

Configurar o Catalyst 9800 WLC com autenticação LDAP para 802.1X e autenticação da Web

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Introduction

Este documento descreve como configurar um Catalyst 9800 para autenticar clientes com um Servidor LDAP como o banco de dados para credenciais de usuário.

Prerequisites

Requirements

A Cisco recomenda que você tenha conhecimento destes tópicos:

- Servidores Microsoft Windows
- Ative Directory ou qualquer outro banco de dados LDAP

Componentes Utilizados

C9800 EWC no Access Point (AP) C9100 com Cisco IOS®-XE versão 17.3.2a

Servidor Microsoft Ative Diretory (AD) com Armazenamento de Acesso à Rede (NAS) QNAP que atua como banco de dados 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. Se a rede estiver ativa, certifique-se de que você entenda o impacto potencial de qualquer comando.

Configurar LDAP com um SSID Webauth

Diagrama de Rede

Este artigo foi escrito com base em uma configuração muito simples:

Um EWC AP 9115 com IP 192.168.1.15

Um servidor Ative Diretory com IP 192.168.1.192

Um cliente que se conecta ao AP interno do EWC

Configurar o controlador

Etapa 1. Configurar o servidor LDAP

Navegue para Configuration > Security > AAA > Servers/Groups > LDAP e clique em + Add

The screenshot shows the Cisco Embedded Wireless Controller on Catalyst Access Points interface. The top navigation bar includes a back arrow, the Cisco logo, and the text "Cisco Embedded Wireless Controller on Catalyst Access Points 17.3.2a". Below the navigation bar, the main menu has a search bar labeled "Search Menu Items" and several icons for Dashboard, Monitoring, Configuration, Administration, Licensing, and Troubleshooting. The "Configuration" icon is highlighted in blue. The main content area shows the "AAA" configuration path: Configuration > Security > AAA. Under "AAA", there are tabs for "Servers / Groups" (which is selected), "AAA Method List", and "AAA Advanced". Below these tabs are buttons for "+ Add" and "Delete". Under "Servers / Groups", there are sections for "RADIUS", "TACACS+", and "LDAP". The "LDAP" section is currently active. On the right side, there is a table titled "Servers" with one entry: "Name" (with a checkbox) and "NAS".

Escolha um nome para o servidor LDAP e preencha os detalhes. Para obter explicações sobre cada campo, consulte a seção "Compreender os detalhes do servidor LDAP" deste documento.

Edit AAA LDAP Server



| Server Name* | AD | | | | |
|--------------------------|--|---|--------|--------|---|
| Server Address* | 192.168.1.192 | <div style="border: 1px solid #ccc; padding: 5px; background-color: #f0f0f0;"><p>! Provide a valid Server address</p></div> | | | |
| Port Number* | 389 | | | | |
| Simple Bind | Authenticated | | | | |
| Bind User name* | Administrator@lab.cor | | | | |
| Bind Password * | - | | | | |
| Confirm Bind Password* | - | | | | |
| User Base DN* | CN=Users,DC=lab,DC= | | | | |
| User Attribute | - | | | | |
| User Object Type | + <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"><table><thead><tr><th>User Object Type</th><th>Remove</th></tr></thead><tbody><tr><td>Person</td><td>X</td></tr></tbody></table></div> | User Object Type | Remove | Person | X |
| User Object Type | Remove | | | | |
| Person | X | | | | |
| Server Timeout (seconds) | 0-65534 | | | | |
| Secure Mode | <input type="checkbox"/> | | | | |
| Trustpoint Name | - | | | | |

Salvar clicando em **Atualizar e aplicar ao dispositivo**

Comandos CLI:

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

Etapa 2. Configurar um grupo de servidores LDAP.

Navegue para Configuration > Security > AAA > Servers/ Groups > LDAP > Server Groups e clique em **+ADD**

Servers / Groups AAA Method List AAA Advanced

+ Add × Delete

| Servers | | Server Groups | |
|-------------------------------------|--------|---------------|--------|
| | Name | Type | Server |
| <input checked="" type="checkbox"/> | ldapgr | AD | N/A |

10 items per page

Digite um nome e adicione o servidor LDAP que você configurou na etapa anterior.

| | | |
|-------------------|--|--|
| Name* | <input type="text" value="ldapgr"/> | |
| Group Type | <input type="text" value="LDAP"/> | |
| Available Servers | Assigned Servers | |
| NAS | <input type="button" value=">"/> <input type="button" value="<"/> <input type="button" value="»"/> <input type="button" value="«"/> | AD <input type="button" value="^"/> <input type="button" value="v"/> <input type="button" value="^"/> <input type="button" value="v"/> |

Clique em **Update and apply** para salvar.

Comandos CLI :

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

Etapa 3. Configurar o método de autenticação AAA

Navegue para **Configuration > Security > AAA > AAA method List > Authentication** e clique em **+Add**

+ AAA Wizard

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

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

Insira um nome, escolha o tipo **Login** e aponte para o grupo de servidores LDAP configurado anteriormente.

Quick Setup: AAA Authentication

| | |
|--|--|
| Method List Name* | <input type="text" value="ldapauth"/> |
| Type* | <input type="text" value="login"/> ⓘ |
| Group Type | <input type="text" value="group"/> ⓘ |
| Fallback to local | <input type="checkbox"/> |
| Available Server Groups <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> radius ldap tacacs+ </div> | |
| Assigned Server Groups <div style="border: 1px solid #ccc; padding: 5px; margin-bottom: 10px;"> ldapgr </div> | |
| | <input type="button" value=">"/> ⏪ <input type="button" value="<"/> ⏩ <input type="button" value="»"/> ⏵ <input type="button" value="«"/> ⏴ |

Comandos CLI :

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

Etapa 4. Configurar um método de autorização AAA

Navegue para **Configuration > Security > AAA > AAA method list > Authorization** e clique em **+Add**

| Name | Type | Group Type | Group |
|----------|---------------------|------------|--------|
| default | credential-download | group | ldapgr |
| ldapauth | credential-download | group | ldapgr |

Crie uma regra do tipo de download de credenciais com o nome de sua escolha e aponte-a para o grupo de servidores LDAP criado anteriormente

Quick Setup: AAA Authorization

| | |
|--|--|
| Method List Name* | <input type="text" value="ldapauth"/> |
| Type* | <input type="text" value="credential-download"/> ⓘ |
| Group Type | <input type="text" value="group"/> ⓘ |
| Fallback to local | <input type="checkbox"/> |
| Authenticated | <input type="checkbox"/> |
| Available Server Groups | |
| <input type="checkbox" value="radius"/> <input type="checkbox" value="ldap"/> <input type="checkbox" value="tacacs+"/> | |
| <input type="button" value=">"/> <input type="button" value="<"/> <input type="button" value="»"/> <input type="button" value="«"/> | |
| Assigned Server Groups | |
| <input type="checkbox" value="ldapgr"/> | |
| <input type="button" value="^"/> <input type="button" value="^"/> <input type="button" value="v"/> <input type="button" value="v"/> | |

Comandos CLI :

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

Etapa 5. Configurar a autenticação local

Navegue até Configuration > Security > AAA > AAA Advanced > Global Config

Defina a autenticação local e a autorização local como **Lista de métodos** e selecione o método de autenticação e autorização configurado anteriormente.

[+ 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

Authentication Method List

Local Authorization

Authorization Method List

Radius Server Load Balance

Interim Update

Method List

Idapauth

Method List

Idapauth

DISABLED

[Show Advanced Settings >>](#)**Comandos CLI :**

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

Etapa 6. Configurar o mapa de parâmetros webauth

Navegue até Configuration > Security > Web Auth e edite o mapa global

Configuration > Security > Web Auth[+ Add](#)[× Delete](#)**Parameter Map Name**

global



1



10

items per page

Certifique-se de configurar um endereço IPv4 virtual, como 192.0.2.1 (esse IP/sub-rede específico é reservado para IP virtual não roteável).

Edit Web Auth Parameter

General Advanced

| | |
|-----------------------------------|--|
| Parameter-map name | 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 | 100 |
| Init-State Timeout(secs) | 120 |
| Type | webauth ▾ |
| Virtual IPv4 Address | 192.0.2.1 |
| Trustpoint | --- Select --- ▾ |
| Virtual IPv4 Hostname | |
| Virtual IPv6 Address | XXXXXX |
| Web Auth intercept HTTPS | <input type="checkbox"/> |
| Watch List Enable | <input type="checkbox"/> |
| Watch List Expiry Timeout(secs) | 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) | 720 |

Clique em **Aplicar** para salvar.

