

为Catalyst 9800 WLC配置802.1X的LDAP身份验证和网络身份验证

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简介

本文档介绍如何配置Catalyst 9800以使用LDAP服务器作为用户凭证数据库对客户端进行身份验证。

先决条件

要求

Cisco 建议您了解以下主题：

- Microsoft Windows服务器
- Active Directory或任何其他LDAP数据库

使用的组件

运行Cisco IOS®-XE版本17.3.2a的C9100接入点(AP)上的C9800 EWC

具有QNAP网络访问存储(NAS) (用作LDAP数据库) 的Microsoft Active Directory(AD)服务器

本文档中的信息都是基于特定实验室环境中的设备编写的。本文档中使用的所有设备最初均采用原始（默认）配置。如果您的网络处于活动状态，请确保您了解所有命令的潜在影响。

使用Webauth SSID配置LDAP

网络图

本文基于一个非常简单的设置：

具有IP 192.168.1.15的EWC AP 9115

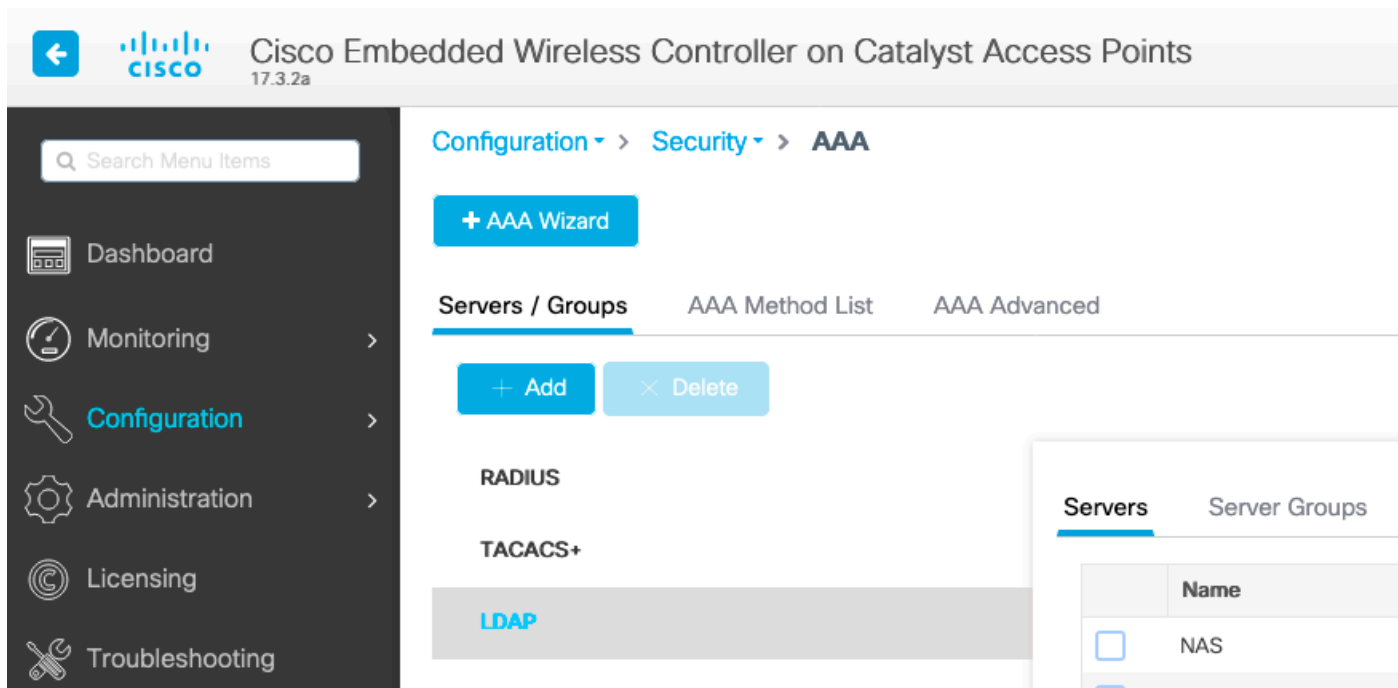
IP为192.168.1.192的Active Directory服务器

连接到EWC内部AP的客户端

配置控制器

步骤1.配置LDAP服务器

导航到**Configuration > Security > AAA > Servers/Groups > LDAP**，然后点击**+ Add**



The screenshot shows the Cisco Embedded Wireless Controller configuration interface. The breadcrumb navigation is **Configuration > Security > AAA**. The current page is **Servers / Groups**, with sub-tabs for **AAA Method List** and **AAA Advanced**. There are buttons for **+ Add** and **× Delete**. The configuration categories are **RADIUS**, **TACACS+**, and **LDAP**. A table on the right shows the list of servers with columns for **Servers** and **Server Groups**. The table has a header row with **Name** and a row with a checkbox and the name **NAS**.

为LDAP服务器选择名称并填写详细信息。有关每个字段的说明，请参阅本文档的“了解LDAP服务器详细信息”部分。

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><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)	0-65534					
Secure Mode	<input type="checkbox"/>					
Trustpoint Name	▼					

通过点击Update(更新)保存并应用到设备

CLI命令：

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

步骤2.配置LDAP服务器组。

导航到**配置>安全> AAA >服务器/组> LDAP >服务器组**，然后单击+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

输入名称并添加在上一步中配置的LDAP服务器。

Name*

Idapgr

Group Type

LDAP

Available Servers

Assigned Servers

NAS

AD

>

<

>>

<<

⏪

⏩

⏴

⏵

单击Update and apply进行保存。

CLI命令：

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

步骤3.配置AAA身份验证方法

导航到Configuration > Security > AAA > AAA method List > Authentication，然后单击+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

输入名称，选择Login类型并指向之前配置的LDAP服务器组。

Quick Setup: AAA Authentication

Method List Name*

Type* ⓘ

Group Type ⓘ

Fallback to local

Available Server Groups

radius

ldap

tacacs+

>

<

>>

<<

Assigned Server Groups

ldapgr

↖

↗

↘

↙

CLI命令：

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

步骤4.配置AAA授权方法

导航到Configuration > Security > AAA > AAA method list > Authorization，然后点击+Add

[+ AAA Wizard](#)

Servers / Groups

AAA Method List

AAA Advanced

Authentication			
Authorization			
Accounting			
+ Add × Delete			
Name	Type	Group Type	Group 1
<input type="checkbox"/> default	credential-download	group	ldapgr
<input type="checkbox"/> ldapauth	credential-download	group	ldapgr
10 items per page			

创建所选名称的凭证下载类型规则，并将其指向之前创建的LDAP服务器组

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

CLI命令：

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

步骤5.配置本地身份验证

导航到 **Configuration > Security > AAA > AAA Advanced > Global Config**

将本地身份验证和本地授权设置为 **Method List**，并选择之前配置的身份验证和授权方法。

[+ 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	<input checked="" type="checkbox"/> DISABLED
Interim Update	<input type="checkbox"/>

[Show Advanced Settings >>>](#)

CLI命令：

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

步骤6.配置webauth参数映射

导航到**Configuration > Security > Web Auth**，然后编辑**全局映射**

Configuration > Security > Web Auth

[+ Add](#) [× Delete](#)

