

# Konfigurieren der statischen IP-Adresszuweisung zu AnyConnect-Benutzern über RADIUS-Autorisierung

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## Einleitung

In diesem Dokument wird beschrieben, wie Sie die RADIUS-Autorisierung mit einem Identity Services Engine (ISE)-Server konfigurieren, sodass dieser immer dieselbe IP-Adresse über das RADIUS-Attribut 8 Framed-IP-Adresse an die Firepower Threat Defense (FTD) für einen bestimmten Benutzer des Cisco AnyConnect Secure Mobility Client weiterleitet.

## Voraussetzungen

### Anforderungen

Cisco empfiehlt, dass Sie über Kenntnisse in folgenden Bereichen verfügen:

- FTD
- Firepower Management Center (FMC)
- ISE
- Cisco AnyConnect Secure Mobility Client
- RADIUS-Protokoll

### Verwendete Komponenten

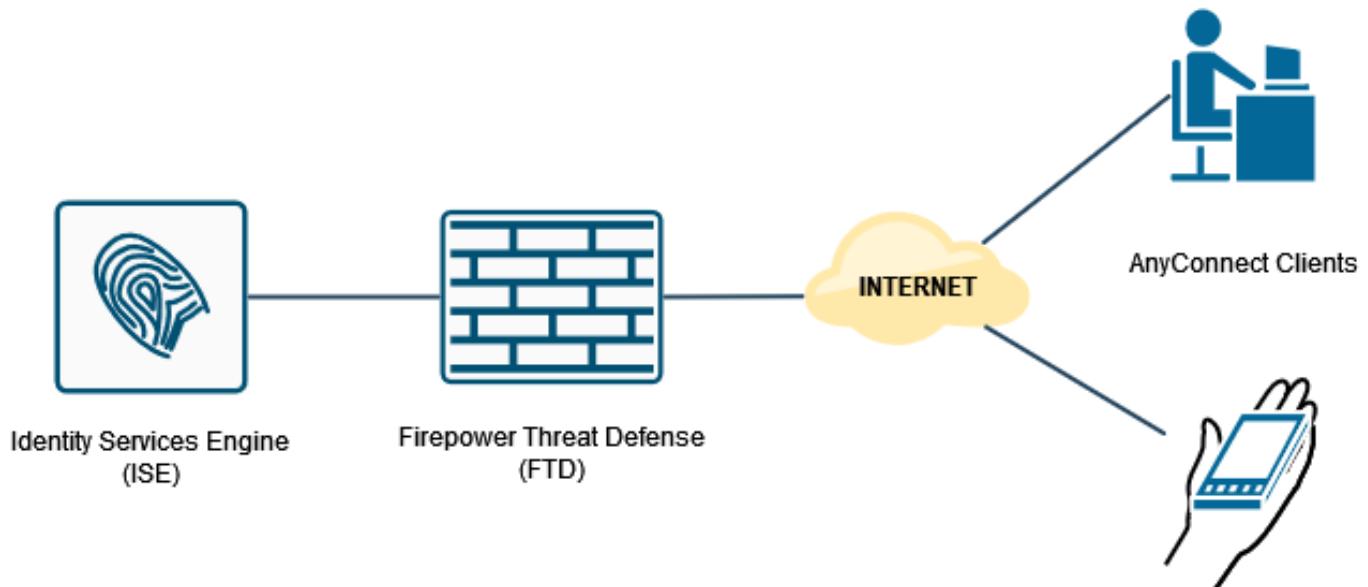
Die Informationen in diesem Dokument basieren auf folgenden Software-Versionen:

- FMCv - 7.0.0 (Build 94)
- FTDv - 7.0.0 (Build 94)
- ISE - 2.7.0.356
- AnyConnect - 4.10.02086
- Windows 10

Die Informationen in diesem Dokument beziehen sich auf Geräte in einer speziell eingerichteten Testumgebung. Alle Geräte, die in diesem Dokument benutzt wurden, begannen mit einer gelöschten (Nichterfüllungs) Konfiguration. Wenn Ihr Netzwerk in Betrieb ist, stellen Sie sicher, dass Sie die möglichen Auswirkungen aller Befehle kennen.

## Konfigurieren

### Netzwerkdiagramm



### Konfiguration eines Remote Access-VPN mit AAA/RADIUS-Authentifizierung über FMC

Eine schrittweise Anleitung finden Sie in diesem Dokument und in diesem Video:

- [AnyConnect Remote Access VPN-Konfiguration auf FTD](#)
- [Erste AnyConnect-Konfiguration für FTD von FMC verwaltet](#)

Die VPN-Konfiguration für den Remote-Zugriff auf der FTD-CLI lautet wie folgt:

```

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
    group-alias RA_VPN enable

```

Konfigurieren der Verwendung des Autorisierungsservers auf dem FMC

Navigieren Sie zu Devices (Geräte) > Remote Access (Remote-Zugriff), und wählen Sie die gewünschte Remote Access-VPN-Richtlinie aus. Navigieren Sie zu Erweitert > Adresszuweisungsrichtlinie, und stellen Sie sicher, dass die Option Autorisierungsserver verwenden (nur für RADIUS oder Bereich) aktiviert ist.