Comandos CLI :

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

Etapa 7. Configurar uma WLAN de webauth

Navegue até Configuration > WLANs e clique em +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* | webauth | Radio Policy | All |
| SSID* | webauth | Broadcast SSID | ENABLED |
| WLAN ID* | 2 | | |
| Status | ENABLED | | |

Configure o nome, verifique se ele está no estado habilitado e vá para a guia **Segurança**.

Na subguia **Layer 2**, certifique-se de que não haja segurança e que a transição rápida esteja desativada.

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

Na guia **Layer3**, ative a **política da Web**, defina o mapa de parâmetros como **global** e defina a lista de autenticação para o método de login aaa configurado anteriormente.

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

Show Advanced Settings >>>

Web Policy



Web Auth Parameter Map

global



Authentication List

Idapauth



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

Salvar clicando em **Aplicar**

Comandos 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
```

Etapa 8. Verifique se o SSID foi transmitido

Navegue até **Configuration > Tags** e verifique se o SSID está incluído no perfil de política atualmente em serviço pelo SSID (a tag de política padrão para uma nova configuração nova se você ainda não tiver configurado as tags). Por padrão, a tag-política padrão não transmite novos SSIDs criados até que você os inclua manualmente.

Este artigo não aborda a configuração de perfis de política e presume que você esteja familiarizado com essa parte da configuração.

Configurar LDAP com um SSID dot1x (usando EAP local)

A configuração do LDAP para um SSID 802.1X no 9800 normalmente exige também a configuração do EAP local. Se você fosse usar o RADIUS, seria seu servidor RADIUS estabelecer uma conexão com o banco de dados LDAP e isso está fora do escopo deste artigo. Antes de tentar essa configuração, é recomendável configurar o EAP Local primeiro com um usuário local configurado no WLC. Um exemplo de configuração é fornecido na seção de referências no final deste artigo. Depois de concluído, você pode tentar mover o banco de dados do usuário para LDAP.

Etapa 1. Configurar um perfil EAP Local

Navegue até **Configuration > Local EAP** e clique em **+Add**



Search Menu Items

Dashboard

Monitoring

Configuration

Administration

Licensing

Troubleshooting

Configuration > Security > Local EAP

Local EAP Profiles

EAP-FAST Parameters

+ Add

X Delete

Profile Name

PEAP

10 items per page

Escolha qualquer nome para o seu perfil. Habilite pelo menos o PEAP e escolha um Nome de Ponto de Confiança. Por padrão, sua WLC tem apenas certificados autoassinados, portanto, não importa qual você escolha (normalmente TP-self-signed-xxxx é o melhor para essa finalidade), mas como as novas versões do sistema operacional dos smartphones confiam menos e menos certificados autoassinados, considere a instalação de um certificado confiável assinado publicamente.

Edit Local EAP Profiles

Profile Name*

PEAP

LEAP

EAP-FAST

EAP-TLS

PEAP

Trustpoint Name

TP-self-signed-3059

Comandos CLI :

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

Etapa 2. Configurar o servidor LDAP

Navegue para Configuration > Security > AAA > Servers/Groups > LDAP e clique em + Add

The screenshot shows the Cisco Embedded Wireless Controller on Catalyst Access Points interface. The top navigation bar includes a back arrow, the Cisco logo, and the text "Cisco Embedded Wireless Controller on Catalyst Access Points 17.3.2a". Below the navigation bar is a search bar labeled "Search Menu Items". The main menu on the left has items: Dashboard, Monitoring, Configuration (which is selected), Administration, Licensing, and Troubleshooting. The "Configuration" item has a dropdown arrow. The central content area shows the "AAA" configuration path: Configuration > Security > AAA. There are three tabs at the top of this section: "Servers / Groups" (selected), "AAA Method List", and "AAA Advanced". Below these tabs are two buttons: "+ Add" (highlighted in blue) and "Delete". Underneath the tabs, there are three sections: "RADIUS", "TACACS+", and "LDAP" (highlighted in blue). To the right, there is a table titled "Servers" with one row visible, showing a checkbox and the name "NAS". Another tab, "Server Groups", is also present.

Escolha um nome para o servidor LDAP e preencha os detalhes. Para obter explicações sobre cada campo, consulte a seção "Compreender os detalhes do servidor LDAP" deste documento.

Edit AAA LDAP Server



| Server Name* | AD | | | | |
|--------------------------|--|---|--------|--------|---|
| Server Address* | 192.168.1.192 | <div style="border: 1px solid #ccc; padding: 5px; background-color: #f0f0f0;"><p>! Provide a valid Server address</p></div> | | | |
| Port Number* | 389 | | | | |
| Simple Bind | Authenticated | | | | |
| Bind User name* | Administrator@lab.cor | | | | |
| Bind Password * | - | | | | |
| Confirm Bind Password* | - | | | | |
| User Base DN* | CN=Users,DC=lab,DC= | | | | |
| User Attribute | - | | | | |
| User Object Type | + <div style="border: 1px solid #ccc; padding: 5px; margin-top: 10px;"><table><thead><tr><th>User Object Type</th><th>Remove</th></tr></thead><tbody><tr><td>Person</td><td>X</td></tr></tbody></table></div> | User Object Type | Remove | Person | X |
| User Object Type | Remove | | | | |
| Person | X | | | | |
| Server Timeout (seconds) | 0-65534 | | | | |
| Secure Mode | <input type="checkbox"/> | | | | |
| Trustpoint Name | - | | | | |

Salvar clicando em **Atualizar e aplicar ao dispositivo**

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

Etapa 3. Configurar um grupo de servidores LDAP.

Navegue para Configuration > Security > AAA > Servers/ Groups > LDAP > Server Groups e clique em **+ADD**

The screenshot shows the 'AAA Advanced' configuration page. On the left, there are tabs for 'RADIUS', 'TACACS+', and 'LDAP', with 'LDAP' currently selected. At the top, there are buttons for '+ Add' and 'Delete'. The main area displays a table titled 'Server Groups' with one entry:

| Name | Type | Server |
|--------|------|--------|
| ldapgr | AD | N/A |

Below the table are navigation buttons for pages and items per page.

Digite um nome e adicione o servidor LDAP que você configurou na etapa anterior.

| | |
|--|-------------------------------------|
| Name* | <input type="text" value="ldapgr"/> |
| Group Type | <input type="text" value="LDAP"/> |
| <div style="display: flex; justify-content: space-between;"> Available Servers Assigned Servers </div> <div style="display: flex; align-items: center;"> <div style="border: 1px solid #ccc; padding: 5px; margin-right: 10px;">NAS</div> <div style="display: flex; align-items: center;"> > < » « </div> <div style="border: 1px solid #ccc; padding: 5px; margin-right: 10px;">AD</div> <div style="display: flex; align-items: center;"> ^ v _ - </div> </div> | |

Clique em **Update and apply** para salvar.

Comandos CLI :

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

Etapa 4. Configurar um método de autenticação AAA

Navegue para Configuration > Security > AAA > AAA Method List > Authentication e clique em **+Add**

Configure um método de autenticação do tipo **dot1x** e aponte-o somente para local. Seria tentador apontar para o grupo de servidores LDAP, mas é o próprio WLC que atua como o autenticador

802.1X aqui (embora o banco de dados do usuário esteja no LDAP, mas esse é o trabalho do método de autorização).

Quick Setup: AAA Authentication

| | | | |
|-------------------|----------|---|---|
| Method List Name* | Idapauth | | |
| Type* | dot1x | ▼ | ⓘ |
| Group Type | local | ▼ | ⓘ |

| Available Server Groups | Assigned Server Groups | | |
|---|--|---|--|
| <div style="border: 1px solid #ccc; padding: 5px; height: 150px; width: 150px; display: flex; align-items: center; justify-content: center;">radius ldap tacacs+ ldapgr</div> | <div style="border: 1px solid #ccc; padding: 5px; height: 150px; width: 150px; display: flex; align-items: center; justify-content: center;">> < » «</div> | <div style="border: 1px solid #ccc; padding: 5px; height: 150px; width: 150px; display: flex; align-items: center; justify-content: center;"></div> | <div style="border: 1px solid #ccc; padding: 5px; height: 150px; width: 150px; display: flex; align-items: center; justify-content: center;">^ v</div> |

Comando CLI:

