

Configuration du WLC Catalyst 9800 avec authentification LDAP pour 802.1X et Web-auth

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Introduction

Ce document décrit comment configurer un Catalyst 9800 afin d'authentifier les clients avec un serveur LDAP comme base de données pour les identifiants d'utilisateur.

Conditions préalables

Conditions requises

Cisco vous recommande de prendre connaissance des rubriques suivantes :

- Serveurs Microsoft Windows
- Active Directory ou toute autre base de données LDAP

Components Used

C9800 EWC sur point d'accès C9100 qui exécute Cisco IOS®-XE version 17.3.2a

Serveur Microsoft Active Directory (AD) avec stockage d'accès réseau (NAS) QNAP qui agit comme base de données LDAP

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.

Configurer LDAP avec un SSID Webauth

Diagramme du réseau

Cet article a été écrit sur la base d'une configuration très simple :

Un point d'accès EWC AP 9115 avec IP 192.168.1.15

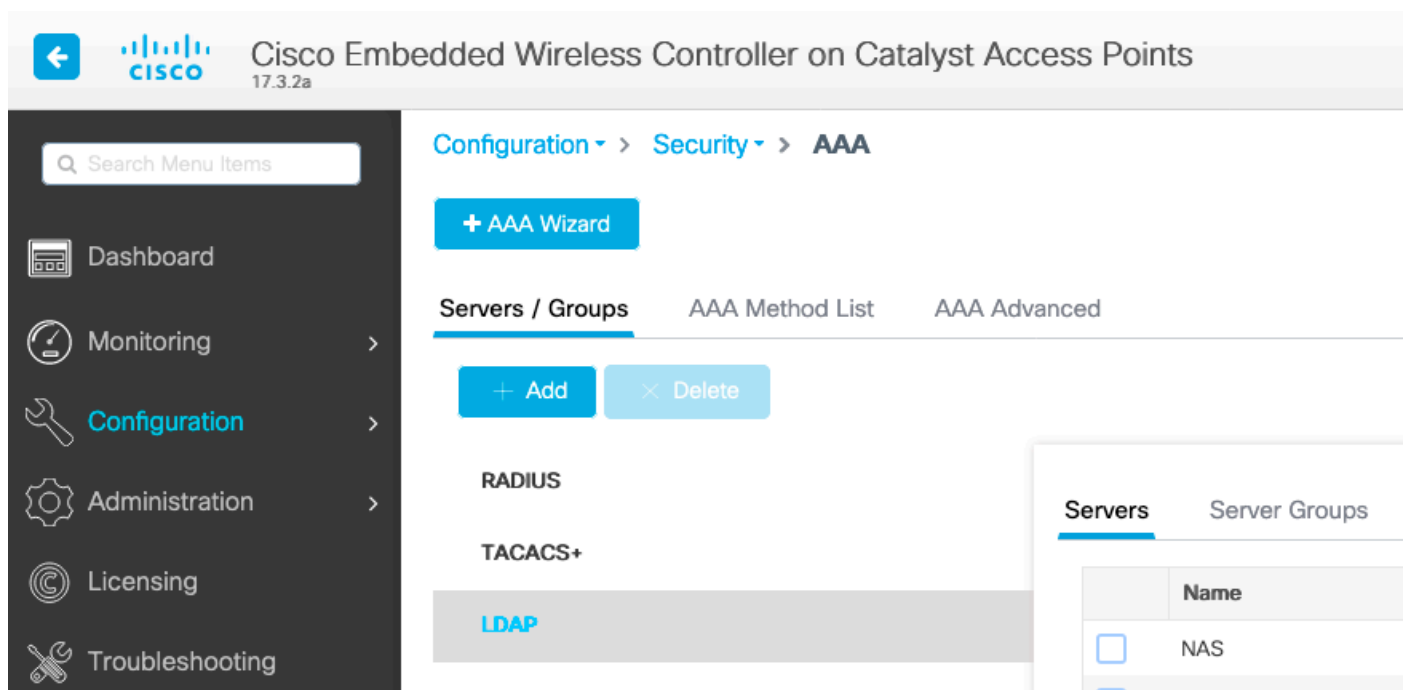
Un serveur Active Directory avec IP 192.168.1.192

Client qui se connecte au point d'accès interne du CEE

Configurer le contrôleur

Étape 1 : configuration du serveur LDAP

Accédez à **Configuration > Security > AAA > Servers/Groups > LDAP** et cliquez sur **+ Add**



The screenshot shows the Cisco Embedded Wireless Controller configuration interface. The breadcrumb navigation is **Configuration > Security > AAA**. Under the **AAA** section, there are three tabs: **Servers / Groups** (selected), **AAA Method List**, and **AAA Advanced**. A **+ AAA Wizard** button is visible. Below the tabs, there are **+ Add** and **× Delete** buttons. The **Servers / Groups** section is expanded to show **RADIUS**, **TACACS+**, and **LDAP**. The **LDAP** option is highlighted. On the right, a table titled **Servers** is visible, with a column for **Name** and one entry: **NAS**.

Choisissez un nom pour votre serveur LDAP et renseignez les détails. Pour obtenir des explications sur chaque champ, reportez-vous à la section « Comprendre les détails du serveur LDAP » de ce document.

Server Name*	<input type="text" value="AD"/>					
Server Address*	<input type="text" value="192.168.1.192"/>	⚠ Provide a valid Server address				
Port Number*	<input type="text" value="389"/>					
Simple Bind	<input type="text" value="Authenticated"/>	▼				
Bind User name*	<input type="text" value="Administrator@lab.cor"/>					
Bind Password *	<input type="text" value="."/>					
Confirm Bind Password*	<input type="text" value="."/>					
User Base DN*	<input type="text" value="CN=Users,DC=lab,DC:"/>					
User Attribute	<input type="text"/>	▼				
User Object Type	<input type="text"/>	+				
<table border="1"> <thead> <tr> <th>User Object Type</th> <th>Remove</th> </tr> </thead> <tbody> <tr> <td>Person</td> <td>✕</td> </tr> </tbody> </table>			User Object Type	Remove	Person	✕
User Object Type	Remove					
Person	✕					
Server Timeout (seconds)	<input type="text" value="0-65534"/>					
Secure Mode	<input type="checkbox"/>					
Trustpoint Name	<input type="text"/>	▼				

Enregistrer en cliquant sur **Mettre à jour et appliquer au périphérique**

Commandes CLI :

```
ldap server AD ipv4 192.168.1.192 bind authenticate root-dn Administrator@lab.com password 6
WCGYHKTDQPV]DeaHLSPF_GZ[E_MNi_AAB base-dn CN=Users,DC=lab,DC=com search-filter user-object-type
Person
```

Étape 2 : configuration d'un groupe de serveurs LDAP

Accédez à **Configuration > Security > AAA > Servers/ Groups > LDAP > Server Groups** et cliquez sur **+ADD**

+ AAA Wizard

Servers / Groups

AAA Method List

AAA Advanced

+ Add

× Delete

RADIUS

TACACS+

LDAP

Servers **Server Groups**

Name	Server 1	Ser
<input type="checkbox"/> Idapgr	AD	N/A

1 10 items per page

Entrez un nom et ajoutez le serveur LDAP que vous avez configuré à l'étape précédente.

Name*

Idapgr

Group Type

LDAP

Available Servers

Assigned Servers

NAS

>

AD

<

>>

<<

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⬆

Cliquez sur **Mettre à jour et appliquer** pour enregistrer.

Commandes CLI :

```
aaa group server ldap ldapgr server AD
```

Étape 3 : configuration de la méthode d'authentification AAA

Accédez à **Configuration > Security > AAA > AAA method List > Authentication** et cliquez sur **+Add**

+ AAA Wizard

Authentication

Authorization

Accounting

+ Add × Delete

	Name	Type	Group Type	Group1
<input type="checkbox"/>	default	login	local	N/A
<input type="checkbox"/>	ldapauth	login	group	ldapgr

Entrez un nom, choisissez le type de connexion et pointez sur le groupe de serveurs LDAP configuré précédemment.

Quick Setup: AAA Authentication

Method List Name* ldapauth

Type* login ⓘ

Group Type group ⓘ

Fallback to local

Available Server Groups Assigned Server Groups

radius ldap tacacs+ > < >> << ldapgr < > >> <<

Commandes CLI :

```
aaa authentication login ldapauth group ldapgr
```

Étape 4 : configuration d'une méthode d'autorisation AAA

Accédez à **Configuration > Security > AAA > AAA method list > Authorization** et cliquez sur **+Add**

+ AAA Wizard

Authentication

Authorization

Accounting

+ Add
× Delete

	Name	Type	Group Type	Group1
<input type="checkbox"/>	default	credential-download	group	ldapgr
<input type="checkbox"/>	ldapauth	credential-download	group	ldapgr

1 / 10 items per page

Créez une règle de type Credential-Download du nom de votre choix et pointez-la vers le groupe de serveurs LDAP créé précédemment

Quick Setup: AAA Authorization

Method List Name*

Type* ⓘ

Group Type ⓘ

Fallback to local

Authenticated

Available Server Groups

radius

ldap

tacacs+

>

<

>>

<<

Assigned Server Groups

ldapgr

↖

↗

↓

↑

Commandes CLI :

```
aaa authorization credential-download ldapauth group ldapgr
```

Étape 5 : configuration de l'authentification locale

Accédez à **Configuration > Security > AAA > AAA Advanced > Global Config**

Définissez l'authentification locale et l'autorisation locale sur **Method List** et choisissez la méthode d'authentification et d'autorisation configurée précédemment.

+ AAA Wizard

Global Config	Local Authentication	Method List
RADIUS Fallback	Authentication Method List	ldapauth
Attribute List Name	Local Authorization	Method List
Device Authentication	Authorization Method List	ldapauth
AP Policy	Radius Server Load Balance	<input checked="" type="checkbox"/> DISABLED
Password Policy	Interim Update	<input type="checkbox"/>
AAA Interface	Show Advanced Settings >>>	

Commandes CLI :

```
aaa local authentication ldapauth authorization ldapauth
```

Étape 6 : configuration de la carte-paramètre webauth

Accédez à **Configuration > Security > Web Auth** et modifiez la carte globale

Configuration > Security > **Web Auth**

+ Add × Delete

	Parameter Map Name
<input type="checkbox"/>	global

« ‹ 1 › » 10 items per page

Assurez-vous de configurer une adresse IPv4 virtuelle telle que 192.0.2.1 (cette adresse IP/sous-réseau spécifique est réservée à l'adresse IP virtuelle non routable).

Edit Web Auth Parameter

General

Advanced

Parameter-map name	<input type="text" value="global"/>
Banner Type	<input checked="" type="radio"/> None <input type="radio"/> Banner Text <input type="radio"/> Banner Title <input type="radio"/> File Name
Maximum HTTP connections	<input type="text" value="100"/>
Init-State Timeout(secs)	<input type="text" value="120"/>
Type	<input type="text" value="webauth"/>
Virtual IPv4 Address	<input type="text" value="192.0.2.1"/>
Trustpoint	<input type="text" value="--- Select ---"/>
Virtual IPv4 Hostname	<input type="text"/>
Virtual IPv6 Address	<input type="text" value=":::~::~"/>
Web Auth intercept HTTPs	<input type="checkbox"/>
Watch List Enable	<input type="checkbox"/>
Watch List Expiry Timeout(secs)	<input type="text" value="600"/>
Captive Bypass Portal	<input type="checkbox"/>
Disable Success Window	<input type="checkbox"/>
Disable Logout Window	<input type="checkbox"/>
Disable Cisco Logo	<input type="checkbox"/>
Sleeping Client Status	<input type="checkbox"/>
Sleeping Client Timeout (minutes)	<input type="text" value="720"/>

Cliquez sur **Apply** pour enregistrer.

Commandes CLI :

```
parameter-map type webauth global type webauth virtual-ip ipv4 192.0.2.1
```

Étape 7 : configuration d'un WLAN webauth

Accédez à **Configuration > WLANs** et cliquez sur **+Add**

Edit WLAN

⚠ Changing WLAN parameters while it is enabled will result in loss of connectivity for clients connected to it.

General Security Add To Policy Tags

⚠ Please add the WLANs to Policy Tags for them to broadcast.

Profile Name*	<input type="text" value="webauth"/>	Radio Policy	<input type="text" value="All"/>
SSID*	<input type="text" value="webauth"/>	Broadcast SSID	<input checked="" type="checkbox"/> ENABLED
WLAN ID*	<input type="text" value="2"/>		
Status	<input checked="" type="checkbox"/> ENABLED		

Configurez le nom, assurez-vous qu'il est à l'état activé, puis passez à l'onglet **Sécurité**.

Dans le sous-onglet **Layer 2**, assurez-vous qu'il n'y a aucune sécurité et que la transition rapide est désactivée.

Edit WLAN

⚠ Changing WLAN parameters while it is enabled will result in loss of connectivity for clients connected to it.

General **Security** Add To Policy Tags

Layer2 Layer3 AAA

Layer 2 Security Mode	<input type="text" value="None"/>	Lobby Admin Access	<input type="checkbox"/>
MAC Filtering	<input type="checkbox"/>	Fast Transition	<input type="text" value="Disabled"/>
OWE Transition Mode	<input type="checkbox"/>	Over the DS	<input type="checkbox"/>
		Reassociation Timeout	<input type="text" value="20"/>

Dans l'onglet **Layer3**, activez la **stratégie Web**, définissez la carte de paramètre sur **global** et définissez la liste d'authentification sur la méthode de connexion aaa configurée précédemment.

⚠ Changing WLAN parameters while it is enabled will result in loss of connectivity for clients connected to it.

General **Security** Add To Policy Tags

Layer2 **Layer3** AAA

Web Policy



[Show Advanced Settings >>>](#)

Web Auth Parameter Map

global



Authentication List

ldapauth



For Local Login Method List to work, please make sure the configuration 'aaa authorization network default local' exists on the device

Enregistrer en cliquant sur **Appliquer**

Commandes CLI :

```
wlan webauth 2 webauth no security ft adaptive no security wpa no security wpa wpa2 no security
wpa wpa2 ciphers aes no security wpa akm dot1x security web-auth security web-auth
authentication-list ldapauth security web-auth parameter-map global no shutdown
```

Étape 8. Assurez-vous que le SSID est diffusé

Accédez à **Configuration > Tags** et assurez-vous que le SSID est inclus dans le profil de stratégie actuellement géré par le SSID (le default-policy-tag pour une nouvelle configuration si vous n'avez pas encore configuré les tags). Par défaut, default-policy-tag ne diffuse pas les nouveaux SSID que vous créez tant que vous ne les incluez pas manuellement.

Cet article ne traite pas de la configuration des profils de stratégie et suppose que vous connaissez cette partie de la configuration.