The screenshot shows the 'RA VPN\_POLICY' configuration in the Firewall Management Center. The 'Advanced' tab is selected under 'Address Assignment Policy'. In the 'IPv4 Policy' section, the checkbox 'Use authorization server (Only for RADIUS or Realm)' is checked. In the 'IPv6 Policy' section, the checkbox 'Use internal address pools' is checked. Other sections like 'Secure Client Images' and 'Address Assignment Policy' are also visible on the left sidebar.

## Autorisierungsrichtlinie auf ISE (RADIUS-Server) konfigurieren

Schritt 1: Melden Sie sich beim ISE-Server an, und navigieren Sie zu Administration > Network Resources > Network Devices.

The screenshot shows the ISE dashboard with the 'Administration' menu open. The 'Network Devices' option is highlighted with a red box. Other options in the menu include System, Licensing, Certificates, Logging, Maintenance, Upgrade, Backup & Restore, Admin Access, Settings, Identity Management, Identities, Groups, External Identity Sources, Identity Source Sequences, and Settings. The main dashboard displays metrics like Total Endpoints (1), Active Endpoints (0), and various authentication and endpoint statistics.

Schritt 2: Klicken Sie im Abschnitt "Netzwerkgeräte" auf Hinzufügen, damit die ISE RADIUS-Zugriffsanforderungen aus dem FTD verarbeiten kann.

The screenshot shows the Fortinet Identity Services Engine interface. In the top navigation bar, 'Administration' is selected. Under 'Identity Management', 'Network Resources' is selected, and 'Network Devices' is highlighted with a red box. The main content area displays a table of network devices. A red box highlights the 'Add' button in the toolbar. The table has columns for Name, IP/Mask, Profile Name, Location, Type, and Description. One row is visible: 'DRIVERAP\_ASA5506' with IP '172.16.255.2' and Profile 'Cisco'.

Geben Sie die Felder für den Netzwerkgerätenamen und die IP-Adresse ein, und aktivieren Sie das Kontrollkästchen RADIUS Authentication Settings (RADIUS-Authentifizierungseinstellungen). Der gemeinsame geheime Schlüssel muss derselbe Wert sein, der beim Erstellen des RADIUS-Serverobjekts auf dem FMC verwendet wurde.

The screenshot shows the 'New Network Device' configuration page. The 'Name' field is set to 'DRIVERAP\_FTD\_7.0'. The 'IP Address' field is set to '192.168.0.100'. The 'Device Profile' is set to 'Cisco'. Under 'Network Device Group', 'All Locations' is selected. The 'RADIUS Authentication Settings' checkbox is checked. In the 'RADIUS UDP Settings' section, the 'Protocol' is set to 'RADIUS' and the 'Shared Secret' field contains '\*\*\*\*\*'. The 'CoA Port' is set to '1700'.

Speichern Sie es mit der Schaltfläche am Ende dieser Seite.

Schritt 3: Navigieren Sie zu Administration > Identity Management > Identities.

The screenshot shows the Cisco Identity Services Engine (ISE) Administration interface. In the top navigation bar, the 'Administration' tab is selected. A context menu is open over the 'Identity Management' section, with the 'Identities' option highlighted. The main content area displays the 'Network Devices' section, which includes a table of devices and various management options like Edit, Add, Duplicate, Import, Export, and Delete.

[https://10.31.124.31:6012/admin/#administration/administration\\_identitymanagement/administration\\_identitymanagement\\_identities](https://10.31.124.31:6012/admin/#administration/administration_identitymanagement/administration_identitymanagement_identities)

Schritt 4: Klicken Sie im Abschnitt "Netzwerzugriffsbewerter" auf Hinzufügen, um user1 in der lokalen ISE-Datenbank zu erstellen.

The screenshot shows the Cisco Identity Services Engine (ISE) Administration interface. In the top navigation bar, the 'Administration' tab is selected. A context menu is open over the 'Identity Management' section, with the 'Identities' option highlighted. The main content area displays the 'Network Access Users' section, which includes a table of users and various management options like Edit, Add, Change Status, Import, Export, Delete, and Duplicate. A red box highlights the 'Add' button in the toolbar.

Geben Sie in den Feldern Name und Anmeldekennwort Benutzername und Kennwort ein, und klicken Sie dann auf Senden.

The screenshot shows the 'Network Access Users List > New Network Access User' page. The 'Name' field contains 'user1' and is highlighted with a red box. The 'Status' dropdown is set to 'Enabled'. In the 'Passwords' section, both the 'Login Password' and 'Re-Enter Password' fields contain '\*\*\*\*\*' and are highlighted with a red box. The 'User Information' section includes 'First Name' and 'Last Name' fields. The 'Account Options' section has a 'Description' field and a 'Change password on next login' checkbox. The 'Account Disable Policy' section shows a date of '2021-11-21'. The 'User Groups' section has a 'Select an item' dropdown and a '+' button. At the bottom are 'Submit' and 'Cancel' buttons, with 'Submit' highlighted.

Schritt 5: Wiederholen Sie die vorherigen Schritte, um user2 zu erstellen.

The screenshot shows the 'Network Access Users' list page. The table has columns for Status, Name, Description, First Name, Last Name, Email Address, User Identity Groups, and Admin. The 'Status' column shows 'Enabled' for all users. The 'Name' column lists 'drivrep', 'user1', and 'user2'. The 'user1' and 'user2' rows are highlighted with a red box. The top of the table has buttons for Edit, Add, Change Status, Import, Export, Delete, and Duplicate. A 'Show' dropdown menu is open, showing 'All' and 'Selected 0 | Total 3'. There is also a refresh icon.