```
aaa authentication dot1x ldapauth local
```

Etapa 5. Configurar um método de autorização AAA

Navegue para Configuration > Security > AAA > AAA Method List > Authorization e clique em **+Add**

Crie um tipo de método de autorização **credential-download** e aponte para o grupo LDAP.

Quick Setup: AAA Authorization

| | |
|-------------------|--------------------------|
| Method List Name* | ldapauth |
| Type* | credential-download ▾ ⓘ |
| Group Type | group ▾ ⓘ |
| Fallback to local | <input type="checkbox"/> |
| Authenticated | <input type="checkbox"/> |

Available Server Groups Assigned Server Groups



Comando CLI :

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

Etapa 6. Configurar detalhes da autenticação local

Navegue até **Configuration > Security > AAA > AAA Method List > AAA advanced**

Escolha **Method List** para autenticação e autorização e selecione o método de autenticação dot1x que aponta localmente e o método de autorização de download de credenciais que aponta para LDAP

[+ AAA Wizard](#)

Servers / Groups

AAA Method List

AAA Advanced**Global Config**

RADIUS Fallback

Local Authentication

Method List ▾

Attribute List Name

Authentication Method List

Idapauth ▾

Device Authentication

Local Authorization

Method List ▾

AP Policy

Authorization Method List

Idapauth ▾

Password Policy

Radius Server Load Balance

DISABLED

AAA Interface

Interim Update

[Show Advanced Settings >>](#)**Comando CLI :**

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

Etapa 7. Configurar uma WLAN dot1xNavegue até Configuration > WLAN e clique em **+Add**

Escolha um perfil e um nome SSID e verifique se ele está ativado.

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*

LDAP

Radio Policy

All

▼

SSID*

LDAP

Broadcast SSID

ENABLED

WLAN ID*

1

Status

ENABLED

Vá para a guia Layer 2 security.

Escolha WPA+WPA2 como modo de segurança da camada 2

Verifique se WPA2 e AES estão habilitados nos parâmetros WPA e habilite 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

Lobby Admin Access

MAC Filtering

Fast Transition

Adaptive Enab... ▾

Protected Management Frame

PMF

Disabled

Over the DS

Reassociation Timeout

20

WPA Parameters

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

MPSK Configuration

MPSK

Vá até a subguia AAA.

Escolha o método de autenticação dot1x criado anteriormente, ative a autenticação EAP local e escolha o perfil EAP configurado na primeira etapa.

The screenshot shows the 'Edit WLAN' configuration page. The 'Security' tab is selected. Under the 'AAA' sub-tab, the 'Authentication List' dropdown is set to 'ldapauth'. The 'Local EAP Authentication' checkbox is checked. The 'EAP Profile Name' dropdown is set to 'PEAP'.

Salvar clicando em Aplicar

Comandos CLI:

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

Etapa 8. Verificar se a WLAN está em broadcast.

Navegue até **Configuration > Tags** e verifique se o SSID está incluído no perfil de política atualmente em serviço pelo SSID (a tag de política padrão para uma nova configuração nova se você ainda não tiver configurado as tags). Por padrão, a tag-política padrão não transmite novos SSIDs criados até que você os inclua manualmente.

Este artigo não aborda a configuração de perfis de política e presume que você esteja familiarizado com essa parte da configuração.

