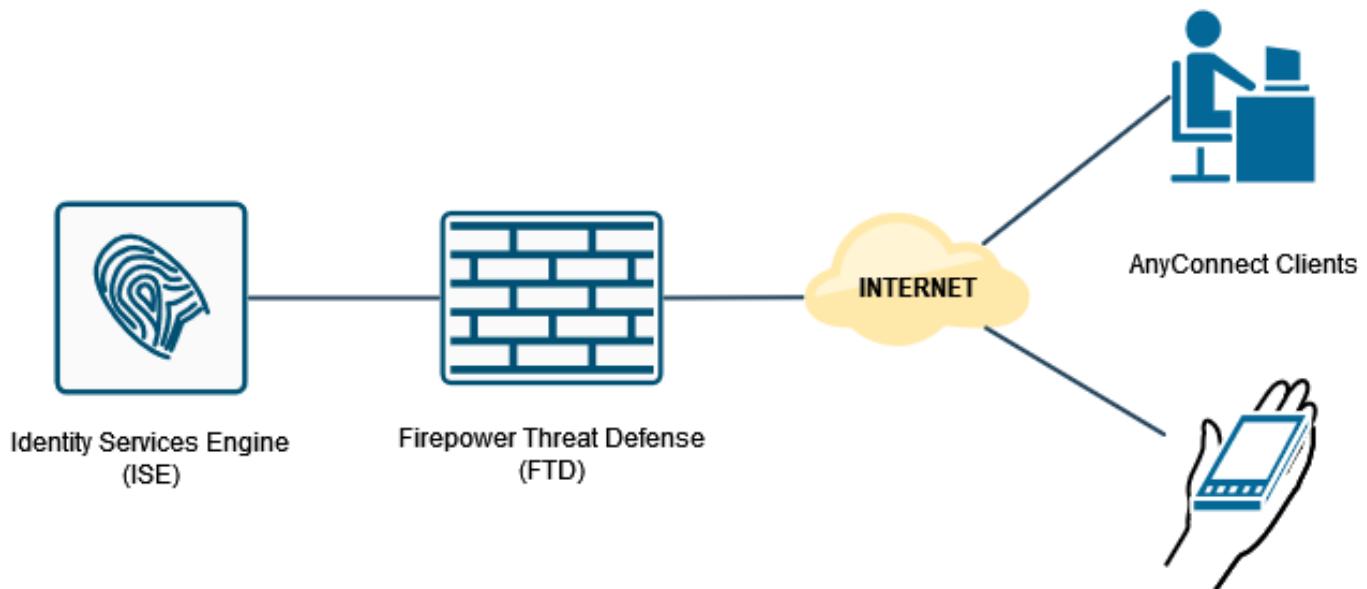
- FMCv - 7.0.0 (build 94)
- FTDb - 7.0.0 (build 94)
- ISE - 2.7.0.356
- AnyConnect - 4.10.02086

- Windows 10 Pro

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Si votre réseau est en ligne, assurez-vous de bien comprendre l'incidence possible des commandes.

## Configuration

### Diagramme du réseau



### Configuration du VPN d'accès à distance avec authentification AAA/RADIUS via FMC

Pour une procédure pas à pas, reportez-vous à ce document et à cette vidéo :

- [Configuration VPN d'accès à distance AnyConnect sur FTD](#)
- [Configuration AnyConnect initiale pour FTD géré par FMC](#)

La configuration VPN d'accès à distance sur l'interface CLI FTD est la suivante :

```

ip local pool AC_Pool 10.0.50.1-10.0.50.100 mask 255.255.255.0

interface GigabitEthernet0/0
nameif Outside_Int
security-level 0
ip address 192.168.0.100 255.255.255.0

aaa-server ISE_Server protocol radius
aaa-server ISE_Server host 172.16.0.8
key *****
authentication-port 1812
accounting-port 1813

crypto ca trustpoint RAVPN_Self-Signed_Cert
enrollment self
fqdn none
  
```

```

subject-name CN=192.168.0.100
keypair <Default-RSA-Key>
crl configure

ssl trust-point RAVPN_Self-Signed_Cert

webvpn
enable Outside_Int
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
anyconnect image disk0:/csm/anyconnect-win-4.10.02086-webdeploy-k9.pkg 1 regex "Windows"
anyconnect enable
tunnel-group-list enable
cache
no disable
error-recovery disable

group-policy DfltGrpPolicy attributes
vpn-tunnel-protocol ikev2 ssl-client
user-authentication-idle-timeout none
webvpn
anyconnect keep-installer none
anyconnect modules value none
anyconnect ask none default anyconnect
http-comp none
activex-relay disable
file-entry disable
file-browsing disable
url-entry disable
deny-message none

tunnel-group RA_VPN type remote-access
tunnel-group RA_VPN general-attributes
address-pool AC_Pool
authentication-server-group ISE_Server
tunnel-group RA_VPN webvpn-attributes
groupAlias RA_VPN enable

```

## Configurer la stratégie d'autorisation sur ISE (serveur RADIUS)

Étape 1. Connectez-vous au serveur ISE et accédez à **Administration > Network Resources > Network Devices**.

The screenshot shows the ISE dashboard with several key sections:

- METRICS**: Displays "Total Endpoints 0" and "Active Endpoints 0".
- AUTHENTICATIONS**: Shows a donut chart for "inter...users: [100%]".
- BYOD ENDPOINTS**: Shows a message "No data available."
- ALARMS**: Lists an alarm for "DNS Resolution Failure" with 941 occurrences in the last 24 hours.
- SYSTEM SUMMARY**: Shows 1 node(s) with "driverap-ISE-2-7" selected, monitoring CPU, Memory Usage, and Authentication Latency.

A red box highlights the "Administration" menu at the top, and another red box highlights the "Network Resources" section under "Administration".

Étape 2. Dans la section Périphériques réseau, cliquez sur Ajouter pour qu'ISE puisse traiter les demandes d'accès RADIUS à partir du FTD.

The screenshot shows the "Network Devices" configuration page in ISE:

- The left sidebar includes "Default Device" and "Device Security Settings".
- The main area is titled "Network Devices" and shows a table with one entry: "DRIVERAP\_AS5506" (IP: 172.16.255.2, Profile: Caco).
- At the top of the table, there are buttons for "Edit", "Add" (highlighted with a red box), "Duplicate", "Import", "Export", "Generate PAC", and "Delete".

Entrez les champs **Nom du périphérique réseau** et **Adresse IP**, puis cochez la case **Paramètres d'authentification RADIUS**. Le **secret partagé** doit être la même valeur que celle utilisée lors de la création de l'objet RADIUS Server sur FMC.