Configurer LDAP avec un SSID dot1x (à l'aide de l'EAP local)

La configuration de LDAP pour un SSID 802.1X sur le 9800 nécessite généralement également la configuration de Local EAP. Si vous deviez utiliser RADIUS, votre serveur RADIUS serait chargé d'établir une connexion avec la base de données LDAP et cela sort du cadre de cet article. Avant d'essayer cette configuration, il est conseillé de configurer Local EAP avec un utilisateur local configuré sur le WLC en premier, un exemple de configuration est fourni dans la section références à la fin de cet article. Cela fait, vous pouvez essayer de déplacer la base de données utilisateur vers LDAP.

Étape 1 : configuration d'un profil EAP local

Accédez à **Configuration > Local EAP** et cliquez sur **+Add**



Search Menu Items



Dashboard



Monitoring



Configuration



Administration



Licensing



Troubleshooting

Configuration > Security > Local EAP

Local EAP Profiles

EAP-FAST Parameters

+ Add

× Delete

	Profile Name
<input type="checkbox"/>	PEAP

1 10 items per page

Choisissez un nom pour votre profil. Activez au moins PEAP et sélectionnez un nom de point de confiance. Par défaut, votre WLC n'a que des certificats auto-signés, donc peu importe lequel vous choisissez (typiquement TP-self-signed-xxxx est le meilleur à cet effet), mais comme les nouvelles versions du système d'exploitation des smartphones font confiance à de moins en moins de certificats auto-signés, pensez à installer un certificat publiquement signé approuvé.

Edit Local EAP Profiles

Profile Name*

PEAP

LEAP

EAP-FAST

EAP-TLS

PEAP

Trustpoint Name

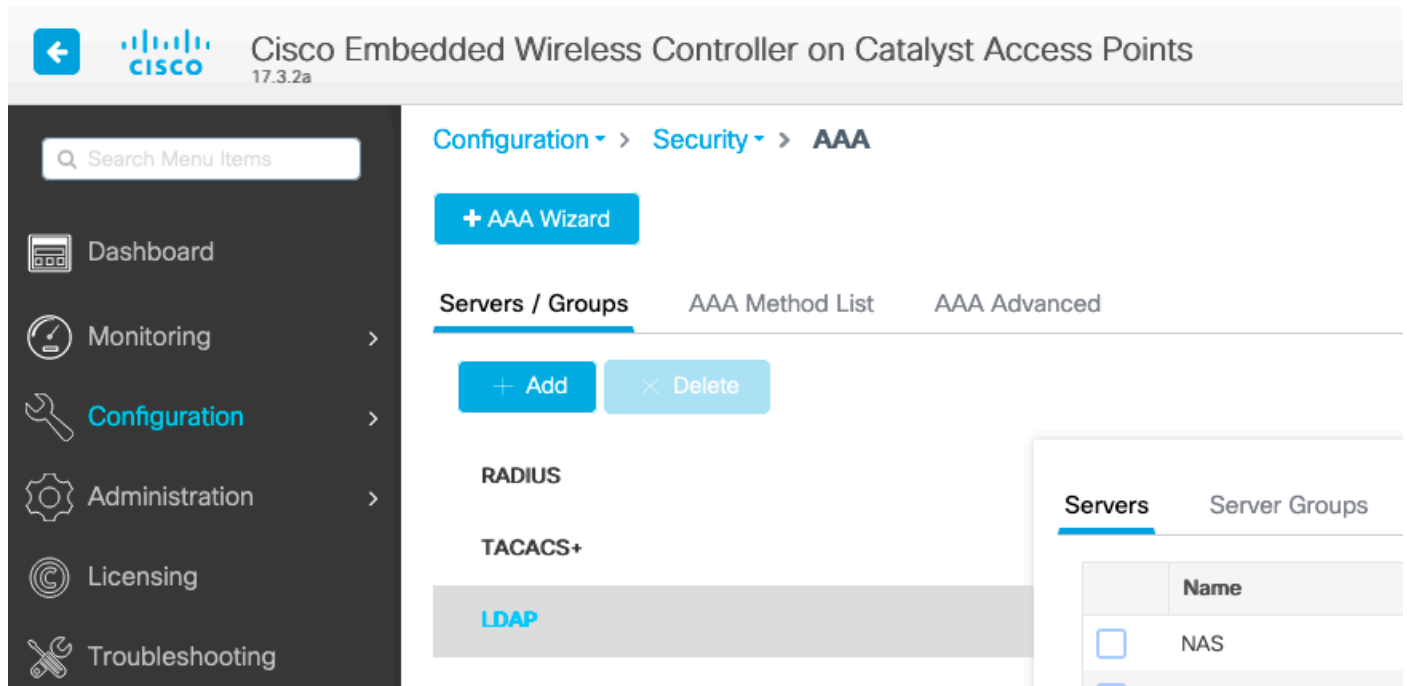
TP-self-signed-3059

Commandes CLI :

eap profile PEAP method peap pki-trustpoint TP-self-signed-3059261382

Étape 2 : configuration du serveur LDAP

Accédez à **Configuration > Security > AAA > Servers/Groups > LDAP** et cliquez sur **+ Add**



The screenshot shows the Cisco Embedded Wireless Controller configuration interface. The breadcrumb navigation is **Configuration > Security > AAA**. The **Servers / Groups** tab is selected, showing a list of server types: **RADIUS**, **TACACS+**, and **LDAP**. The **LDAP** option is highlighted. A **+ Add** button is visible. On the right, a table titled **Servers** is partially visible, showing a table with a **Name** column and one entry: **NAS**.

Servers	
	Name
<input type="checkbox"/>	NAS

Choisissez un nom pour votre serveur LDAP et renseignez les détails. Pour obtenir des explications sur chaque champ, reportez-vous à la section « Comprendre les détails du serveur LDAP » de ce document.

Server Name*	<input type="text" value="AD"/>					
Server Address*	<input type="text" value="192.168.1.192"/>	⚠ Provide a valid Server address				
Port Number*	<input type="text" value="389"/>					
Simple Bind	<input type="text" value="Authenticated"/>	▼				
Bind User name*	<input type="text" value="Administrator@lab.cor"/>					
Bind Password *	<input type="text" value="."/>					
Confirm Bind Password*	<input type="text" value="."/>					
User Base DN*	<input type="text" value="CN=Users,DC=lab,DC:"/>					
User Attribute	<input type="text"/>	▼				
User Object Type	<input type="text"/>	+				
	<table border="1"> <thead> <tr> <th>User Object Type</th> <th>Remove</th> </tr> </thead> <tbody> <tr> <td>Person</td> <td>✕</td> </tr> </tbody> </table>		User Object Type	Remove	Person	✕
User Object Type	Remove					
Person	✕					
Server Timeout (seconds)	<input type="text" value="0-65534"/>					
Secure Mode	<input type="checkbox"/>					
Trustpoint Name	<input type="text"/>	▼				

Enregistrer en cliquant sur **Mettre à jour et appliquer au périphérique**

```
ldap server AD ipv4 192.168.1.192 bind authenticate root-dn Administrator@lab.com password 6
WCGYHKTDQPV]DeaHLSPF_GZ[E_MNi_AAB base-dn CN=Users,DC=lab,DC=com search-filter user-object-type
Person
```

Étape 3 : configuration d'un groupe de serveurs LDAP

Accédez à **Configuration > Security > AAA > Servers/ Groups > LDAP > Server Groups** et cliquez sur **+ADD**

+ AAA Wizard

Servers / Groups

AAA Method List

AAA Advanced

+ Add

× Delete

RADIUS

TACACS+

LDAP

Servers

Server Groups

Name	Server 1	Ser
<input type="checkbox"/> Idapgr	AD	N/A

1 10 items per page

Entrez un nom et ajoutez le serveur LDAP que vous avez configuré à l'étape précédente.

Name*

Idapgr

Group Type

LDAP

Available Servers

Assigned Servers

NAS

AD

>

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Cliquez sur **Mettre à jour et appliquer** pour enregistrer.

Commandes CLI :

```
aaa group server ldap ldapgr server AD
```

Étape 4 : configuration d'une méthode d'authentification AAA

Accédez à **Configuration > Security > AAA > AAA Method List > Authentication** et cliquez sur **+Add**

Configurez une méthode d'authentification de type **dot1x** et pointez-la vers local uniquement. Il serait tentant de pointer vers le groupe de serveurs LDAP, mais c'est le WLC lui-même qui agit ici

en tant qu'authentificateur 802.1X (bien que la base de données utilisateur soit sur LDAP, mais c'est le travail de méthode d'autorisation).

Quick Setup: AAA Authentication

Method List Name*

ldapauth

Type*

dot1x



Group Type

local



Available Server Groups

Assigned Server Groups

radius
ldap
tacacs+
ldapgr



Commande CLI :

```
aaa authentication dot1x ldapauth local
```

Étape 5 : configuration d'une méthode d'autorisation AAA

Accédez à **Configuration > Security > AAA > AAA Method List > Authorization** et cliquez sur **+Add**

Créez une méthode d'autorisation de type **credential-download** et faites-la pointer vers le groupe LDAP.

Quick Setup: AAA Authorization

Method List Name*

ldapauth

Type*

credential-download ▾



Group Type

group ▾



Fallback to local

Authenticated

Available Server Groups

radius
ldap
tacacs+



Assigned Server Groups

ldapgr



Commande CLI :

```
aaa authorization credential-download ldapauth group ldapgr
```

Étape 6. Configuration des détails de l'authentification locale

Accédez à **Configuration > Security > AAA > AAA Method List > AAA advanced**

Choisissez **Method List** pour l'authentification et l'autorisation et choisissez la méthode d'authentification dot1x pointant localement et la méthode d'autorisation de téléchargement d'identifiants pointant vers LDAP

Configuration > Security > AAA

+ AAA Wizard

Servers / Groups AAA Method List **AAA Advanced**

Global Config

- RADIUS Fallback
- Attribute List Name
- Device Authentication
- AP Policy
- Password Policy
- AAA Interface

Local Authentication Method List ▼

Authentication Method List ldapauth ▼

Local Authorization Method List ▼

Authorization Method List ldapauth ▼

Radius Server Load Balance DISABLED

Interim Update

[Show Advanced Settings >>>](#)

Commande CLI :

```
aaa local authentication ldapauth authorization ldapauth
```

Étape 7 : configuration d'un réseau local sans fil dot1x

Accédez à **Configuration > WLAN** et cliquez sur **+Add**

Choisissez un profil et un nom SSID et assurez-vous qu'il est activé.

Edit WLAN

⚠ Changing WLAN parameters while it is enabled will result in loss of connectivity for clients connected to it.

General Security Add To Policy Tags

⚠ Please add the WLANs to Policy Tags for them to broadcast.

Profile Name*	<input type="text" value="LDAP"/>	Radio Policy	<input style="border: 1px solid #ccc;" type="text" value="All"/>
SSID*	<input type="text" value="LDAP"/>	Broadcast SSID	<input checked="" type="checkbox"/> ENABLED
WLAN ID*	<input type="text" value="1"/>		
Status	<input checked="" type="checkbox"/> ENABLED		

Accédez à l'onglet Layer 2 **security**.

Choisissez WPA+WPA2 comme **mode de sécurité de couche 2**

Vérifiez que WPA2 et AES sont activés dans les **paramètres WPA** et activez **802.1X**

Edit WLAN

⚠ Changing WLAN parameters while it is enabled will result in loss of connectivity for clients connected to it.

General **Security** Add To Policy Tags

Layer2 Layer3 AAA

Layer 2 Security Mode

WPA + WPA2 ▼

MAC Filtering

Lobby Admin Access

Fast Transition

Adaptive Enab... ▼

Protected Management Frame

Over the DS

PMF

Disabled ▼

Reassociation Timeout

20

WPA Parameters

MPSK Configuration

MPSK

WPA Policy

WPA2 Policy

GTK Randomize

OSEN Policy

WPA2 Encryption

AES(CCMP128)

CCMP256

GCMP128

GCMP256

Auth Key Mgmt

802.1x

PSK

CCKM

FT + 802.1x

FT + PSK

802.1x-SHA256

PSK-SHA256

Accédez au sous-onglet **AAA**.

Choisissez la méthode d'authentification dot1x créée précédemment, activez l'authentification EAP locale et choisissez le profil EAP configuré à la première étape.

Edit WLAN

⚠ Changing WLAN parameters while it is enabled will result in loss of connectivity for clients connected to it.

General **Security** Add To Policy Tags

Layer2 Layer3 **AAA**

Authentication List	Idapauth	▼	ⓘ
Local EAP Authentication	<input checked="" type="checkbox"/>		
EAP Profile Name	PEAP	▼	

Enregistrer en cliquant sur Appliquer

Commandes CLI :

```
wlan LDAP 1 LDAP local-auth PEAP security dot1x authentication-list ldapauth no shutdown
```

Étape 8. Vérification de la diffusion du WLAN

Accédez à **Configuration > Tags** et assurez-vous que le SSID est inclus dans le profil de stratégie actuellement géré par le SSID (le default-policy-tag pour une nouvelle configuration si vous n'avez pas encore configuré les tags). Par défaut, default-policy-tag ne diffuse pas les nouveaux SSID que vous créez tant que vous ne les incluez pas manuellement.

Cet article ne traite pas de la configuration des profils de stratégie et suppose que vous connaissez cette partie de la configuration.

Si vous utilisez Active Directory, vous devez configurer le serveur AD pour envoyer l'attribut « userPassword ». Cet attribut doit être envoyé au WLC. C'est parce que le WLC effectue la vérification, pas le serveur AD. Vous pouvez également rencontrer des problèmes d'authentification avec la méthode PEAP-mschapv2 car le mot de passe n'est jamais envoyé en texte clair et ne peut donc pas être vérifié avec la base de données LDAP, seule la méthode PEAP-GTC fonctionnerait avec certaines bases de données LDAP.

Comprendre les détails du serveur LDAP

Comprendre les champs de l'interface utilisateur Web du 9800

Voici un exemple d'Active Directory de base qui agit comme serveur LDAP configuré sur le 9800

Server Name*	<input type="text" value="AD"/>					
Server Address*	<input type="text" value="192.168.1.192"/>	⚠ Provide a valid Server address				
Port Number*	<input type="text" value="389"/>					
Simple Bind	<input type="text" value="Authenticated"/>	▼				
Bind User name*	<input type="text" value="Administrator@lab.cor"/>					
Bind Password *	<input type="text" value="."/>					
Confirm Bind Password*	<input type="text" value="."/>					
User Base DN*	<input type="text" value="CN=Users,DC=lab,DC:"/>					
User Attribute	<input type="text"/>	▼				
User Object Type	<input type="text"/>	+				
	<table><thead><tr><th>User Object Type</th><th>Remove</th></tr></thead><tbody><tr><td>Person</td><td>✕</td></tr></tbody></table>	User Object Type	Remove	Person	✕	
User Object Type	Remove					
Person	✕					
Server Timeout (seconds)	<input type="text" value="0-65534"/>					
Secure Mode	<input type="checkbox"/>					
Trustpoint Name	<input type="text"/>	▼				

Le nom et l'adresse IP sont probablement explicites.