Se estiver usando o Ative Directory, você deverá configurar o servidor do AD para enviar o atributo "userPassword". Esse atributo precisa ser enviado para a WLC. Isso ocorre porque a WLC faz a verificação, não o servidor do AD. Você também pode ter problemas de autenticação com o método PEAP-mschapv2, pois a senha nunca é enviada em texto não criptografado e, portanto, não pode ser verificada com o banco de dados LDAP. Somente o método PEAP-GTC funcionaria com determinados bancos de dados LDAP.

Entender detalhes do servidor LDAP

Entender campos na interface do usuário da Web do 9800

Este é um exemplo de um Ative Directory muito básico que atua como servidor LDAP configurado

no 9800

Edit AAA LDAP Server

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

Nome e IP são, esperamos, autoexplicativos.

Porta: 389 é a porta padrão para LDAP, mas o servidor pode usar outra.

Ligaçāo simples : atualmente, é muito raro ter um banco de dados LDAP que suporte associaçāo não autenticada (o que significa que qualquer pessoa pode fazer uma pesquisa LDAP nele sem qualquer forma de autenticação). A ligacāo simples autenticada é o tipo mais comum de autenticação e o que o Ative Diretory permite por padrão. Você pode inserir um nome de conta de administrador e uma senha para poder pesquisar no banco de dados de usuários a partir daí.

Associar nome de usuário: Você precisa apontar para um nome de usuário com privilégios de administrador no Ative Diretory. O AD tolera o formato "user@domain" para ele, enquanto muitos outros bancos de dados LDAP esperam um formato "CN=xxx,DC=xxx" para o nome de usuário. Um exemplo com outro banco de dados LDAP diferente do AD é fornecido mais adiante neste artigo.

Ligar senha: Insira a senha que o nome de usuário admin inseriu anteriormente.

DN base do usuário: Digite aqui a "raiz de pesquisa", que é o local na árvore LDAP onde as pesquisas começam. Neste exemplo, todos os nossos usos estão sob o grupo "Usuários", cujo DN é "CN=Users,DC=lab,DC=com" (já que o domínio LDAP do exemplo é lab.com). Um exemplo de como descobrir esse DN base do usuário é fornecido posteriormente nesta seção.

Atributo de usuário: Isso pode ser deixado em branco ou apontar para um mapa de atributos LDAP que indica qual campo LDAP conta como nome de usuário para seu banco de dados LDAP. No entanto, devido à ID de bug da Cisco [CSCv11813](#), a WLC tenta uma autenticação com o campo CN, não importa o que aconteça.

Tipo de objeto do usuário: Isso determina o tipo de objetos que são considerados usuários. Normalmente, é "Pessoa". Pode ser "Computadores" se você tiver um banco de dados do AD e autenticar contas de computador, mas o LDAP fornece mais uma vez muita personalização.

O modo seguro habilita o LDAP seguro sobre TLS e exige que você selecione um ponto confiável no 9800 para usar um certificado para a criptografia TLS.

Autenticação LDAP 802.1x com atributo sAMAccountName.

Esse aprimoramento foi introduzido na versão 17.6.1.

Configure o atributo "userPassword" para o usuário.

Etapa 1. No servidor Windows, navegue até Usuários e Computadores do Ative Diretory

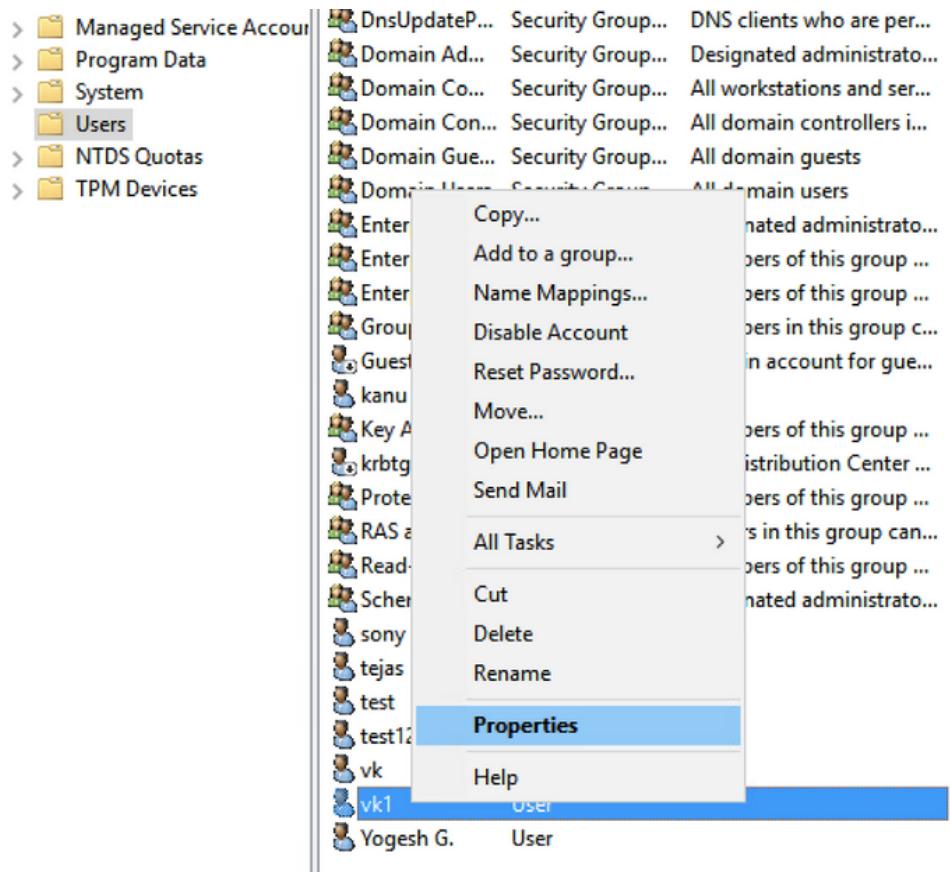
Active Directory Users and Computers

File Action View Help

The screenshot shows the Windows Active Directory Users and Computers management console. On the left is a navigation pane with various folder icons like Saved Queries, ccview.local, and Users. The main pane displays a table of objects:

| Name | Type | Description |
|-----------------|-------------------|------------------------------|
| Administrator | User | Built-in account for ad... |
| Allowed RO... | Security Group... | Members in this group c... |
| Cert Publish... | Security Group... | Members of this group ... |
| Cloneable D... | Security Group... | Members of this group t... |
| DefaultAcco... | User | A user account manage... |
| Denied ROD... | Security Group... | Members in this group c... |
| DnsAdmins | Security Group... | DNS Administrators Gro... |
| DnsUpdateP... | Security Group... | DNS clients who are per... |
| Domain Ad... | Security Group... | Designated administrato... |
| Domain Co... | Security Group... | All workstations and ser... |
| Domain Con... | Security Group... | All domain controllers i... |
| Domain Gue... | Security Group... | All domain guests |
| Domain Users | Security Group... | All domain users |
| Enterprise A... | Security Group... | Designated administrato... |
| Enterprise K... | Security Group... | Members of this group ... |
| Enterprise R... | Security Group... | Members of this group ... |
| Group Polic... | Security Group... | Members in this group c... |
| Guest | User | Built-in account for gue... |
| kanu | User | |
| Key Admins | Security Group... | Members of this group ... |
| krbtgt | User | Key Distribution Center ... |
| Protected Us... | Security Group... | Members of this group ... |
| RAS and IAS ... | Security Group... | Servers in this group can... |
| Read-only D... | Security Group... | Members of this group ... |
| Schema Ad... | Security Group... | Designated administrato... |
| sony s | User | |
| tejas | User | |
| test | User | |
| test123 | User | |
| vk | User | |
| vk1 | User | |
| Yogesh G. | User | |

Etapa 2. Clique com o botão direito do mouse no respectivo nome de usuário e selecione as propriedades



Etapa 3. Selecionar o editor de atributos na janela de propriedades

vk1 Properties

?

X

| 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_ |
| 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

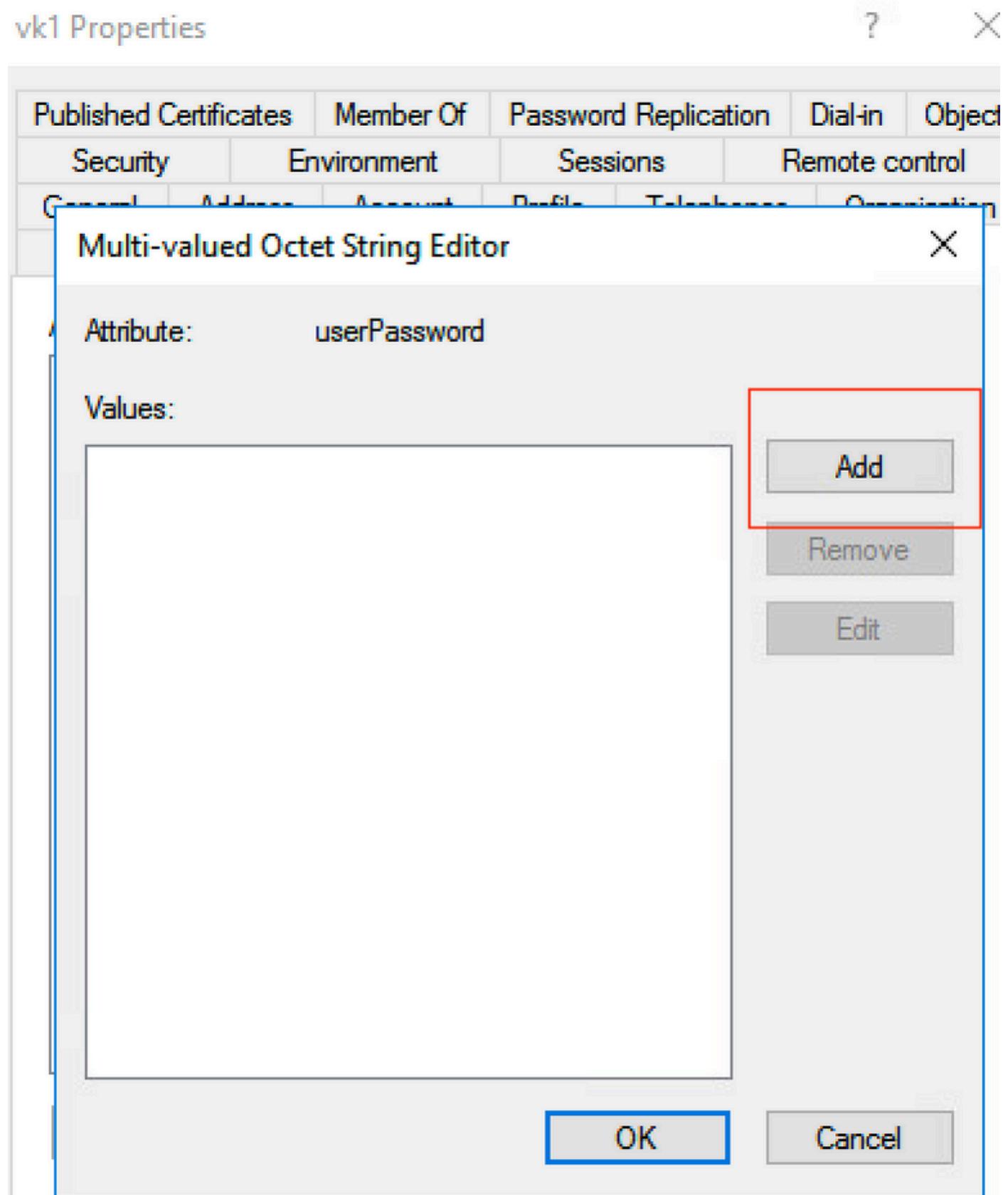
Cancel

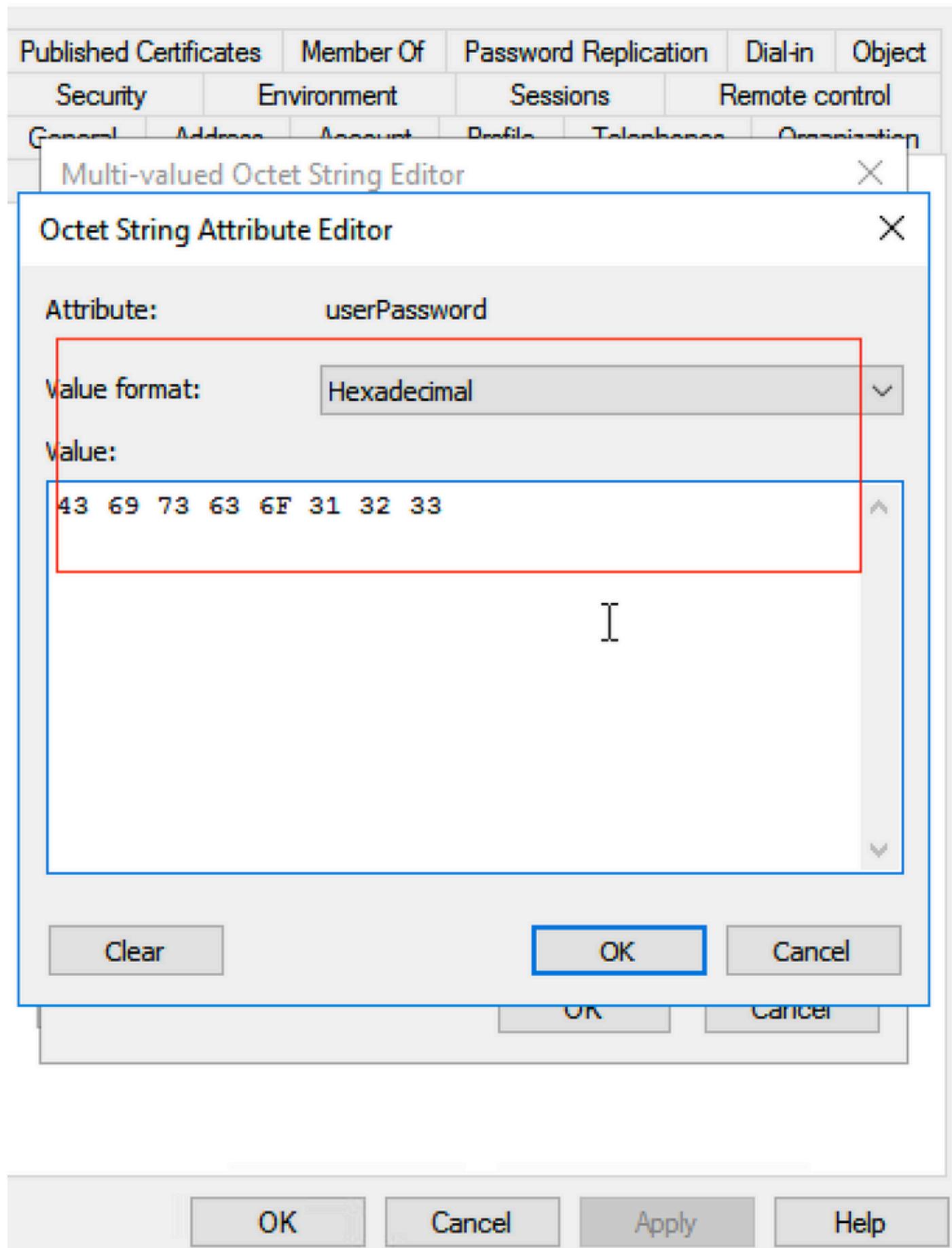
Apply

Help

Etapa 4. Configurar o atributo "userPassword". Esta é a senha do usuário, que precisa ser

configurada em valor Hex.





Clique em ok, verifique se ele mostra a senha correta

| | | | | |
|------------------------|-----------|----------------------|---------|--------|
| Published Certificates | Member Of | Password Replication | Dial-in | Object |
|------------------------|-----------|----------------------|---------|--------|

| | | | |
|----------|-------------|----------|----------------|
| Security | Environment | Sessions | Remote control |
|----------|-------------|----------|----------------|

Multi-valued Octet String Editor

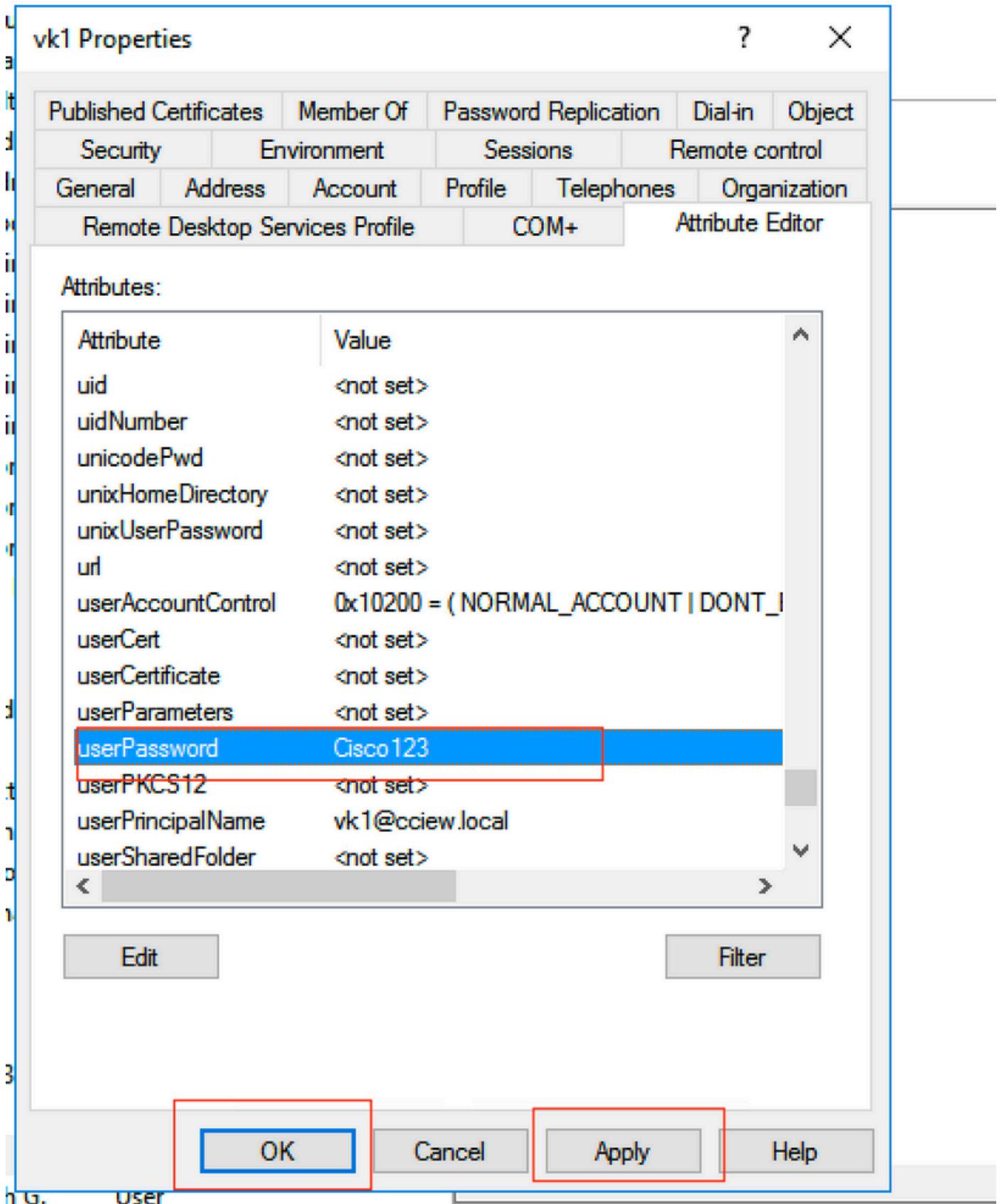


Attribute: userPassword

Values:

Cisco123

Etapa 5. Clique em Aplicar e em OK



Etapa 6. Verifique o valor do atributo "sAMAccountName" para o usuário e ele usaria o nome de usuário para autenticação.

vk1 Properties

?

X

| 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

User

Configuração da WLC:

Etapa 1. Criar MAP de atributo LDAP

Etapa 2. Configure o atributo "sAMAccountName" e digite como "username"

Etapa 3. Escolha o atributo MAP criado na configuração do servidor 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
```