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

◀ ◁ **1** ▷ ▶ 10 ▼ items per page

确保配置虚拟IPv4地址，例如192.0.2.1（该特定IP/子网保留用于不可路由的虚拟IP）。

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"/>

单击**Apply**保存。

CLI命令：

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

步骤7.配置webauth WLAN

导航到配置> WLANs，然后单击+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		

配置名称，确保其处于启用状态，然后转到安全选项卡。

在Layer 2子选项卡中，确保没有安全性并且禁用了快速转换。

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"/>

在Layer3选项卡中，启用web policy，将参数映射设置为global，并将身份验证列表设置为之前配置的aaa登录方法。

⚠ 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 ▼

Authentication List ▼ ⓘ

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

通过点击应用保存

CLI命令：

```
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
```

步骤8.确保广播了SSID

导航到**Configuration > Tags**，确保SSID包含在当前由SSID提供服务的策略配置文件中（如果尚未配置标记，则为全新配置提供default-policy-tag）。默认情况下，default-policy-tag不会广播您创建的新SSID，直到您手动包含这些SSID。

本文不涉及策略配置文件的配置，并假设您熟悉该部分配置。

使用dot1x SSID配置LDAP（使用本地EAP）

在9800上为802.1X SSID配置LDAP通常还需要配置本地EAP。如果您要使用RADIUS，则您的RADIUS服务器将与LDAP数据库建立连接，这不在本文的讨论范围之内。在尝试此配置之前，建议首先在WLC上配置本地用户来配置本地EAP，本文结尾的参考一节中提供了一个配置示例。完成后，您可以尝试将用户数据库移至LDAP。

步骤1.配置本地EAP配置文件

导航到**Configuration > Local EAP**，然后单击+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

为您的配置文件选择任意名称。至少启用PEAP并选择信任点名称。默认情况下，您的WLC仅具有自签名证书，因此您选择哪一个证书并不重要（通常TP-self-signed-xxxx是此用途的最佳证书），但是由于新的智能手机OS版本信任越来越少的自签名证书，请考虑安装受信任的公共签名证书。

Edit Local EAP Profiles

Profile Name*

PEAP

LEAP

EAP-FAST

EAP-TLS

PEAP

Trustpoint Name

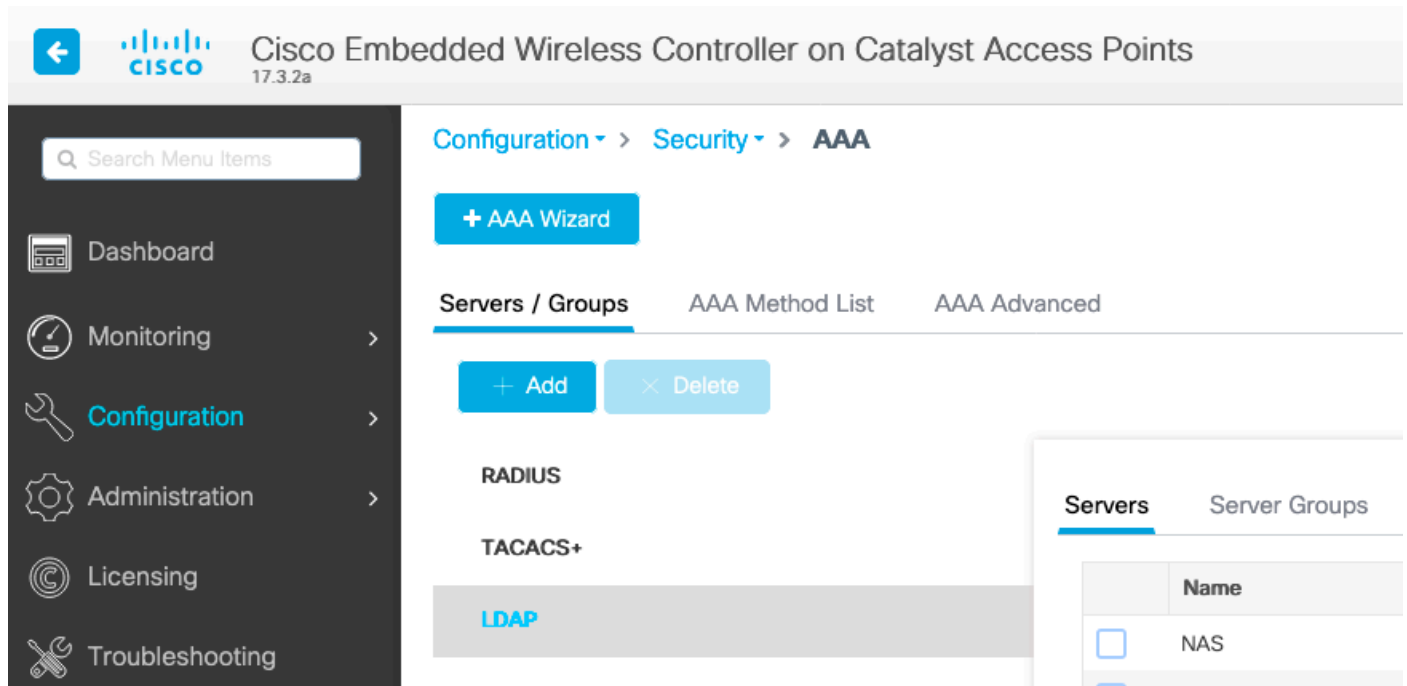
TP-self-signed-3059

CLI命令：

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

步骤2.配置LDAP服务器

导航到**Configuration > Security > AAA> Servers/Groups > LDAP**，然后单击+ Add



为LDAP服务器选择名称并填写详细信息。有关每个字段的说明，请参阅本文档的“了解LDAP服务器详细信息”部分。

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><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)	0-65534				
Secure Mode	<input type="checkbox"/>				
Trustpoint Name	▼				

通过点击Update(更新)保存并应用到设备

```
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
```

步骤3.配置LDAP服务器组。

导航到**配置>安全> AAA >服务器/组> LDAP >服务器组**，然后单击+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"/>	ldapgr	AD	N/A

1 10 items per page

输入名称并添加在上一步中配置的LDAP服务器。

Name*

ldapgr

Group Type

LDAP

Available Servers

NAS

Assigned Servers

AD

单击Update and apply进行保存。

CLI命令：

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

步骤4.配置AAA身份验证方法

导航到Configuration > Security > AAA > AAA Method List > Authentication，然后单击+Add

配置dot1x类型身份验证方法，并将其指向仅本地。指向LDAP服务器组很有吸引力，但此处充当802.1X身份验证器的是WLC本身（虽然用户数据库位于LDAP上，但这是授权方法作业）。