Port : 389 est le port par défaut pour LDAP, mais votre serveur peut en utiliser un autre.

Liaison simple : de nos jours, il est très rare d'avoir une base de données LDAP qui prend en charge la liaison non authentifiée (ce qui signifie que n'importe qui peut faire une recherche LDAP dessus sans aucun formulaire d'authentification). La liaison simple authentifiée est le type d'authentification le plus courant et ce qu'Active Directory autorise par défaut. Vous pouvez entrer un nom de compte administrateur et un mot de passe pour pouvoir effectuer une recherche dans la base de données utilisateur à partir de cet emplacement.

Nom d'utilisateur : Vous devez pointer vers un nom d'utilisateur avec des privilèges

d'administrateur dans Active Directory. AD tolère le format « user@domain » alors que de nombreuses autres bases de données LDAP attendent un format « CN=xxx, DC=xxx » pour le nom d'utilisateur. Un exemple avec une autre base de données LDAP qu'AD est fourni plus loin dans cet article.

Mot de passe Bind : Entrez le mot de passe que vous avez entré précédemment.

DN de base utilisateur : Entrez ici la "racine de recherche", c'est-à-dire l'emplacement dans votre arborescence LDAP où les recherches commencent. Dans cet exemple, tous nos utilisateurs se trouvent sous le groupe « Users », dont le nom de domaine est « CN=Users, DC=lab, DC=com » (puisque le domaine LDAP donné en exemple est lab.com). Un exemple de la façon de découvrir ce DN de base utilisateur est fourni plus loin dans cette section.

Attribut utilisateur : Vous pouvez laisser ce champ vide ou pointer vers un mappage d'attributs LDAP qui indique quel champ LDAP compte comme nom d'utilisateur pour votre base de données LDAP. Cependant, en raison de l'ID de bogue Cisco [CSCv11813](#) , le WLC tente une authentification avec le champ CN quoi qu'il arrive.

Type d'objet utilisateur : Détermine le type d'objets considérés comme des utilisateurs. Il s'agit généralement de « Personne ». Il peut s'agir d'« ordinateurs » si vous disposez d'une base de données Active Directory et que vous authentifiez des comptes d'ordinateur, mais là encore, le protocole LDAP permet de nombreuses personnalisations.

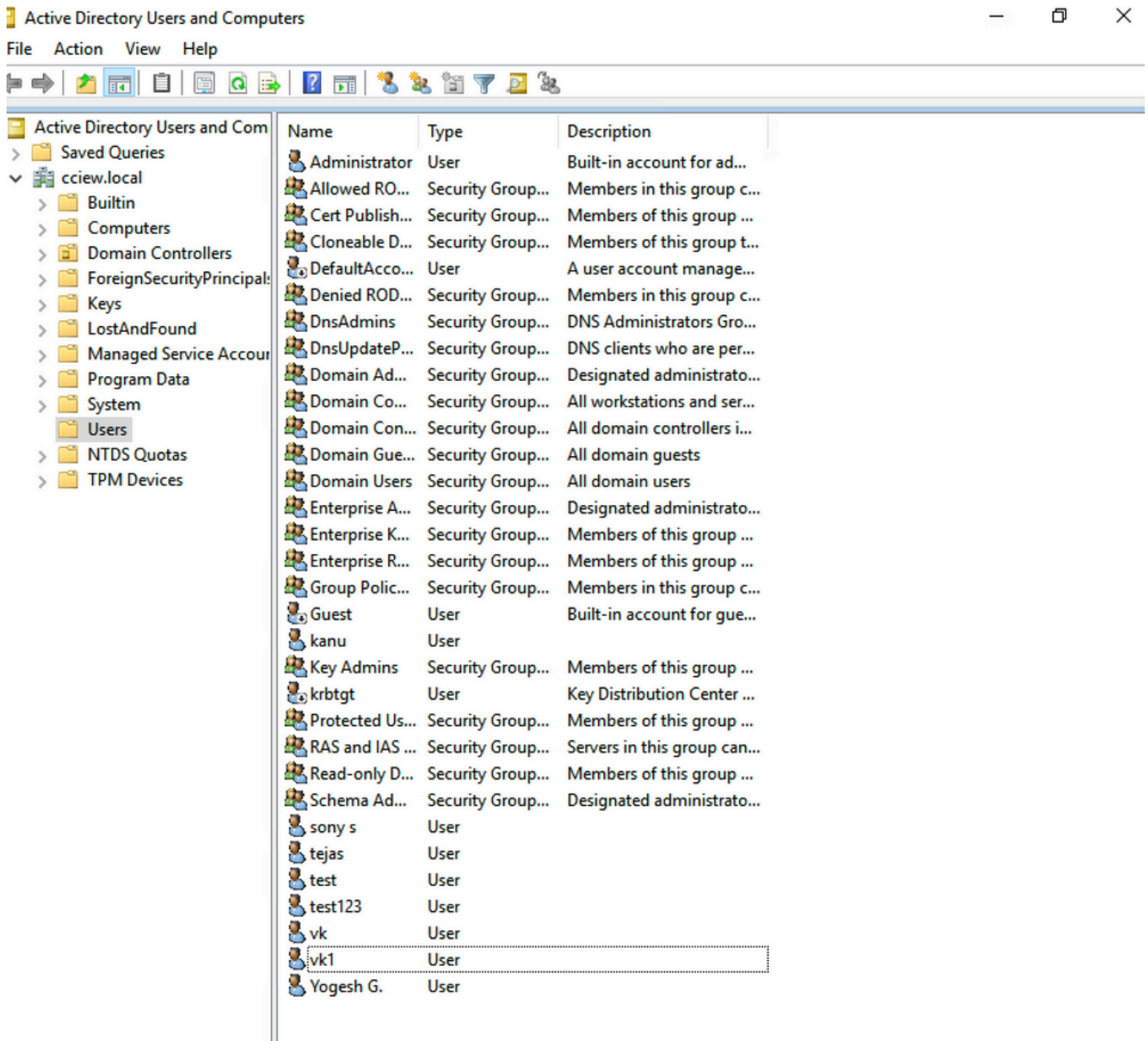
Le mode sécurisé active le protocole LDAP sécurisé sur TLS et vous oblige à sélectionner un point de confiance sur le 9800 pour utiliser un certificat pour le cryptage TLS.

Authentification LDAP 802.1x avec attribut sAMAaccountName.

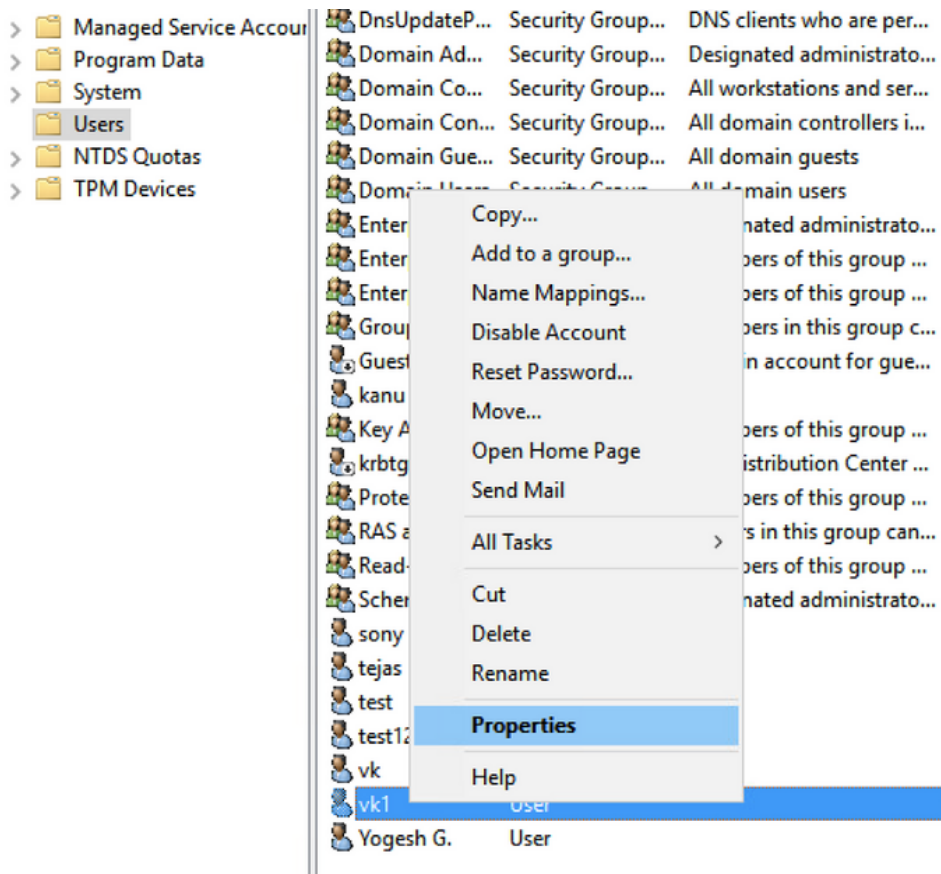
Cette amélioration est introduite dans la version 17.6.1.

Configurez l'attribut « userPassword » pour l'utilisateur.

Étape 1. Sur le serveur Windows, accédez à Utilisateurs et ordinateurs Active Directory



Étape 2. Cliquez avec le bouton droit sur le nom d'utilisateur correspondant et sélectionnez les propriétés



Étape 3. Sélectionnez l'éditeur d'attributs dans la fenêtre des propriétés

Published Certificates	Member Of	Password Replication	Dial-in	Object	
Security	Environment	Sessions	Remote control		
General	Address	Account	Profile	Telephones	Organization
Remote Desktop Services Profile			COM+	Attribute Editor	

Attributes:

Attribute	Value
uid	<not set>
uidNumber	<not set>
unicodePwd	<not set>
unixHomeDirectory	<not set>
unixUserPassword	<not set>
url	<not set>
userAccountControl	0x10200 = (NORMAL_ACCOUNT DONT_I
userCert	<not set>
userCertificate	<not set>
userParameters	<not set>
userPassword	<not set>
userPKCS12	<not set>
userPrincipalName	vk1@cciew.local
userSharedFolder	<not set>