Verificar a partir da interface da Web:

The screenshot shows the Cisco Catalyst 9800-40 Wireless Controller's web interface. The top navigation bar includes the Cisco logo, the device name 'Cisco Catalyst 9800-40 Wireless Controller', and the software version '17.6.1'. The top right corner displays a welcome message for 'adminrw' and standard navigation icons. The main content area is titled 'Configuration > Security > AAA'. Under the 'AAA' tab, the 'Servers / Groups' section is selected. A sub-menu on the left lists 'RADIUS', 'TACACS+', and 'LDAP', with 'LDAP' currently highlighted. On the right, a table titled 'Servers' lists a single entry: 'Name' (ldap), 'Server Address' (10.106.38.195), 'Port Number' (389), and 'Simple Bind' (Authenticated). The table has a red border around the entire row. Navigation controls at the bottom of the table include page numbers (1, 10, items per page) and a total count of '1 - 1 of 1'.

The screenshot shows the 'Edit AAA LDAP Server' configuration dialog. The 'Server Name*' field is set to 'ldap'. The 'Server Address*' field is set to '10.106.38.195'. The 'Port Number*' field is set to '389'. The 'Simple Bind' dropdown is set to 'Authenticated'. The 'Bind User name*' field is set to 'vk1'. The 'Bind Password *' and 'Confirm Bind Password*' fields are both empty. The 'User Base DN*' field is set to 'CN=users,DC=cciew,DC=local'. The 'User Attribute' dropdown is set to 'VK'. The 'User Object Type' section shows a table with one entry: 'Person'. The 'User Object Type' column has a dropdown arrow, and the 'Remove' button is visible. The 'Server Timeout (seconds)' field is set to '30'. The 'User Attribute' and 'User Object Type' sections are highlighted with red boxes.

Verificar

Para verificar sua configuração, verifique novamente os comandos CLI com os deste artigo.

Os bancos de dados LDAP normalmente não fornecem logs de autenticação, portanto pode ser difícil saber o que está acontecendo. Visite a seção Solução de problemas deste artigo para ver como capturar rastreamentos e farejadores para ver se uma conexão foi estabelecida com o banco de dados LDAP ou não.

Troubleshoot

Para solucionar esse problema, é melhor dividi-lo em duas partes. A primeira parte é validar a parte EAP local. A segunda é validar se o 9800 está se comunicando corretamente com o servidor LDAP.

Como verificar o processo de autenticação no controlador

Você pode coletar um rastreamento radioativo para obter as "depurações" da conexão do cliente.

Basta ir para **Troubleshooting > Radioactive Trace**. Adicione o endereço MAC do cliente (preste atenção para o fato de que o seu cliente pode estar usando um MAC aleatório e não o seu próprio MAC; você pode verificar isso no perfil SSID no dispositivo do cliente em si) e pressione Start.

Depois de reproduzir a tentativa de conexão, você pode clicar em "Gerar" e obter os logs dos últimos X minutos. Certifique-se de clicar em **internal**, pois algumas linhas de log LDAP não serão exibidas se você não ativá-las.

Este é um exemplo de rastreamento radioativo de um cliente que se autentica com êxito em um SSID de autenticação da Web. Algumas peças redundantes foram removidas para maior clareza:

```
2021/01/19 21:57:55.890953 {wncd_x_R0-0}{1}: [client-orch-sm] [9347]: (note): MAC: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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: 2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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): [2e1f.3a65.9c09:capwap_90000004] Allocated audit session id 00000000000009C1CA610D7 2021/01/19 21:57:55.894285 {wncd_x_R0-0}{1}: [auth-mgr] [9347]: (info): [2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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):  
[2e1f.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[2e1f.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[2e1f.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: 2e1f.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 2e1f.3a65.9c09 2021/01/19 21:57:55.903592 {wncd_x_R0-0}{1}:  
[client-auth] [9347]: (info): MAC: 2e1f.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: 2e1f.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): [2e1f.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):  
[2e1f.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): [2e1f.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:  
2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.3a65.9c09 Received mobile_announce, sub type: 0 of XID (0) from  
(WNCD[0]) 2021/01/19 21:57:55.904955 {wncd_x_R0-0}{1}: [mm-client] [9347]: (debug): MAC:  
2e1f.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 (WNCD[0]) 2021/01/19 21:57:55.905157 {wncd_x_R0-0}{1}: [mm-  
client] [9347]: (debug): MAC: 2e1f.3a65.9c09 Received mobile_announce_nak, sub type: 1 of XID  
(0) from (WNCD[0]) 2021/01/19 21:57:55.905267 {wncd_x_R0-0}{1}: [mm-transition] [9347]: (info):  
MAC: 2e1f.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:  
2e1f.3a65.9c09 Roam type changed - None -> None 2021/01/19 21:57:55.905317 {wncd_x_R0-0}{1}:  
[mm-client] [9347]: (info): MAC: 2e1f.3a65.9c09 Mobility role changed - Unassoc -> Local  
2021/01/19 21:57:55.905515 {wncd_x_R0-0}{1}: [mm-client] [9347]: (note): MAC: 2e1f.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: 2e1f.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: 2e1f.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:  
2e1f.3a65.9c09 No QoS PM Name or QoS Level received from SANet for pm_dir:0. Check client is
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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: 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 21:57:55.906486 {wncd_x_R0-0}{1}: [client-auth] [9347]: (note): MAC: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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 2e1f.3a65.9c09 2021/01/19 21:57:55.907701 {wncd_x_R0-0}{1}: [dpAth_svc] [9347]: (note): MAC: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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): [2e1f.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: 2e1f.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): [2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.3a65.9c09 L3 Authentication initiated. LWA 2021/01/19 21:57:55.967433 {wncd_x_R0-0}{1}: [client-auth] [9347]: (info): MAC: 2e1f.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: 2e1f.3a65.9c09 Dest MAC: ffff.ffff.ffff ARP REQUEST, ARP sender MAC: 2e1f.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: 2e1f.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: 2e1f.3a65.9c09 Client IP learn method update successful. Method: IP Snooping IP: 192.168.1.17 2021/01/19 21:57:55.968966 {wncd_x_R0-0}{1}: [client-iplearn] [9347]: (info): MAC: 2e1f.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: 2e1f.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: 2e1f.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: 2e1f.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-https] [9347]: (info): capwap_90000004[2e1f.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-https] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:00.992669 {wncd_x_R0-0}{1}: [webauth-https] [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 21:58:00.992694 {wncd_x_R0-0}{1}: [webauth-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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-httpsd] [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[2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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-httpsd] [9347]: (info): capwap_90000004[2e1f.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-httpsd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:06.746197 {wncd_x_R0-0}{1}: [webauth-httpsd] [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 21:58:06.746225 {wncd_x_R0-0}{1}: [webauth-httpsd] [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 21:58:06.746612 {wncd_x_R0-0}{1}: [webauth-error] [9347]: (info): capwap_90000004[2e1f.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): [2e1f.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): [2e1f.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): [2e1f.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-httpsd] [9347]: (info): capwap_90000004[2e1f.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-httpsd] [9347]: (info): capwap_90000004[2e1f.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19 21:58:15.902410 {wncd_x_R0-0}{1}: [webauth-httpsd] [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 21:58:15.902435 {wncd_x_R0-0}{1}: [webauth-httpsd] [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 21:58:15.903173 {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 21:58:15.903252 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [2e1f.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:58:15.903261 {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): [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 21:58:15.906112 {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 21:58:15.906125 {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 21:58:16.357093 {wncd_x_R0-0}{1}: [webauth-httpsd] [9347]: (info): capwap_90000004[2e1f.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): [2e1f.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 2e1f.3a65.9c09 2021/01/19 21:58:16.374442 {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_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_WEAUTH_PENDING -> S_AUTHIF_WEAUTH_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}: [errormsg] [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

```

Como verificar a conectividade de 9800 para LDAP

Você pode fazer uma captura incorporada no 9800 para ver qual tráfego está indo para LDAP.

Para fazer uma captura da WLC, navegue para **Troubleshooting > Packet Capture** e clique em **+Add**. Escolha a porta de uplink e inicie a captura.

Aqui está um exemplo de autenticação de sucesso para o usuário Nico

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

Os 2 primeiros pacotes representam a ligação da WLC ao banco de dados LDAP, ou seja, a WLC que está se autenticando no banco de dados com o usuário admin (para poder executar uma pesquisa).

Esses 2 pacotes LDAP representam a WLC que faz uma pesquisa no DN base (aqui CN=Users,DC=lab,DC=com). O interior do pacote contém um filtro para o nome de usuário (aqui "Nico"). O banco de dados LDAP retorna os atributos do usuário como um sucesso

Os últimos 2 pacotes representam a WLC que está tentando se autenticar com essa senha de usuário para testar se a senha é a correta.

