



## *EVE-NG Documentation*

# *EVE-NG Users authentication with Active Directory and Radius*

## *Use case guide*

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EVE-NG Pro, 2024*

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## Content

Content	2
I. Lab nodes, image versions	3
II. Install Active Directory Server, ESXi external VM	3
III. Configure DNS Server	4
IV. Configure AD EVE users	5
V. Create EVE User Group	5
VI. ISE pre-stage	6
VII. Active Directory joining to the ISE	6
VIII. EVE-NG Server joining to the ISE	9
IX. Create EVE Users authorization Profiles	12
X. Create Source Identity sequence	13
XI. Create Radius User Identity group	14
XII. Create Internal Radius User	15
XIII. Create Policy Set	15
XIV. EVE-NG Professional/Corporate settings	21
XV. EVE-NG users for Active Directory	22
XVI. Radius and Active Directory users' verification	23

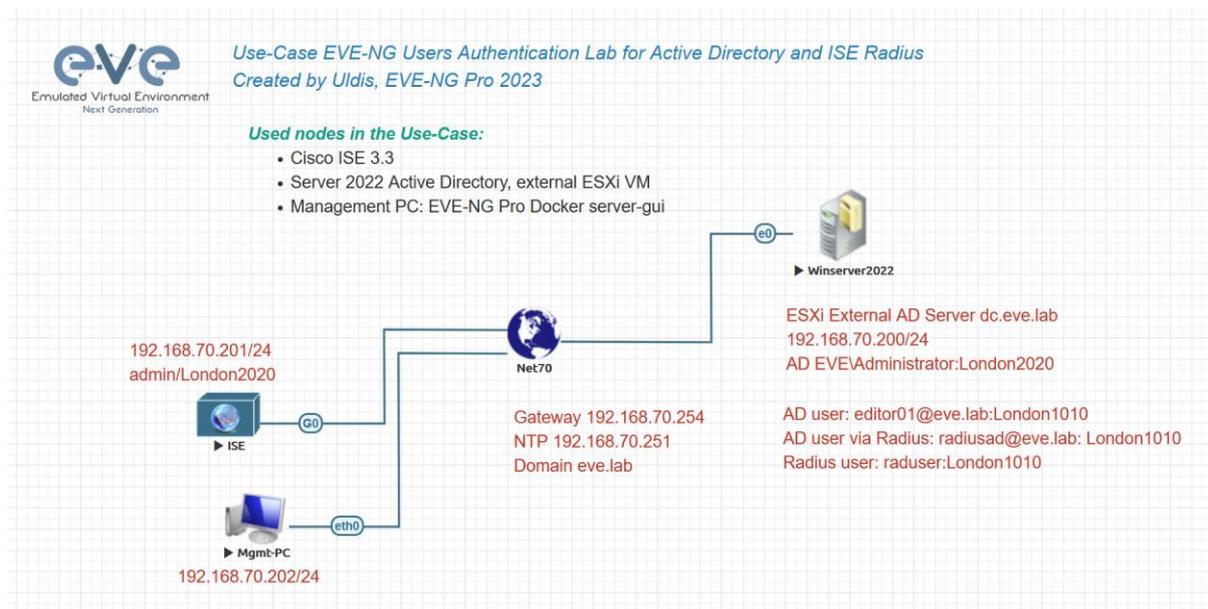
Lab concept:

Practical Use-case how to configure EVE-NG Pro for user authentication to Active Directory or ISE Radius. Note: Windows Server 2022 is installed as external ESXi VM on lab server and connected to the cloud0 network 192.168.70.0/24. EVE-NG VM also is installed on same lab ESXi server and connected to cloud0 IP 192.168.70.252.

*Internet and DNS resolving is required for all lab nodes (cloud0 network 192.168.70.0/24).*

### Lab General Tasks:

1. Configure Windows Server 2022 as Active directory and NTP server
2. Configure Cisco ISE as Radius server for EVE Users and join Server 2022 AD for Active Directory users



## I. Lab nodes, image versions

- Cisco ISE 3.3, EVE-Lab node
- DNS/CA/NTP, Windows 2022 x64 Server, External ESXi VM
- EVE-NG Pro VM, External ESXi VM
- Management Host: Docker server-gui

## II. Install Active Directory Server, ESXi external VM

**Objective: Configure Windows 2022 network interfaces with following:**

1. Set static IP address for Windows 2022 interface **Ethernet**:
  - ✓ IP Address: 192.168.70.200
  - ✓ Mask: 255.255.255.0
  - ✓ Gateway: 192.168.70.254
  - ✓ DNS Server: 8.8.8.8, 8.8.4.4

**Objective: Configure Windows 2022 server name with following:**

- ✓ Open Server manager
- ✓ Click Local Server
- ✓ Click Computer Name
- ✓ Click Change
- ✓ Enter Name: **dc**
- ✓ Click OK
- ✓ Click Close and restart Server

**Objective: Configure Windows 2022 server Active Directory:**

1. Install Active Directory Server role
  - ✓ Open Server manager
  - ✓ Click Add roles and features
  - ✓ Click 3 times Next
  - ✓ Select Active Directory Domain Services, and click Add features
  - ✓ Click 3 times Next, and Install
  - ✓ After installation is completed, Click close
2. Navigate to Server manager, Notifications (Yellow triangle)
  - ✓ Click on *Promote this server to a domain controller*
  - ✓ Select "Add new forest"
  - ✓ Put domain name "**eve.lab**"
  - ✓ Click Next
  - ✓ Type 2 times DSRM password (example: Test123)
  - ✓ Click Next 5 times
  - ✓ Click Install
  - ✓ After server is rebooted and if required, change administrator password (example: ADserver123)

### III. Configure DNS Server

**Objective: Configure Windows 2022 as DNS server with following:**

1. Navigate to Server manager, Tools/DNS
  - ✓ Expand AD Server on the right
2. Create 4 new Reverse Lookup Zones
  - ✓ Right click on Reverse lookup Zones/New Zone, Next
  - ✓ Leave Primary Zone and click Next
  - ✓ Leave To all DNS servers running in domain controllers in this domain: eve.lab, click Next
  - ✓ IPv4 Reverse Lookup Zone, Next
  - ✓ Network ID: **192.168.70**, Next, Next
  - ✓ Allow both non-secure and secure dynamic updates, Next
  - ✓ Finish
  - ✓ New Zone, Next
  - ✓ Leave Primary Zone and click Next
  - ✓ Leave To all DNS servers running in domain controllers in this domain: eve.lab, click Next
  - ✓ IPv4 Reverse Lookup Zone, Next
  - ✓ Network ID: **192.168.70**, Next, Next

- ✓ Allow both non-secure and secure dynamic updates, Next
- ✓ Finish
- 3. Create new A record for ISE
  - ✓ Navigate to forward lookup zone **eve.lab**
  - ✓ Create New host (A or AAAA)
  - ✓ Name: **ise**
  - ✓ IP Address: 192.168.70.201
  - ✓ Enable checkbox Create associated pointer (PTR) record
  - ✓ Add Host

## IV. Configure AD EVE users

### Objective: Configure Active Directory Corporate Users:

1. Navigate to Server manager, Tools/Active Directory Users and Computers
  - ✓ Right click on Users directory/New/user
  - ✓ First Name: Jenny
  - ✓ Last name: Doe
  - ✓ Username: **jennydoe**
  - ✓ Click Next
  - ✓ Password (2 times): **Silver2023**
  - ✓ Uncheck User must change password at next login
  - ✓ Check: User cannot change password and Password never expires
  - ✓ Click Next and Finish
2. Navigate to Server manager, Tools/Active Directory Users and Computers
  - ✓ Right click on Users directory/New/user
  - ✓ First Name: John
  - ✓ Last name: Doe
  - ✓ Username: **johndoe**
  - ✓ Click Next
  - ✓ Password (2 times): **Gold2023**
  - ✓ Uncheck User must change password at next login
  - ✓ Check: User cannot change password and Password never expires
  - ✓ Click Next and Finish

## V. Create EVE User Group

### Objective: Add User Groups to the Active directory:

1. Navigate to Server manager, Tools/Active Directory Users and Computers
  - ✓ Right click on Users directory/New/Group
  - ✓ Name: **EVE Users**
  - ✓ Click OK

### Objective: Add users into created AD groups

1. Right Click on user **John Doe** and select: Add to group
  - ✓ Enter the object names to select: **EVE Users**
  - ✓ Click Check name
  - ✓ Click OK

2. Right Click on user **Jenny Doe** and select: Add to group
  - ✓ Enter the object names to select: **EVE Users**
  - ✓ Click Check name
  - ✓ Click OK

## VI. ISE pre-stage

### Objective: Pre-stage ISE

1. Setup ISE settings
  - ✓ Type: setup

```
*****
Please type 'setup' to configure the appliance
*****
localhost login: setup_
```

- ✓ Hostname: ise
- ✓ IP address: 192.168.70.201
- ✓ Netmask: 255.255.255.0
- ✓ Default gateway: 192.168.70.254
- ✓ Default domain: eve.lab
- ✓ Primary name server: 192.168.70.200
- ✓ NTP Server: pool.ntp.org
- ✓ User: admin
- ✓ Password: Test1234

```
Press 'Ctrl-C' to abort setup
Enter hostname[]: ise
Enter IP address[]: 192.168.70.201
Enter IP netmask[]: 255.255.255.0
Enter IP default gateway[]: 192.168.70.254
Do you want to configure IPv6 address? Y/N [N]:
Enter default DNS domain[]: eve.lab
Enter primary nameserver[]: 192.168.70.200
Add secondary nameserver? Y/N [N]:
Enter NTP server[time.nist.gov]: pool.ntp.org
Add another NTP server? Y/N [N]:
Enter system timezone[UTC]:
Enable SSH service? Y/N [N]: Y
Enter username[admin]:
Enter password:
Enter password again:
```