Edit

Filter

OK

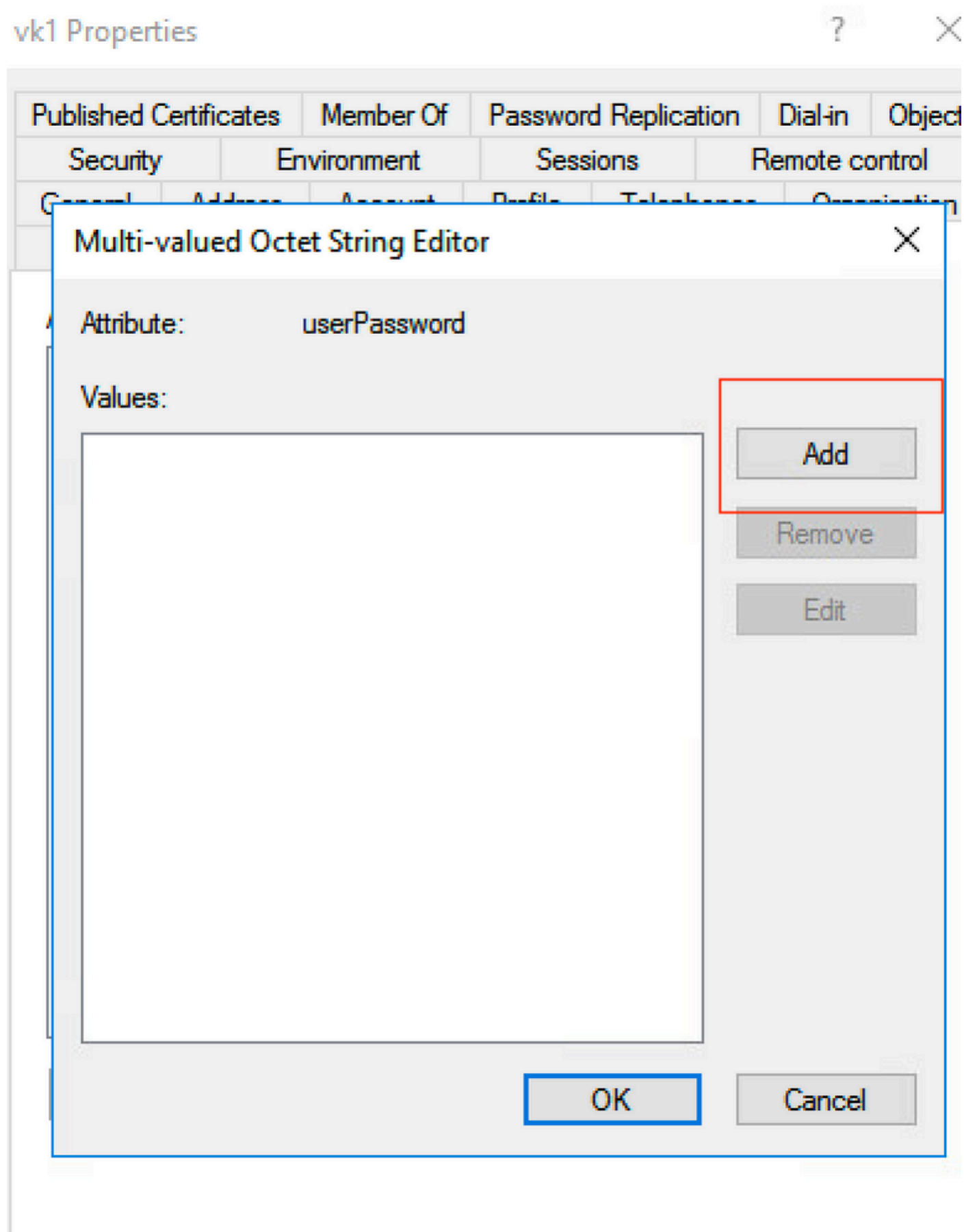
Cancel

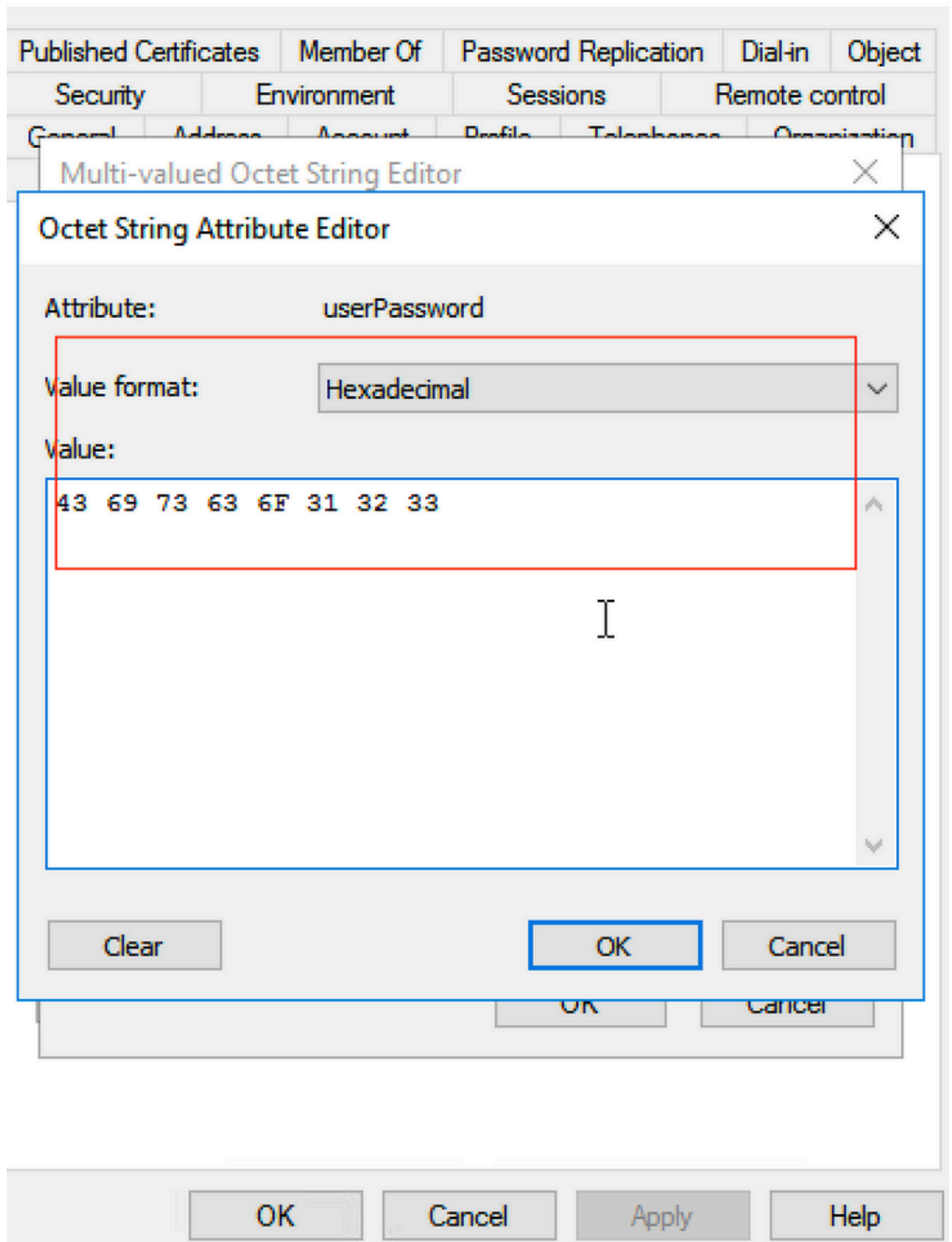
Apply

Help

Étape 4 : configuration de l'attribut « userPassword » Il s'agit du mot de passe de l'utilisateur, qui

doit être configuré en valeur hexadécimale.





Cliquez sur ok, vérifiez qu'il affiche le mot de passe correct

Published Certificates Member Of Password Replication Dial-in Object
Security Environment Sessions Remote control
General Address Account Profile Telephones Organization

Multi-valued Octet String Editor ✕

Attribute: userPassword

Values:

Cisco123

Add

Remove

Edit

OK

Cancel

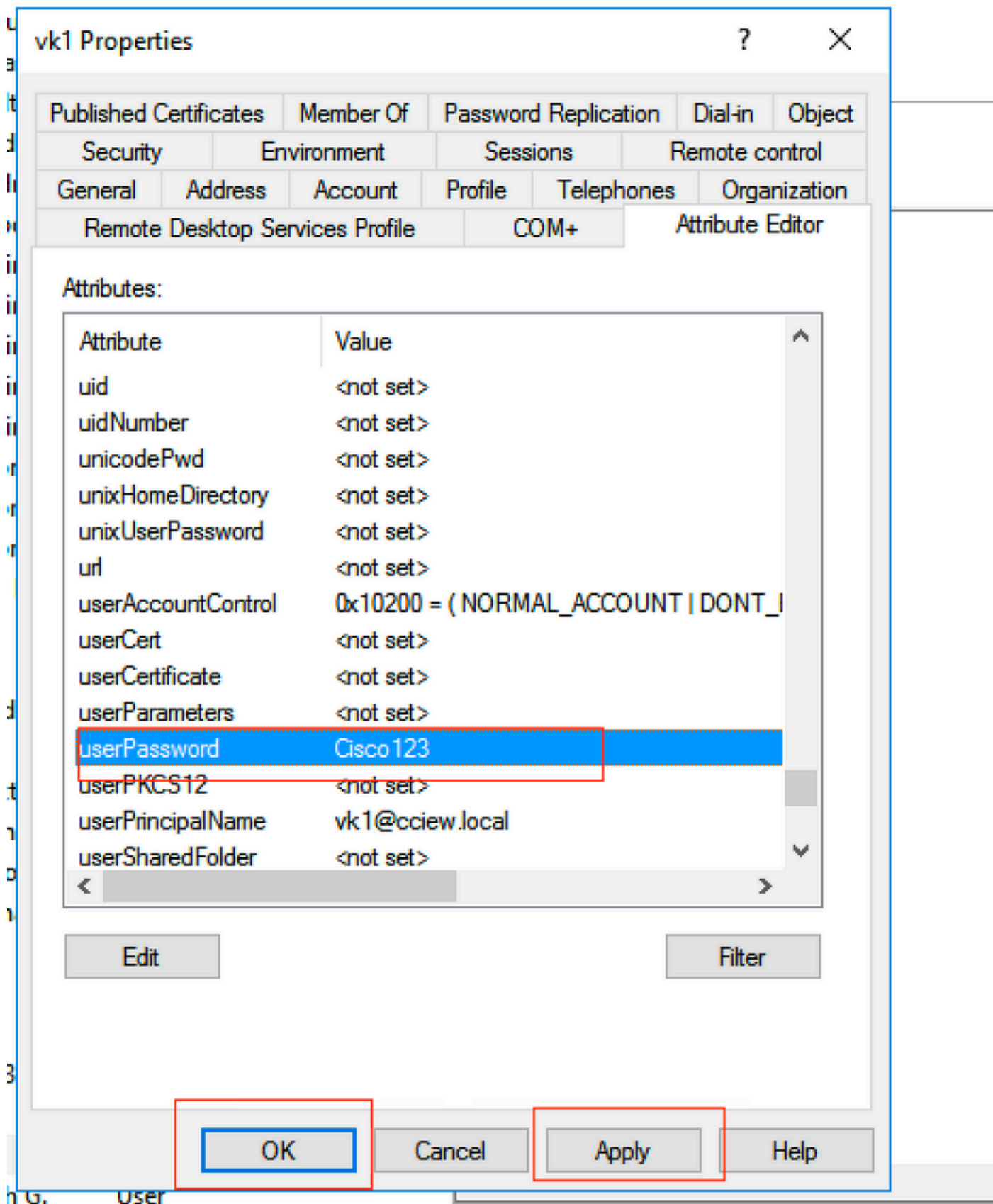
OK

Cancel

Apply

Help

Étape 5. Cliquez sur Apply, puis sur OK



Étape 6 : vérification de la valeur de l'attribut « sAMAccountName » pour l'utilisateur et vérification du nom d'utilisateur pour l'authentification

Published Certificates Member Of Password Replication Dial-in Object
Security Environment Sessions Remote control
General Address Account Profile Telephones Organization
Remote Desktop Services Profile COM+ Attribute Editor

Attributes:

Attribute	Value
sAMAccountName	vkokila
sAMAccountType	805306368 = (NORMAL_USER_ACCOUNT)
scriptPath	<not set>
secretary	<not set>
securityIdentifier	<not set>
seeAlso	<not set>
serialNumber	<not set>
servicePrincipalName	<not set>
shadowExpire	<not set>
shadowFlag	<not set>
shadowInactive	<not set>
shadowLastChange	<not set>
shadowMax	<not set>
shadowMin	<not set>

Edit Filter

OK Cancel Apply Help

G. User

Configuration WLC :

Étape 1 : création d'un MAP d'attribut LDAP

Étape 2. Configurer l'attribut « sAMAccountName » et entrer « username »

Étape 3. Choisissez l'attribut créé MAP sous la configuration du serveur LDAP.

```
ldap attribute-map VK
```

```
map type sAMAccountName username
```

```
ldap server ldap
```

```
ipv4 10.106.38.195
```

```
attribute map VK
```

```
bind authenticate root-dn vk1 password 7 00271A1507545A545C
```

```
base-dn CN=users,DC=cciew,DC=local
```

```
search-filter user-object-type Person
```

Vérifiez à partir de l'interface Web :

The screenshot shows the Cisco Catalyst 9800-40 Wireless Controller configuration interface. The breadcrumb navigation is Configuration > Security > AAA. The left sidebar contains navigation options: Dashboard, Monitoring, Configuration, Administration, Licensing, and Troubleshooting. The main content area is titled 'Servers / Groups' and includes a '+ AAA Wizard' button. Below this, there are tabs for 'Servers / Groups', 'AAA Method List', and 'AAA Advanced'. The 'Servers' tab is active, showing a table of LDAP servers. The table has columns for Name, Server Address, Port Number, and Simple Bind. A red box highlights the first row, which is 'ldap' with server address '10.106.38.195', port '389', and 'Authenticated' status. There are '+ Add' and 'Delete' buttons above the table. The bottom of the table shows '1' items per page and '1 - 1 of 1'.

Name	Server Address	Port Number	Simple Bind
ldap	10.106.38.195	389	Authenticated

Last login NA ...

Edit AAA LDAP Server

AAA Advanced

Server Groups

Name	Server Address
ldap	10.106.38.195

1 10 items per page

Server Name* ldap

Server Address* 10.106.38.195

Port Number* 389

Simple Bind Authenticated

Bind User name* vk1

Bind Password * -

Confirm Bind Password* -

User Base DN* CN=users,DC=cciew,DC

User Attribute VK

User Object Type

User Object Type	Remove
Person	×

Server Timeout (seconds) 30

Vérification

Pour vérifier votre configuration, vérifiez à nouveau les commandes CLI avec celles de cet article.

Les bases de données LDAP ne fournissent généralement pas de journaux d'authentification. Il peut donc être difficile de savoir ce qui se passe. Consultez la section Dépannage de cet article pour savoir comment effectuer des suivis et une capture de renifleur afin de voir si une connexion est établie avec la base de données LDAP ou non.

Dépannage

Pour résoudre ce problème, il est préférable de le diviser en deux parties. La première partie consiste à valider la partie EAP local. La seconde consiste à vérifier que le 9800 communique correctement avec le serveur LDAP.

Comment vérifier le processus d'authentification sur le contrôleur

Vous pouvez collecter une trace Radioactive afin d'obtenir les "debugs" de la connexion client.

Accédez simplement à **Troubleshooting > Radioactive Trace**. Ajoutez l'adresse MAC du client (attention, votre client peut utiliser un MAC aléatoire et non son propre MAC, vous pouvez le vérifier dans le profil SSID sur le périphérique client lui-même) et appuyez sur Démarrer.

Une fois que vous avez reproduit la tentative de connexion, vous pouvez cliquer sur "Générer" et obtenir les journaux pour les X dernières minutes. Assurez-vous de cliquer sur **internal** car certaines lignes de journal LDAP n'apparaissent pas si vous ne l'activez pas.

Voici un exemple de trace radiocative d'un client s'authentifiant avec succès sur un SSID d'authentification Web. Certaines pièces redondantes ont été supprimées pour plus de clarté :

```
2021/01/19 21:57:55.890953 {wncd_x_R0-0}{1}: [client-orch-sm] [9347]: (note): MAC:
2elf.3a65.9c09 Association received. BSSID f80f.6f15.66ae, WLAN webauth, Slot 1 AP
f80f.6f15.66a0, AP7069-5A74-933C 2021/01/19 21:57:55.891049 {wncd_x_R0-0}{1}: [client-orch-sm]
[9347]: (debug): MAC: 2elf.3a65.9c09 Received Dot11 association request. Processing
started,SSID: webauth, Policy profile: LDAP, AP Name: AP7069-5A74-933C, Ap Mac Address:
f80f.6f15.66a0 BSSID MAC0000.0000.0000 wlan ID: 2RSSI: -45, SNR: 0 2021/01/19 21:57:55.891282
{wncd_x_R0-0}{1}: [client-orch-state] [9347]: (note): MAC: 2elf.3a65.9c09 Client state
transition: S_CO_INIT -> S_CO_ASSOCIATING 2021/01/19 21:57:55.891674 {wncd_x_R0-0}{1}: [dot11-
validate] [9347]: (info): MAC: 2elf.3a65.9c09 WiFi direct: Dot11 validate P2P IE. P2P IE not
present. 2021/01/19 21:57:55.892114 {wncd_x_R0-0}{1}: [dot11] [9347]: (debug): MAC:
2elf.3a65.9c09 dot11 send association response. Sending association response with
resp_status_code: 0 2021/01/19 21:57:55.892182 {wncd_x_R0-0}{1}: [dot11-frame] [9347]: (info):
MAC: 2elf.3a65.9c09 WiFi direct: skip build Assoc Resp with P2P IE: Wifi direct policy disabled
2021/01/19 21:57:55.892248 {wncd_x_R0-0}{1}: [dot11] [9347]: (info): MAC: 2elf.3a65.9c09 dot11
send association response. Sending assoc response of length: 179 with resp_status_code: 0,
DOT11_STATUS: DOT11_STATUS_SUCCESS 2021/01/19 21:57:55.892467 {wncd_x_R0-0}{1}: [dot11] [9347]:
(note): MAC: 2elf.3a65.9c09 Association success. AID 2, Roaming = False, WGB = False, 11r =
False, 11w = False 2021/01/19 21:57:55.892497 {wncd_x_R0-0}{1}: [dot11] [9347]: (info): MAC:
2elf.3a65.9c09 DOT11 state transition: S_DOT11_INIT -> S_DOT11_ASSOCIATED 2021/01/19
21:57:55.892616 {wncd_x_R0-0}{1}: [client-orch-sm] [9347]: (debug): MAC: 2elf.3a65.9c09 Station
Dot11 association is successful. 2021/01/19 21:57:55.892730 {wncd_x_R0-0}{1}: [client-orch-sm]
[9347]: (debug): MAC: 2elf.3a65.9c09 Starting L2 authentication. Bssid in state
machine:f80f.6f15.66ae Bssid in request is:f80f.6f15.66ae 2021/01/19 21:57:55.892783 {wncd_x_R0-
0}{1}: [client-orch-state] [9347]: (note): MAC: 2elf.3a65.9c09 Client state transition:
S_CO_ASSOCIATING -> S_CO_L2_AUTH_IN_PROGRESS 2021/01/19 21:57:55.892896 {wncd_x_R0-0}{1}:
[client-auth] [9347]: (note): MAC: 2elf.3a65.9c09 L2 Authentication initiated. method WEBAUTH,
Policy VLAN 1,AAA override = 0 2021/01/19 21:57:55.893115 {wncd_x_R0-0}{1}: [auth-mgr] [9347]:
(info): [2elf.3a65.9c09:capwap_90000004] Session Start event called from SANET-SHIM with
conn_hdl 14, vlan: 0 2021/01/19 21:57:55.893154 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] Wireless session sequence, create context with method WebAuth
2021/01/19 21:57:55.893205 {wncd_x_R0-0}{1}: [auth-mgr-feat_wireless] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] - authc_list: ldapauth 2021/01/19 21:57:55.893211 {wncd_x_R0-
0}{1}: [auth-mgr-feat_wireless] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] - authz_list:
Not present under wlan configuration 2021/01/19 21:57:55.893254 {wncd_x_R0-0}{1}: [client-auth]
[9347]: (info): MAC: 2elf.3a65.9c09 Client auth-interface state transition: S_AUTHIF_INIT ->
S_AUTHIF_AWAIT_L2_WEBAUTH_START_RESP 2021/01/19 21:57:55.893461 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2elf.3a65.9c09:unknown] auth mgr attr change notification is received for attr
(952) 2021/01/19 21:57:55.893532 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (1263)
2021/01/19 21:57:55.893603 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (220)
2021/01/19 21:57:55.893649 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (952)
2021/01/19 21:57:55.893679 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] Retrieved Client IIF ID 0xd3001364 2021/01/19 21:57:55.893731
{wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] Allocated audit
session id 000000000000009C1CA610D7 2021/01/19 21:57:55.894285 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2elf.3a65.9c09:capwap_90000004] Device type found in cache Samsung Galaxy S10e
2021/01/19 21:57:55.894299 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] Device type for the session is detected as Samsung Galaxy S10e
and old device-type not classified earlier &Device name for the session is detected as Unknown
Device and old device-name not classified earlier & Old protocol map 0 and new is 1057
2021/01/19 21:57:55.894551 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (1337)
2021/01/19 21:57:55.894587 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:57:55.894593
{wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [0000.0000.0000:capwap_90000004]
access_session_acct_filter_spec is NULL 2021/01/19 21:57:55.894827 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received
```