Schritt 6: Navigieren Sie zu Policy > Policy Sets.

The screenshot shows the Identity Services Engine interface. The top navigation bar includes links for Home, Context Visibility, Operations, Policy (highlighted with a red box), Administration, and Work Centers. Under the Policy section, 'Policy Sets' is selected. The main content area displays a table titled 'Network Access Users' with columns for Status, Name, Description, First Name, Last Name, Email Address, User Identity Groups, and Admin. There are three entries: 'Enabled' with user names 'drverap', 'user1', and 'user2'. A toolbar at the top of the table provides options for Edit, Add, Change Status, and Import.

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

Schritt 7: Klicken Sie auf den Pfeil > auf der rechten Seite des Bildschirms.

This screenshot shows the same Identity Services Engine interface as the previous one, but with a red box highlighting the right-pointing arrow icon located on the far right of the toolbar. This icon typically indicates a 'next' or 'expand' action.

Schritt 8: Klicken Sie auf den Pfeil > neben Autorisierungsrichtlinie, um sie zu erweitern. Klicken Sie nun auf das + Symbol, um eine neue Regel hinzuzufügen.

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

Policy Sets → Default

Status	Policy Set Name	Description	Conditions	Results	Profiles	Security Groups	Hits	Actions																																																													
Search	Default	Default policy set		Default Network Access	x	+	17																																																														
<ul style="list-style-type: none"> <li>&gt; Authentication Policy (3)</li> <li>&gt; Authorization Policy - Local Exceptions</li> <li>&gt; Authorization Policy - Global Exceptions</li> <li><b>&gt; Authorization Policy (13)</b></li> </ul>																																																																					
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Geben Sie einen Namen für die Regel ein, und wählen Sie in der Spalte Bedingungen das Symbol + aus.

Authorization Policy (13)

+ Status	Rule Name	Conditions	Results	Profiles	Security Groups	Hits	Actions																
Search	Static IP Address User 1			Select from list	+	Select from list	0																
<table border="1"> <thead> <tr> <th>+ Status</th> <th>Rule Name</th> <th>Conditions</th> <th>Results</th> <th>Profiles</th> <th>Security Groups</th> <th>Hits</th> <th>Actions</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>								+ Status	Rule Name	Conditions	Results	Profiles	Security Groups	Hits	Actions								
+ Status	Rule Name	Conditions	Results	Profiles	Security Groups	Hits	Actions																

Klicken Sie in das Textfeld Attribute-Editor, und klicken Sie auf das Symbol Betreff. Blättern Sie nach unten, bis Sie das Attribut RADIUS User-Name finden und auswählen.

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

Behalten Sie Equals als Operator bei, und geben Sie user1 in das Textfeld daneben ein. Klicken Sie auf Verwenden, um das Attribut zu speichern.

The screenshot shows the Conditions Studio interface. On the left, there's a library with various conditions listed. In the center, the 'Editor' pane shows a search condition for 'Radius-User-Name' with the operator 'Equals' and the value 'user1'. Below the editor is a toolbar with 'New', 'AND', and 'OR' buttons. At the bottom right of the editor are 'Close' and 'Use' buttons, with 'Use' being highlighted by a red box.

Die Bedingung für diese Regel ist jetzt festgelegt.

Schritt 9: Klicken Sie in der Spalte Ergebnisse/Profile auf das Symbol +, und wählen Sie Create a New Authorization Profile (Neues Autorisierungsprofil erstellen).

The screenshot shows the 'Authorization Policy' table. A new row has been added, and the 'Profiles' column contains a '+ Create a New Authorization Profile' link, which is highlighted with a red box.

Geben Sie ihm einen Namen, und behalten Sie ACCESS\_ACCEPT als Zugriffstyp bei. Blättern Sie nach unten zum Abschnitt Erweiterte Attributeinstellungen.

Add New Standard Profile

**Authorization Profile**

- \* Name: StaticIPAddressUser1
- Description:
- \* Access Type: ACCESS\_ACCEPT

**Network Device Profile** Cisco

- Service Template
- Track Movement
- Passive Identity Tracking

**Common Tasks**

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

**Advanced Attributes Settings**

Save Cancel

Klicken Sie auf den orangefarbenen Pfeil, und wählen Sie Radius > Framed-IP-Address—[8].

Add New Standard Profile

- Service Template
- Track Movement
- Passive Identity Tracking

**Radius**

**Common Tasks**

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

**Advanced Attributes Setting**

Radius:Framed-IP-Address

**Attributes Details**

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

Save Cancel

Geben Sie die IP-Adresse ein, die Sie diesem Benutzer statisch immer zuweisen möchten, und klicken Sie auf Speichern.

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 =

**Attributes Details**

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

Schritt 10: Wählen Sie nun das neu erstellte Autorisierungsprofil.