1. Colete o EPC e verifique se "sAMAccountName" foi aplicado como filtro:

| | | | |
|--|---------------|------|---|
| Frame 57: 151 bytes on wire (1208 bits), 151 bytes captured (1208 bits) | 10.127.209.57 | LDAP | bindResponse(1) success |
| > Ethernet II, Src: ccc:7f:76:65:42:6b (ccc:7f:76:65:42:6b), Dst: Cisco_33:28:ff (00:25:45:33:28:ff) | 10.106.38.195 | LDAP | searchRequest(2) "CN=users,DC=cciew,DC=local" wholeSubtree |
| > 802.1Q Virtual LAN, PRI: 0, DEI: 0, ID: 263 | 10.127.209.57 | LDAP | searchResEntry(2) "O=vk1,CN=Users,DC=cciew,DC=local" searchResDone(2) success [2 results] |
| > Internet Protocol Version 4, Src: 10.127.209.57, Dst: 10.106.38.195 | 10.106.38.195 | LDAP | bindRequest(1) "vk1" simple |
| > Transmission Control Protocol, Src Port: 64371, Dst Port: 389, Seq: 26, Ack: 23, Len: 81 | 10.127.209.57 | LDAP | bindResponse(1) success |
| > Lightweight Directory Access Protocol | 10.106.38.195 | LDAP | searchRequest(2) "CN=users,DC=cciew,DC=local" wholeSubtree |
| > LDAPMessage searchRequest(2) "CN=users,DC=cciew,DC=local" wholeSubtree | | | searchResEntry(2) "O=vk1,CN=Users,DC=cciew,DC=local" searchResDone(2) success [2 results] |
| messageID: 2 | | | bindRequest(1) "vk1" simple |
| protocolOp: searchRequest (3) | | | bindResponse(1) success |
| searchRequest | | | searchResEntry(2) "O=vk1,CN=Users,DC=cciew,DC=local" searchResDone(2) success [2 results] |
| baseObject: CN=users,DC=cciew,DC=local | | | bindRequest(1) "vk1" simple |
| scope: wholeSubtree (2) | | | bindResponse(1) success |
| dereflAliases: neverDerefAliases (0) | | | searchRequest(2) "CN=users,DC=cciew,DC=local" wholeSubtree |
| sizeLimit: 0 | | | searchResEntry(2) "O=vk1,CN=Users,DC=cciew,DC=local" searchResDone(2) success [2 results] |
| timeLimit: 0 | | | bindRequest(1) "vk1" simple |
| typesOnly: False | | | bindResponse(1) success |
| Filter: (sAMAccountName=vkokila) | | | searchRequest(2) "CN=users,DC=cciew,DC=local" wholeSubtree |
| filter: and (0) | | | searchResEntry(2) "O=vk1,CN=Users,DC=cciew,DC=local" searchResDone(2) success [2 results] |
| and: (sAMAccountName=vkokila) | | | bindRequest(1) "vk1" simple |
| and: 1 item | | | bindResponse(1) success |
| Filter: (sAMAccountName=vkokila) | | | searchRequest(2) "CN=users,DC=cciew,DC=local" wholeSubtree |
| and: equalityMatch (3) | | | searchResEntry(2) "O=vk1,CN=Users,DC=cciew,DC=local" searchResDone(2) success [2 results] |
| equalityMatch | | | bindRequest(1) "vk1" simple |
| attributeDesc: sAMAccountName | | | bindResponse(1) success |
| assertionValue: vkokila | | | searchRequest(2) "CN=users,DC=cciew,DC=local" wholeSubtree |

Se o filtro mostrar "cn" e se "sAMAccountName" estiver sendo usado como o nome de usuário, a

autenticação falhará.

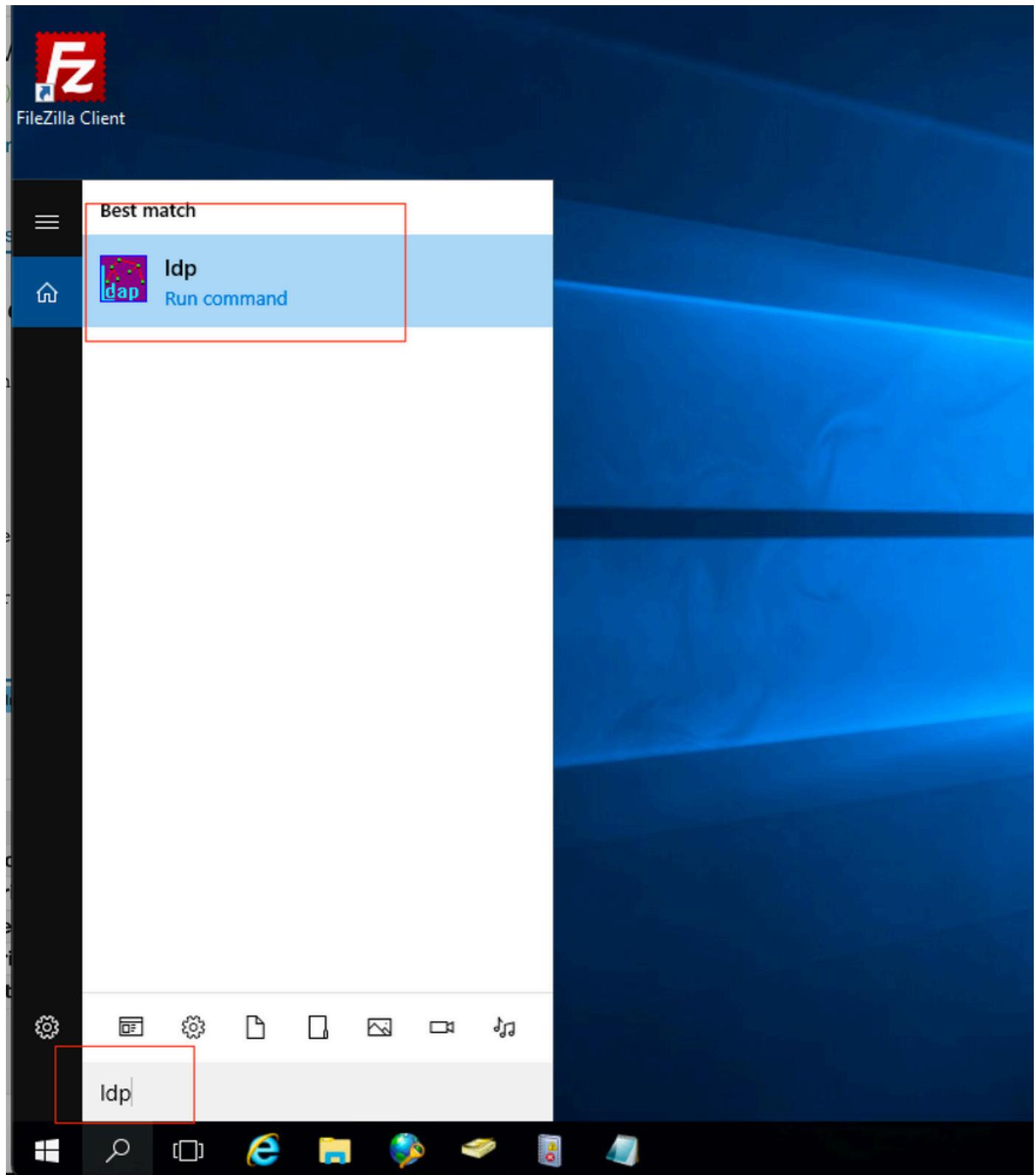
Reconfigure o atributo de mapa ldap da cli da WLC.