- ✓ Wait till ise installs and brings up, Services must be in **running state**

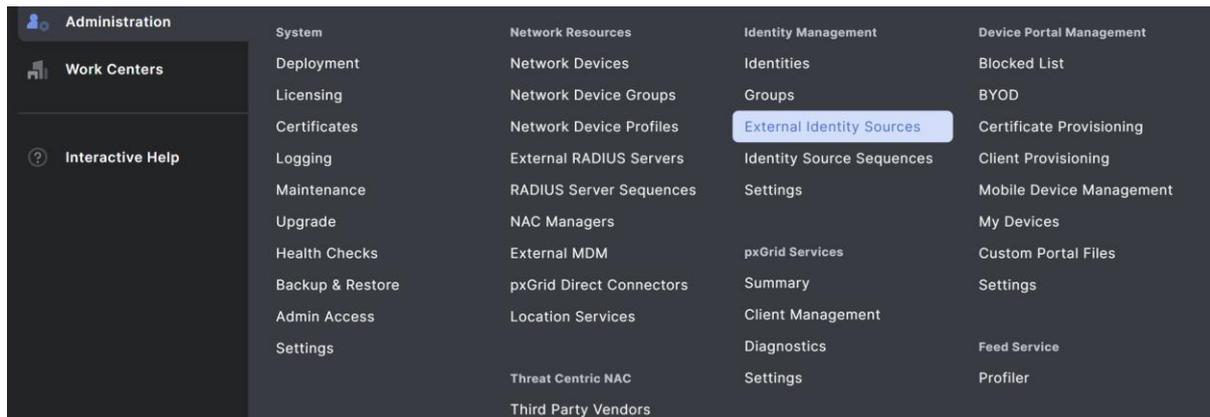
```
ise/admin# show application status ise
```

ISE PROCESS NAME	STATE	PROCESS ID
Database Listener	running	18865
Database Server	running	78 PROCESSES
Application Server	running	3321
Profiler Database	running	38863
ISE Indexing Engine	running	8120
AD Connector	running	11193
MFT Session Database	running	29871
MFT Log Processor	running	3792
Certificate Authority Service	running	11858
EST Service	running	6234
SXP Engine Service	disabled	
Docker Daemon	running	21583
TC-MAC Service	disabled	
pxGrid Infrastructure Service	disabled	
pxGrid Publisher Subscriber Service	disabled	
pxGrid Connection Manager	disabled	
pxGrid Controller	disabled	
PassiveID WMI Service	disabled	
PassiveID Syslog Service	disabled	
PassiveID API Service	disabled	
PassiveID Agent Service	disabled	
PassiveID Endpoint Service	disabled	
PassiveID SPAN Service	disabled	
DHCP Server (dhcpd)	disabled	
DNS Server (named)	disabled	
ISE Messaging Service	running	22928
ISE API Gateway Database Service	running	28969
ISE API Gateway Service	running	32131
Segmentation Policy Service	disabled	
REST Auth Service	disabled	
SSE Connector	disabled	

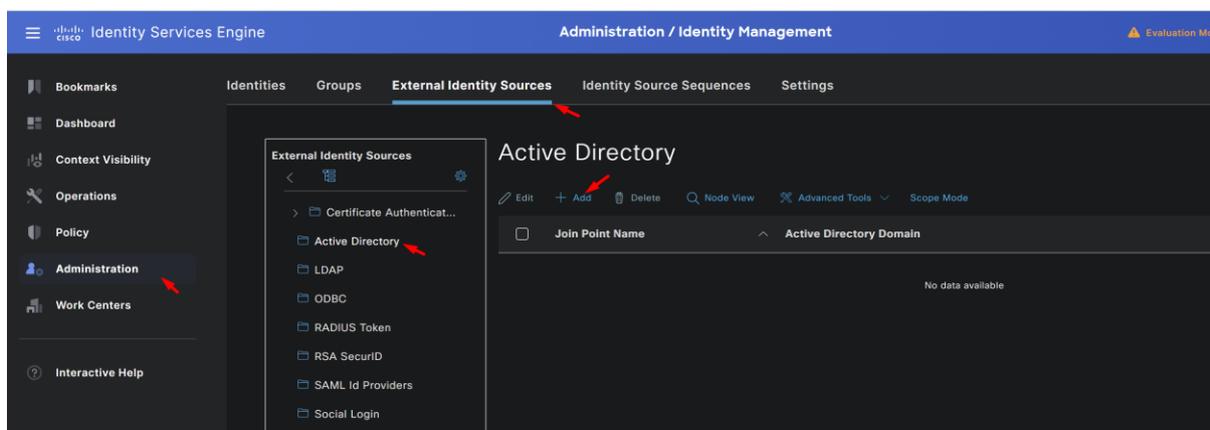
## VII. Active Directory joining to the ISE

### Objective: Join Active Directory as External Identity Source to the ISE

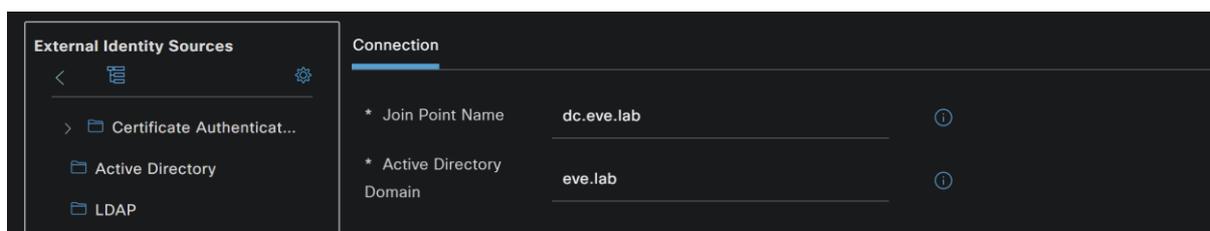
1. Open Mgmt host and navigate to Applications/Internet/Chromium Web Browser
  - ✓ Log into the ISE by browsing to <https://ise.eve.lab> using a username: **admin** and a password: **Test1234**
  - ✓ Click on side Administration/Identity Management/External Identity Sources



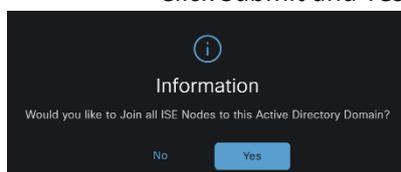
- ✓ Click Active Directory and "+ Add"



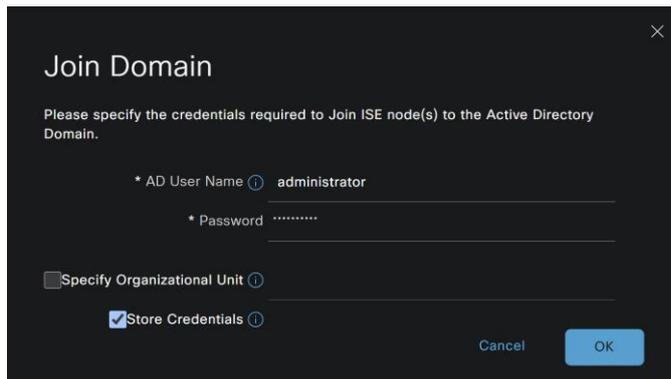
- ✓ Joint point name: **dc.eve.lab**
- ✓ Active Directory domain name: **eve.lab**



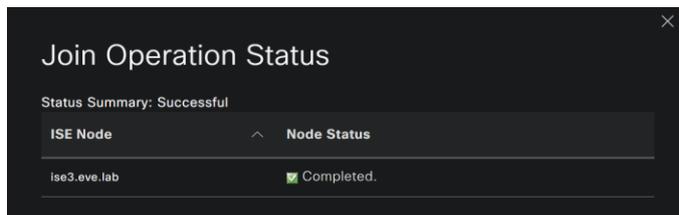
- ✓ Click Submit and Yes for Join



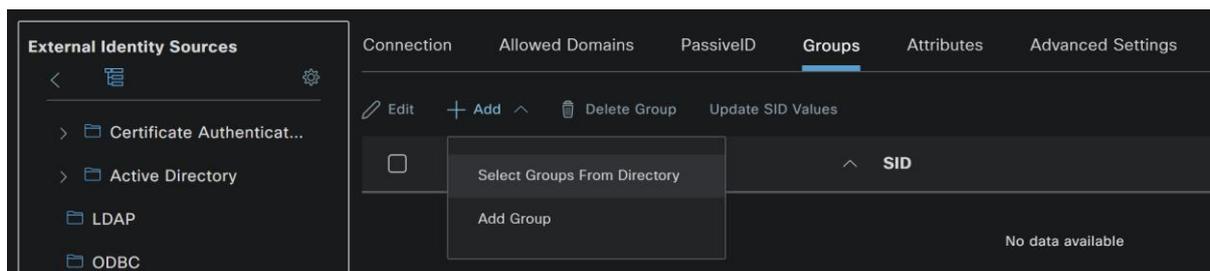
- ✓ Fill credentials AD User name: **administrator**, Password: **Test1234** (AD Server administrator password)