Authorization Policy (13)

Status	Rule Name	Conditions	Results	Profiles	Security Groups	Hits	Actions
<input checked="" type="checkbox"/>	Static IP Address User 1	<input type="checkbox"/> Radius-User-Name EQUALS user1	<input type="checkbox"/> Select from list	<input type="checkbox"/> Cisco_VPNUser	<input type="checkbox"/>	0	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	Wireless Black List Default	AND <input type="checkbox"/> Wireless_Access <input type="checkbox"/> IdentityGroup-Name EQUALS Endpoint Identity Groups Blacklist	<input type="checkbox"/> DenyAccess	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	Profiled Cisco IP Phones	<input type="checkbox"/> IdentityGroup-Name EQUALS Endpoint Identity Groups Profiled Cisco-IP-Phone	<input type="checkbox"/> NSP_Onboard	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="button" value="..."/>
<input checked="" type="checkbox"/>	Profiled Non Cisco IP Phones	<input type="checkbox"/> Non_Cisco_Profiling_Phones	<input type="checkbox"/> Non_Cisco_IP_Phones	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="button" value="..."/>
<input checked="" type="checkbox"/>			<input type="checkbox"/> PermitAccess	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="button" value="..."/>
<input checked="" type="checkbox"/>			<input type="checkbox"/> StaticIPAddressUser1	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="button" value="..."/>
<input checked="" type="checkbox"/>			<input type="checkbox"/> Static_IP_address	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="button" value="..."/>

Die Autorisierungsregel ist jetzt festgelegt. Klicken Sie auf Speichern.

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

Policy Sets → Default

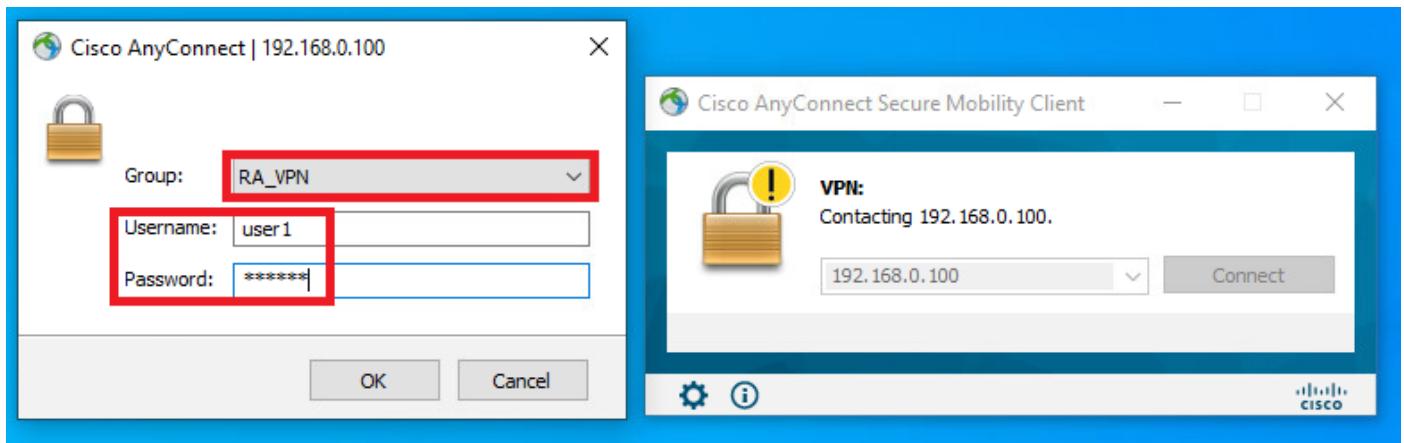
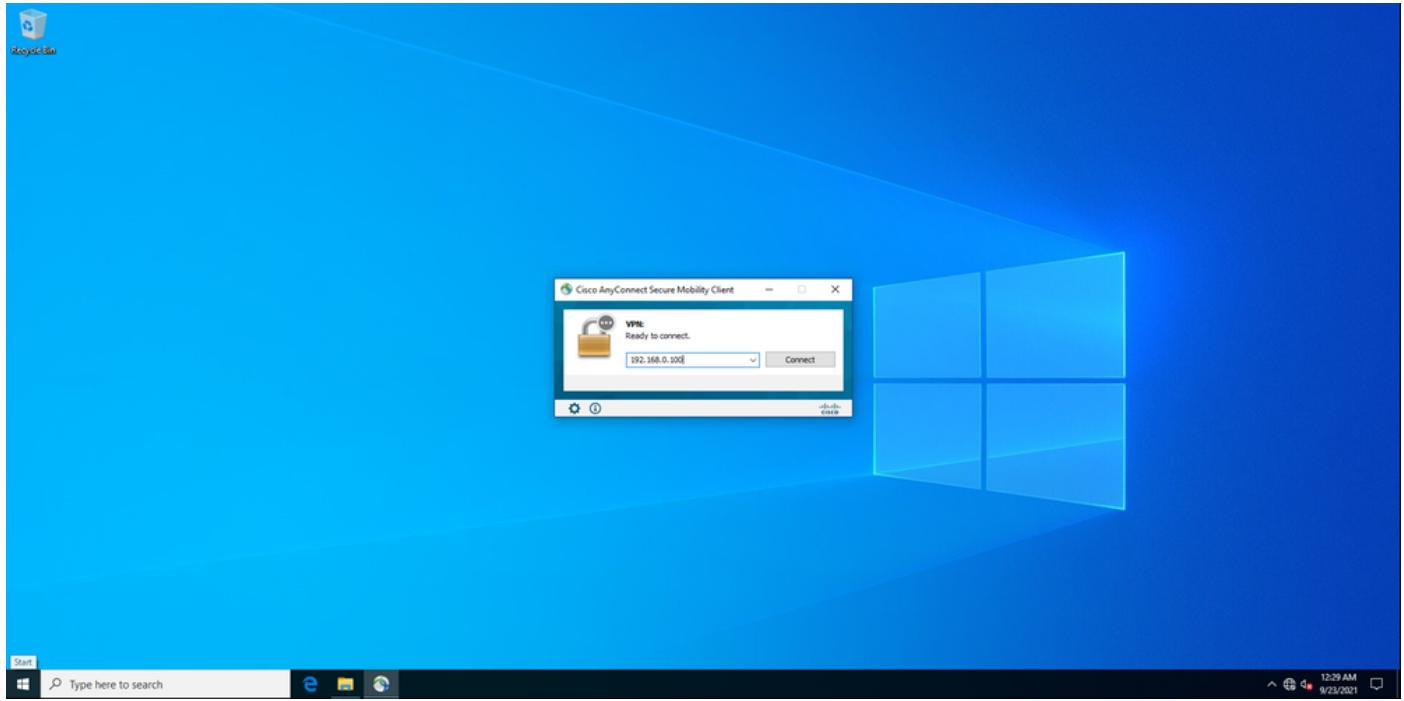
Status	Policy Set Name	Description	Conditions	Results	Profiles	Security Groups	Hits	Actions
<input checked="" type="checkbox"/>	Default	Default policy set		<input type="checkbox"/> Default Network Access	<input type="checkbox"/>	<input type="checkbox"/>	17	<input type="button" value="..."/>