\* Name: DRIVERAP\_FTD\_70

\* IP Address: 192.168.0.100

\* Device Profile: Cisco

\* Network Device Group

Location: All Locations

IPSEC: Is IPSEC Device

Device Type: All Device Types

RADIUS Authentication Settings

RADIUS UDP Settings

Protocol: RADIUS

\* Shared Secret: \*\*\*\*\*

Use Second Shared Secret:

CoA Port: 1700

RADIUS DTLS Settings

DTLS Required:

Enregistrez-le avec le bouton à la fin de cette page.

### Étape 3. Accédez à Administration > Identity Management > Identities.

Administration

System

Network Resources

pxGrid Services

Network Devices

Feed Service

Licensing

Profil

Certificates

External RADUS Servers

Threat Centric NAC

Logging

NAC Managers

Third Party Vendors

Maintenance

External Device Profiles

Upgrade

External RADUS Sequences

Location Services

Backup & Restore

NAC Managers

Custom Portal Files

Admin Access

Mobile Device Management

Settings

Identity Management

Groups

Client Provisioning

Identity Source Sequences

My Devices

Custom Portal Files

Settings

Identities

Blacklist

BYOD

Certificate Provisioning

External Identity Sources

Mobile Device Management

Identity Source Sequences

My Devices

Custom Portal Files

Settings

https://10.31.124.31:6012/admin/#administration\_identitymanagement\_identities

Étape 4. Dans la section Network Access Users, cliquez sur Add afin de créer user1 dans la base de données locale d'ISE.

The screenshot shows the 'Identity Services Engine' interface. In the top navigation bar, 'Administration' is selected. On the left sidebar, 'Identites' and 'Users' are highlighted with red boxes. The main content area displays a table titled 'Network Access Users' with the following columns: Status, Name, Description, First Name, Last Name, Email Address, User Identity Groups, and Admin. A red box highlights the '+Add' button in the top-left corner of the table header. The bottom right corner of the table shows a 'Selected 0 | Total 1' message.

Entrez le nom d'utilisateur et le mot de passe dans les champs **Nom** et **Mot de passe de connexion**, puis cliquez sur **Envoyer**.

The screenshot shows the 'New Network Access User' creation form. The 'Name' field is populated with 'user1' and has a red box around it. The 'Password Type' dropdown is set to 'Internal Users'. The 'Login Password' and 'Re-Enter Password' fields both contain '\*\*\*\*\*' and have a red box around them. The 'Description' field is empty. The 'Submit' button at the bottom has a red box around it.

Étape 5. Répétez les étapes précédentes afin de créer *user2*.

The screenshot shows the Identity Services Engine interface. The top navigation bar includes links for Home, Context Visibility, Operations, Policy, Administration, and Work Centers. Below this, a secondary navigation bar shows System, Identity Management, Network Resources, Device Portal Management, pxGrid Services, Feed Service, and Threat Centric NAC. The main content area is titled "Network Access Users" and displays a table with three rows. The columns are Status, Name, Description, First Name, Last Name, Email Address, User Identity Groups, and Admin. The rows are: 1. Enabled, driverap, (empty), (empty), (empty), (empty), (empty). 2. Enabled, user1, (empty), (empty), (empty), (empty), (empty). 3. Enabled, user2, (empty), (empty), (empty), (empty), (empty). A red box highlights the "Enabled" status of the first row.

## Étape 6. Accédez à Stratégie > Jeux de stratégies.

The screenshot shows the Identity Services Engine interface. The top navigation bar and secondary navigation bar are identical to the previous screenshot. The main content area is titled "Policy Sets" and displays a table with three rows. The columns are Status, Name, Description, First Name, Last Name, Email Address, User Identity Groups, and Admin. The rows are: 1. Enabled, driverap, (empty), (empty), (empty), (empty), (empty). 2. Enabled, user1, (empty), (empty), (empty), (empty), (empty). 3. Enabled, user2, (empty), (empty), (empty), (empty), (empty). A red box highlights the "Enabled" status of the first row.

[https://10.31.124.31:6012/admin/#policy/grouping\\_new](https://10.31.124.31:6012/admin/#policy/grouping_new)

## Étape 7. Cliquez sur la flèche > à droite de l'écran.

Étape 8. Cliquez sur la flèche > en regard de **Stratégie d'autorisation** pour la développer. Cliquez maintenant sur le symbole + afin d'ajouter une nouvelle règle.

Status	Rule Name	Conditions	Results	Profiles	Security Groups	Hits	Actions
<input checked="" type="checkbox"/>	Wireless Black List Default	AND IdentityGroup Name EQUALS Endpoint Identity Groups Blacklist		<input type="checkbox"/> Blackhole_Wireless_Access	<input type="checkbox"/> Select from list	0	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Profiled Cisco IP Phones	IdentityGroup Name EQUALS Endpoint Identity Groups Profiled Cisco-IP-Phone		<input type="checkbox"/> Cisco_IP_Phones	<input type="checkbox"/> Select from list	0	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Profiled Non Cisco IP Phones	Non_Cisco_Profiled_Phones		<input type="checkbox"/> Non_Cisco_IP_Phones	<input type="checkbox"/> Select from list	0	<input type="checkbox"/>
<input checked="" type="checkbox"/>	Unknown_Compliance_Redirect	AND Network_Access_Authentication_Passed Compliance_Unknown_Devices		<input type="checkbox"/> Cisco_Temporal_Onboard	<input type="checkbox"/> Select from list	0	<input type="checkbox"/>
<input checked="" type="checkbox"/>	NonCompliant_Devices_Redirect	AND Network_Access_Authentication_Passed Non_Compliant_Devices		<input type="checkbox"/> Cisco_Temporal_Onboard	<input type="checkbox"/> Select from list	0	<input type="checkbox"/>

Entrez un nom pour la règle et sélectionnez le symbole + dans la colonne Conditions.

Status	Rule Name	Conditions	Results	Profiles	Security Groups	Hits	Actions
<input checked="" type="checkbox"/>	Static IP Address User 1			<input type="checkbox"/> Select from list	<input type="checkbox"/> +	0	<input type="checkbox"/>

Cliquez dans la zone de texte Éditeur d'attributs et cliquez sur l'icône **Objet**. Faites défiler la liste vers le bas jusqu'à ce que vous trouviez l'attribut *Nom d'utilisateur RADIUS* et que vous le choisissez.