for attr (1337) 2021/01/19 21:57:55.894858 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:57:55.894862 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [0000.0000.0000:capwap_90000004] access_session_acct_filter_spec is NULL 2021/01/19 21:57:55.895918 {wncd_x_R0-0}{1}: [auth-mgr-feat_wireless] [9347]: (info): [0000.0000.0000:unknown] retrieving vlanid from name failed 2021/01/19 21:57:55.896094 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] SM Reauth Plugin: Received valid timeout = 86400 2021/01/19 21:57:55.896807 {wncd_x_R0-0}{1}: [webauth-sm] [9347]: (info): [0.0.0.0]Starting Webauth, mac [2e:1f:3a:65:9c:09], IIF 0 , audit-ID 000000000000009C1CA610D7 2021/01/19 21:57:55.897106 {wncd_x_R0-0}{1}: [webauth-acl] [9347]: (info): capwap_90000004[2elf.3a65.9c09][0.0.0.0]Applying IPv4 intercept ACL via SVM, name: IP-Adm-V4-Int-ACL-global, priority: 50, IIF-ID: 0 2021/01/19 21:57:55.897790 {wncd_x_R0-0}{1}: [epm-redirect] [9347]: (info): [0000.0000.0000:unknown] URL-Redirect-ACL = IP-Adm-V4-Int-ACL-global 2021/01/19 21:57:55.898813 {wncd_x_R0-0}{1}: [webauth-acl] [9347]: (info): capwap_90000004[2elf.3a65.9c09][0.0.0.0]Applying IPv6 intercept ACL via SVM, name: IP-Adm-V6-Int-ACL-global, priority: 52, IIF-ID: 0 2021/01/19 21:57:55.899406 {wncd_x_R0-0}{1}: [epm-redirect] [9347]: (info): [0000.0000.0000:unknown] URL-Redirect-ACL = IP-Adm-V6-Int-ACL-global 2021/01/19 21:57:55.903552 {wncd_x_R0-0}{1}: [client-auth] [9347]: (info): MAC: 2elf.3a65.9c09 Client auth-interface state transition: S_AUTHIF_AWAIT_L2_WEBAUTH_START_RESP -> S_AUTHIF_L2_WEBAUTH_PENDING 2021/01/19 21:57:55.903575 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [9347]: (note): Authentication Success. Resolved Policy bitmap:11 for client 2elf.3a65.9c09 2021/01/19 21:57:55.903592 {wncd_x_R0-0}{1}: [client-auth] [9347]: (info): MAC: 2elf.3a65.9c09 Client auth-interface state transition: S_AUTHIF_L2_WEBAUTH_PENDING -> S_AUTHIF_L2_WEBAUTH_PENDING 2021/01/19 21:57:55.903709 {wncd_x_R0-0}{1}: [client-auth] [9347]: (info): MAC: 2elf.3a65.9c09 Client auth-interface state transition: S_AUTHIF_L2_WEBAUTH_PENDING -> S_AUTHIF_L2_WEBAUTH_DONE 2021/01/19 21:57:55.903774 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] Device type for the session is detected as Samsung Galaxy S10e and old Samsung Galaxy S10e &Device name for the session is detected as Unknown Device and old Unknown Device & Old protocol map 1057 and new is 1025 2021/01/19 21:57:55.903858 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] Device type for the session is detected as Samsung Galaxy S10e and old Samsung Galaxy S10e &Device name for the session is detected as Unknown Device and old Unknown Device & Old protocol map 1057 and new is 1025 2021/01/19 21:57:55.903924 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] Device type for the session is detected as Samsung Galaxy S10e and old Samsung Galaxy S10e &Device name for the session is detected as Unknown Device and old Unknown Device & Old protocol map 1057 and new is 1025 2021/01/19 21:57:55.904005 {wncd_x_R0-0}{1}: [client-orch-sm] [9347]: (debug): MAC: 2elf.3a65.9c09 L2 Authentication of station is successful., L3 Authentication : 1 2021/01/19 21:57:55.904173 {wncd_x_R0-0}{1}: [client-orch-sm] [9347]: (note): MAC: 2elf.3a65.9c09 Mobility discovery triggered. Client mode: Flex - Local Switching 2021/01/19 21:57:55.904181 {wncd_x_R0-0}{1}: [client-orch-state] [9347]: (note): MAC: 2elf.3a65.9c09 Client state transition: S_CO_L2_AUTH_IN_PROGRESS -> S_CO_MOBILITY_DISCOVERY_IN_PROGRESS 2021/01/19 21:57:55.904245 {wncd_x_R0-0}{1}: [mm-transition] [9347]: (info): MAC: 2elf.3a65.9c09 MMIF FSM transition: S_MA_INIT -> S_MA_MOBILITY_DISCOVERY_PROCESSED_TR on E_MA_MOBILITY_DISCOVERY 2021/01/19 21:57:55.904410 {wncd_x_R0-0}{1}: [mm-client] [9347]: (info): MAC: 2elf.3a65.9c09 Invalid transmitter ip in build client context 2021/01/19 21:57:55.904777 {wncd_x_R0-0}{1}: [mm-client] [9347]: (debug): MAC: 2elf.3a65.9c09 Received mobile_announce, sub type: 0 of XID (0) from (WNCID[0]) 2021/01/19 21:57:55.904955 {wncd_x_R0-0}{1}: [mm-client] [9347]: (debug): MAC: 2elf.3a65.9c09 Add MCC by tdl mac: client_ifid 0x90000006 is assigned to client 2021/01/19 21:57:55.905072 {wncd_x_R0-0}{1}: [mm-client] [9347]: (debug): MAC: 0000.0000.0000 Sending mobile_announce_nak of XID (0) to (WNCID[0]) 2021/01/19 21:57:55.905157 {wncd_x_R0-0}{1}: [mm-client] [9347]: (debug): MAC: 2elf.3a65.9c09 Received mobile_announce_nak, sub type: 1 of XID (0) from (WNCID[0]) 2021/01/19 21:57:55.905267 {wncd_x_R0-0}{1}: [mm-transition] [9347]: (info): MAC: 2elf.3a65.9c09 MMIF FSM transition: S_MA_INIT_WAIT_ANNOUNCE_RSP -> S_MA_NAK_PROCESSED_TR on E_MA_NAK_RCVD 2021/01/19 21:57:55.905283 {wncd_x_R0-0}{1}: [mm-client] [9347]: (info): MAC: 2elf.3a65.9c09 Roam type changed - None -> None 2021/01/19 21:57:55.905317 {wncd_x_R0-0}{1}: [mm-client] [9347]: (info): MAC: 2elf.3a65.9c09 Mobility role changed - Unassoc -> Local 2021/01/19 21:57:55.905515 {wncd_x_R0-0}{1}: [mm-client] [9347]: (note): MAC: 2elf.3a65.9c09 Mobility Successful. Roam Type None, Sub Roam Type MM_SUB_ROAM_TYPE_NONE, Client IFID: 0x90000006, Client Role: Local PoA: 0x90000004 PoP: 0x0 2021/01/19 21:57:55.905570 {wncd_x_R0-0}{1}: [client-orch-sm] [9347]: (debug): MAC: 2elf.3a65.9c09 Processing mobility response from MMIF. Client ifid: 0x90000006, roam type: None, client role: Local 2021/01/19 21:57:55.906210 {wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info): MAC: 2elf.3a65.9c09 Client QoS add mobile cb 2021/01/19 21:57:55.906369 {wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info): MAC: 2elf.3a65.9c09 No QoS PM Name or QoS Level received from SANet for pm_dir:0. Check client is

fastlane, otherwise set pm name to none 2021/01/19 21:57:55.906399 {wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info): MAC: 2elf.3a65.9c09 No QoS PM Name or QoS Level received from SANet for pm_dir:1. Check client is fastlane, otherwise set pm name to none 2021/01/19 21:57:55.906486 {wncd_x_R0-0}{1}: [client-auth] [9347]: (note): MAC: 2elf.3a65.9c09 ADD MOBILE sent. Client state flags: 0x12 BSSID: MAC: f80f.6f15.66ae capwap IFID: 0x90000004 2021/01/19 21:57:55.906613 {wncd_x_R0-0}{1}: [client-orch-state] [9347]: (note): MAC: 2elf.3a65.9c09 Client state transition: S_CO_MOBILITY_DISCOVERY_IN_PROGRESS -> S_CO_DPATH_PLUMB_IN_PROGRESS 2021/01/19 21:57:55.907326 {wncd_x_R0-0}{1}: [dot11] [9347]: (note): MAC: 2elf.3a65.9c09 Client datapath entry params - ssid:webauth,slot_id:1 bssid ifid: 0x0, radio_ifid: 0x90000002, wlan_ifid: 0xf0400002 2021/01/19 21:57:55.907544 {wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info): MAC: 2elf.3a65.9c09 Client QoS dpath create params 2021/01/19 21:57:55.907594 {wncd_x_R0-0}{1}: [avc-afc] [9347]: (debug): AVC enabled for client 2elf.3a65.9c09 2021/01/19 21:57:55.907701 {wncd_x_R0-0}{1}: [dpath_svc] [9347]: (note): MAC: 2elf.3a65.9c09 Client datapath entry created for ifid 0x90000006 2021/01/19 21:57:55.908229 {wncd_x_R0-0}{1}: [client-orch-state] [9347]: (note): MAC: 2elf.3a65.9c09 Client state transition: S_CO_DPATH_PLUMB_IN_PROGRESS -> S_CO_IP_LEARN_IN_PROGRESS 2021/01/19 21:57:55.908704 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 IP-learn state transition: S_IPLEARN_INIT -> S_IPLEARN_IN_PROGRESS 2021/01/19 21:57:55.918694 {wncd_x_R0-0}{1}: [client-auth] [9347]: (info): MAC: 2elf.3a65.9c09 Client auth-interface state transition: S_AUTHIF_L2_WEBAUTH_DONE -> S_AUTHIF_L2_WEBAUTH_DONE 2021/01/19 21:57:55.922254 {wncd_x_R0-0}{1}: [dot11k] [9347]: (info): MAC: 2elf.3a65.9c09 Neighbor AP fc5b.3984.8220 lookup has failed, ap contextnot available on this instance 2021/01/19 21:57:55.922260 {wncd_x_R0-0}{1}: [dot11k] [9347]: (info): MAC: 2elf.3a65.9c09 Neighbor AP 88f0.3169.d390 lookup has failed, ap contextnot available on this instance 2021/01/19 21:57:55.962883 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (note): MAC: 2elf.3a65.9c09 Client IP learn successful. Method: IP Snooping IP: 192.168.1.17 2021/01/19 21:57:55.963827 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 Client IP learn successful. Method: IPv6 Snooping IP: fe80::2c1f:3aff:fe65:9c09 2021/01/19 21:57:55.964481 {wncd_x_R0-0}{1}: [auth_mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (8) 2021/01/19 21:57:55.965176 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 IP-learn state transition: S_IPLEARN_IN_PROGRESS -> S_IPLEARN_COMPLETE 2021/01/19 21:57:55.965550 {wncd_x_R0-0}{1}: [auth_mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (10) 2021/01/19 21:57:55.966127 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 IP-learn state transition: S_IPLEARN_COMPLETE -> S_IPLEARN_COMPLETE 2021/01/19 21:57:55.966328 {wncd_x_R0-0}{1}: [client-orch-sm] [9347]: (debug): MAC: 2elf.3a65.9c09 Received ip learn response. method: IPLEARN_METHOD_IP_SNOOPING 2021/01/19 21:57:55.966413 {wncd_x_R0-0}{1}: [client-orch-sm] [9347]: (debug): MAC: 2elf.3a65.9c09 Triggered L3 authentication. status = 0x0, Success 2021/01/19 21:57:55.966424 {wncd_x_R0-0}{1}: [client-orch-state] [9347]: (note): MAC: 2elf.3a65.9c09 Client state transition: S_CO_IP_LEARN_IN_PROGRESS -> S_CO_L3_AUTH_IN_PROGRESS 2021/01/19 21:57:55.967404 {wncd_x_R0-0}{1}: [client-auth] [9347]: (note): MAC: 2elf.3a65.9c09 L3 Authentication initiated. LWA 2021/01/19 21:57:55.967433 {wncd_x_R0-0}{1}: [client-auth] [9347]: (info): MAC: 2elf.3a65.9c09 Client auth-interface state transition: S_AUTHIF_L2_WEBAUTH_DONE -> S_AUTHIF_WEBAUTH_PENDING 2021/01/19 21:57:55.968312 {wncd_x_R0-0}{1}: [sisf-packet] [9347]: (debug): RX: ARP from interface capwap_90000004 on vlan 1 Source MAC: 2elf.3a65.9c09 Dest MAC: ffff.ffff.ffff ARP REQUEST, ARP sender MAC: 2elf.3a65.9c09 ARP target MAC: ffff.ffff.ffff ARP sender IP: 192.168.1.17, ARP target IP: 192.168.1.17, 2021/01/19 21:57:55.968519 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 iplearn receive client learn method update. Prev method (IP Snooping) Cur method (ARP) 2021/01/19 21:57:55.968522 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 Client IP learn method update successful. Method: ARP IP: 192.168.1.17 2021/01/19 21:57:55.968966 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 IP-learn state transition: S_IPLEARN_COMPLETE -> S_IPLEARN_COMPLETE 2021/01/19 21:57:57.762648 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 iplearn receive client learn method update. Prev method (ARP) Cur method (IP Snooping) 2021/01/19 21:57:57.762650 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 Client IP learn method update successful. Method: IP Snooping IP: 192.168.1.17 2021/01/19 21:57:57.763032 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2elf.3a65.9c09 IP-learn state transition: S_IPLEARN_COMPLETE -> S_IPLEARN_COMPLETE 2021/01/19 21:58:00.992597 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2elf.3a65.9c09][192.168.1.17]GET rcvd when in INIT state 2021/01/19 21:58:00.992617 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2elf.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:00.992669 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2elf.3a65.9c09][192.168.1.17]Parse GET, src [192.168.1.17] dst [192.168.1.15] url