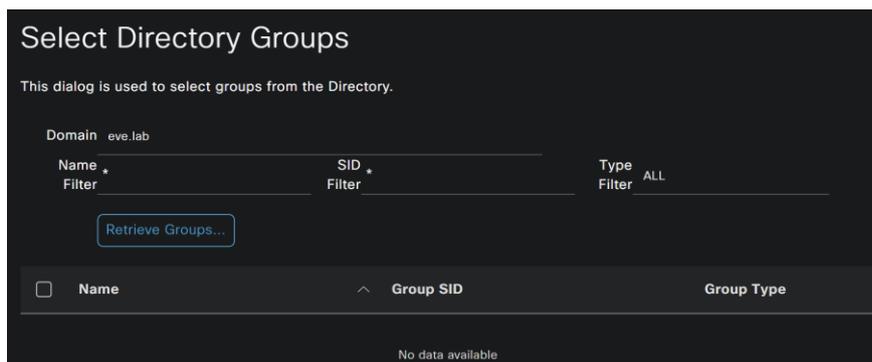
✓ Click OK, Status must be completed (green)



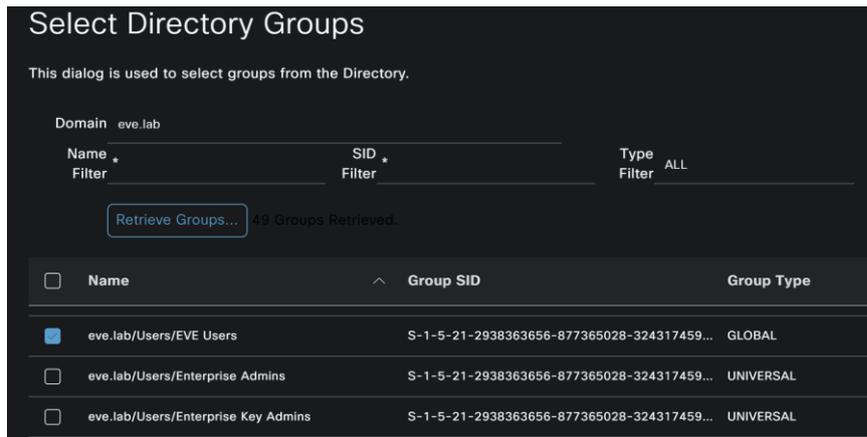
✓ Click Tab Groups/Select Groups From Directory



✓ Click Retrieve Groups



✓ Select EVE Users, Click OK



- ✓ To complete configuration at the bottom of screen click **Save**

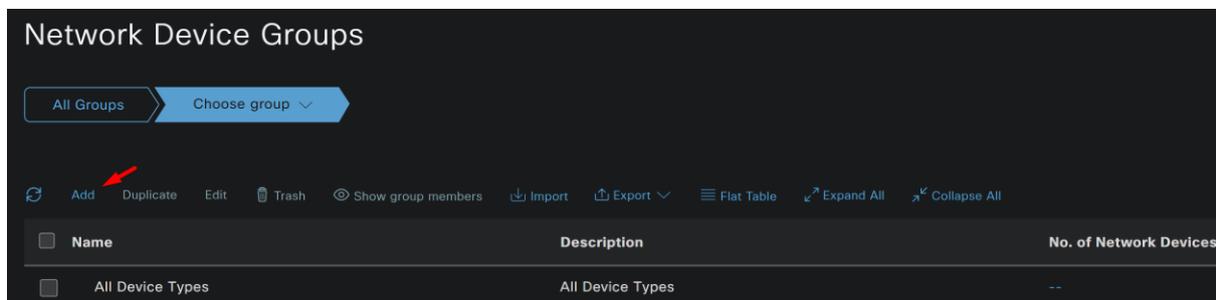
## VIII. EVE-NG Server joining to the ISE

### 1. Objective: Create Device Type Group

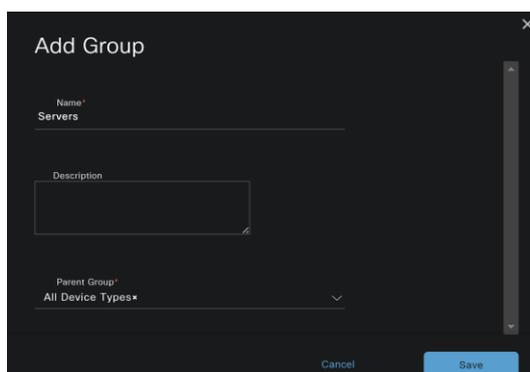
- ✓ Navigate to Administration/Network Device Groups



- ✓ Click to tab "Network Device Groups"
- ✓ Click "+ Add"

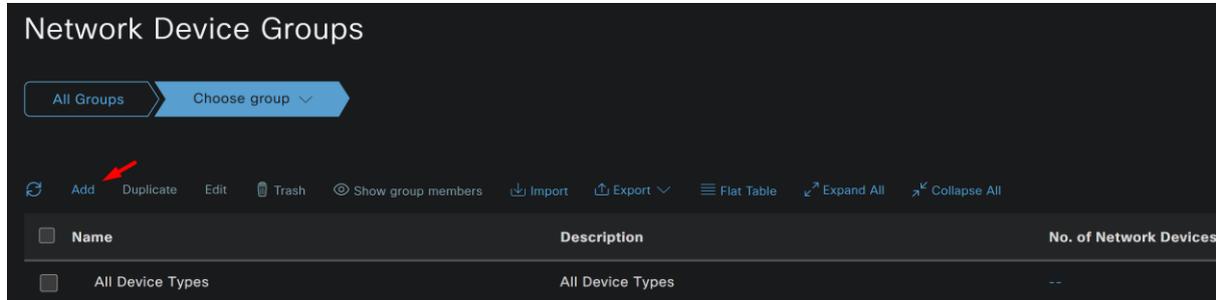


- ✓ Name: **Servers**
- ✓ Parent Group: **All Device Types**
- ✓ Click **Save**

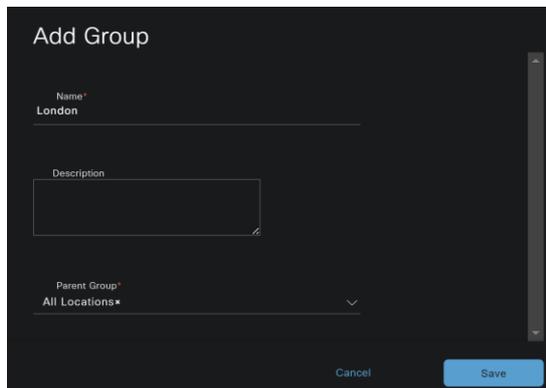


## 2. Objective: Create Location Group

- ✓ Click "+ Add"



- ✓ Name: **London**
- ✓ Parent Group: **All Locations**
- ✓ Click Save



## 3. Objective: Create Network Device Profile

- ✓ Navigate to Administration/Network Device Profiles
- ✓ Click "+ Add"



- ✓ Profile name: **Linux\_Server**
- ✓ Description: **EVE-NG VM Ware Linux Server**
- ✓ Vendor: **Other**
- ✓ Supported Protocols: **Radius**
- ✓ Submit

The screenshot shows the 'New Network Device Profile' configuration page. The 'Name' field is 'Linux\_Server' and the 'Description' is 'EVE-NG VM Ware Linux Server'. The 'Vendor' is set to 'Other'. Under 'Supported Protocols', the 'RADIUS' checkbox is checked. There are 'Submit' and 'Cancel' buttons at the top right.

#### 4. Objective: Join EVE-NG Server switch to the ISE radius

- ✓ Navigate to Administration/Network Devices
- ✓ Click "+ Add"



- ✓ Name: EVE-NG-Server
- ✓ Description: Linux VM Ware EVE-NG Server
- ✓ IP Address: 192.168.70.252
- ✓ Device Profile: Linux\_Server
- ✓ Model Name: VM\_Ware\_Machine
- ✓ Version: 5.0.1-106
- ✓ Location: London
- ✓ Device Type: Servers
- ✓ Select Radius checkbox
- ✓ Shared Secret: eve2023
- ✓ Submit

Network Devices | Network Device Groups | Network Device Profiles | External RADIUS Servers | RADIUS Server Sequences

Network Devices List > New Network Device

### Network Devices

Name: EVE-NG-Server

Description: Linux VM Ware EVE-NG Server

IP Address: \* IP: 192.168.70.252 / 32

Device Profile: Linux\_Server

Model Name: VM Ware Machine

Software Version: 5.0.1-106

Network Device Group

Location: London [Set To Default](#)

IPSEC: No [Set To Default](#)

Device Type: Servers [Set To Default](#)

RADIUS Authentication Settings

RADIUS UDP Settings

Protocol: RADIUS

Shared Secret: eve2023 [Hide](#)

Network Devices

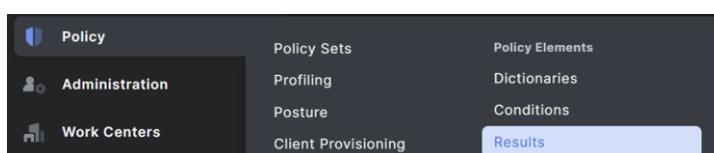
[Edit](#)
[+ Add](#)
[Duplicate](#)
[Import](#)
[Export](#)
[Generate PAC](#)
[Delete](#)

Name	IP/Mask	Profile Name	Location	Type	Description
EVE-NG-Se...	192.168.7...	Linux_Server	London	Servers	Linux VM Ware EVE-NG Server