Conditions Studio

Library

Editor

Click to add an attribute

Select attribute for condition

Dictionary Attribute ID Info

All Dictionaries Attribute ID

Dictionary	Attribute	ID	Info
Microsoft	MS-HCAP-User-Name	60	(i)
Motorola-Symbol	Symbol-User-Group	12	(i)
Network Access	AD-User-DNS-Domain		(i)
Network Access	AD-User-Join-Point		(i)
Network Access	UserName		(i)
PassiveID	PassiveID_Username		(i)
Radius	User-Name	1	(i)
Radius	User-Password	2	(i)
Ruckus	Ruckus-User-Groups	1	(i)

**Close** **Use**

Conservez **Equals** en tant qu'opérateur et entrez *user1* dans la zone de texte à côté. Cliquez sur **Use** afin d'enregistrer l'attribut.

Conditions Studio

**Library**

Search by Name

**Editor**

Radius-User-Name

Equals user1

Set to 'Is not'

Duplicate Save

+ New AND OR

Close Use

La condition de cette règle est maintenant définie.

Étape 9. Dans la colonne **Résultats/Profils**, cliquez sur le symbole + et choisissez **Créer un nouveau profil d'autorisation**.

Authorization Policy (13)

Status	Rule Name	Conditions	Results	Profiles	Security Groups	Hits	Actions
	Static IP Address User 1	Radius-User-Name EQUALS user1		Select from list		Select from list	
<a href="#">Create a New Authorization Profile</a>							

Donnez-lui un **nom** et conservez **ACCESS\_ACCEPT** comme **type d'accès**. Faites défiler jusqu'à la section **Paramètres des attributs avancés**.

Add New Standard Profile

**Authorization Profile**

- \* Name
- Description
- \* Access Type

**Network Device Profile**

- Service Template
- Track Movement
- Passive Identity Tracking

**Common Tasks**

- DACL Name
- IPv6 DACL Name
- ACL (Filter-ID)
- ACL IPv6 (Filter-ID)

**Advanced Attributes Settings**

Radius:

Save  Cancel

Cliquez sur la flèche orange et choisissez Radius > Framed-IP-Address—[8].

Add New Standard Profile

Service Template

Track Movement

Passive Identity Tracking

**Common Tasks**

- DACL Name
- IPv6 DACL Name
- ACL (Filter-ID)
- ACL IPv6 (Filter-ID)

**Advanced Attributes Setting** Radius:

**Radius**

Framed-IP-Address—[8] is highlighted with a red box.

**Attributes Details**

Access Type = ACCESS\_ACCEPT  
Framed-IP-Address =

Save  Cancel

Tapez l'adresse IP que vous souhaitez affecter de manière statique à cet utilisateur et cliquez sur Enregister.

Add New Standard Profile

Service Template

Track Movement

Passive Identity Tracking

**Common Tasks**

- Airespace IPv6 ACL Name
- ASA VPN
- AVC Profile Name
- UPN Lookup

**Advanced Attributes Settings**

Radius:Framed-IP-Address = **10.0.50.101**

**Attributes Details**

Access Type = ACCESS\_ACCEPT  
Framed-IP-Address = 10.0.50.101

**Save** **Cancel**

Étape 10. Sélectionnez maintenant le profil d'autorisation nouvellement créé.

Authorization Policy (13)

Status	Rule Name	Conditions	Results
<input checked="" type="checkbox"/>	Static IP Address User 1	Radius User-Name EQUALS user1	<b>Select from list</b>
<input checked="" type="checkbox"/>	Wireless Black List Default	AND	Wireless_Access
<input checked="" type="checkbox"/>	Profiled Cisco IP Phones	IdentityGroup Name EQUALS Endpoint Identity Groups Blacklist	DenyAccess
<input checked="" type="checkbox"/>	Profiled Non Cisco IP Phones	IdentityGroup Name EQUALS Endpoint Identity Groups Profiled Cisco-IP-Phone	NSP_Onboard
<input checked="" type="checkbox"/>		Non_Cisco_Profiled_Phones	Non_Cisco_IP_Phones
<input checked="" type="checkbox"/>			PermitAccess
<input checked="" type="checkbox"/>			<b>StaticIPAddressUser1</b>
<input checked="" type="checkbox"/>			Static_IP_address

La règle d'autorisation est maintenant définie. Click **Save**.

Identity Services Engine Home > Context Visibility > Operations > Policy > Administration > Work Centers

Policy Sets → Default

Status	Policy Set Name	Description	Conditions	Results
<input checked="" type="checkbox"/>	Default	Default policy set		<b>Select from list</b>

Authentication Policy (3)