Quick Setup: AAA Authentication

Method List Name*

ldapauth

Type*

dot1x



Group Type

local



Available Server Groups

radius
ldap
tacacs+
ldapgr



Assigned Server Groups



CLI命令：

```
aaa authentication dot1x ldapauth local
```

步骤5.配置AAA授权方法

导航到**Configuration > Security > AAA > AAA Method List > Authorization**，然后单击+Add

创建**credential-download**类型的授权方法，并使其指向LDAP组。

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



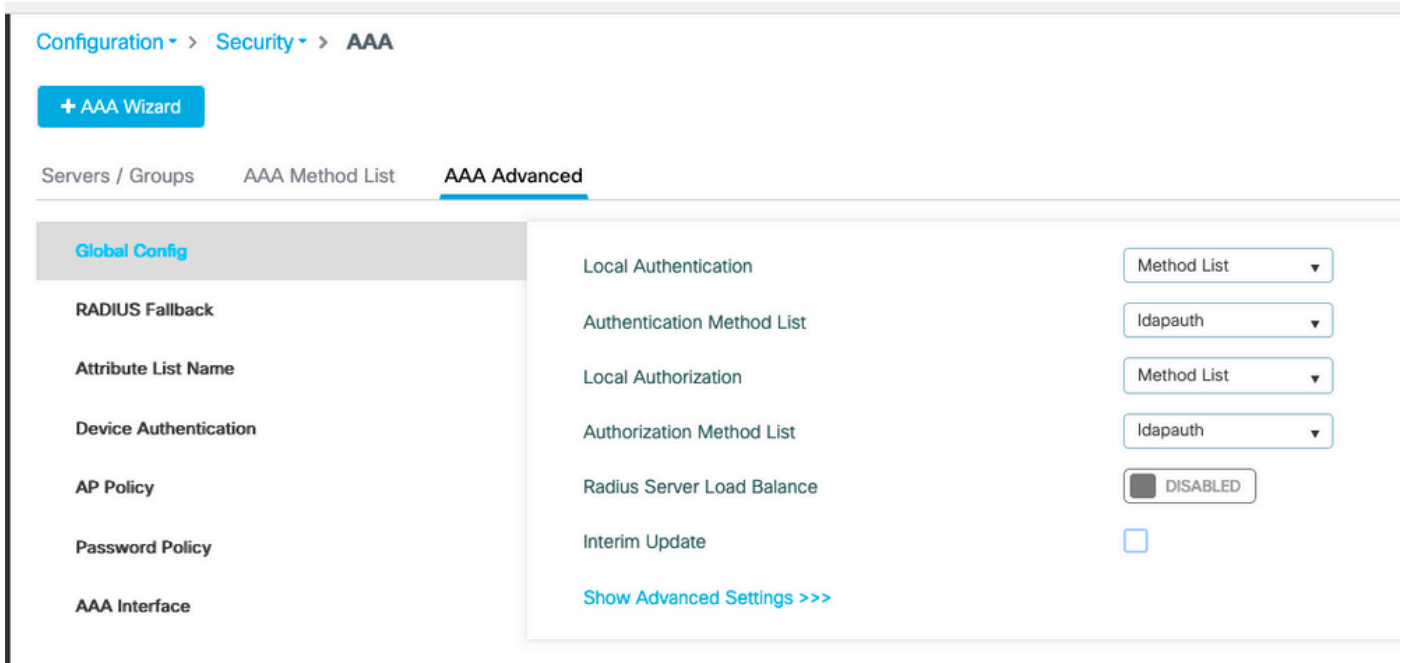
CLI命令：

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

步骤6.配置本地身份验证详细信息

导航到**Configuration > Security > AAA > AAA Method List > AAA Advanced**

选择**Method List**进行身份验证和授权，并选择本地指向的dot1x身份验证方法和指向LDAP的凭证下载授权方法



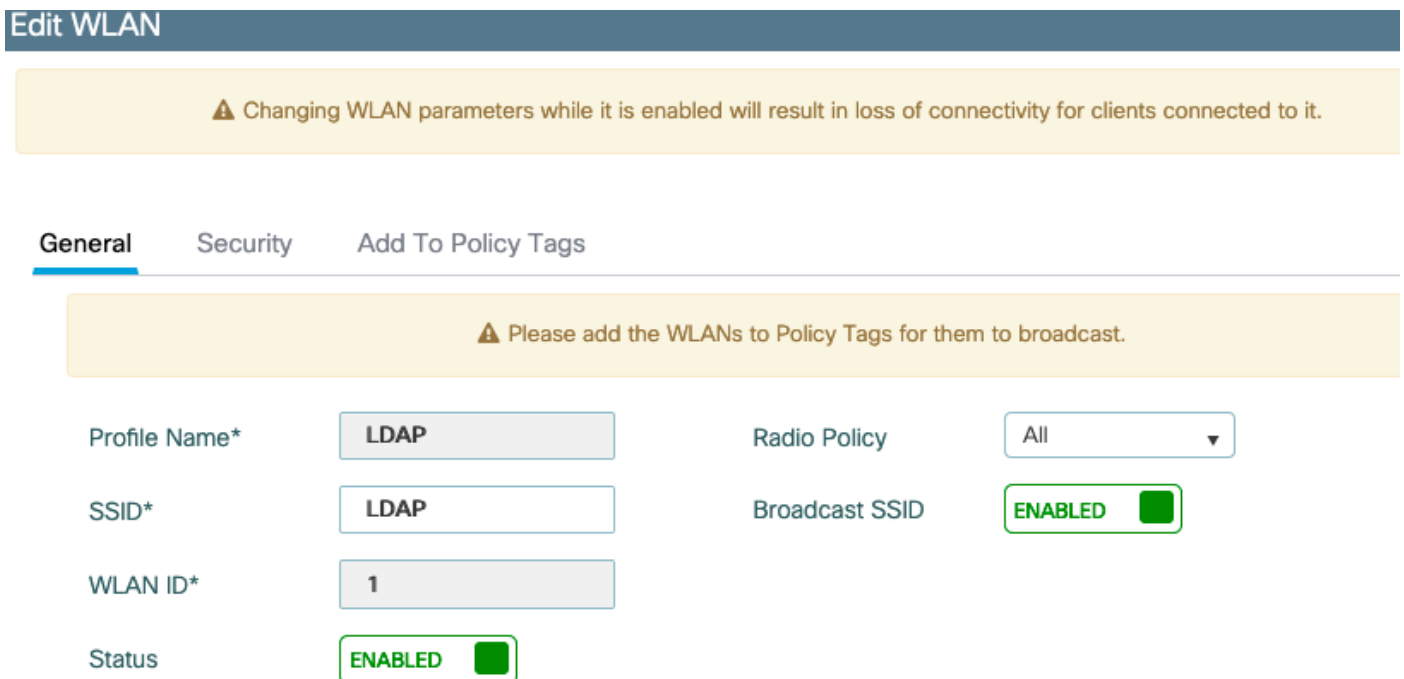
CLI命令：

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

步骤7.配置dot1x WLAN

导航到**配置> WLAN**，然后单击**+添加**

选择配置文件和SSID名称，并确保已启用。



转到Layer 2 **security**选项卡。

选择WPA+WPA2作为第2层安全模式

确保WPA2和AES在WPA参数中启用，并启用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

MAC Filtering

Protected Management Frame

PMF

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

Lobby Admin Access

Fast Transition

Over the DS

Reassociation Timeout

MPSK Configuration

MPSK

转到AAA子选项卡。

选择之前创建的dot1x身份验证方法，启用本地EAP身份验证并选择第一步中配置的EAP配置文件。

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

通过点击应用保存

CLI命令：

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

步骤8.检验是否已广播WLAN

导航到**Configuration > Tags**，确保SSID包含在当前由SSID提供服务的策略配置文件中（如果尚未配置标记，则为全新配置提供default-policy-tag）。默认情况下，default-policy-tag不会广播您创建的新SSID，直到您手动包含这些SSID。

本文不涉及策略配置文件的配置，并假设您熟悉该部分配置。

如果使用Active Directory，则必须配置AD服务器以发送属性“userPassword”。此属性需要发送到WLC。这是因为WLC执行验证，而不是AD服务器。您可能还会遇到使用PEAP-mschapv2方法进行身份验证的问题，因为密码永远不会以明文形式发送，因此无法使用LDAP数据库进行检查，只有PEAP-GTC方法适用于某些LDAP数据库。