[http://connectivitycheck.gstatic.com/generate_204] 2021/01/19 21:58:00.992694 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Retrieved user-agent = Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/60.0.3112.32 Safari/537.36 2021/01/19 21:58:00.993558 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (1248) 2021/01/19 21:58:00.993637 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:58:00.993645 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [0000.0000.0000:capwap_90000004] access_session_acct_filter_spec is NULL 2021/01/19 21:58:00.996320 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] Device type for the session is detected as Linux-Workstation and old Samsung Galaxy S10e &Device name for the session is detected as Unknown Device and old Unknown Device & Old protocol map 1057 and new is 1057 2021/01/19 21:58:00.996508 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] DC Profile-name has been changed to Linux-Workstation 2021/01/19 21:58:00.996524 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] update event: Policy is not applied for this Handle 0xB7000080 2021/01/19 21:58:05.808144 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:05.808226 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Parse GET, src [192.168.1.17] dst [192.168.1.15] url [http://connectivitycheck.gstatic.com/generate_204] 2021/01/19 21:58:05.808251 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Retrieved user-agent = Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/60.0.3112.32 Safari/537.36 2021/01/19 21:58:05.860465 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]GET rcvd when in GET_REDIRECT state 2021/01/19 21:58:05.860483 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:05.860534 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Parse GET, src [192.168.1.17] dst [192.168.1.15] url [http://connectivitycheck.gstatic.com/generate_204] 2021/01/19 21:58:05.860559 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Retrieved user-agent = Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/60.0.3112.32 Safari/537.36 2021/01/19 21:58:06.628209 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]GET rcvd when in GET_REDIRECT state 2021/01/19 21:58:06.628228 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:06.628287 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Parse GET, src [192.168.1.17] dst [192.0.2.1] url [https://192.0.2.1:443/login.html?redirect=http://connectivitycheck.gstatic.com/generate_204] 2021/01/19 21:58:06.628316 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Retrieved user-agent = Mozilla/5.0 (Linux; Android 11; SM-G970F) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.141 Mobile Safari/537.36 2021/01/19 21:58:06.628832 {wncd_x_R0-0}{1}: [webauth-page] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Sending Webauth login form, len 8077 2021/01/19 21:58:06.629613 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (1248) 2021/01/19 21:58:06.629699 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:58:06.629709 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [0000.0000.0000:capwap_90000004] access_session_acct_filter_spec is NULL 2021/01/19 21:58:06.633058 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] Device type for the session is detected as Samsung Galaxy S10e and old Linux-Workstation &Device name for the session is detected as Unknown Device and old Unknown Device & Old protocol map 1057 and new is 1057 2021/01/19 21:58:06.633219 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] DC Profile-name has been changed to Samsung Galaxy S10e 2021/01/19 21:58:06.633231 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] update event: Policy is not applied for this Handle 0xB7000080 2021/01/19 21:58:06.719502 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]GET rcvd when in LOGIN state 2021/01/19 21:58:06.719521 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:06.719591 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Parse GET, src [192.168.1.17] dst [192.0.2.1] url [https://192.0.2.1:443/favicon.ico] 2021/01/19 21:58:06.719646 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]Retrieved user-agent = Mozilla/5.0 (Linux; Android 11; SM-G970F) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.141 Mobile

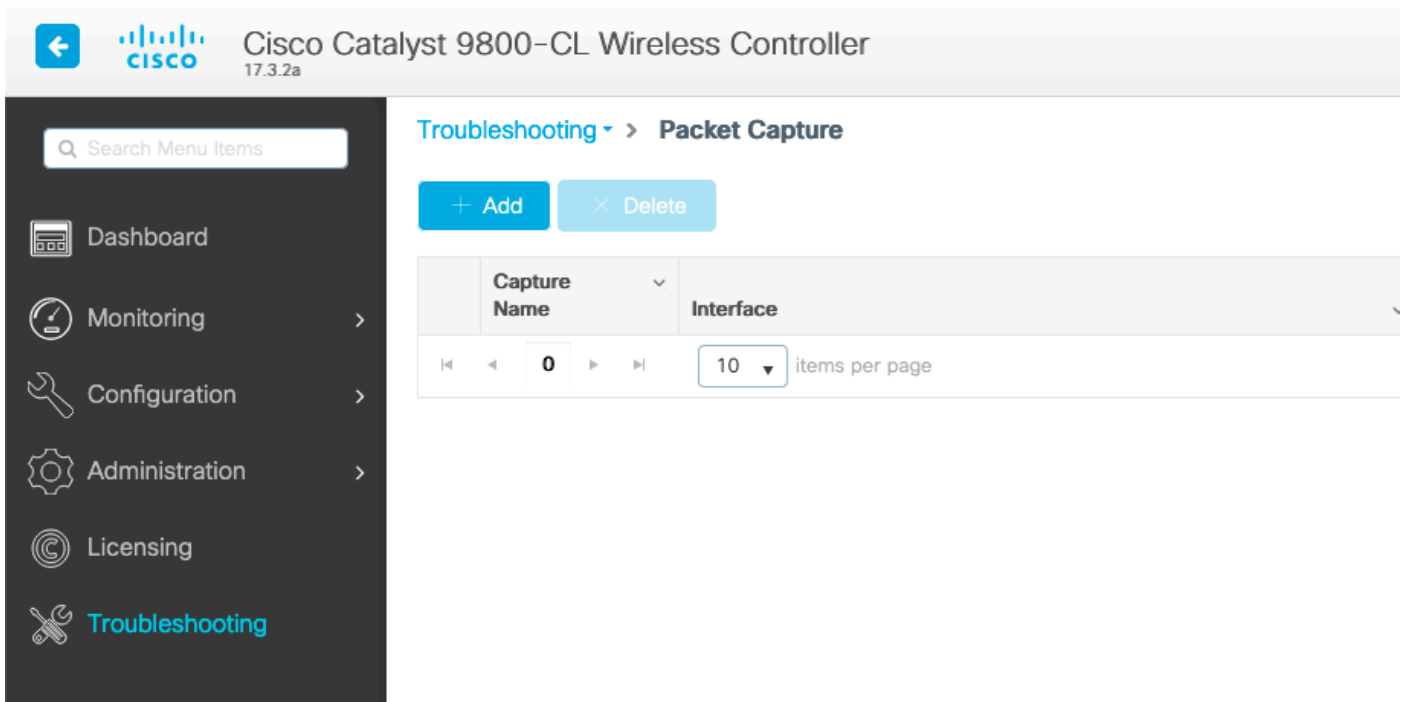
Safari/537.36 2021/01/19 21:58:06.720038 {wncd_x_R0-0}{1}: [webauth-error] [9347]: (info): capwap_90000004[2elf.3a65.9c09][192.168.1.17]Parse logo GET, File "/favicon.ico" not found
2021/01/19 21:58:06.720623 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (1248)
2021/01/19 21:58:06.720707 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:58:06.720716
{wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [0000.0000.0000:capwap_90000004]
access_session_acct_filter_spec is NULL 2021/01/19 21:58:06.724036 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2elf.3a65.9c09:capwap_90000004] Device type for the session is detected as
Samsung Galaxy S10e and old Samsung Galaxy S10e &Device name for the session is detected as
Unknown Device and old Unknown Device & Old protocol map 1057 and new is 1057 2021/01/19
21:58:06.746127 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info):
capwap_90000004[2elf.3a65.9c09][192.168.1.17]GET rcvd when in LOGIN state 2021/01/19
21:58:06.746145 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info):
capwap_90000004[2elf.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:06.746197
{wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2elf.3a65.9c09][
192.168.1.17]Parse GET, src [192.168.1.17] dst [192.0.2.1] url
[https://192.0.2.1:443/favicon.ico] 2021/01/19 21:58:06.746225 {wncd_x_R0-0}{1}: [webauth-httpd]
[9347]: (info): capwap_90000004[2elf.3a65.9c09][192.168.1.17]Retrieved user-agent = Mozilla/5.0
(Linux; Android 11; SM-G970F) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/87.0.4280.141 Mobile
Safari/537.36 2021/01/19 21:58:06.746612 {wncd_x_R0-0}{1}: [webauth-error] [9347]: (info):
capwap_90000004[2elf.3a65.9c09][192.168.1.17]Parse logo GET, File "/favicon.ico" not found
2021/01/19 21:58:06.747105 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received for attr (1248)
2021/01/19 21:58:06.747187 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:58:06.747197
{wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [0000.0000.0000:capwap_90000004]
access_session_acct_filter_spec is NULL 2021/01/19 21:58:06.750598 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2elf.3a65.9c09:capwap_90000004] Device type for the session is detected as
Samsung Galaxy S10e and old Samsung Galaxy S10e &Device name for the session is detected as
Unknown Device and old Unknown Device & Old protocol map 1057 and new is 1057 2021/01/19
21:58:15.902342 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info):
capwap_90000004[2elf.3a65.9c09][192.168.1.17]GET rcvd when in LOGIN state 2021/01/19
21:58:15.902360 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info):
capwap_90000004[2elf.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:15.902410
{wncd_x_R0-0}{1}: [webauth-httpd] [9347]: (info): capwap_90000004[2elf.3a65.9c09][
192.168.1.17]Parse GET, src [192.168.1.17] dst [192.168.1.15] url
[http://connectivitycheck.gstatic.com/generate_204] 2021/01/19 21:58:15.902435 {wncd_x_R0-0}{1}:
[webauth-httpd] [9347]: (info): capwap_90000004[2elf.3a65.9c09][192.168.1.17]Retrieved user-
agent = Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/60.0.3112.32 Safari/537.36 2021/01/19 21:58:15.903173 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2elf.3a65.9c09:capwap_90000004] auth mgr attr change notification is received
for attr (1248) 2021/01/19 21:58:15.903252 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]:
(info): [2elf.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:58:15.903261
{wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [0000.0000.0000:capwap_90000004]
access_session_acct_filter_spec is NULL 2021/01/19 21:58:15.905950 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2elf.3a65.9c09:capwap_90000004] Device type for the session is detected as
Linux-Workstation and old Samsung Galaxy S10e &Device name for the session is detected as
Unknown Device and old Unknown Device & Old protocol map 1057 and new is 1057 2021/01/19
21:58:15.906112 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] DC
Profile-name has been changed to Linux-Workstation 2021/01/19 21:58:15.906125 {wncd_x_R0-0}{1}:
[auth-mgr] [9347]: (info): [2elf.3a65.9c09:capwap_90000004] update event: Policy is not applied
for this Handle 0xB7000080 2021/01/19 21:58:16.357093 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]:
(info): capwap_90000004[2elf.3a65.9c09][192.168.1.17]POST rcvd when in LOGIN state 2021/01/19
21:58:16.357443 {wncd_x_R0-0}{1}: [sadb-attr] [9347]: (info): Removing ipv6 addresses from the
attr list -1560276753,sm_ctx = 0x50840930, num_ipv6 = 1 2021/01/19 21:58:16.357674 {wncd_x_R0-
0}{1}: [caaa-authen] [9347]: (info): [CAAA:AUTHEN:b7000080] DEBUG: mlist=ldapauth for type=0
2021/01/19 21:58:16.374292 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2elf.3a65.9c09:capwap_90000004] Authc success from WebAuth, Auth event success 2021/01/19
21:58:16.374412 {wncd_x_R0-0}{1}: [ewlc-infra-evq] [9347]: (note): Authentication Success.
Resolved Policy bitmap:0 for client 2elf.3a65.9c09 2021/01/19 21:58:16.374442 {wncd_x_R0-0}{1}:
[client-auth] [9347]: (info): MAC: 2elf.3a65.9c09 Client auth-interface state transition:
S_AUTHIF_WEBAUTH_PENDING -> S_AUTHIF_WEBAUTH_PENDING 2021/01/19 21:58:16.374568 {wncd_x_R0-
0}{1}: [aaa-attr-inf] [9347]: (info): << username 0 "Nico">> 2021/01/19 21:58:16.374574

```
{wncd_x_R0-0}{1}: [aaa-attr-inf] [9347]: (info): << sam-account-name 0 "Nico">> 2021/01/19
21:58:16.374584 {wncd_x_R0-0}{1}: [aaa-attr-inf] [9347]: (info): << method 0 1 [webauth]>>
2021/01/19 21:58:16.374592 {wncd_x_R0-0}{1}: [aaa-attr-inf] [9347]: (info): << clid-mac-addr 0
2e 1f 3a 65 9c 09 >> 2021/01/19 21:58:16.374597 {wncd_x_R0-0}{1}: [aaa-attr-inf] [9347]: (info):
<< intf-id 0 2415919108 (0x90000004)>> 2021/01/19 21:58:16.374690 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2e1f.3a65.9c09:capwap_90000004] auth mgr attr change notification is received
for attr (450) 2021/01/19 21:58:16.374797 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info):
[2e1f.3a65.9c09:capwap_90000004] Received User-Name Nico for client 2e1f.3a65.9c09 2021/01/19
21:58:16.375294 {wncd_x_R0-0}{1}: [webauth-acl] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][
192.168.1.17]Applying IPv4 logout ACL via SVM, name: IP-Adm-V4-LOGOUT-ACL, priority: 51, IIF-ID:
0 2021/01/19 21:58:16.376120 {wncd_x_R0-0}{1}: [epm-redirect] [9347]: (info):
[0000.0000.0000:unknown] URL-Redirect-ACL = IP-Adm-V4-LOGOUT-ACL 2021/01/19 21:58:16.377322
{wncd_x_R0-0}{1}: [webauth-page] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][
192.168.1.17]HTTP/1.0 200 OK 2021/01/19 21:58:16.378405 {wncd_x_R0-0}{1}: [client-auth] [9347]:
(note): MAC: 2e1f.3a65.9c09 L3 Authentication Successful. ACL:[ ] 2021/01/19 21:58:16.378426
{wncd_x_R0-0}{1}: [client-auth] [9347]: (info): MAC: 2e1f.3a65.9c09 Client auth-interface state
transition: S_AUTHIF_WEBAUTH_PENDING -> S_AUTHIF_WEBAUTH_DONE 2021/01/19 21:58:16.379181
{wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info): MAC: 2e1f.3a65.9c09 Client QoS add mobile cb
2021/01/19 21:58:16.379323 {wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info): MAC:
2e1f.3a65.9c09 No QoS PM Name or QoS Level received from SANet for pm_dir:0. Check client is
fastlane, otherwise set pm name to none 2021/01/19 21:58:16.379358 {wncd_x_R0-0}{1}: [ewlc-qos-
client] [9347]: (info): MAC: 2e1f.3a65.9c09 No QoS PM Name or QoS Level received from SANet for
pm_dir:1. Check client is fastlane, otherwise set pm name to none 2021/01/19 21:58:16.379442
{wncd_x_R0-0}{1}: [client-auth] [9347]: (note): MAC: 2e1f.3a65.9c09 ADD MOBILE sent. Client
state flags: 0x8 BSSID: MAC: f80f.6f15.66ae capwap IFID: 0x90000004 2021/01/19 21:58:16.380547
{wncd_x_R0-0}{1}: [errmsg] [9347]: (info): %CLIENT_ORCH_LOG-6-CLIENT_ADDED_TO_RUN_STATE:
Username entry (Nico) joined with ssid (webauth) for device with MAC: 2e1f.3a65.9c09 2021/01/19
21:58:16.380729 {wncd_x_R0-0}{1}: [aaa-attr-inf] [9347]: (info): [ Applied attribute :bsn-vlan-
interface-name 0 "1" ] 2021/01/19 21:58:16.380736 {wncd_x_R0-0}{1}: [aaa-attr-inf] [9347]:
(info): [ Applied attribute : timeout 0 86400 (0x15180) ] 2021/01/19 21:58:16.380812 {wncd_x_R0-
0}{1}: [aaa-attr-inf] [9347]: (info): [ Applied attribute : url-redirect-acl 0 "IP-Adm-V4-
LOGOUT-ACL" ] 2021/01/19 21:58:16.380969 {wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info):
MAC: 2e1f.3a65.9c09 Client QoS run state handler 2021/01/19 21:58:16.381033 {wncd_x_R0-0}{1}:
[rog-proxy-capwap] [9347]: (debug): Managed client RUN state notification: 2e1f.3a65.9c09
2021/01/19 21:58:16.381152 {wncd_x_R0-0}{1}: [client-orch-state] [9347]: (note): MAC:
2e1f.3a65.9c09 Client state transition: S_CO_L3_AUTH_IN_PROGRESS -> S_CO_RUN 2021/01/19
21:58:16.385252 {wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info): MAC: 2e1f.3a65.9c09 Client
QoS dpath run params 2021/01/19 21:58:16.385321 {wncd_x_R0-0}{1}: [avc-afc] [9347]: (debug): AVC
enabled for client 2e1f.3a65.9c09
```