Authorization Policy - Local Exceptions

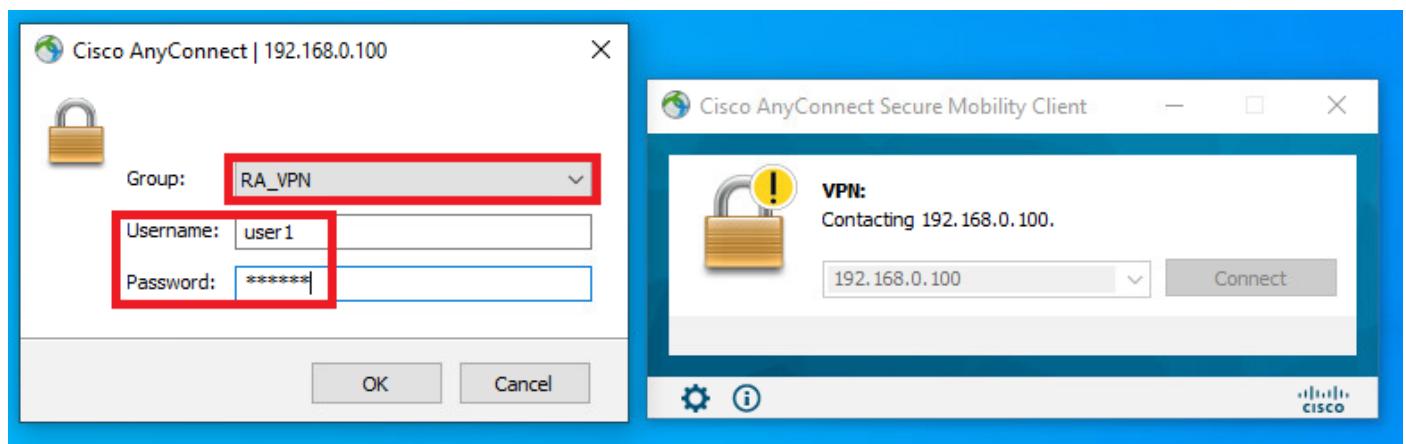
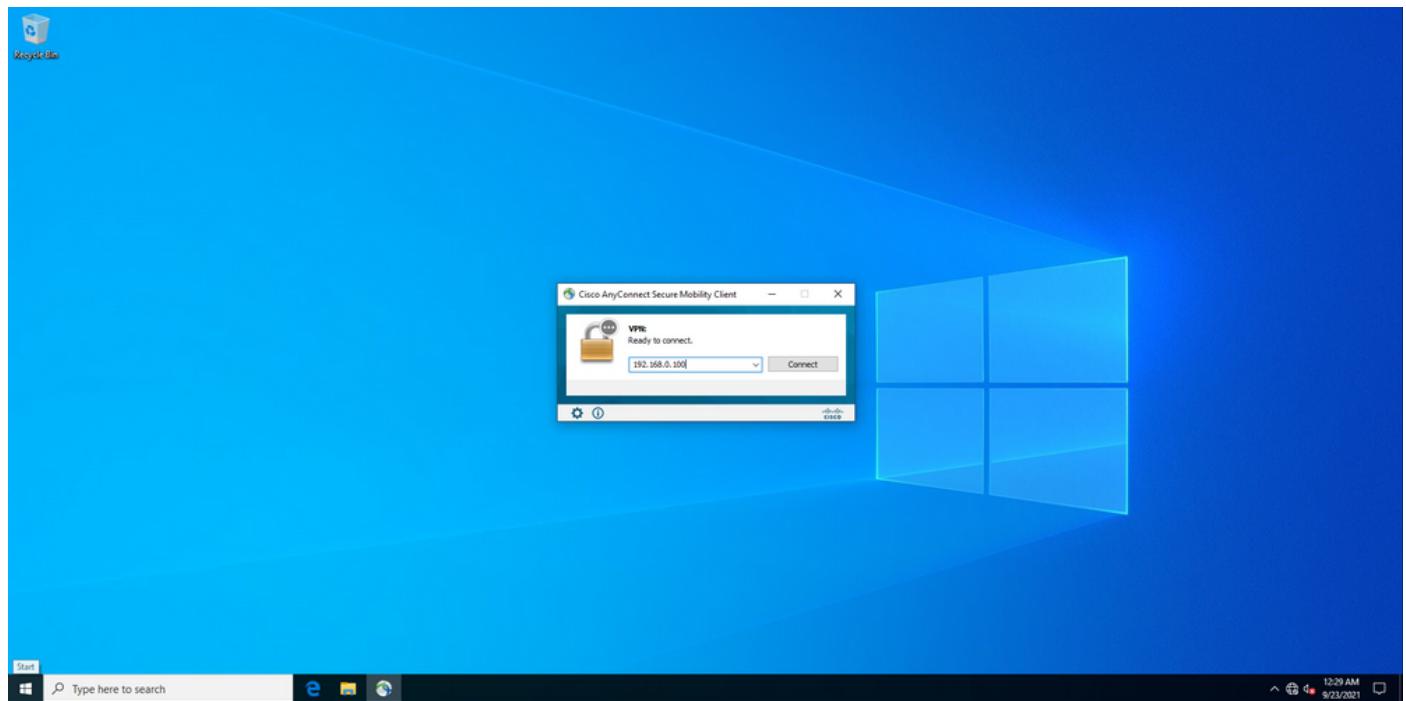
Authorization Policy - Global Exceptions

Authorization Policy (13)

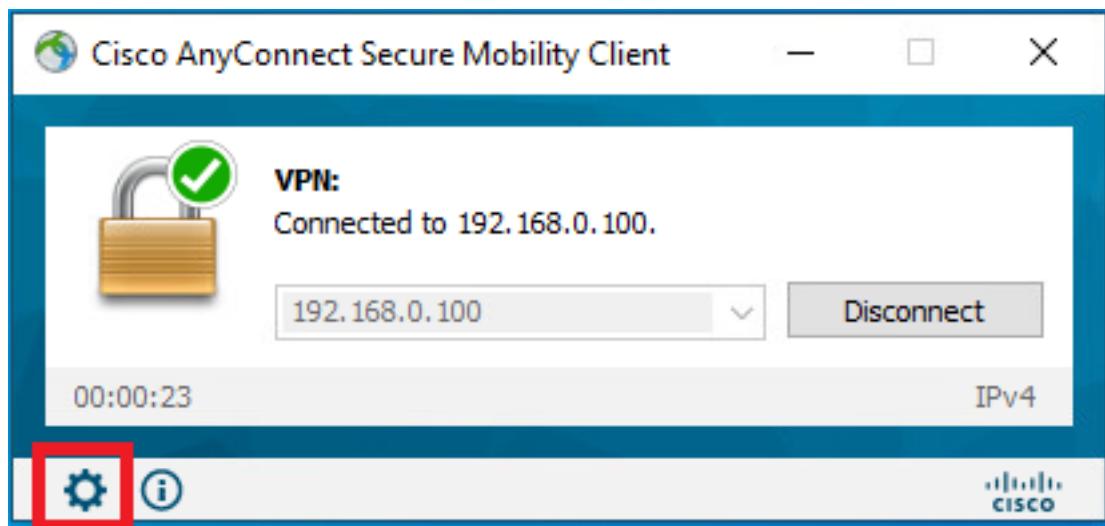
Status	Rule Name	Conditions	Results
<input checked="" type="checkbox"/>	Static IP Address User 1	Radius User-Name EQUALS user1	<b>Select from list</b>

## Vérification

Étape 1. Accédez à la machine cliente sur laquelle le client Cisco AnyConnect Secure Mobility est installé. Connectez-vous à votre tête de réseau FTD (un ordinateur Windows est utilisé ici) et entrez les informations d'identification *user1*.



Cliquez sur l'icône du rapport (coin inférieur gauche) et accédez à l'onglet **Statistiques**. Confirmez dans la section **Address Information** que l'adresse IP attribuée est effectivement celle configurée sur la stratégie d'autorisation ISE pour cet utilisateur.



The screenshot shows the Cisco AnyConnect Secure Mobility Client interface. At the top, there's a header bar with the Cisco logo and the title "AnyConnect Secure Mobility Client". Below the header, a tab bar includes "Virtual Private Network (VPN)", "Diagnostics...", "Preferences", "Statistics", "Route Details", "Firewall", and "Message History". The main content area displays "Connection Information" and "Address Information". Under "Connection Information", the state is "Connected" and tunnel mode is set to "Tunnel All Traffic". Under "Address Information", the client IP is highlighted with a red box and is listed as "10.0.50.101". Other details include "Client (IPv6): Not Available", "Server: 192.168.0.100", and "Bytes: -----". At the bottom right are "Reset" and "Export Stats..." buttons.