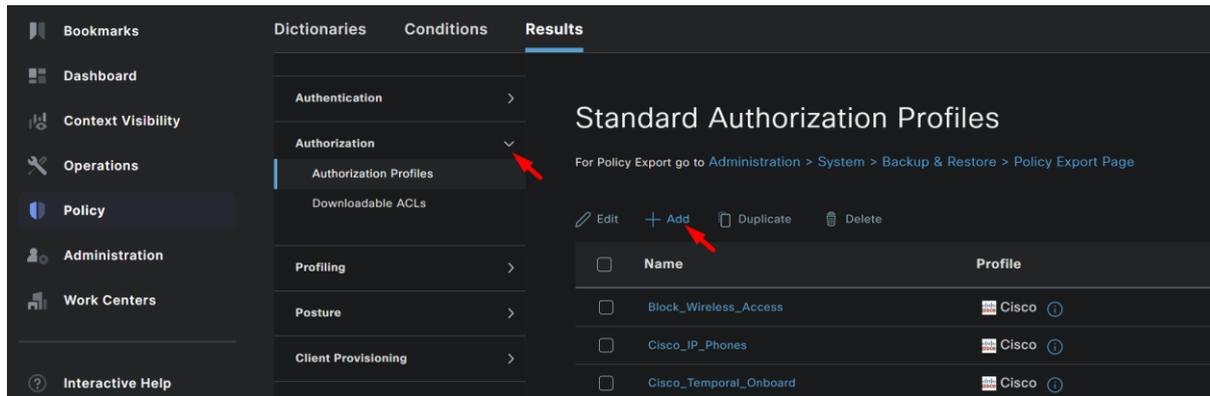
## IX. Create EVE Users authorization Profiles

### Objective: Create two (2) Authorization Profiles

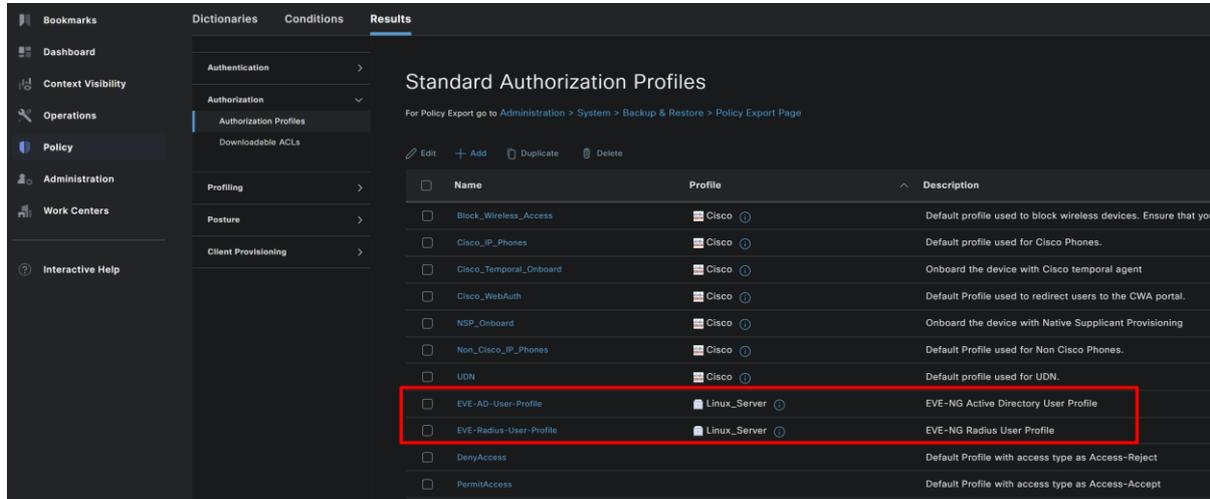
- ✓ Navigate to Policy/Results



- ✓ Expand Authorization/Authorization Profiles



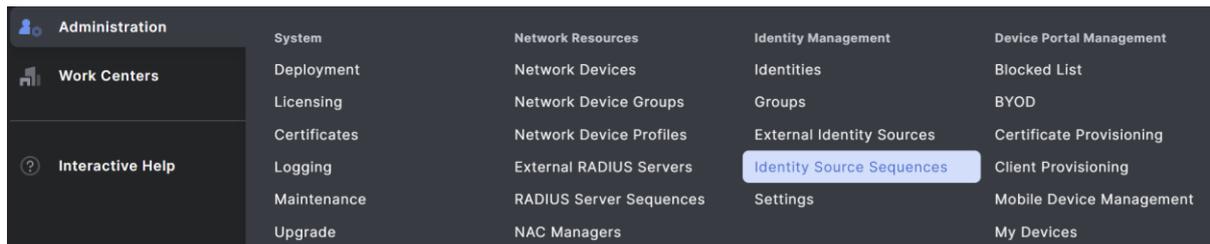
- ✓ Click "+ Add"
- ✓ Name: **EVE-AD-User-Profile**
- ✓ Description: EVE-NG Active Directory User Profile
- ✓ Network Device Profile: Linux\_Server
- ✓ Submit
- ✓ Click "+ Add"
- ✓ Name: **EVE-Radius-User-Profile**
- ✓ Description: EVE-NG Radius User Profile
- ✓ Network Device Profile: Linux\_Server
- ✓ Submit



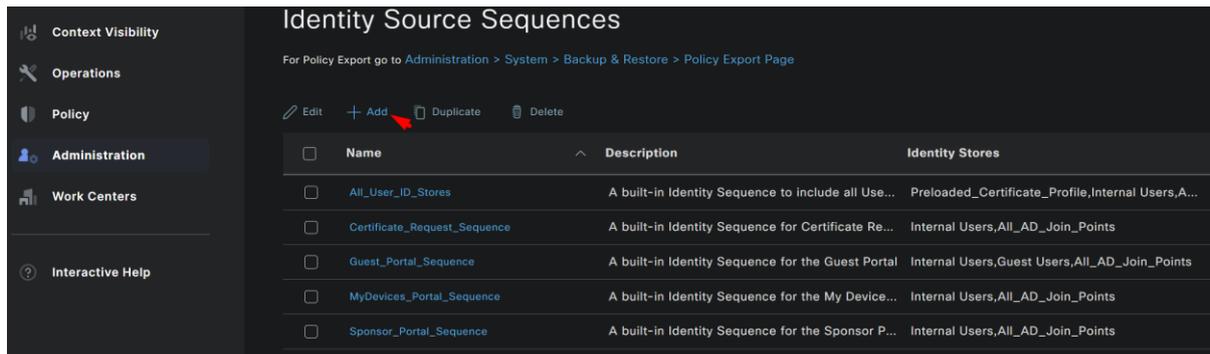
## X. Create Source Identity sequence

**Objective: Create Source identity sequence**

- ✓ Navigate to Administration/Identity Source Sequences

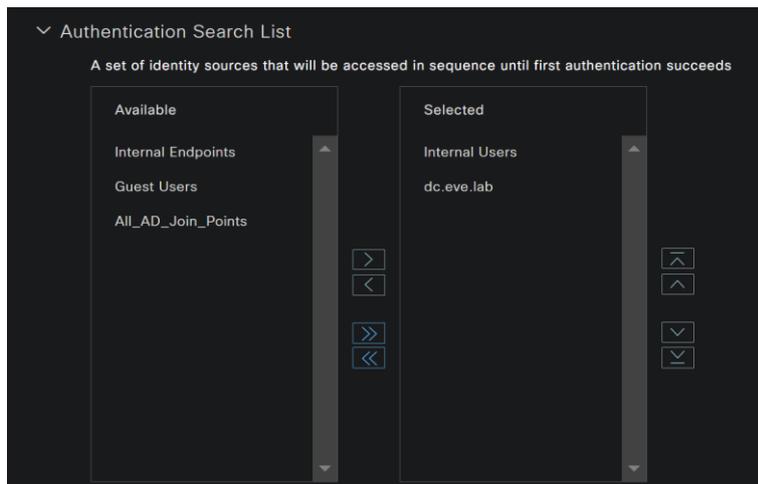


✓ Click "+ Add"



✓ Name: **EVE\_Identity\_Sequence**

✓ Select Identity sources: **dc.eve.lab** and **Internal Users**

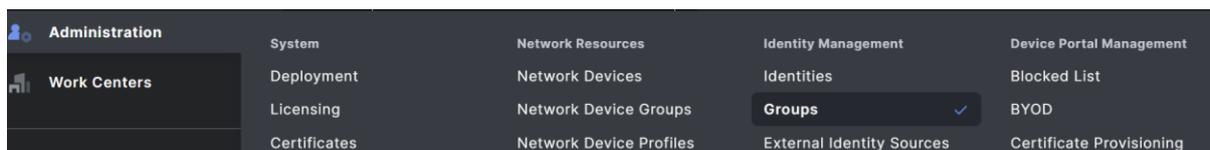


✓ Click: [Submit](#)

## XI. Create Radius User Identity group

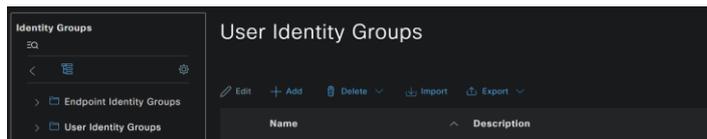
**Objective: Create User Identity Group**