了解LDAP服务器详细信息

了解9800 Web UI上的字段

以下是一个非常基本的Active Directory的示例，它用作9800上配置的LDAP服务器

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"/>					

名称和IP可能是不言自明的。

端口：389是LDAP的默认端口，但您的服务器可以使用其他端口。

简单绑定：如今，很少有支持未经身份验证绑定的LDAP数据库（这意味着任何人都可以在它上进行LDAP搜索，而无需任何身份验证形式）。经过身份验证的简单绑定是最常见的身份验证类型以及Active Directory默认允许的内容。您可以输入管理员帐户名和密码，以便能够在用户数据库中执行搜索。

绑定用户名：您需要在Active Directory中指向具有管理员权限的用户名。AD允许使用“user@domain”格式，而许多其他LDAP数据库期望用户名使用“CN=xxx, DC=xxx”格式。本文后面提供了另一个LDAP数据库而不是AD的示例。

绑定密码：输入管理员用户名之前输入的密码。

用户群DN:在此处输入“搜索根”，即LDAP树中开始搜索的位置。在本示例中，我们所有使用都在“Users”组下，其DN为“CN=Users, DC=lab, DC=com”(因为示例LDAP域为lab.com)。本节后面提供了如何查找此用户基础DN的示例。

用户属性：可以将此字段留空，或指向指示哪个LDAP字段计为LDAP数据库用户名的LDAP属性映射。但是，由于思科漏洞ID [CSCvv11813](#) ,WLC尝试使用CN字段进行身份验证，无论什么内容。

用户对象类型：这决定了被视为用户的对象的类型。通常为“人”。如果您有AD数据库并验证计算机帐户，则可能是“计算机”，但LDAP同样提供了大量自定义功能。

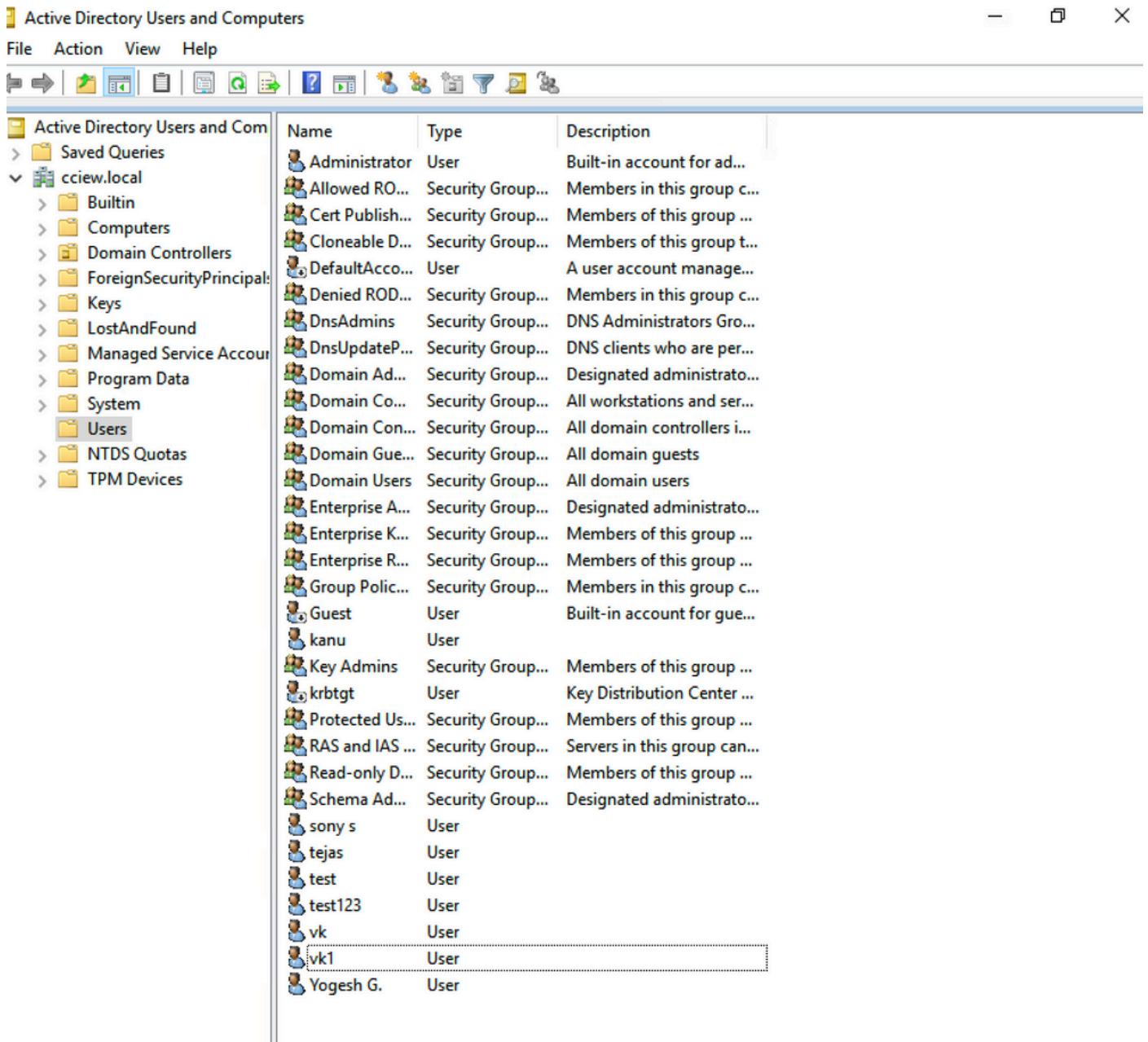
安全模式启用基于TLS的安全LDAP，并要求您在9800上选择信任点以使用证书进行TLS加密。