La sortie de la commande **debug radius all** sur FTD affiche :

```
firepower# SVC message: t/s=5/16: The user has requested to disconnect the connection.  
webvpn_svc_np_tear_down: no ACL  
webvpn_svc_np_tear_down: no IPv6 ACL  
np_svc_destroy_session(0x9000)  
radius mkreq: 0x13  
alloc_rip 0x0000145d043b6460  
new request 0x13 --> 3 (0x0000145d043b6460)  
got user 'user1'  
got password  
add_req 0x0000145d043b6460 session 0x13 id 3  
RADIUS_REQUEST  
radius.c: rad_mkpkt  
rad_mkpkt: ip:source-ip=192.168.0.101  
  
RADIUS packet decode (authentication request)  
  
RADIUS packet decode (response)  
-----  
Raw packet data (length = 136).....
```

```

02 03 00 88 0c af 1c 41 4b c4 a6 58 de f3 92 31 | ....AK..X...1
7d aa 38 1e 01 07 75 73 65 72 31 08 06 0a 00 32 | }.8....user1....2
65 19 3d 43 41 43 53 3a 63 30 61 38 30 30 36 34 | e.=CACS:c0a80064
30 30 30 30 61 30 30 36 31 34 62 63 30 32 64 | 0000a000614bc02d
3a 64 72 69 76 65 72 61 70 2d 49 53 45 2d 32 2d | :driverap-ISE-2-
37 2f 34 31 37 34 39 34 39 37 38 2f 32 31 1a 2a | 7/417494978/21.*
00 00 00 09 01 24 70 72 6f 66 69 6c 65 2d 6e 61 | .....$profile-na
6d 65 3d 57 69 6e 64 6f 77 73 31 30 2d 57 6f 72 | me=Windows10-Wor
6b 73 74 61 74 69 6f 6e | kstation

```

Parsed packet data.....

```

Radius: Code = 2 (0x02)
Radius: Identifier = 3 (0x03)
Radius: Length = 136 (0x0088)
Radius: Vector: 0CAF1C414BC4A658DEF392317DAA381E
Radius: Type = 1 (0x01) User-Name
Radius: Length = 7 (0x07)
Radius: Value (String) =
75 73 65 72 31 | user1
Radius: Type = 8 (0x08) Framed-IP-Address
Radius: Length = 6 (0x06)
Radius: Value (IP Address) = 10.0.50.101 (0x0A003265)
Radius: Type = 25 (0x19) Class
Radius: Length = 61 (0x3D)
Radius: Value (String) =
43 41 43 53 3a 63 30 61 38 30 30 36 34 30 30 30 | CACS:c0a80064000
30 61 30 30 36 31 34 62 63 30 32 64 3a 64 72 | 0a000614bc02d:dr
69 76 65 72 61 70 2d 49 53 45 2d 32 2d 37 2f 34 | iverap-ISE-2-7/4
31 37 34 39 34 39 37 38 2f 32 31 | 17494978/21
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 42 (0x2A)
Radius: Vendor ID = 9 (0x00000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 36 (0x24)
Radius: Value (String) =
70 72 6f 66 69 6c 65 2d 6e 61 6d 65 3d 57 69 6e | profile-name=Win
64 6f 77 73 31 30 2d 57 6f 72 6b 73 74 61 74 69 | dows10-Workstati
6f 6e | on
rad_procpkt: ACCEPT
Got AV-Pair with value profile-name=Windows10-Workstation
RADIUS_ACCESS_ACCEPT: normal termination
RADIUS_DELETE
remove_req 0x0000145d043b6460 session 0x13 id 3
free_rip 0x0000145d043b6460
radius: send queue empty

```

Les journaux FTD affichent :

```

firepower#
<committed output>
Sep 22 2021 23:52:40: %FTD-6-725002: Device completed SSL handshake with client
Outside_Int:192.168.0.101/60405 to 192.168.0.100/443 for TLSv1.2 session
Sep 22 2021 23:52:48: %FTD-7-609001: Built local-host Outside_Int:172.16.0.8
Sep 22 2021 23:52:48: %FTD-6-113004: AAA user authentication Successful : server = 172.16.0.8 :
user = user1
Sep 22 2021 23:52:48: %FTD-6-113009: AAA retrieved default group policy (DfltGrpPolicy) for user
= user1
Sep 22 2021 23:52:48: %FTD-6-113008: AAA transaction status ACCEPT : user = user1
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute
aaa.radius["1"]["1"] = user1
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute
aaa.radius["8"]["1"] = 167785061
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute

```

```

aaa.radius["25"]["1"] = CACS:c0a800640000c000614bc1d0:driverap-ISE-2-7/417494978/23
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute
aaa.cisco.grouppolicy = DfltGrpPolicy
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute
aaa.cisco.ipaddress = 10.0.50.101
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute
aaa.cisco.username = user1
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute
aaa.cisco.username1 = user1
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute
aaa.cisco.username2 =
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute
aaa.cisco.tunnelgroup = RA_VPN
Sep 22 2021 23:52:48: %FTD-6-734001: DAP: User user1, Addr 192.168.0.101, Connection AnyConnect:
The following DAP records were selected for this connection: DfltAccessPolicy
Sep 22 2021 23:52:48: %FTD-6-113039: Group <DfltGrpPolicy> User <user1> IP <192.168.0.101>
AnyConnect parent session started.
<omitted output>
Sep 22 2021 23:53:17: %FTD-6-725002: Device completed SSL handshake with client
Outside_Int:192.168.0.101/60412 to 192.168.0.100/443 for TLSv1.2 session
Sep 22 2021 23:53:17: %FTD-7-737035: IPAA: Session=0x0000c000, 'IPv4 address request' message
queued
Sep 22 2021 23:53:17: %FTD-7-737035: IPAA: Session=0x0000c000, 'IPv6 address request' message
queued
Sep 22 2021 23:53:17: %FTD-7-737001: IPAA: Session=0x0000c000, Received message 'IPv4 address
request'
Sep 22 2021 23:53:17: %FTD-6-737010: IPAA: Session=0x0000c000, AAA assigned address 10.0.50.101,
succeeded
Sep 22 2021 23:53:17: %FTD-7-737001: IPAA: Session=0x0000c000, Received message 'IPv6 address
request'
Sep 22 2021 23:53:17: %FTD-5-737034: IPAA: Session=0x0000c000, IPv6 address: no IPv6 address
available from local pools
Sep 22 2021 23:53:17: %FTD-5-737034: IPAA: Session=0x0000c000, IPv6 address: callback failed
during IPv6 request
Sep 22 2021 23:53:17: %FTD-4-722041: TunnelGroup <RA_VPN> GroupPolicy <DfltGrpPolicy> User
<user1> IP <192.168.0.101> No IPv6 address available for SVC connection
Sep 22 2021 23:53:17: %FTD-7-609001: Built local-host Outside_Int:10.0.50.101
Sep 22 2021 23:53:17: %FTD-5-722033: Group <DfltGrpPolicy> User <user1> IP <192.168.0.101> First
TCP SVC connection established for SVC session.
Sep 22 2021 23:53:17: %FTD-6-722022: Group <DfltGrpPolicy> User <user1> IP <192.168.0.101> TCP
SVC connection established without compression
Sep 22 2021 23:53:17: %FTD-7-746012: user-identity: Add IP-User mapping 10.0.50.101 -
LOCAL\user1 Succeeded - VPN user
Sep 22 2021 23:53:17: %FTD-6-722055: Group <DfltGrpPolicy> User <user1> IP <192.168.0.101>
Client Type: Cisco AnyConnect VPN Agent for Windows 4.10.02086
Sep 22 2021 23:53:17: %FTD-4-722051: Group