✓ Navigate to ISE Management/Work Centers/TrustSec/Components

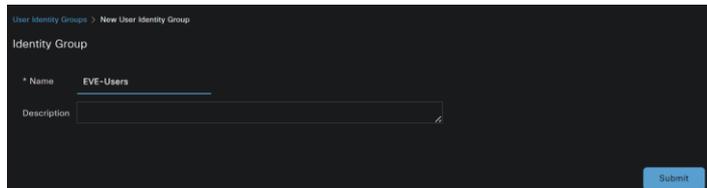


✓ Select user Identity Groups

✓ + Add



- ✓ Name: **EVE-users**
- ✓ Submit



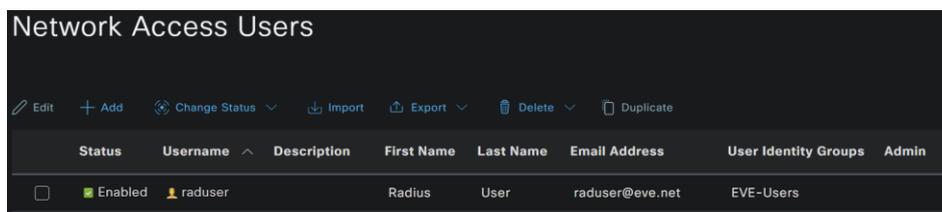
## XII. Create Internal Radius User

**Objective: Create Internal Radius User for EVE-NG test**

- ✓ Navigate to Administration/Identities



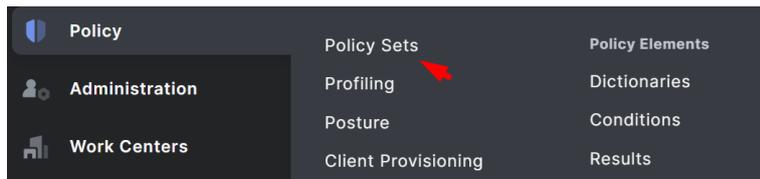
- ✓ Click + Add
- ✓ Username: raduser
- ✓ Status: Enabled
- ✓ Email: [raduser@eve.net](mailto:raduser@eve.net)
- ✓ 2x times type user password: Test1234
- ✓ User Information first name: Radius
- ✓ User Information last name: User
- ✓ User Group: EVE-Users
- ✓ Submit



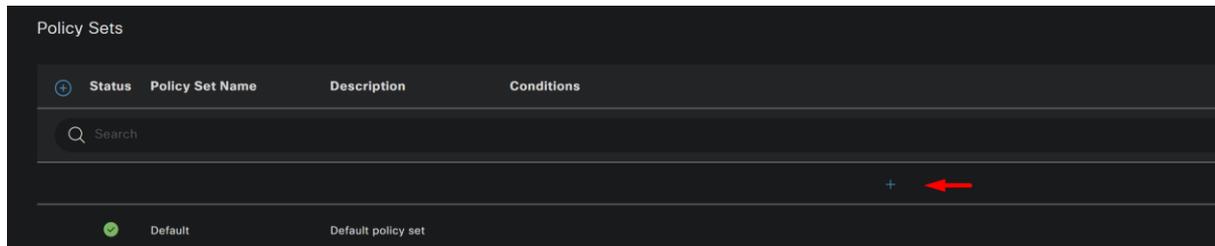
## XIII. Create Policy Set

**1. Objective: Create Policy EVE User authentication**

- ✓ Navigate to Administration/Policy/Policy Sets



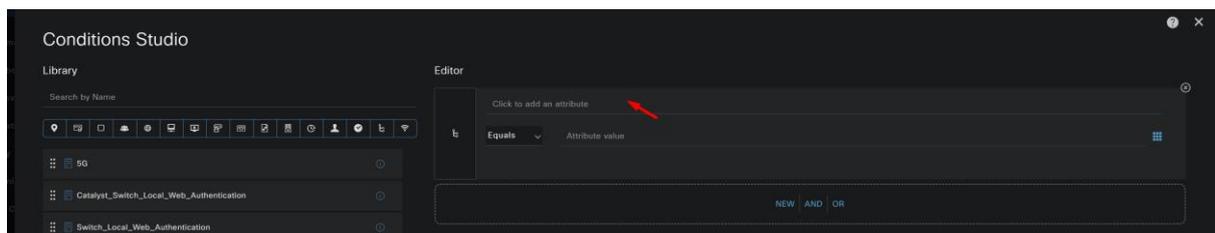
✓ Click “+” for new Policy



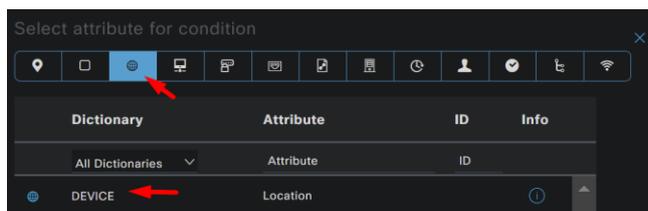
✓ Name: **EVE-POLICY**  
✓ Click “+” for New Conditions



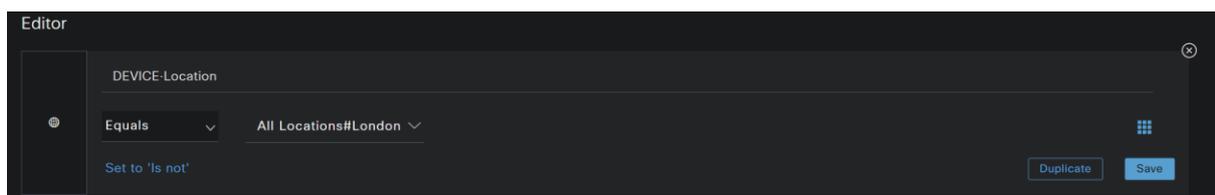
✓ In Conditions Studio Editor “Click to add an attribute”



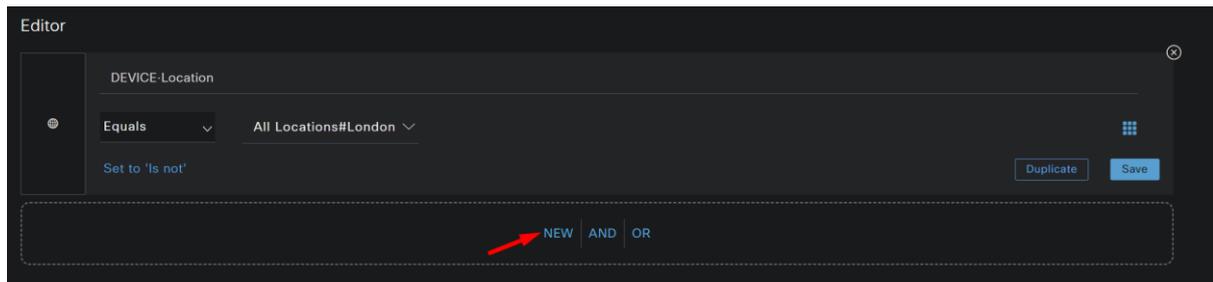
✓ In Editor “Click Tab Location”  
✓ Select Attribute **Location/device**



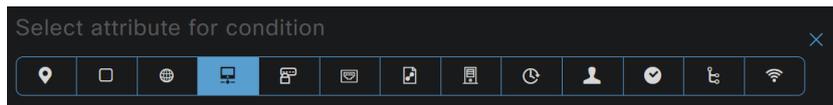
✓ Select equals from list: **All Locations/London**



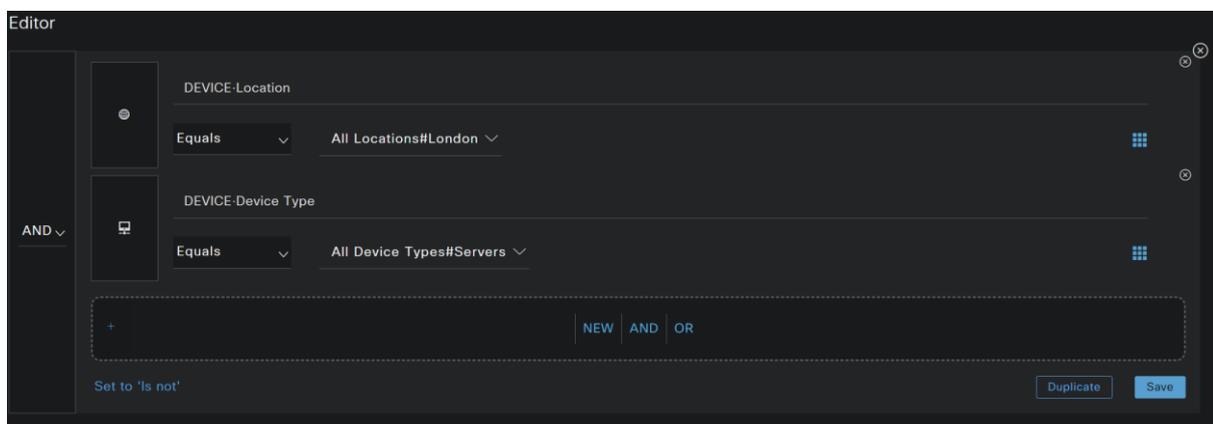
✓ Click **New** to add another attribute



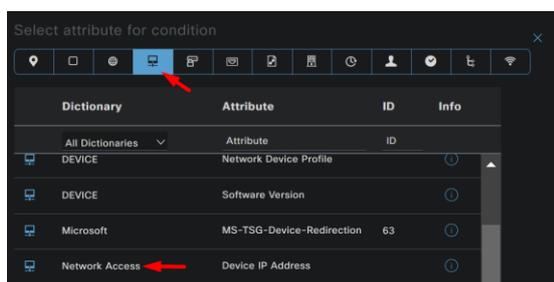
- ✓ In Editor “Click Tab Network Device”