具有sAMAaccountName属性的LDAP 802.1x身份验证。

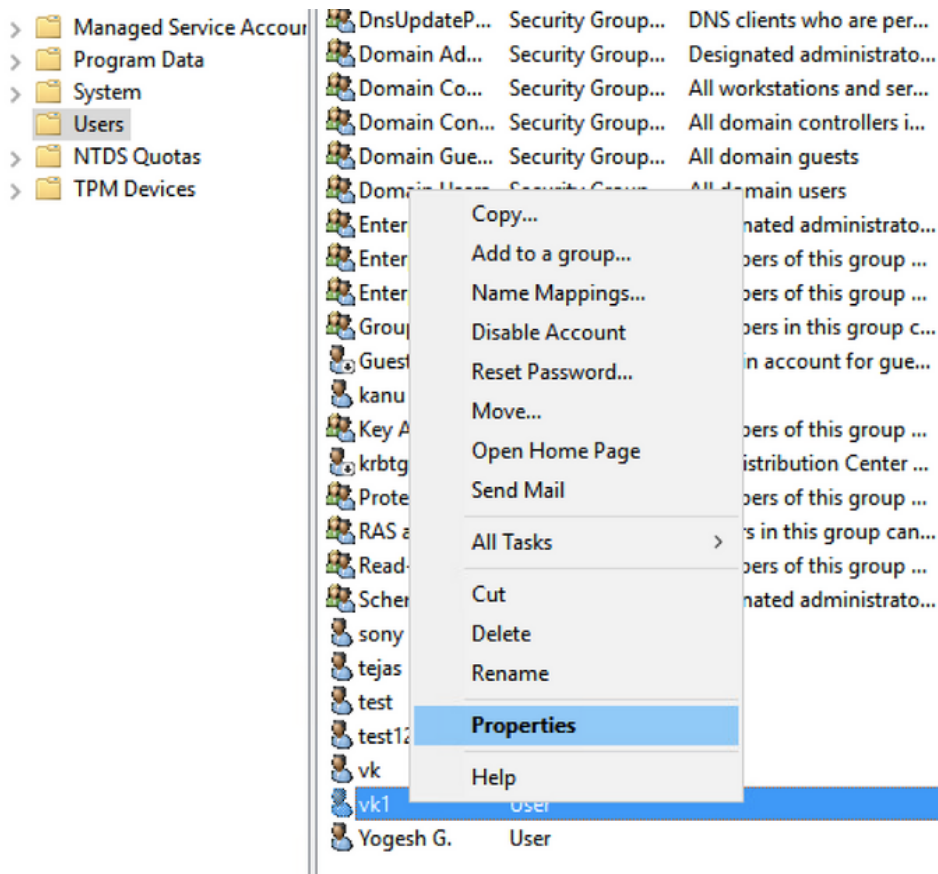
17.6.1版本中引入了此增强功能。

配置用户的“userPassword”属性。

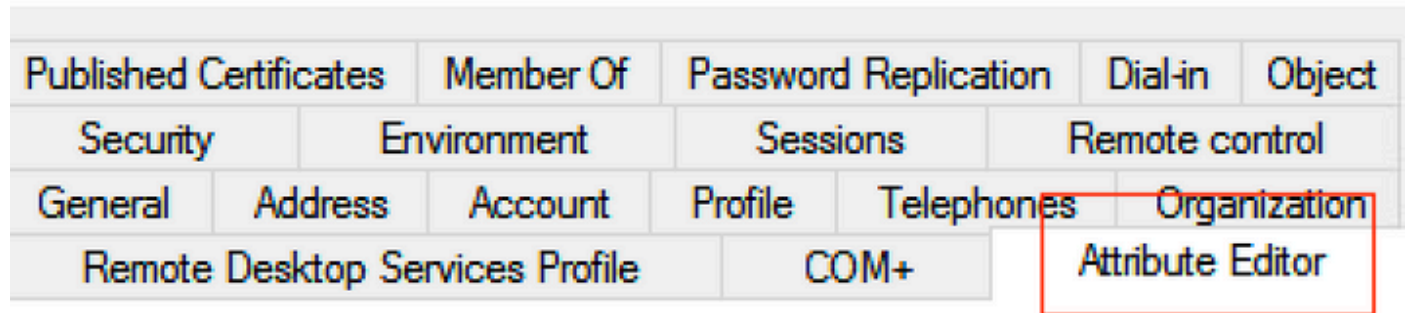
步骤1.在Windows服务器上，导航到ActiveDirectory用户和计算机



步骤2. 右键单击各自的用户名并选择属性



步骤3.在属性窗口中选择属性编辑器



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

步骤4.配置“userPassword”属性。这是用户的密码，需要以十六进制值配置。

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:

Add

Remove

Edit

OK

Cancel

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

Multi-valued Octet String Editor

Octet String Attribute Editor

Attribute: userPassword

Value format: Hexadecimal

Value:
43 69 73 63 6F 31 32 33

Clear OK Cancel

OK Cancel Apply Help

点击ok，验证它是否显示正确的密码

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

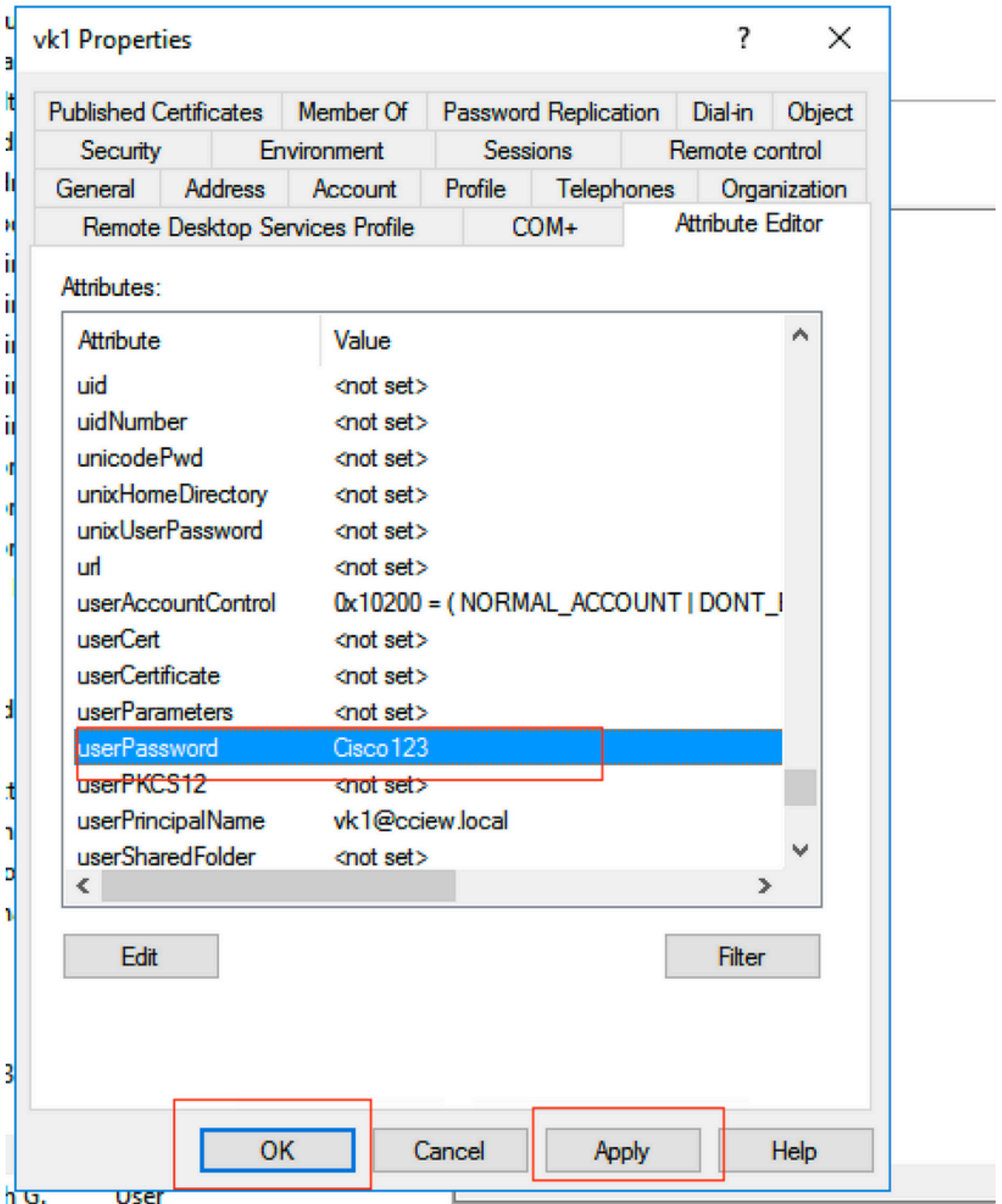
OK

Cancel

Apply

Help

步骤5.单击应用，然后单击确定



步骤6.验证用户的“sAMAccountName”属性值以及身份验证的用户名。

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>

Buttons: Edit, Filter, OK, Cancel, Apply, Help

G. User

WLC 配置:

步骤1.创建LDAP属性映射

步骤2.配置“sAMAccountName”属性并键入“username”

步骤3.在LDAP服务器配置下选择创建的属性MAP。

```
ldap attribute-map VK
```

```
map type sAMAccountName username
```

```
ldap server ldap
```

```
ipv4 10.106.38.195
```

```
attribute map VK
```