```

Les journaux RADIUS Live sur ISE montrent :

**Identity Services Engine**

### Overview

Event	5200 Authentication succeeded
Username	user1
Endpoint ID	00:55:55:95:45:c0
Endpoint Profile	Windows10-Workstation
Authentication Policy	Default >> Default
Authorization Policy	Default >> Static IP Address User 1
Authorization Result	StaticIPaddressUser1

### Authentication Details

Source Timestamp	2021-09-22 23:53:19:72
Received Timestamp	2021-09-22 23:53:19:72
Policy Server	diverse-2.7
Event	5200 Authentication succeeded
Username	user1
User Type	User
Endpoint ID	00:55:55:95:45:c0
Calling Station ID	192.168.0.101
Endpoint Profile	Windows10-Workstation
Authentication Identity Store	Internal Users
Identity Group	Workstation
Audit Session ID	d8a000400000d000614bc1d0
Authentication Method	PAP_ASCII
Authentication Protocol	PAP_ASCII
Network Device	DRIVERAP_FTD_70
Device Type	All Device Types
Location	All Locations
NAS IPv4 Address	0.0.0.0

### Steps

```

11001 Received RADIUS Access-Request
15017 RADIUS created a new session
15049 Evaluating Policy Group
15008 Evaluating Service Selection Policy
15041 Evaluating Identity Policy
15048 Queried PIP - Normalized Radius RadiusInterfaceType (4 times)
22072 Selected identity source sequence - All_Users_ID_Stores
15013 Selected Identity Source - Internal Users
24210 Looking up User in Internal Users IDStore - user1
24212 Found User in Internal Users IDStore
22037 Authentication Passed
24115 ISE has not confirmed locally previous successful machine authentication for user in Active Directory
15036 Evaluating Authorization Policy
24209 Looking up Endpoint in Internal Endpoints IDStore - user1
24211 Found Endpoint in Internal Endpoints IDStore
15048 Queried PIP - Radius User Name
15016 Selected Authorization Profile - StaticIPaddressUser1
22081 Max session policy passed
22080 New accounting session created in Session cache
11002 Returned RADIUS Access-Accept

```

**Identity Services Engine**

NAS Port Type	Virtual
Authorization Profile	StaticIPaddressUser1
Response Time	51 milliseconds

### Other Attributes

ConfigVersionId	140
DestinationPort	1812
Protocol	Radius
NAS-Port	49152
Tunnel-Client-Endpoint	(tag=0) 192.168.0.101
CPN93000IASA/PIX7x-Tunnel-Group-Name	RA_VPN
OriginalUserName	user1
NetworkDeviceProfileId	b0599505-3150-4215-a60e-6753d45b5f50
IsThirdPartyDeviceFlow	false
CPN93000IASA/PIX7x-Client-Type	2
AcSessionID	diverse-ISE-2.7-417494978/23
SelectedAuthenticationIdentity Stores	Internal Users
SelectedAuthenticationIdentity Stores	All_AD_Join_Points
SelectedAuthenticationIdentity Stores	Guest Users
Authentication Status	AuthenticationPassed
IdentityPolicyMatchedRule	Default
AuthorizationPolicyMatchedRule	Static IP Address User 1
ISEPolicySetName	Default
IdentitySelectionMatchedRule	Default
DTLS Support	Unknown
HostIdentityGroup	Endpoint Identity Groups Profiled Workstation
Network Device Profile	Class
Location	Location>All Locations
Device Type	Device Type>All Device Types

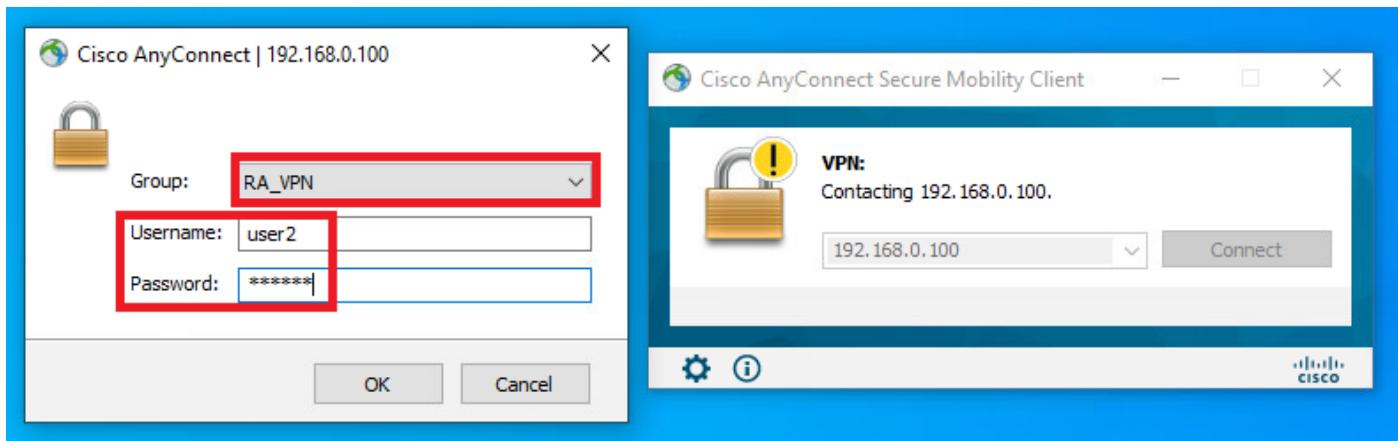
IPSEC	IPsecCiphers IPSEC Device#0
EnableFlag	Enabled
RADIUS Username	user1
Device IP Address	192.168.0.100
CPMSessionID	d8a000400000d000614bc1d0
Called Station ID	192.168.0.100
CiscoAVPair	radius-device-platformname:Windows10-Workstation radius-device-platformversion:20.05.95-45-20 radius-device-publicname:00:55:55:95:45:00 radius-device-type:Windows radius-device-vendor:VMware, Inc. VMware Virtual Platform radius-device-vci:0 radius-device-vpi:0 radius-device-vrf:0 radius-device-ip:192.168.0.100 radius-device-mac:00:55:55:95:45:00 radius-device-oui:00:0c:29 radius-device-avpair:profile-name=Windows10-Workstation audit-session-id=d8a000400000d000614bc1d0, to-source-ip=192.168.0.101, cde-pwinfo=none

Result	Framed-IP-Address: 10.0.55.101
Class	CACB:d8a000400000d000614bc1d0:diverse-ISE-2.7-417494978/23
cisco-av-pair	profile-name=Windows10-Workstation
LicensesTypes	Base license consumed

### Session Events

Étape 2. Connectez-vous à votre tête de réseau FTD (un ordinateur Windows est utilisé ici) et entrez les informations d'identification *user2*.