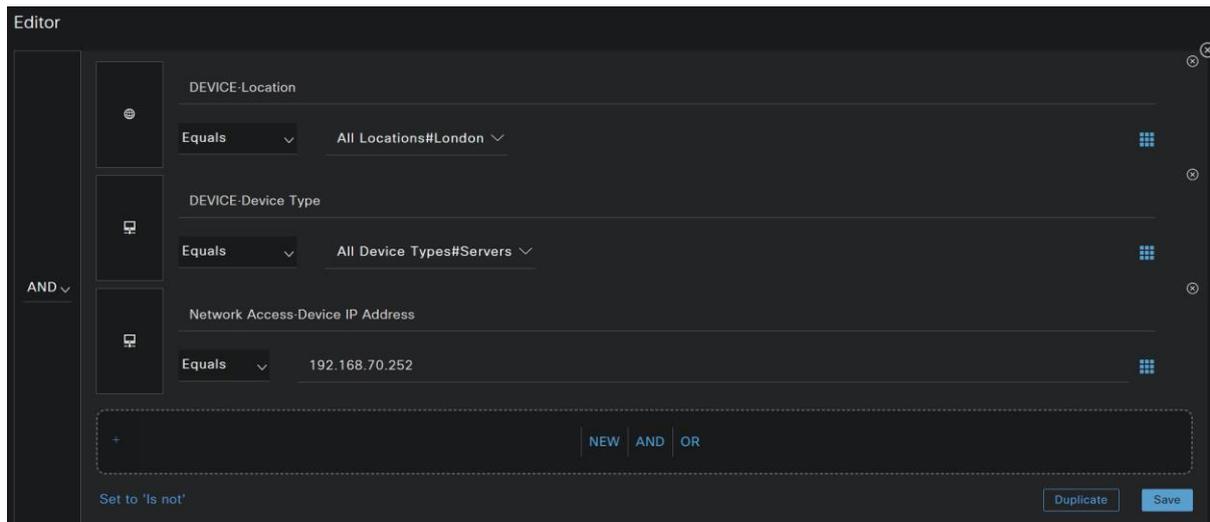


- ✓ Select Attribute **DEVICE: Device Type**
- ✓ Select equals from list: **All Device Types/Servers**

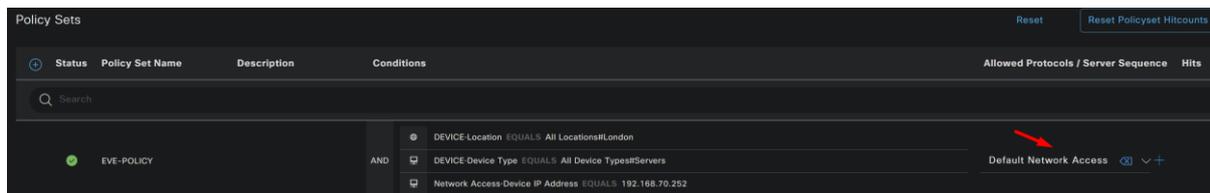


- ✓ Click **New** to add another attribute
- ✓ In Editor “Network Access”
- ✓ Under Dictionary select: **Network Access/Device IP Address**
- ✓ In the Equals type EVE Server IP: 192.168.70.252





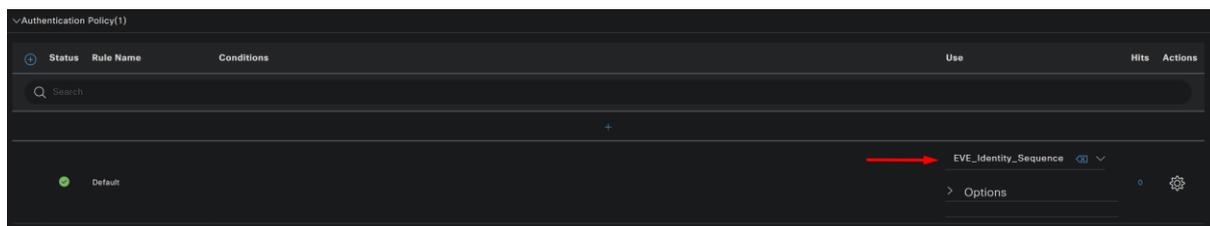
- ✓ Click **Use**
- ✓ Select Default Network Access for allowed Protocols



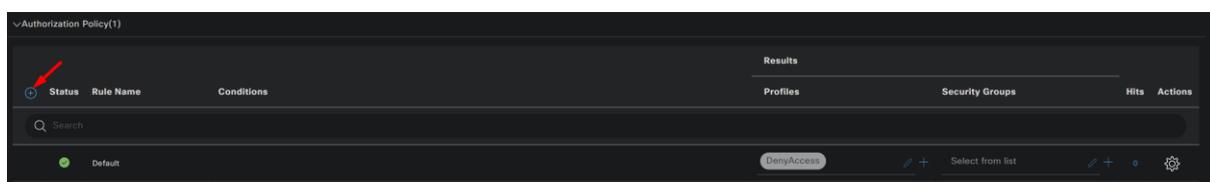
- ✓ Click **Save**
- 2. Objective: Authentication Policy**
- ✓ Click to View Policy “>”



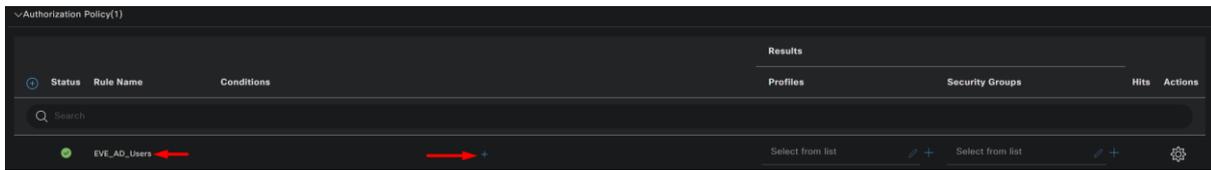
- ✓ Expand Authentications Policy
- ✓ For Default rules select Use: **EVE\_Identity\_Sequence**



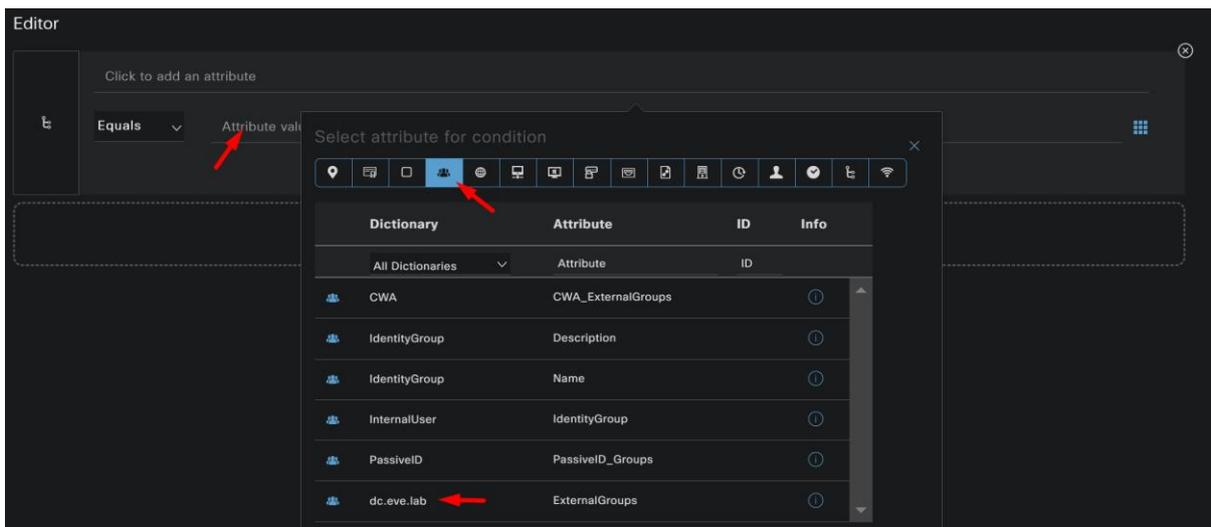
- 3. Objective: Create Active Directory Authorization Policy**
- ✓ Navigate to Authorization Policy
  - ✓ Expand Authorization Policy
  - ✓ Click “+” To add New Rule



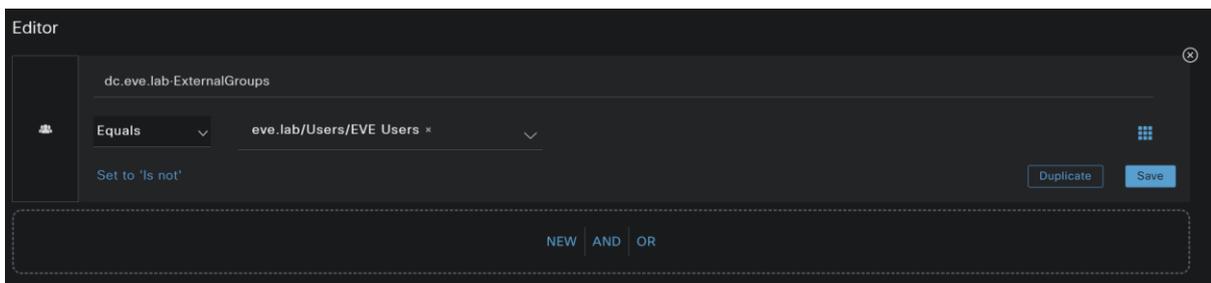
- ✓ Name: **EVE\_AD\_Users**
- ✓ Click “+” For new Condition