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

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

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

从Web界面验证：

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 configured servers. The table has columns for Name, Server Address, Port Number, and Simple Bind. A single server named 'ldap' is listed with Server Address '10.106.38.195', Port Number '389', and Simple Bind 'Authenticated'. The table is highlighted with a red border. Below the table, there are navigation controls for the table, including a '1' page indicator and a '10' items per page dropdown. The bottom right corner shows '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	X

Server Timeout (seconds) 30

验证

要验证您的配置，请使用本文中的CLI命令仔细检查。

LDAP数据库通常不提供身份验证日志，因此可能很难知道发生了什么情况。请访问本文的故障排除部分，了解如何进行跟踪和嗅探器捕获，以查看是否已与LDAP数据库建立连接。

故障排除

要解决此问题，最好将其分为两个部分。第一部分是验证本地EAP部分。第二个是验证9800是否与LDAP服务器正常通信。

如何验证控制器上的身份验证过程

您可以收集放射性跟踪以获得客户端连接的“调试”。

只需转到**故障排除>放射性跟踪**。添加客户端MAC地址（注意您的客户端可以使用随机MAC而不是自己的MAC，您可以在客户端设备本身的SSID配置文件中验证这一点）并点击start。

重现连接尝试后，您可以点击“Generate”并获取最后X分钟的日志。请确保点击**internal**，因为如果您不启用某些LDAP日志行，则不会显示该日志行。

以下是客户端在Web身份验证SSID上成功进行身份验证的辐射跟踪示例。为清楚起见，删除了一些冗余部件：

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, llr = False, llw = 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:
0x900000006, 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[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 21:58:00.993558 {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 21:58:00.993637 {wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]:
(info): [2elf.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:58:00.993645
{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): [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
21:58:00.996508 {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 21:58:00.996524 {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 21:58:05.808144 {wncd_x_R0-0}{1}: [webauth-httpd] [9347]:
(info): capwap_90000004[2elf.3a65.9c09][192.168.1.17]HTTP GET request 2021/01/19
21:58:05.808226 {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 21:58:05.808251 {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 21:58:05.860465 {wncd_x_R0-0}{1}: [webauth-httpd]
[9347]: (info): capwap_90000004[2elf.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[2elf.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[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 21:58:05.860559 {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 21:58:06.628209 {wncd_x_R0-0}{1}: [webauth-httpd]
[9347]: (info): capwap_90000004[2elf.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[2elf.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[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/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[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 21:58:06.628832 {wncd_x_R0-0}{1}: [webauth-page] [9347]: (info):
capwap_90000004[2elf.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): [2elf.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): [2elf.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):
[2elf.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): [2elf.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): [2elf.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[2elf.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[2elf.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[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 21:58:06.719646 {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 21:58:06.720038 {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):