La section **Address Information** indique que l'adresse IP attribuée est effectivement la première adresse IP disponible dans le pool local IPv4 configuré via FMC.

Connection Information	
State:	Connected
Tunnel Mode (IPv4):	Tunnel All Traffic
Tunnel Mode (IPv6):	Drop All Traffic
Dynamic Tunnel Exclusion:	None
Dynamic Tunnel Inclusion:	None
Duration:	00:01:05
Session Disconnect:	None
Management Connection State:	Disconnected (user tunnel active)

Address Information	
Client (IPv4):	10.0.50.1
Client (IPv6):	Not Available
Server:	192.168.0.100
Bytes	.....

La sortie de la commande **debug radius all** sur FTD affiche :

```
firepower# SVC message: t/s=5/16: The user has requested to disconnect the connection.
webvpn_svc_np_tear_down: no ACL
webvpn_svc_np_tear_down: no IPv6 ACL
```

```

np_svc_destroy_session(0xA000)
radius mkreq: 0x15
alloc_rip 0x0000145d043b6460
new request 0x15 --> 4 (0x0000145d043b6460)
got user 'user2'
got password
add_req 0x0000145d043b6460 session 0x15 id 4
RADIUS_REQUEST
radius.c: rad_mkpkt
rad_mkpkt: ip:source-ip=192.168.0.101

RADIUS packet decode (authentication request)

```

**RADIUS packet decode (response)**

```

-----
Raw packet data (length = 130).....
02 04 00 82 a6 67 35 9e 10 36 93 18 1f 1b 85 37 | .....g5..6.....7
b6 c3 18 4f 01 07 75 73 65 72 32 19 3d 43 41 43 | ...0..user2.=CAC
53 3a 63 30 61 38 30 30 36 34 30 30 30 30 62 30 | S:c0a800640000b0
30 30 36 31 34 62 63 30 61 33 3a 64 72 69 76 65 | 00614bc0a3:drive
72 61 70 2d 49 53 45 2d 32 2d 37 2f 34 31 37 34 | rap-ISE-2-7/4174
39 34 39 37 38 2f 32 32 1a 2a 00 00 00 09 01 24 | 94978/22.*....$ 
70 72 6f 66 69 6c 65 2d 6e 61 6d 65 3d 57 69 6e | profile-name=Win
64 6f 77 73 31 30 2d 57 6f 72 6b 73 74 61 74 69 | dows10-Workstati
6f 6e | on

```

```

Parsed packet data.....
Radius: Code = 2 (0x02)
Radius: Identifier = 4 (0x04)
Radius: Length = 130 (0x0082)
Radius: Vector: A667359E103693181F1B8537B6C3184F
Radius: Type = 1 (0x01) User-Name
Radius: Length = 7 (0x07)
Radius: Value (String) =
75 73 65 72 32 | user2
Radius: Type = 25 (0x19) Class
Radius: Length = 61 (0x3D)
Radius: Value (String) =
43 41 43 53 3a 63 30 61 38 30 30 36 34 30 30 30 | CACS:c0a80064000
30 62 30 30 36 31 34 62 63 30 61 33 3a 64 72 | 0b000614bc0a3:dr
69 76 65 72 61 70 2d 49 53 45 2d 32 2d 37 2f 34 | iverap-ISE-2-7/4
31 37 34 39 34 39 37 38 2f 32 32 | 17494978/22
Radius: Type = 26 (0x1A) Vendor-Specific
Radius: Length = 42 (0x2A)
Radius: Vendor ID = 9 (0x00000009)
Radius: Type = 1 (0x01) Cisco-AV-pair
Radius: Length = 36 (0x24)
Radius: Value (String) =
70 72 6f 66 69 6c 65 2d 6e 61 6d 65 3d 57 69 6e | profile-name=Win
64 6f 77 73 31 30 2d 57 6f 72 6b 73 74 61 74 69 | dows10-Workstati
6f 6e | on
rad_procpkt: ACCEPT
Got AV-Pair with value profile-name=Windows10-Workstation
RADIUS_ACCESS_ACCEPT: normal termination
RADIUS_DELETE
remove_req 0x0000145d043b6460 session 0x15 id 4
free_rip 0x0000145d043b6460
radius: send queue empty