- ✓ Select Tab: Identity Group
- ✓ Select: **ad.eve.lab/ExternalGroups**

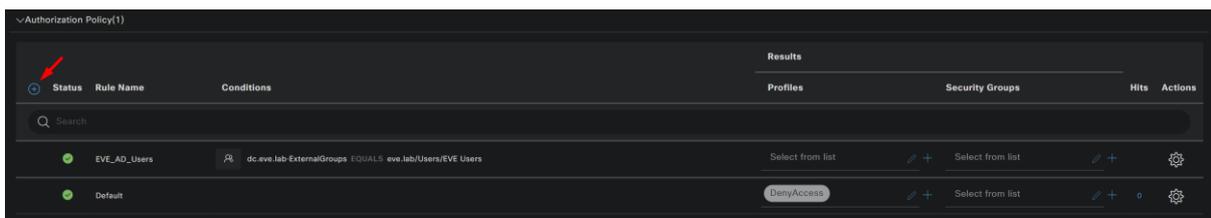


- ✓ Select Equal: **eve.lab/Users/EVE Users**
- ✓ Click: Use

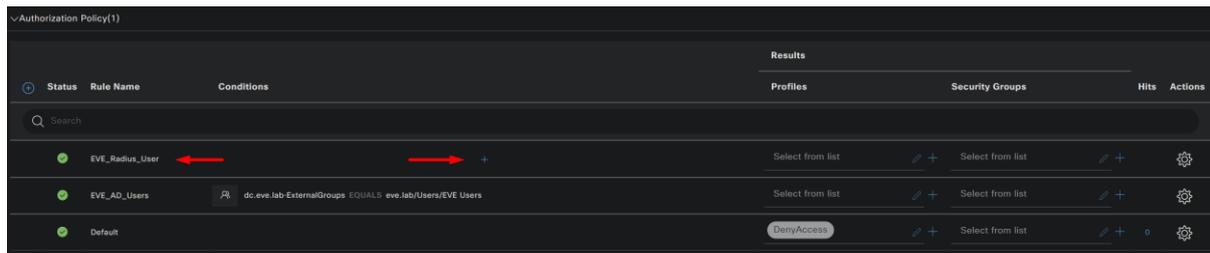


#### 4. Objective: EVE Radius Internal User Authorization Policy

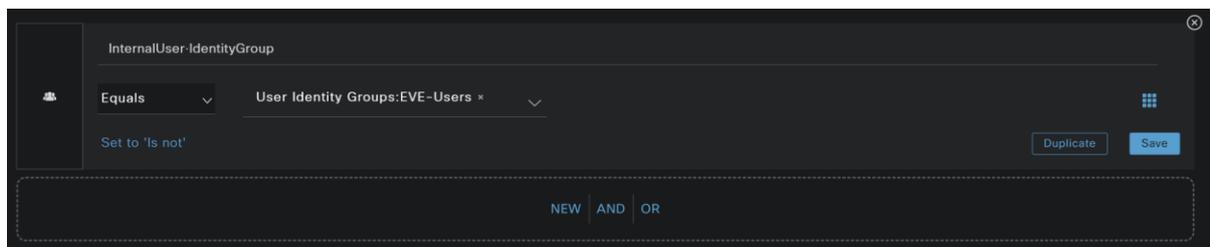
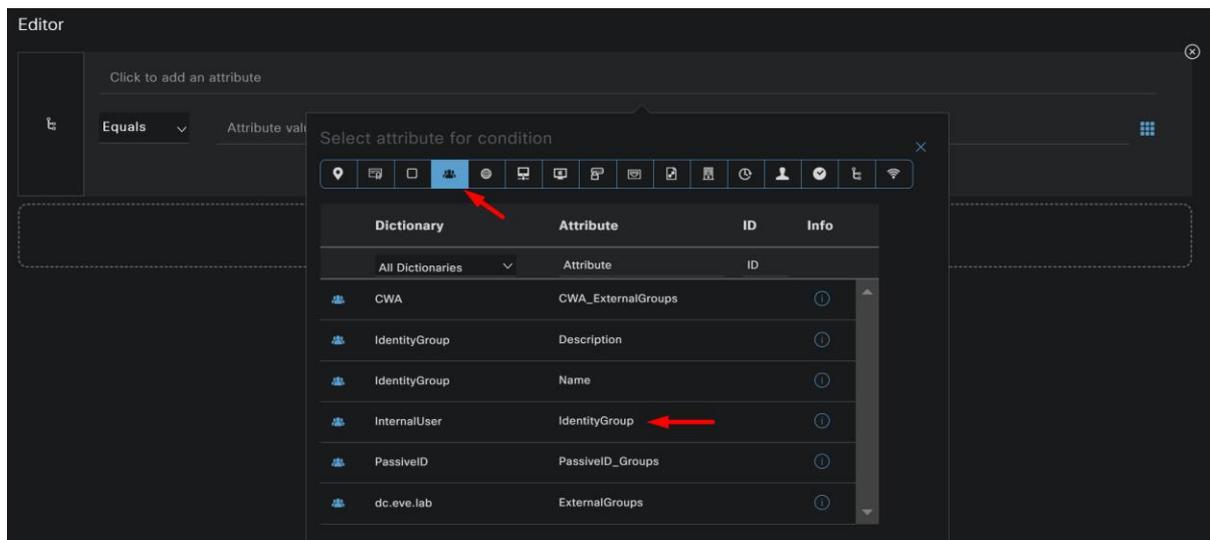
- ✓ Click “+” To add New Rule



- ✓ Name: **EVE-Radius-User**
- ✓ Click “+” to add New conditions

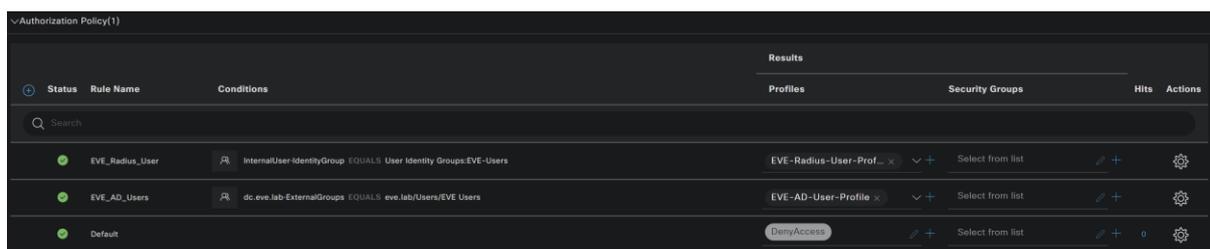


- ✓ Select Tab: **Identity Group**
- ✓ Attribute: **InternalUser/Identity Group**
- ✓ Equals: **User Identity Groups: EVE-Users**
- ✓ Click Use

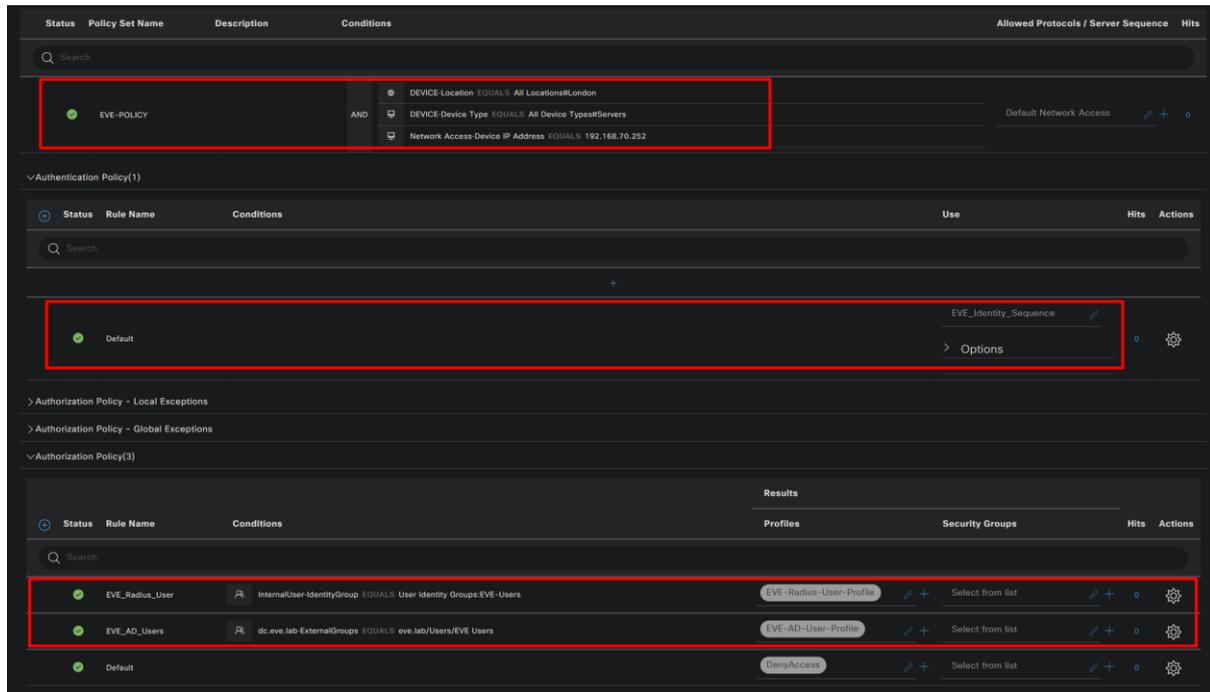


### 5. Objective: Assign Authorization Policy Profiles

- ✓ Click to each Authorization Policy profiles and choose
- ✓ EVE\_Radius\_Users: EVE-Radius-User-Profile
- ✓ EVE\_AD\_Users: EVE-AD-User-Profile



✓ Click Save



The screenshot shows the EVE-NG configuration interface. A red box highlights the 'EVE-POLICY' rule with conditions: 'DEVICE Location EQUALS All Locations@London', 'DEVICE Device Type EQUALS All Device Types@Servers', and 'Network Access-Device IP Address EQUALS 192.168.70.252'. Another red box highlights the 'Default' authentication policy with 'EVE\_Identity\_Sequence' and 'Options'. A third red box highlights the 'EVE\_Radius\_User' and 'EVE\_AD\_Users' profiles in the 'Authorization Policy(3)' section.