Authentication Policy (3)  
Authorization Policy - Local Exceptions  
Authorization Policy - Global Exceptions  
Authorization Policy (13)

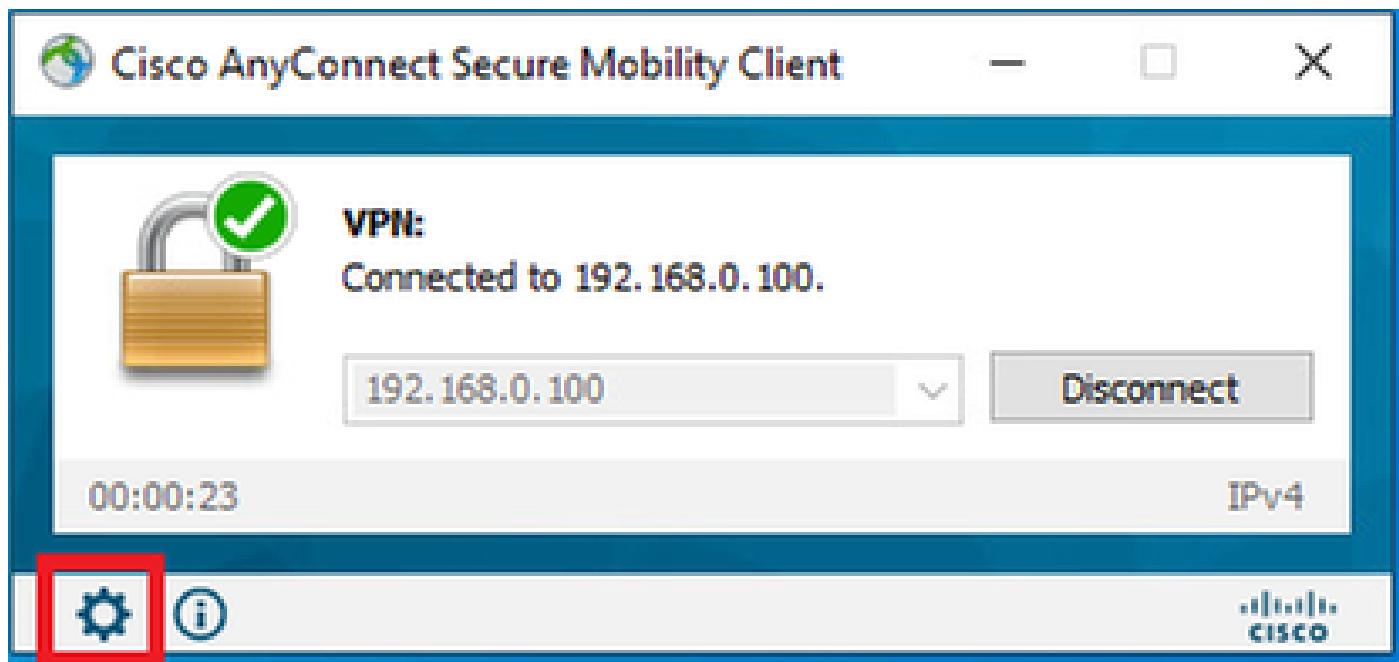
Status	Rule Name	Conditions	Results	Profiles	Security Groups	Hits	Actions
<input checked="" type="checkbox"/>	Static IP Address User 1	<input type="checkbox"/> Radius-User-Name EQUALS user1	<input type="checkbox"/> Cisco_VPNUser	<input type="checkbox"/>	<input type="checkbox"/>	0	<input type="button" value="..."/>

## Überprüfung

Schritt 1: Navigieren Sie zu dem Client-Computer, auf dem der Cisco AnyConnect Secure Mobility Client installiert ist. Stellen Sie eine Verbindung zu Ihrem FTD-Headend her (hier wird ein Windows-Computer verwendet), und geben Sie die Anmeldeinformationen user1 ein.



Klicken Sie auf das Zahnradsymbol (linke untere Ecke), und navigieren Sie zur Registerkarte "Statistik". Bestätigen Sie im Abschnitt "Adressinformationen", dass die zugewiesene IP-Adresse tatsächlich die in der ISE-Autorisierungsrichtlinie für diesen Benutzer konfigurierte IP-Adresse ist.