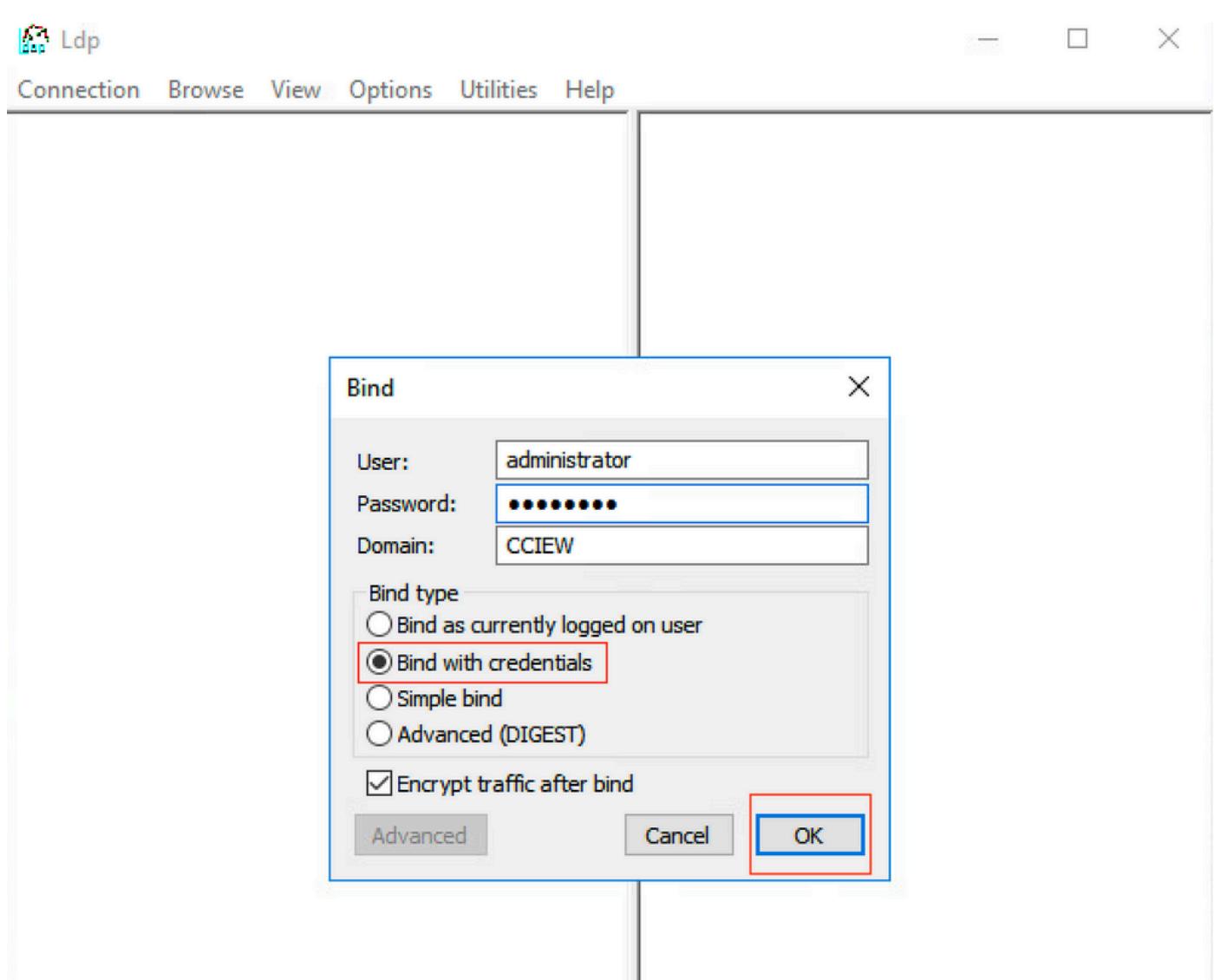
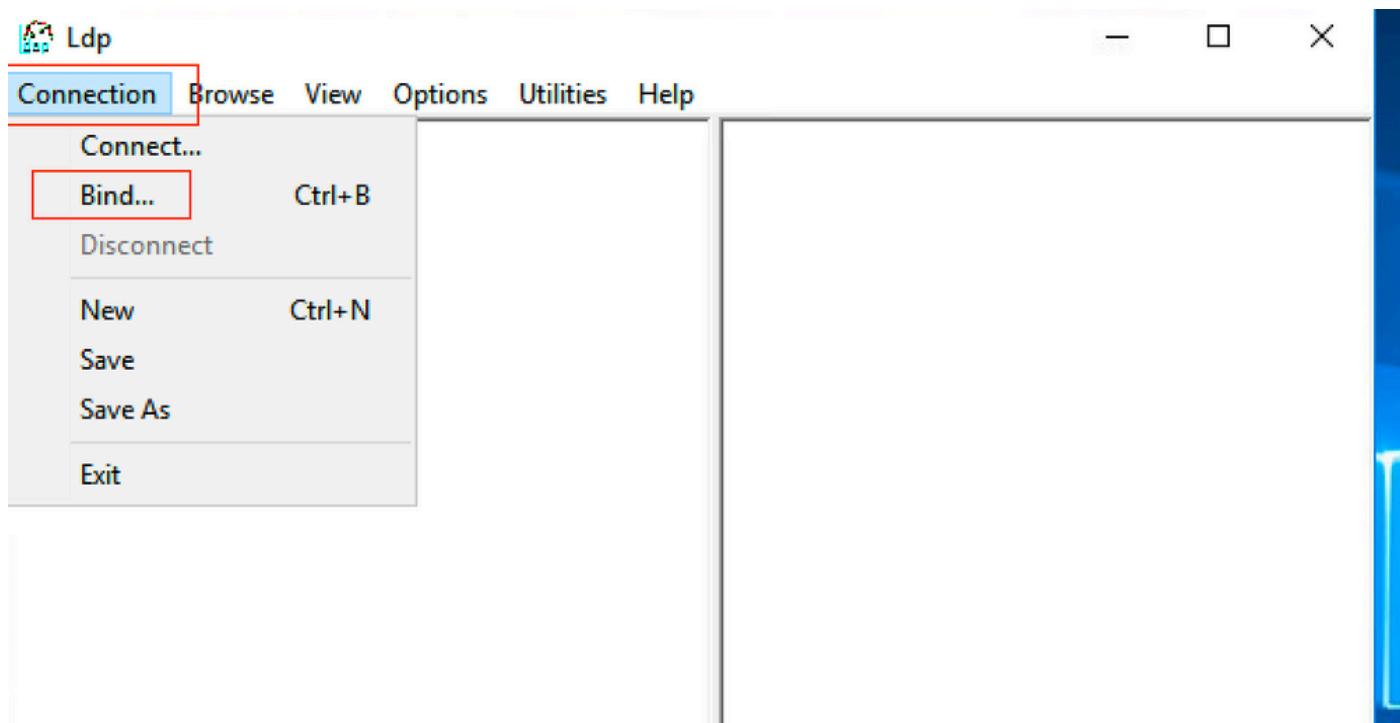
2. Certifique-se de que o servidor retorne "userPassword" em texto não criptografado, caso contrário a autenticação falhará.

```
1197 16:25:05.788962 10.127.209.57      10.106.38.195          LDAP          searchRequest(3) "CN=users,DC=cciew,DC=local" wholeSubtree
1198 16:25:05.789954 10.106.38.195      10.127.209.57          LDAP          searchResEntry(3) "CN=vk1,CN=Users,DC=cciew,DC=local" | searchResDone(3) success [2 res...]
```

The screenshot shows a terminal window with two log entries. The first entry (line 1197) is a search request for the 'userPassword' attribute under the 'users' container. The second entry (line 1198) is the search result for the user 'vk1', which includes the full distinguished name 'CN=vk1,CN=Users,DC=cciew,DC=local'. Both entries are highlighted with red boxes.

3. Use a ferramenta ldp.exe no servidor para validar as informações do DN base.





ldap://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);
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
1.2.840.113556.1.4.2211 = (SEARCH_HINTS);
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;

ldap://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
1.2.840.113556.1.4.2211 = (SEARCH_HINTS);
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: DC=cciew,DC=local

Cancel

OK

maxValueRangeTransitive; maxThreadMemoryLimit;
SystemMemoryLimitPercent;
supportedLDAPVersion (2): 3; 2;

ldap://WIN-3JGG5I0CSV.CCIEW.LOCAL/DC=cciew,DC=local

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=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: 18141794-025e-4378-abed-66f78a44d3;
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_PASSWD);
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

SHOWInAdvancedViewOnly: FALSE,
systemFlags: 0x8C000000 = (DISALLOW_DELETE | DOMAIN_DISALLOW_RESET);
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=Enterprise Admins,CN=Users,DC=cciew,DC=local; CN=Administrators,CN=Builtin,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-abed-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;

4. Verificar estatísticas do servidor e MAP de atributos

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
```

Referências

[Exemplo de configuração de EAP local no 9800](#)

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