## XIV. EVE-NG Professional/Corporate settings

### 1. Objective: Configure EVE-NG Server settings for Radius

- ✓ Log in your EVE-NG WEB-UI
- ✓ Navigate System/System Settings
- ✓ Enter Radius #1 IP: 192.168.70.201
- ✓ Enter Shared Secret: eve2023

#### System settings

<b>Radius Server #1</b>	<b>IP</b>	<b>Port</b>	<b>Secret</b>
	<input type="text" value="192.168.70.201"/>	<input type="text" value="1812"/>	<input type="password" value="•••••"/>

### 2. Objective: Configure EVE-NG Server settings for Active Directory

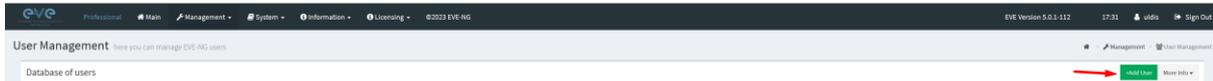
- ✓ Navigate System/System Settings
- ✓ Enter Active Directory Server IP: 192.168.70.200
- ✓ Check Enable TLS (For newer Windows Server versions 2019, 2022)
- ✓ Enter Base DN Record: dc=eve,dc=lab
- ✓ Enter EVE-NG Active Directory Group: EVE Users

<b>Active Directory Server</b>	<b>IP</b>	<b>Port</b>	<b>Enable TLS</b>
	<input type="text" value="192.168.70.200"/>	<input type="text" value="389"/>	<input checked="" type="checkbox"/>
<b>Base DN</b>	<input type="text" value="dc=eve,dc=lab"/>		
<b>EVE-NG Active Directory Group</b>	<input type="text" value="EVE Users"/>		

## XV. EVE-NG users for Active Directory

### 1. Objective: Create EVE-NG Active Directory User

- ✓ Log in your EVE-NG WEB-UI
- ✓ Navigate Management/User Management
- ✓ +Add User



- ✓ Create Active Directory Username: johndoe@eve.lab
- ✓ Authentication, select: Active Directory
- ✓ Email: johndoe@eve.lab
- ✓ Name: John Doe
- ✓ Select role: Editor for example
- ✓ Select console forced to be used for User: example html5
- ✓ Select EVE Cluster server, example Sat01b (user will be forced to use only satellite 1)
- ✓ Optional select time period for account validity
- ✓ Optional select resource quota CPU and RAM for User

### Add New User

**User Name\***

Use only [A-Za-z0-9\_~@]chars

**Authentication** active directory

**Password**

**Password Confirmation**

**Email**

Please enter an valid email

**Name**

**Role** Lab Editor

**Console** html5

**Satellite** SAT01B

**Account Validity**

**From** 2023-11-20 08:00 **to** 2023-11-30 20:00

**POD\***

**Quotas**

**CPU** 8 **RAM (GB)** 32

\* - Required Fields

## 2. Objective: Create EVE-NG Active Directory User for Radius Authentication

- ✓ Log in your EVE-NG WEB-UI
- ✓ Navigate Management/User Management
- ✓ +Add User
- ✓ Create Active Directory Username: **jennydoe@eve.lab**
- ✓ Authentication, select: **Radius**
- ✓ Email: [jennydoe@eve.lab](mailto:jennydoe@eve.lab)
- ✓ Name: Jenny Doe
- ✓ Select role: Editor for example
- ✓ Select console forced to be used for User: example html5
- ✓ Select EVE Cluster server, example Sat01b (user will be forced to use only satellite 1)
- ✓ Optional select time period for account validity
- ✓ Optional select resource quota CPU and RAM for User

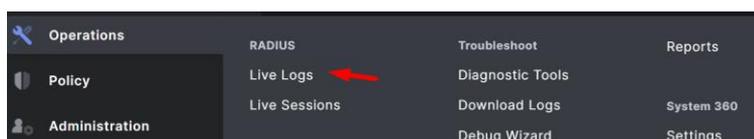
## 3. Objective: Create EVE-NG Radius User

- ✓ Log in your EVE-NG WEB-UI
- ✓ Navigate Management/User Management
- ✓ +Add User
- ✓ Create Active Directory Username: **raduser@eve.lab**
- ✓ Authentication, select: **Radius**
- ✓ Email: [raduser@eve.lab](mailto:raduser@eve.lab)
- ✓ Name: User Radius
- ✓ Select role: Editor for example
- ✓ Select console forced to be used for User: example html5
- ✓ Select EVE Cluster server, example Sat01b (user will be forced to use only satellite 1)
- ✓ Optional select time period for account validity
- ✓ Optional select resource quota CPU and RAM for User

## XVI. Radius and Active Directory users' verification

### 1. Objective: Verify direct Radius user authentication

- ✓ Open EVE-NG WEB UI page
- ✓ Username: raduser
- ✓ Password: Test1234
- ✓ Navigate to ISE Operations/radius/Live Logs



Time	Status	Details	Repea...	Identity	Endpoint ID	Endpoint...	Authentication Policy	Authorization Policy	Authorization Profiles	IP Address	Network De...	Device Port
Nov 21, 2023 06:03:50.7...				raduser			EVE-POLICY >> Default	EVE-POLICY >> EVE_Radius_User	EVE-Radius-User-Profile		EVE-NG-Server	

- ✓ You should observe Success Radius user session from EVE

## 2. Objective: Verify Active Directory RADIUS user authentication

- ✓ Open EVE-NG WEB UI page
- ✓ Username: jennydoe@eve.lab
- ✓ Password: Gold2023
- ✓ Navigate to ISE Operations/radius/Live Logs
- ✓ You should observe Success RADIUS user session from EVE

Time	Status	Details	Repea...	Identity	Endpoint ID	Endpoint...	Authentication Policy	Authorization Policy	Authorization Profiles	IP Address	Network De...	Device I
Nov 21, 2023 06:09:38.4...	✓			jennydoe@eve.lab			EVE-POLICY >> Default	EVE-POLICY >> EVE_AD_Users	EVE-AD-User-Profile		EVE-NG-Server	
Nov 21, 2023 06:03:50.7...	✓			radius			EVE-POLICY >> Default	EVE-POLICY >> EVE_Radius_User	EVE-Radius-User-Profile		EVE-NG-Server	

### Overview

Event	5200 Authentication succeeded
Username	jennydoe@eve.lab
Endpoint Id	
Endpoint Profile	
Authentication Policy	EVE-POLICY >> Default
Authorization Policy	EVE-POLICY >> EVE_AD_Users
Authorization Result	EVE-AD-User-Profile

### Authentication Details

Source Timestamp	2023-11-21 18:09:38.499
Received Timestamp	2023-11-21 18:09:38.499
Policy Server	ise3
Event	5200 Authentication succeeded
Username	jennydoe@eve.lab
Authentication Identity Store	dc.eve.lab
Authentication Method	PAP_ASCII
Authentication Protocol	PAP_ASCII
Network Device	EVE-NG-Server
Device Type	All Device Types#Servers
Location	All Locations#London
Authorization Profile	EVE-AD-User-Profile
Response Time	421 milliseconds

### Other Attributes

### Steps

Step ID	Description	Latency (ms)
11001	Received RADIUS Access-Request - dc.eve.lab	
11017	RADIUS created a new session - eve.lab	0
11015	An Access-Request MUST contain at least a NAS-IP-Address, NAS-IPv6-Address, or a NAS-Identifier; Continue processing - dc.eve.lab	0
11117	Generated a new session ID	1
15049	Evaluating Policy Group	4
15008	Evaluating Service Selection Policy	1
15048	Queried PIP - DEVICE.Location	4
15048	Queried PIP - DEVICE.Device Type	1
15048	Queried PIP - Network.Access.Device IP Address	0
15041	Evaluating Identity Policy	8
22072	Selected identity source sequence - EVE_Identity_Sequence	6
15013	Selected Identity Source - Internal Users	0
24210	Looking up User in Internal Users IDStore - jennydoe@eve.lab	1
24216	The user is not found in the internal users identity store	88
15013	Selected Identity Source - dc.eve.lab	1
24430	Authenticating user against Active Directory - dc.eve.lab	5
24325	Resolving identity - jennydoe@eve.lab	165
24313	Search for matching accounts at join point - eve.lab	0
24319	Single matching account found in forest - eve.lab	0
24323	Identity resolution detected single matching account	0
24343	RPC Logon request succeeded - jennydoe@eve.lab	49
24402	User authentication against Active Directory succeeded - dc.eve.lab	2
22037	Authentication Passed	0
15036	Evaluating Authorization Policy	0
15048	Queried PIP - Network.Access.UserName	23
15048	Queried PIP - InternalUser.IdentityGroup	3
24432	Looking up user in Active Directory - jennydoe@eve.lab	
24355	LDAP fetch succeeded	
24416	User's Groups retrieval from Active Directory succeeded	
15048	Queried PIP - dc.eve.lab.ExternalGroups	51
15016	Selected Authorization Profile - EVE-AD-User-Profile	5

## 3. Objective: Verify Active Directory user authentication

- ✓ Open EVE-NG WEB UI page
- ✓ Username: johndoe@eve.lab
- ✓ Password: Gold2023
- ✓ You should observe Success RADIUS user session from EVE