This screenshot provides a detailed view of the Cisco AnyConnect Secure Mobility Client interface. It includes a "Virtual Private Network (VPN)" section with tabs for Preferences, Statistics, Route Details, Firewall, and Message History. The "Connection Information" panel shows the following details:

State:	Connected
Tunnel Mode (IPv4):	Tunnel All Traffic
Tunnel Mode (IPv6):	Drop All Traffic
Dynamic Tunnel Exclusion:	None
Dynamic Tunnel Inclusion:	None
Duration:	00:01:49
Session Disconnect:	None
Management Connection State:	Disconnected (user tunnel active)

The "Address Information" panel shows the following details:

Client (IPv4):	10.0.50.101
Client (IPv6):	Not Available
Server:	192.168.0.100

At the bottom right, there are "Reset" and "Export Stats..." buttons.

Der Debugradius aller Befehle in FTD zeigt Folgendes an:

```
<#root>

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 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 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

```

Die FTD-Protokolle zeigen Folgendes:

```

<#root>

firepower#
<omitted output>
Sep 22 2021 23:52:40: %FTD-6-725002: Device completed SSL handshake with client Outside_Int:192.168.0.1
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[...]
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute aaa.radius[...]
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute aaa.radius[...]
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute aaa.cisco.ipaddress[...]
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute aaa.cisco.ipaddress[...]

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.u
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute aaa.cisco.u
Sep 22 2021 23:52:48: %FTD-7-734003: DAP: User user1, Addr 192.168.0.101: Session Attribute aaa.cisco.t
Sep 22 2021 23:52:48: %FTD-6-734001: DAP: User user1, Addr 192.168.0.101, Connection AnyConnect: The fo
Sep 22 2021 23:52:48: %FTD-6-113039: Group <DfltGrpPolicy> User <user1> IP <192.168.0.101> AnyConnect p
<omitted output>
Sep 22 2021 23:53:17: %FTD-6-725002: Device completed SSL handshake with client Outside_Int:192.168.0.1
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
Sep 22 2021 23:53:17: %FTD-5-737034: IPAA: Session=0x0000c000, IPv6 address: callback failed during IPV
Sep 22 2021 23:53:17: %FTD-4-722041: TunnelGroup <RA_VPN> GroupPolicy <DfltGrpPolicy> User <user1> IP <
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 SV
Sep 22 2021 23:53:17: %FTD-6-722022: Group <DfltGrpPolicy> User <user1> IP <192.168.0.101> TCP SVC conn
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:
Sep 22 2021 23:53:17: %FTD-4-722051:

Group
```

#### User

```
IP <192.168.0.101> IPv4 Address <10.0.50.101> IPv6 address <::> assigned to session
```

Die RADIUS Live-Protokolle auf der ISE zeigen Folgendes:

**Identity Services Engine**

### Overview

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

### Steps

```

11031 Received RADIUS Access-Request
11017 RADIUS created a new session
15049 Evaluating Policy Group
15008 Evaluating Service Selection Policy
15041 Evaluating Identity Policy
15048 Queried PIP - Normalised Radius.Radius.IdentityType (4 times)
22072 Selected Identity source sequence : All_Users_ID_Store
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
24715 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
15010 Selected Authorization Profile - StaticIPAddressUser1
22081 Max sessions policy passed
22080 New accounting session created in Session cache
11062 Returned RADIUS Access-Accept

```

### Authentication Details

Source Timestamp	2021-09-22 23:53:19.72
Received Timestamp	2021-09-22 23:53:19.72
Policy Server	driveap-ISE-2.7
Event	5200 Authentication succeeded
Username	user1
User Type	User
Endpoint ID	00:55:56:98:45:6F
Calling Station ID	192.168.0.101
Endpoint Profile	Windows10-Workstation
Authentication Identity Store	Internal Users
Identity Group	Workstation
Audit Session ID	0faa000e400000d000014bc1d0
Authentication Method	PAP_ASCII
Authentication Protocol	PAP_ASCII
Network Device	DRIVERAP_FTD_7.0
Device Type	All Device Types
Location	All Locations
NAS IPv4 Address	0.0.0.0

### Identity Services Engine

NAS Port Type	Virtual
Authorization Profile	StaticIPaddressUser1
Response Time	51 milliseconds

### Other Attributes

ConfiguredVersionId	140
DestinationPort	1812
Protocol	Radius
NAS-Port	49152
Tunnel-Client-Endpoint	(tag=0) 192.168.0.101
VPN3000vASA/PIX7x-Tunnel-Group-Name	RA_VPN
OriginalUserName	user1
NetworkDeviceProfileId	b0099005-3150-4215-a00e-67534450550
IsThirdPartyDeviceFlow	false
VPN3000vASA/PIX7x-Client-Type	2
AcSessionID	driveap-ISE-2.7/417494978/23
SelectedAuthenticationIdentityStores	Internal Users
SelectedAuthenticationIdentityStores	All_AD_Join_Points
SelectedAuthenticationIdentityStores	Guard_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	Cisco
Location	Location>All Locations
Device Type	Device_TypeAll Device Types