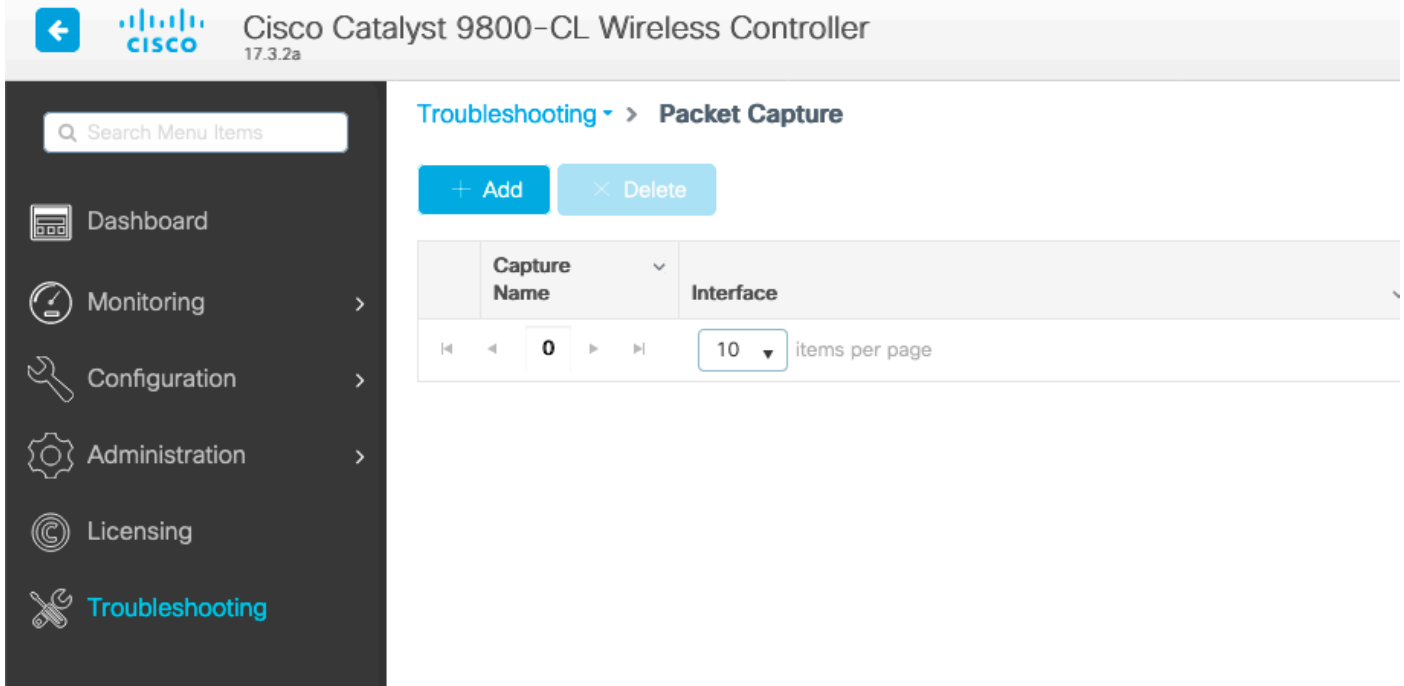
[2elf.3a65.9c09:capwap_90000004] Check aaa acct configured 2021/01/19 21:58:06.720716
{wncd_x_R0-0}{1}: [auth-mgr-feat_template] [9347]: (info): [0000.0000.0000:capwap_90000004]
access_session_acct_filter_spec is NULL 2021/01/19 21:58:06.724036 {wncd_x_R0-0}{1}: [auth-mgr]
[9347]: (info): [2elf.3a65.9c09:capwap_90000004] 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}: [caaaa-authen] [9347]: (info): [CAAAA: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): [2elf.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):
[2elf.3a65.9c09:capwap_90000004] Received User-Name Nico for client 2elf.3a65.9c09 2021/01/19
21:58:16.375294 {wncd_x_R0-0}{1}: [webauth-acl] [9347]: (info): capwap_90000004[2elf.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[2elf.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: 2elf.3a65.9c09 L3 Authentication Successful. ACL:[ ] 2021/01/19 21:58:16.378426
{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_DONE 2021/01/19 21:58:16.379181
{wncd_x_R0-0}{1}: [ewlc-qos-client] [9347]: (info): MAC: 2elf.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:
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 21:58:16.379358 {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 21:58:16.379442
{wncd_x_R0-0}{1}: [client-auth] [9347]: (note): MAC: 2elf.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: 2elf.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: 2elf.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: 2elf.3a65.9c09