```

Les journaux FTD affichent :

```
<omitted output>
Sep 22 2021 23:59:26: %FTD-6-725002: Device completed SSL handshake with client
Outside_Int:192.168.0.101/60459 to 192.168.0.100/443 for TLSv1.2 session
Sep 22 2021 23:59:35: %FTD-7-609001: Built local-host Outside_Int:172.16.0.8
Sep 22 2021 23:59:35: %FTD-6-113004: AAA user authentication Successful : server = 172.16.0.8 :
user = user2
Sep 22 2021 23:59:35: %FTD-6-113009: AAA retrieved default group policy (DfltGrpPolicy) for user
= user2
Sep 22 2021 23:59:35: %FTD-6-113008: AAA transaction status ACCEPT : user = user2
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute
aaa.radius["1"]["1"] = user2
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute
aaa.radius["25"]["1"] = CACS:c0a800640000d000614bc367:driverap-ISE-2-7/417494978/24
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute
aaa.cisco.grouppolicy = DfltGrpPolicy
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute
aaa.cisco.username = user2
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute
aaa.cisco.username1 = user2
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute
aaa.cisco.username2 =
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute
aaa.cisco.tunnelgroup = RA_VPN
Sep 22 2021 23:59:35: %FTD-6-734001: DAP: User user2, Addr 192.168.0.101, Connection AnyConnect:
The following DAP records were selected for this connection: DfltAccessPolicy
Sep 22 2021 23:59:35: %FTD-6-113039: Group <DfltGrpPolicy> User <user2> IP <192.168.0.101>
AnyConnect parent session started.
<omitted output>
Sep 22 2021 23:59:52: %FTD-6-725002: Device completed SSL handshake with client
Outside_Int:192.168.0.101/60470 to 192.168.0.100/443 for TLSv1.2 session
Sep 22 2021 23:59:52: %FTD-7-737035: IPAA: Session=0x0000d000, 'IPv4 address request' message
queued
Sep 22 2021 23:59:52: %FTD-7-737035: IPAA: Session=0x0000d000, 'IPv6 address request' message
queued
Sep 22 2021 23:59:52: %FTD-7-737001: IPAA: Session=0x0000d000, Received message 'IPv4 address
request'
Sep 22 2021 23:59:52: %FTD-5-737003: IPAA: Session=0x0000d000, DHCP configured, no viable
servers found for tunnel-group 'RA_VPN'
Sep 22 2021 23:59:52: %FTD-7-737400: POOLIP: Pool=AC_Pool, Allocated 10.0.50.1 from pool
Sep 22 2021 23:59:52: %FTD-7-737200: VPNIFIP: Pool=AC_Pool, Allocated 10.0.50.1 from pool
Sep 22 2021 23:59:52: %FTD-6-737026: IPAA: Session=0x0000d000, Client assigned 10.0.50.1 from
local pool AC_Pool
Sep 22 2021 23:59:52: %FTD-6-737006: IPAA: Session=0x0000d000, Local pool request succeeded for
tunnel-group 'RA_VPN'
Sep 22 2021 23:59:52: %FTD-7-737001: IPAA: Session=0x0000d000, Received message 'IPv6 address
request'
Sep 22 2021 23:59:52: %FTD-5-737034: IPAA: Session=0x0000d000, IPv6 address: no IPv6 address
available from local pools
Sep 22 2021 23:59:52: %FTD-5-737034: IPAA: Session=0x0000d000, IPv6 address: callback failed
during IPv6 request
Sep 22 2021 23:59:52: %FTD-4-722041: TunnelGroup <RA_VPN> GroupPolicy <DfltGrpPolicy> User
<user2> IP <192.168.0.101> No IPv6 address available for SVC connection
Sep 22 2021 23:59:52: %FTD-7-609001: Built local-host Outside_Int:10.0.50.1
Sep 22 2021 23:59:52: %FTD-5-722033: Group <DfltGrpPolicy> User <user2> IP <192.168.0.101> First
TCP SVC connection established for SVC session.
Sep 22 2021 23:59:52: %FTD-6-722022: Group <DfltGrpPolicy> User <user2> IP <192.168.0.101> TCP
SVC connection established without compression
Sep 22 2021 23:59:52: %FTD-7-746012: user-identity: Add IP-User mapping 10.0.50.1 - LOCAL\user2
Succeeded - VPN user
Sep 22 2021 23:59:52: %FTD-6-722055: Group <DfltGrpPolicy> User <user2> IP <192.168.0.101>
Client Type: Cisco AnyConnect VPN Agent for Windows 4.10.02086
Sep 22 2021 23:59:52: %FTD-4-722051: Group
```

Les journaux RADIUS Live sur ISE montrent :

Identity Services Engine																																																	
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<b>IPSEC</b> <table border="1"> <tr><td>Name</td><td>IPSEC04s IPSEC Device#0</td></tr> <tr><td>EnableFlag</td><td>Enabled</td></tr> <tr><td>RADIUS Username</td><td>user2</td></tr> <tr><td>Device IP Address</td><td>192.168.0.100</td></tr> <tr><td>CPMSessionID</td><td>d0a000400000d000014bc057</td></tr> <tr><td>Called-Station-ID</td><td>192.168.0.100</td></tr> <tr><td>CiscoAvPair</td><td>modm-dv-device-platformname=modem-10000000-00-98-48-04      modm-dv-device-platform-version=0.0.18302      modm-dv-device-publicmac=00:50:55:95:45:61      modm-dv-device-publicmac=00:50:55:95:45:61      modm-dv-device-type=modem      modm-dv-device-type=VMware, Inc. VMware Virtual Platform,      modm-dv-device-type=VMware, Inc. VMnet      global=10.0.2.15/24/00:52f92cde2431459f4baa2ae2c0b83,      modm-dv-device-type=VMware, Inc. VMnet      user=10.0.2.15/24/00:52f92cde2431459f4baa2ae2c0b83/00:52f92cde2431459f4baa2ae2c0b83/00:52f92cde2431459f4baa2ae2c0b83      94a9c2650244,      audit-session-id=d0a00040000d000014bc057,      ip-source-gw=192.168.0.101,      cost=high</td></tr> </table>	Name	IPSEC04s IPSEC Device#0	EnableFlag	Enabled	RADIUS Username	user2	Device IP Address	192.168.0.100	CPMSessionID	d0a000400000d000014bc057	Called-Station-ID	192.168.0.100	CiscoAvPair	modm-dv-device-platformname=modem-10000000-00-98-48-04 modm-dv-device-platform-version=0.0.18302 modm-dv-device-publicmac=00:50:55:95:45:61 modm-dv-device-publicmac=00:50:55:95:45:61 modm-dv-device-type=modem modm-dv-device-type=VMware, Inc. VMware Virtual Platform, modm-dv-device-type=VMware, Inc. VMnet global=10.0.2.15/24/00:52f92cde2431459f4baa2ae2c0b83, modm-dv-device-type=VMware, Inc. VMnet user=10.0.2.15/24/00:52f92cde2431459f4baa2ae2c0b83/00:52f92cde2431459f4baa2ae2c0b83/00:52f92cde2431459f4baa2ae2c0b83 94a9c2650244, audit-session-id=d0a00040000d000014bc057, ip-source-gw=192.168.0.101, cost=high																																			
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<b>Result</b> <table border="1"> <tr><td>Class</td><td>CACS:d0a00040000d000014bc057:driveap-ISE-2.7/1417494978/24</td></tr> <tr><td>cisco-av-pair</td><td>profile-name=Windows10-Workstation</td></tr> <tr><td>LicensesTypes</td><td>Base license consumed</td></tr> </table>	Class	CACS:d0a00040000d000014bc057:driveap-ISE-2.7/1417494978/24	cisco-av-pair	profile-name=Windows10-Workstation	LicensesTypes	Base license consumed																																											
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**Note:** Vous devez utiliser différentes plages d'adresses IP pour l'attribution d'adresses IP à la fois sur le pool local IP FTD et les stratégies d'autorisation ISE afin d'éviter les conflits d'adresses IP en double parmi vos clients AnyConnect. Dans cet exemple de configuration, FTD a été configuré avec un pool local IPv4 de 10.0.50.1 à 10.0.50.100 et le serveur ISE attribue l'adresse IP statique 10.0.50.101.

## Dépannage

Cette section fournit les informations que vous pouvez utiliser pour dépanner votre configuration.

Sur FTD :

- **debug radius all**

Sur ISE :

- Journaux en direct RADIUS