Vérification de la connectivité 9800 à LDAP

Vous pouvez prendre une capture intégrée dans le 9800 afin de voir quel trafic va vers LDAP.

Pour effectuer une capture à partir du WLC, accédez à **Troubleshooting > Packet Capture** et cliquez sur **+Add**. Sélectionnez le port de liaison ascendante et commencez la capture.



Voici un exemple d'authentification réussie pour l'utilisateur Nico

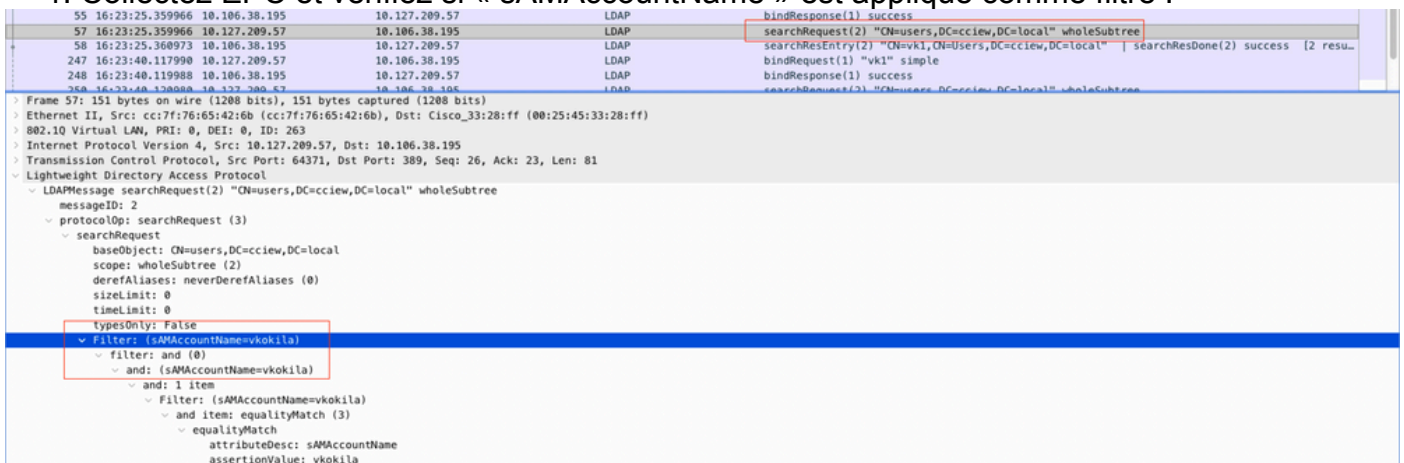
Time	Source	Destination	Protocol	Length	Info
8696	22:58:16.412748	192.168.1.15	192.168.1.192	108	LDAP bindRequest(1) "Administrator@lab.com" simple
8697	22:58:16.414425	192.168.1.192	192.168.1.15	88	LDAP bindResponse(1) success
8699	22:58:16.419645	192.168.1.15	192.168.1.192	128	LDAP searchRequest(2) "CN=Users,DC=lab,DC=com" wholeSubtree
8700	22:58:16.420536	192.168.1.192	192.168.1.15	1260	LDAP searchResEntry(2) "CN=Nico,CN=Users,DC=lab,DC=com" searchResDone(2) success [1 result]
8701	22:58:16.422383	192.168.1.15	192.168.1.192	117	LDAP bindRequest(3) "CN=Nico,CN=Users,DC=lab,DC=com" simple
8702	22:58:16.423513	192.168.1.192	192.168.1.15	88	LDAP bindResponse(3) success

Les 2 premiers paquets représentent la liaison WLC à la base de données LDAP, c'est-à-dire le WLC s'authentifiant auprès de la base de données avec l'utilisateur admin (afin de pouvoir effectuer une recherche).

Ces 2 paquets LDAP représentent le WLC effectuant une recherche dans le DN de base (ici CN=Users, DC=lab, DC=com). L'intérieur du paquet contient un filtre pour le nom d'utilisateur (ici "Nico"). La base de données LDAP renvoie les attributs utilisateur comme une réussite

Les 2 derniers paquets représentent le WLC essayant de s'authentifier avec ce mot de passe utilisateur pour tester si le mot de passe est le bon.

1. Collectez EPC et vérifiez si « sAMAccountName » est appliqué comme filtre :



Si le filtre affiche « cn » et si « sAMAccountName » est utilisé comme nom d'utilisateur,

l'authentification échoue.

Reconfigurez l'attribut de mappage ldap à partir de l'interface de ligne de commande WLC.

2. Assurez-vous que le serveur renvoie « userPassword » en texte clair, sinon l'authentification échoue.

Time	Source IP	Destination IP	Protocol	Details
1197 16:25:05.708962	10.127.209.57	10.106.38.195	LDAP	searchRequest(3) "CN=users,DC=cciew,DC=local" wholeSubtree
1198 16:25:05.709954	10.106.38.195	10.127.209.57	LDAP	searchResEntry(3) "CN=vk1,CN=Users,DC=cciew,DC=local" searchResDone(3) success [2 res...


```
- PartialAttributeList item userPassword
  type: userPassword
  vals: 1 item
    AttributeValue: Cisco123
- PartialAttributeList item givenName
  type: givenName
  vals: 1 item
    AttributeValue: vk1
- PartialAttributeList item distinguishedName
  type: distinguishedName
  vals: 1 item
    AttributeValue: CN=vk1,CN=Users,DC=cciew,DC=local
- PartialAttributeList item instanceType
  type: instanceType
  vals: 1 item
    AttributeValue: 4
- PartialAttributeList item whenCreated
  type: whenCreated
```

3. Utilisez l'outil ldp.exe sur le serveur pour valider les informations de nom unique de base.



FileZilla Client



Best match



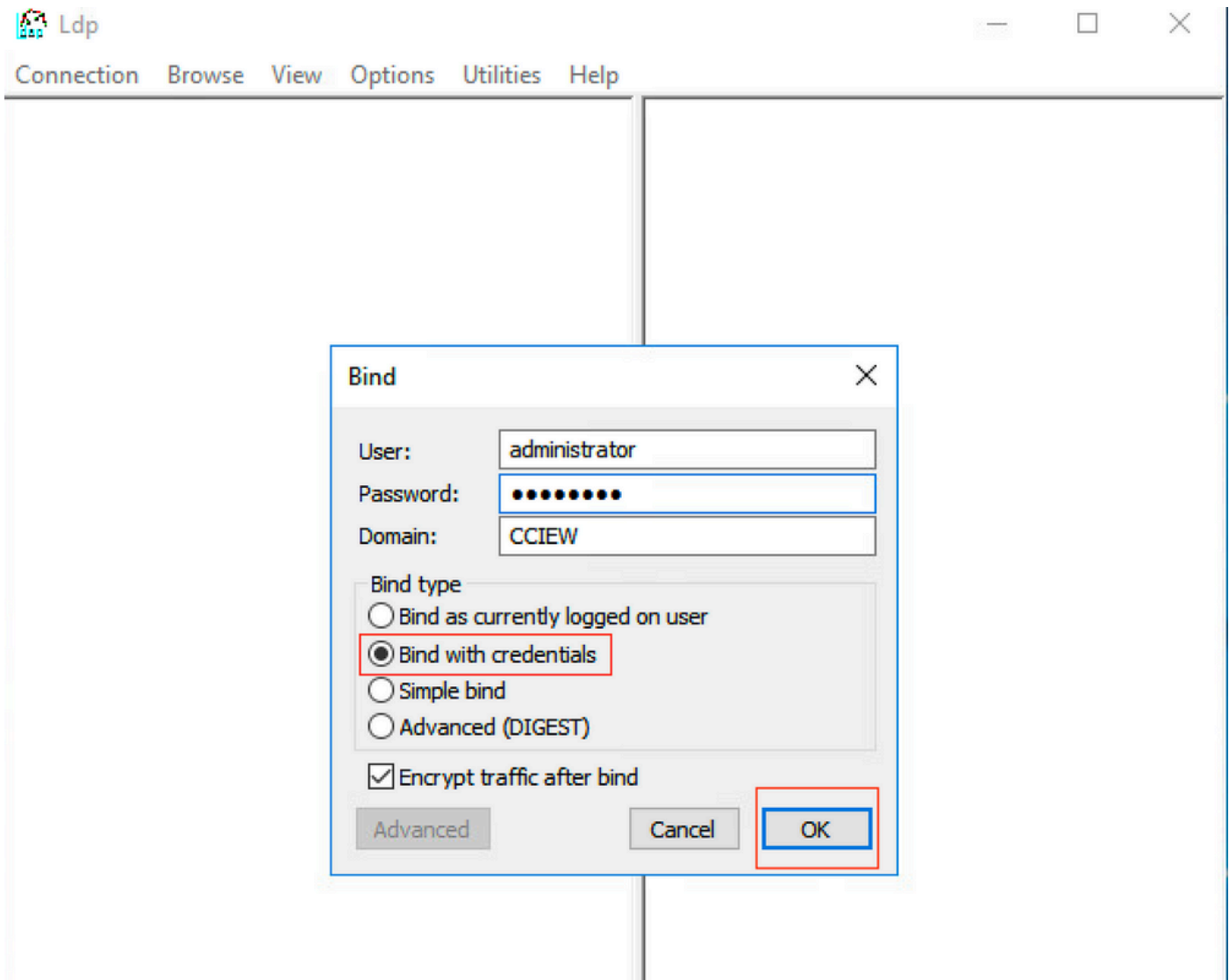
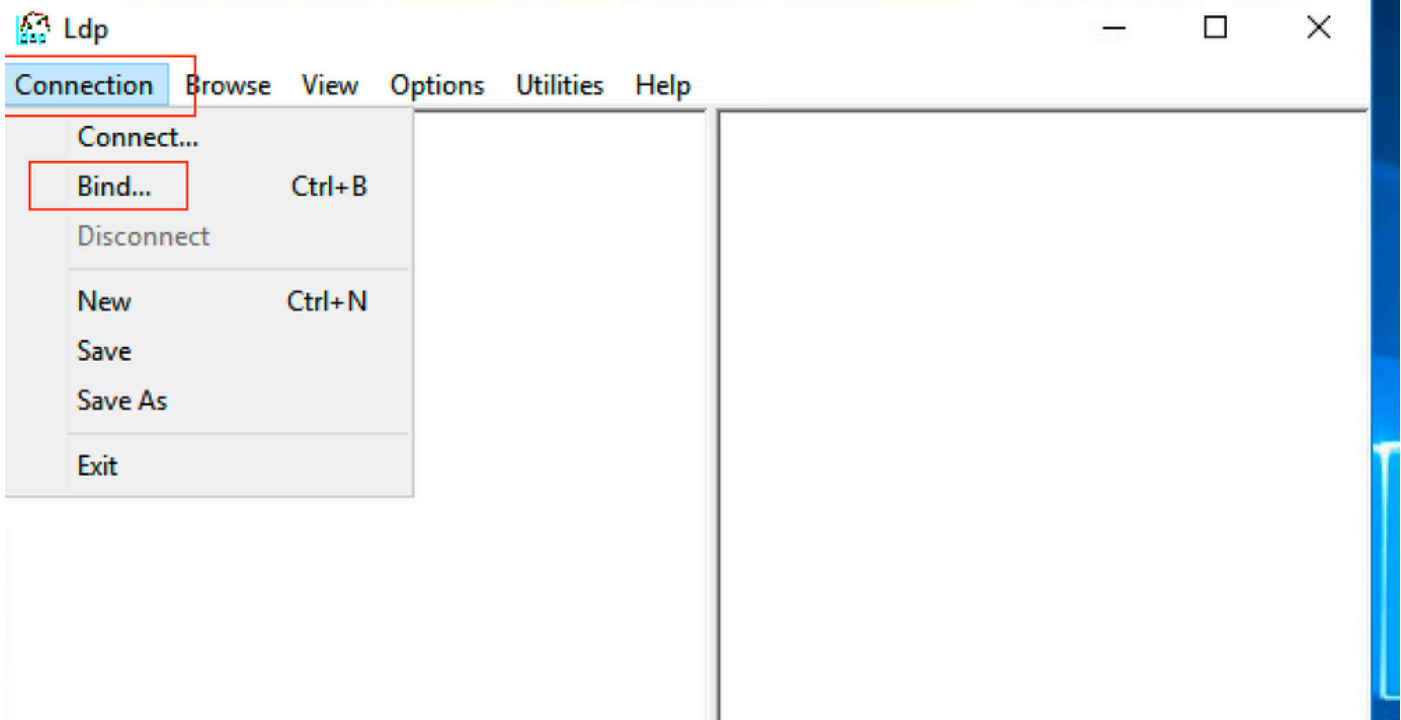
Idp