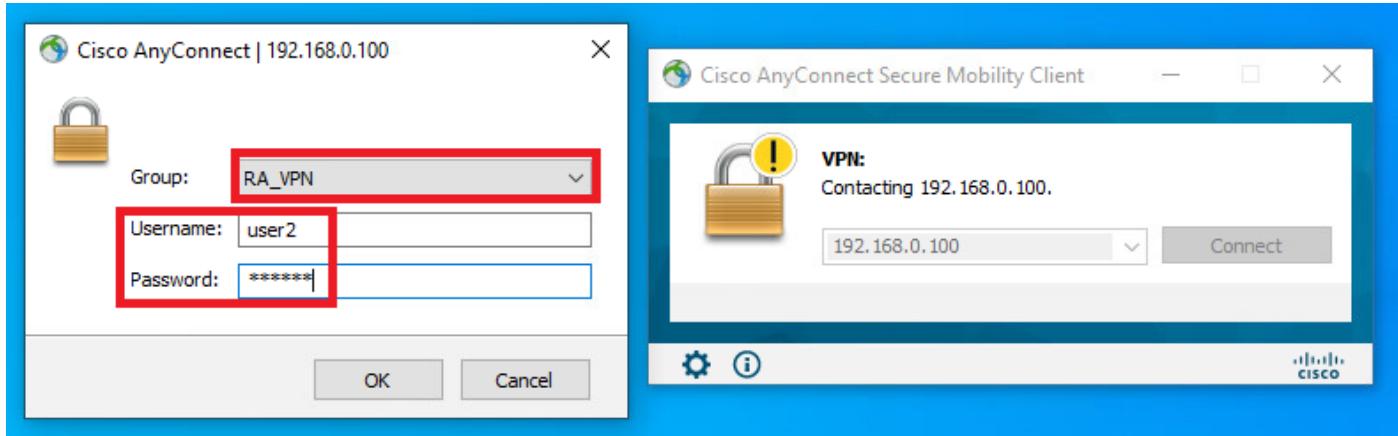
IPSEC	IPSEC01 is IPSEC Device#0
EnableFlag	Enabled
RADIUS Username	user1
Device IP Address	192.168.0.100
CPMSessionID	0faa000e400000d000014bc1d0
Called Station-ID	192.168.0.100
 CiscoRSPair	
min-device-platformname,	
min-device-mac=00:55:56:98:45:6F,	
min-device-platform-version=13.0(3.0),	
min-device-ipaddr=192.168.0.100,45.98.45.6F,	
min-device-user-agent=AnyConnect Windows 4.19.02086,	
min-device-vendor=VMware, Inc., VMware Virtual Platform,	
min-device-osname=Windows 10 Pro, global=15FF3E820D52F3C2CD2431456F4BA2AE20B03,	
uid=3C9B407071FB0782F815F1246211844686596C717E37038BC03DF,	
cisco-av-pair=profile-name=Windows10-Workstation	
ip source-ip=192.168.0.101,	
ip push=true	

### Result

Framed-IP-Address	192.168.0.101
Class	CAC9 0faa000e400000d000014bc1d0 driveap-ISE-2.7/417494978/23
cisco-av-pair	profile-name=Windows10-Workstation
LicensesTypes	Base license consumed

### Session Events

Schritt 2: Stellen Sie eine Verbindung zu Ihrem FTD-Headend her (hier wird ein Windows-Computer verwendet), und geben Sie die Anmeldeinformationen user2 ein.



Im Abschnitt Address Information (Adressinformationen) wird angezeigt, dass die zugewiesene IP-Adresse tatsächlich die erste verfügbare IP-Adresse im lokalen IPv4-Pool ist, der über FMC konfiguriert wurde.

The screenshot shows the Cisco AnyConnect Secure Mobility Client interface. At the top, it displays 'AnyConnect Secure Mobility Client' and the Cisco logo. Below that, it says 'Virtual Private Network (VPN)' and has tabs for 'Preferences', 'Statistics', 'Route Details', 'Firewall', and 'Message History'. A 'Diagnostics...' button is also present. The main area contains two sections: 'Connection Information' and 'Address Information'. The 'Connection Information' section lists the following details:

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)

The 'Address Information' section shows the following details:

Client (IPv4):	10.0.50.1
Client (IPv6):	Not Available
Server:	192.168.0.100

At the bottom right, there are 'Reset' and 'Export Stats...' buttons.

Der Debugradius aller Befehle in FTD zeigt Folgendes an:

```

<#root>

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

```

Die FTD-Protokolle zeigen Folgendes:

<#root>

```

<committed output>
Sep 22 2021 23:59:26: %FTD-6-725002: Device completed SSL handshake with client Outside_Int:192.168.0.101
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[...]
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute aaa.radius[...]
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute aaa.cisco.g...
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.u...
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute aaa.cisco.u...
Sep 22 2021 23:59:35: %FTD-7-734003: DAP: User user2, Addr 192.168.0.101: Session Attribute aaa.cisco.t...
Sep 22 2021 23:59:35: %FTD-6-734001: DAP: User user2, Addr 192.168.0.101, Connection AnyConnect: The fo...
Sep 22 2021 23:59:35: %FTD-6-113039: Group <DfltGrpPolicy> User <user2> IP <192.168.0.101> AnyConnect p...
<committed output>
Sep 22 2021 23:59:52: %FTD-6-725002: Device completed SSL handshake with client Outside_Int:192.168.0.101
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
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  
Sep 22 2021 23:59:52: %FTD-5-737034: IPAA: Session=0x0000d000, IPv6 address: callback failed during IPv6  
Sep 22 2021 23:59:52: %FTD-4-722041: TunnelGroup <RA\_VPN> GroupPolicy <DfltGrpPolicy> User <user2> IP <  
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  
Sep 22 2021 23:59:52: %FTD-6-722022: Group <DfltGrpPolicy> User <user2> IP <192.168.0.101> TCP SVC conn  
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:  
Sep 22 2021 23:59:52: %FTD-4-722051:

Group

User

IP <192.168.0.101> IPv4 Address <10.0.50.1> IPv6 address <::> assigned to session

Die RADIUS Live-Protokolle auf der ISE zeigen Folgendes:

Identity Services Engine	
<strong>Overview</strong>	
Event	5200 Authentication succeeded
Username	user2
Endpoint ID	00:50:56:96:48:6F ⓘ
Endpoint Profile	Windows10-Workstation
Authentication Policy	Default >> Default
Authorization Policy	Default >> Basic_Authenticated_Access
Authorization Result	PermitAccess
<strong>Authentication Details</strong>	
Source Timestamp	2021-09-23 00:00:48B
Received Timestamp	2021-09-23 00:00:48B
Policy Server	driveap-ISE-2/7
Event	5200 Authentication succeeded
Username	user2
User Type	User
Endpoint ID	00:50:56:96:48:6F
Calling Station ID	192.168.0.101
Endpoint Profile	Windows10-Workstation
Authentication Identity Store	Internal Users
Identity Group	Workstation
Audit Session ID	cfa00040000d000014bd057
Authentication Method	PAP_ASCII
Authentication Protocol	PAP_ASCII
Network Device	DRIVERAP_FT0_7.0
Device Type	All Device Types
Location	All Locations
NAS IPv4 Address	0.0.0.0
<strong>Identity Services Engine</strong>	
NAS Port Type	Virtual
Authorization Profile	PermitAccess
Response Time	202 milliseconds
<strong>Other Attributes</strong>	
ConfigVersionId	146
DestinationPort	1812
Protocol	Radius
NAS Port	53248
Tunnel Client Endpoint	(tag#0) 192.168.0.101
CVPN3000/SA/APPX7x-Tunnel-Group-Name	RA_VPN
OriginalUserName	user2
NetworkDeviceProfileId	b0590055.3150-4215-a80e-6753445b5f5c
IsThirdPartyDeviceFlow	false
CVPN3000/SA/APPX7x-Client-Type	2
AcSessionID	driveap-ISE-2/7417494978/24
SelectedAuthenticationIdentityStores	Internal Users
SelectedAuthenticationIdentityStores	All_AD_Users_Points
SelectedAuthenticationIdentityStores	Guest_Users
Authentication Status	AuthenticationPassed
IdentityPolicyMatchedRule	Default
AuthorizationPolicyMatchedRule	Basic_Authenticated_Access
ISEPolicySetName	Default
IdentitySelectionMatchedRule	Default
DTLS Support	Unknown
HostIdentityGroup	Endpoint Identity Groups/Profiled Workstation
Network Device Profile	Cisco
Location	Location>All Locations
Device Type	Device Type>All Device Types
<strong>IPSEC</strong>	
IPSEC	IPSEC Only IPSEC Device#0
Name	Endpoint Identity Groups/Profiled Workstation
EnableFlag	Enabled
RADIUS Username	user2
Device IP Address	192.168.0.100
CPM Session ID	cfa00040000d000014bd057
Called-Station-ID	192.168.0.100
CiscoAVPair	max=1000,device=platform,mso=0,device=mac=00:50:56:96:48:6F, mso=0,device=platform-version=10.0.13342, mso=0,device=platform-build=13342, mso=0,device=platform-cfg=1, mso=0,device=agent=AnyConnect Windows 4.10.02065, mso=0,device=type=VMware, Inc. VMware Virtual Platform, mso=0,device=platform=Windows 10 Pro, mso=0,device=global=159FB8E600CF2F2C2E0E431455F4BA2AE0C083, mso=0,device=global=159FB8E600CF2F2C2E0E431455F4BA2AE0C083, user=cfa00040000d000014bd057, user=cfa00040000d000014bd057, auth=0,device=ip=192.168.0.100, auth=0,device=ip=192.168.0.100, (ip-source-ip)=192.168.0.101, csa=push=true
<strong>Result</strong>	
Class	CACS:cfa00040000d000014bd057:driveap-ISE-2/7417494978/24
disco-av-pair	profile-name=Windows10-Workstation
LicenseTypes	Base license consumed
<strong>Session Events</strong>	



Anmerkung: Sie müssen unterschiedliche IP-Adressbereiche für die Zuweisung von IP-

- 
- 
- Adressen sowohl für den lokalen FTD-IP-Pool als auch für die ISE-Autorisierungsrichtlinien verwenden, um doppelte IP-Adresskonflikte zwischen Ihren AnyConnect-Clients zu vermeiden. In diesem Konfigurationsbeispiel wurde FTD mit einem lokalen IPv4-Pool von 10.0.50.1 bis 10.0.50.100 konfiguriert, und der ISE-Server weist die statische IP-Adresse 10.0.50.101 zu.
- 

## Fehlerbehebung

In diesem Abschnitt erhalten Sie Informationen zur Behebung von Fehlern in Ihrer Konfiguration.

Auf FTD:

- debug radius all

Auf der ISE:

- RADIUS-Live-Protokolle

## Informationen zu dieser Übersetzung

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