Run command



Idp





Idap://WIN-3JGG5JOCSVC.cciew.local/DC=cciew,DC=local

Connection Browse **View** Options Utilities Help

- Tree Ctrl+T
- Enterprise Configuration
- Status Bar
- Set Font...

```
POLICY_HINTS_DEPRECATED );
2.840.113556.1.4.2090 = ( DIRSYNC_EX );
2.840.113556.1.4.2205 = ( UPDATE_STATS
); 1.2.840.113556.1.4.2204 = (
TREE_DELETE_EX ); 1.2.840.113556.1.4.2206
= ( SEARCH_HINTS );
2.840.113556.1.4.2211 = (
EXPECTED_ENTRY_COUNT );
1.2.840.113556.1.4.2239 = ( POLICY_HINTS
); 1.2.840.113556.1.4.2255;
1.2.840.113556.1.4.2256;
1.2.840.113556.1.4.2309;
supportedLDAPPolicies (20): MaxPoolThreads;
MaxPercentDirSyncRequests;
MaxDatagramRecv; MaxReceiveBuffer;
InitRecvTimeout; MaxConnections;
MaxConnIdleTime; MaxPageSize;
MaxBatchReturnMessage;
```

Idap://WIN-3JGG5JOCSVC.cciew.local/DC=cciew,DC=local

Connection Browse View Options Utilities Help

```
POLICY_HINTS_DEPRECATED );
1.2.840.113556.1.4.2090 = ( DIRSYNC_EX );
1.2.840.113556.1.4.2205 = ( UPDATE_STATS
); 1.2.840.113556.1.4.2204 = (
TREE_DELETE_EX ); 1.2.840.113556.1.4.2206
= ( SEARCH_HINTS );
1.2.840.113556.1.4.2211 = (
EXPECTED_ENTRY_COUNT );
1.2.840.113556.1.4.2239 = ( POLICY_HINTS
); 1.2.840.113556.1.4.2255;
1.2.840.113556.1.4.2256;
1.2.840.113556.1.4.2309;
supportedLDAPPolicies (20): MaxPoolThreads;
MaxPercentDirSyncRequests;
```

Tree View

BaseDN:

```
MaxReceiveBuffer;
ns;
;
Duration;
SetSize;
erConn;
Range;
maxvarrange transitive, threadMemoryLimit;
SystemMemoryLimitPercent;
supportedLDAPVersion (2): 3; 2;
```

Connection Browse View Options Utilities Help

- DC=cciew,DC=local
- ... CN=Builtin,DC=cciew,DC=local
- ... CN=Computers,DC=cciew,DC=local
- ... OU=Domain Controllers,DC=cciew,DC=local
- ... CN=ForeignSecurityPrincipals,DC=cciew,DC=local
- ... CN=Infrastructure,DC=cciew,DC=local
- ... CN=Keys,DC=cciew,DC=local
- ... CN=LostAndFound,DC=cciew,DC=local
- ... CN=Managed Service Accounts,DC=cciew,DC=local
- ... CN=NTDS Quotas,DC=cciew,DC=local
- ... CN=Program Data,DC=cciew,DC=local
- ... CN=System,DC=cciew,DC=local
- ... CN=TPM Devices,DC=cciew,DC=local
- CN=Users,DC=cciew,DC=local**
- ... CN=Administrator,CN=Users,DC=cciew,DC=local
- ... CN=Allowed RODC Password Replication Group,CN=Users,DC=cciew,DC=local
- ... CN=Cert Publishers,CN=Users,DC=cciew,DC=local
- ... CN=Cloneable Domain Controllers,CN=Users,DC=cciew,DC=local
- ... CN=DefaultAccount,CN=Users,DC=cciew,DC=local
- ... CN=Denied RODC Password Replication Group,CN=Users,DC=cciew,DC=local
- ... CN=DnsAdmins,CN=Users,DC=cciew,DC=local
- ... CN=DnsUpdateProxy,CN=Users,DC=cciew,DC=local
- ... CN=Domain Admins,CN=Users,DC=cciew,DC=local
- ... CN=Domain Computers,CN=Users,DC=cciew,DC=local
- ... CN=Domain Controllers,CN=Users,DC=cciew,DC=local
- ... CN=Domain Guests,CN=Users,DC=cciew,DC=local
- ... CN=Domain Users,CN=Users,DC=cciew,DC=local
- ... CN=Enterprise Admins,CN=Users,DC=cciew,DC=local
- ... CN=Enterprise Key Admins,CN=Users,DC=cciew,DC=local
- ... CN=Enterprise Read-only Domain Controllers,CN=Users,DC=cciew,DC=local
- ... CN=Group Policy Creator Owners,CN=Users,DC=cciew,DC=local
- ... CN=Guest,CN=Users,DC=cciew,DC=local
- ... CN=kanu,CN=Users,DC=cciew,DC=local
- ... CN=Key Admins,CN=Users,DC=cciew,DC=local
- ... CN=krbtgt,CN=Users,DC=cciew,DC=local

```

adminCount: 1;
badPasswordTime: 0 (never);
badPwdCount: 0;
cn: vk1;
codePage: 0;
countryCode: 0;
displayName: vk1;
distinguishedName: CN=vk1,CN=Users,DC=cciew,DC=local;
dSCorePropagationData (2): 29-09-2021 15:16:40 India Standard Time; 0x0 = ( );
givenName: vk1;
instanceType: 0x4 = ( WRITE );
lastLogoff: 0 (never);
lastLogon: 0 (never);
logonCount: 0;
memberOf (4): CN=Domain Admins,CN=Users,DC=cciew,DC=local; CN=Enterprise Admins,CN=Users,DC=cciew,DC=local; CN=Schema Admins,CN=Users,DC=cciew,DC=local; CN=Administrators,CN=Builtin,DC=cciew,DC=local;
name: vk1;
objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=cciew,DC=local;
objectClass (4): top; person; organizationalPerson; user;
objectGUID: 1814f794-025e-4378-abad-66ff78a4a4d3;
objectSid: S-1-5-21-1375146846-274930181-3003521951-1120;
primaryGroupID: 513 = ( GROUP_RID_USERS );
pwdLastSet: 27-09-2021 22:56:11 India Standard Time;
sAMAccountName: vkokila;
sAMAccountType: 805306368 = ( NORMAL_USER_ACCOUNT );
userAccountControl: 0x10200 = ( NORMAL_ACCOUNT | DONT_EXPIRE_PASSWORD );
userPassword: Cisco123;
userPrincipalName: vk1@cciew.local;
uSNChanged: 160181;
uSNCreated: 94284;
whenChanged: 29-09-2021 15:16:40 India Standard Time;
whenCreated: 25-12-2020 16:25:53 India Standard Time;
-----
Expanding base 'CN=Users,DC=cciew,DC=local'...
Getting 1 entries:
Dn: CN=Users,DC=cciew,DC=local
cn: Users;
description: Default container for upgraded user accounts;
distinguishedName: CN=Users,DC=cciew,DC=local;
dSCorePropagationData (2): 29-09-2019 01:09:51 India Standard Time; 0x1 = ( NEW_SD );
instanceType: 0x4 = ( WRITE );
isCriticalSystemObject: TRUE;
name: Users;
objectCategory: CN=Container,CN=Schema,CN=Configuration,DC=cciew,DC=local;

```

```

... CN=Users,DC=cciew,DC=local
... CN=Administrator,CN=Users,DC=cciew,DC=local
... CN=Allowed RODC Password Replication Group,CN=Users,DC=cciew,DC=local
... CN=Cert Publishers,CN=Users,DC=cciew,DC=local
... CN=Cloneable Domain Controllers,CN=Users,DC=cciew,DC=local
... CN=DefaultAccount,CN=Users,DC=cciew,DC=local
... CN=Denied RODC Password Replication Group,CN=Users,DC=cciew,DC=local
... CN=DnsAdmins,CN=Users,DC=cciew,DC=local
... CN=DnsUpdateProxy,CN=Users,DC=cciew,DC=local
... CN=Domain Admins,CN=Users,DC=cciew,DC=local
... CN=Domain Computers,CN=Users,DC=cciew,DC=local
... CN=Domain Controllers,CN=Users,DC=cciew,DC=local
... CN=Domain Guests,CN=Users,DC=cciew,DC=local
... CN=Domain Users,CN=Users,DC=cciew,DC=local
... CN=Enterprise Admins,CN=Users,DC=cciew,DC=local
... CN=Enterprise Key Admins,CN=Users,DC=cciew,DC=local
... CN=Enterprise Read-only Domain Controllers,CN=Users,DC=cciew,DC=local
... CN=Group Policy Creator Owners,CN=Users,DC=cciew,DC=local
... CN=Guest,CN=Users,DC=cciew,DC=local
... CN=kanu,CN=Users,DC=cciew,DC=local
... CN=Key Admins,CN=Users,DC=cciew,DC=local
... CN=krbtgt,CN=Users,DC=cciew,DC=local
... CN=Protected Users,CN=Users,DC=cciew,DC=local
... CN=RAS and IAS Servers,CN=Users,DC=cciew,DC=local
... CN=Read-only Domain Controllers,CN=Users,DC=cciew,DC=local
... CN=Schema Admins,CN=Users,DC=cciew,DC=local
... CN=sony s,CN=Users,DC=cciew,DC=local
... CN=tejas,CN=Users,DC=cciew,DC=local
... CN=test,CN=Users,DC=cciew,DC=local
... CN=test123,CN=Users,DC=cciew,DC=local
... CN=vk,CN=Users,DC=cciew,DC=local
... CN=vk1,CN=Users,DC=cciew,DC=local
... No children
... CN=Yogesh G.,CN=Users,DC=cciew,DC=local

```

```

showAdvancedViewOnly: FALSE,
systemFlags: 0x8C000000 = ( DISALLOW_DELETE | DOMAIN_DISALLOW_REI
uSNChanged: 5888;
uSNCreated: 5888;
whenChanged: 29-09-2019 01:08:06 India Standard Time;
whenCreated: 29-09-2019 01:08:06 India Standard Time;

```

Expanding base 'CN=vk1,CN=Users,DC=cciew,DC=local'...
Getting 1 entries:

```

Dn: CN=vk1,CN=Users,DC=cciew,DC=local
  accountExpires: 9223372036854775807 (never);
  adminCount: 1;
  badPasswordTime: 0 (never);
  badPwdCount: 0;
  cn: vk1;
  codePage: 0;
  countryCode: 0;
  displayName: vk1;
  distinguishedName: CN=vk1,CN=Users,DC=cciew,DC=local;
  dScorePropagationData (2): 29-09-2021 15:16:40 India Standard Time; 0x0 =
  givenName: vk1;
  instanceType: 0x4 = ( WRITE );
  lastLogoff: 0 (never);
  lastLogon: 0 (never);
  logonCount: 0;
  memberOf (4): CN=Domain Admins,CN=Users,DC=cciew,DC=local; CN=Enterp
    Admins,CN=Users,DC=cciew,DC=local; CN=Administrators,CN=Builtin,DC=
  name: vk1;
  objectCategory: CN=Person,CN=Schema,CN=Configuration,DC=cciew,DC=loc
  objectClass (4): top; person; organizationalPerson; user;
  objectGUID: 1814f794-025e-4378-abad-66ff78a4a4d3;
  objectSid: S-1-5-21-1375146846-274930181-3003521951-1120;
  primaryGroupID: 513 = ( GROUP_RID_USERS );
  pwdLastSet: 27-09-2021 22:56:11 India Standard Time;
  sAMAccountName: vkokila;
  sAMAccountType: 805306368 = ( NORMAL_USER_ACCOUNT );
  userAccountControl: 0x10200 = ( NORMAL_ACCOUNT | DONT_EXPIRE_PASS
  userPassword: Cisco123;
  userPrincipalName: vk1@cciew.local;
  uSNChanged: 160181;
  uSNCreated: 94284;
  whenChanged: 29-09-2021 15:16:40 India Standard Time;
  whenCreated: 25-12-2020 16:25:53 India Standard Time;

```

4. Vérifier les statistiques du serveur et l'attribut MAP

```
C9800-40-K9#show ldap server all
```

```
Server Information for ldap
```

```
=====
```

```

Server name           :ldap
Server Address        :10.106.38.195
Server listening Port :389
Bind Root-dn         :vk1
Server mode           :Non-Secure
Cipher Suite          :0x00
Authentication Seq    :Search first. Then Bind/Compare password next
Authentication Procedure:Bind with user password

```

Base-Dn :CN=users,DC=cciew,DC=local
Object Class :Person
Attribute map :VK
Request timeout :30
Deadtime in Mins :0
State :ALIVE

* LDAP STATISTICS *

Total messages [Sent:2, Received:3]
Response delay(ms) [Average:2, Maximum:2]
Total search [Request:1, ResultEntry:1, ResultDone:1]
Total bind [Request:1, Response:1]
Total extended [Request:0, Response:0]
Total compare [Request:0, Response:0]
Search [Success:1, Failures:0]
Bind [Success:1, Failures:0]
Missing attrs in Entry [0]
Connection [Closes:0, Aborts:0, Fails:0, Timeouts:0]

No. of active connections :0

Références

[Exemple de configuration EAP local sur le 9800](#)

À propos de cette traduction

Cisco a traduit ce document en traduction automatisée vérifiée par une personne dans le cadre d'un service mondial permettant à nos utilisateurs d'obtenir le contenu d'assistance dans leur propre langue.

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