2021/01/19 21:58:16.381152 {wncd_x_R0-0}{1}: [client-orch-state] [9347]: (note): MAC:
2elf.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: 2elf.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 2elf.3a65.9c09
```

如何验证9800到LDAP的连接

您可以在9800中执行嵌入式捕获，以查看哪些流量流向LDAP。

要从WLC获取捕获，请导航到故障排除>数据包捕获，然后单击+Add。选择上行链路端口并开始捕获。



以下是用户Nico的成功身份验证示例

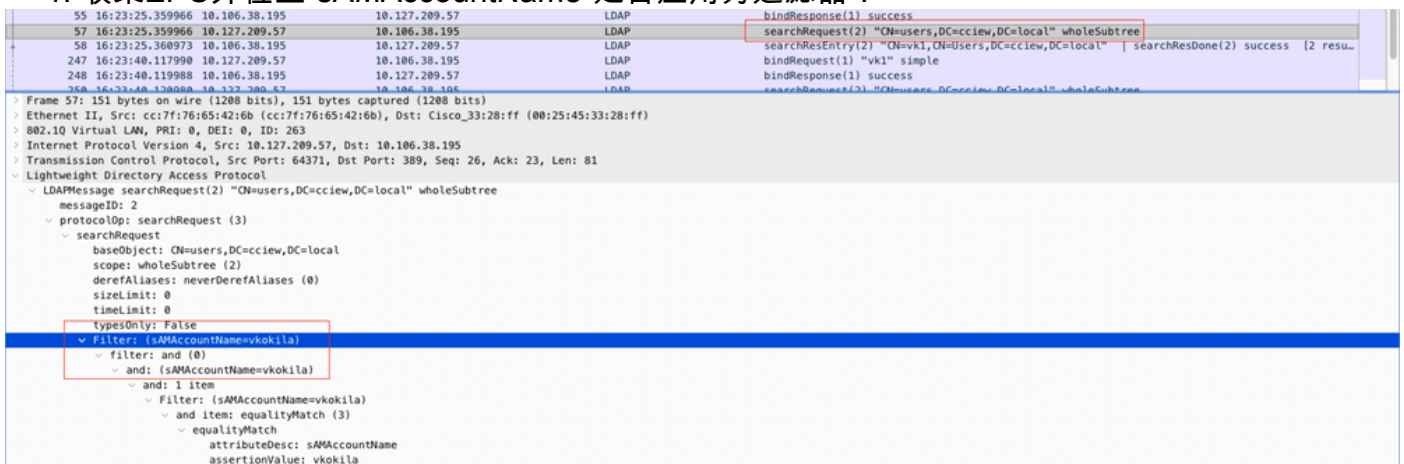
Time	Source	Destination	Protocol	Length	Info
8696	22:58:16.412748	192.168.1.15	192.168.1.192	108	bindRequest(1) "Administrator@lab.com" simple
8697	22:58:16.414425	192.168.1.192	192.168.1.15	88	bindResponse(1) success
8699	22:58:16.419645	192.168.1.15	192.168.1.192	128	searchRequest(2) "CN=Users,DC=lab,DC=com"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

前2个数据包代表与LDAP数据库的WLC绑定，即WLC使用管理员用户向数据库进行身份验证（以便能够执行搜索）。

这2个LDAP数据包表示在基本DN中执行搜索的WLC（此处CN=Users，DC=lab，DC=com）。数据包的内部包含用户名过滤器（此处“Nico”）。LDAP数据库成功返回用户属性

最后2个数据包代表尝试使用该用户密码进行身份验证以测试密码是否正确的WLC。

1. 收集EPC并检查“sAMAccountName”是否应用为过滤器：



如果过滤器显示“cn”，并且正在使用“sAMAccountName”作为用户名，则身份验证失败。

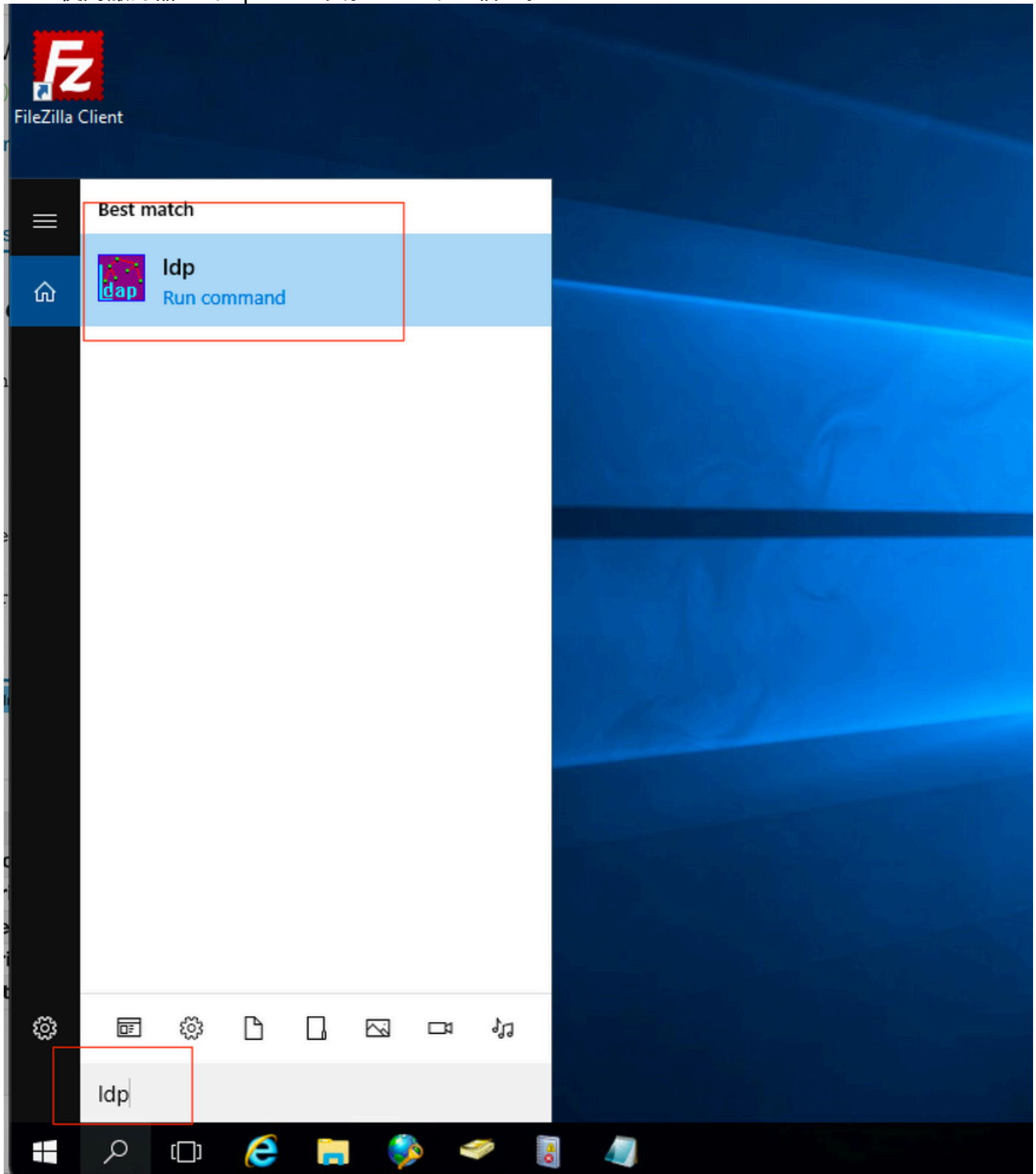
从WLC cli重新配置ldap映射属性。

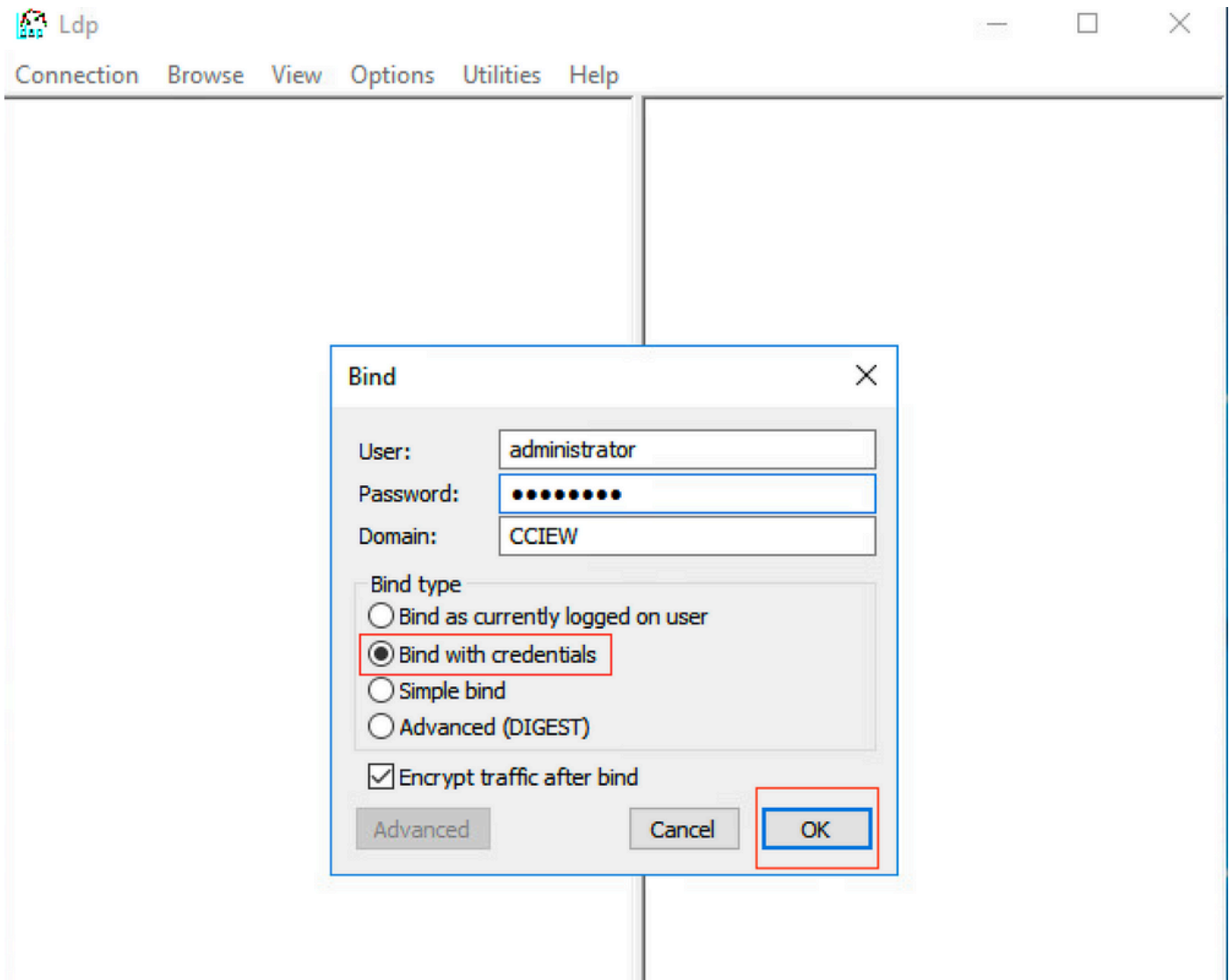
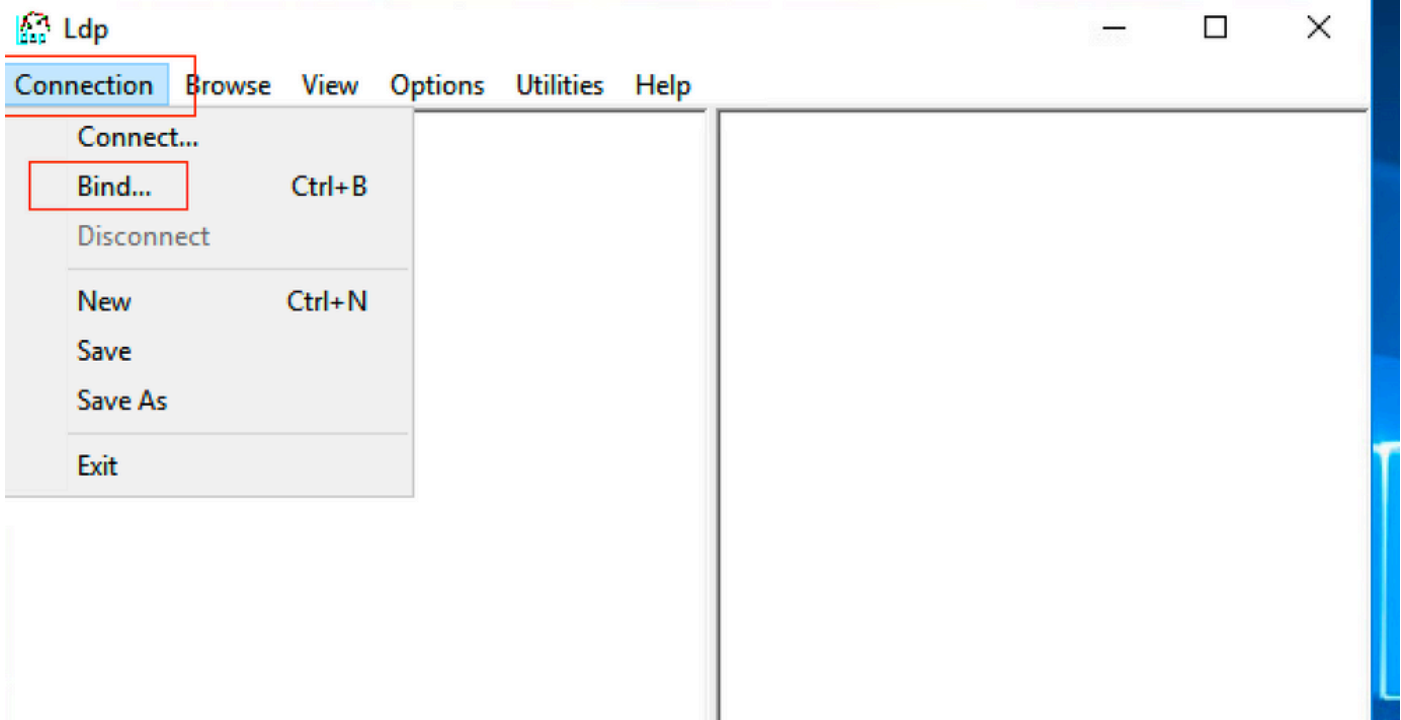
2. 确保服务器以明文返回“userPassword”，否则身份验证失败。

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. 使用服务器上的ldp.exe工具验证基础DN信息。





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

```

```

showInAdvancedViewOnly: 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. 检查服务器统计信息和属性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

参考

[9800上的本地EAP配置示例](#)

关于此翻译

思科采用人工翻译与机器翻译相结合的方式将此文档翻译成不同语言，希望全球的用户都能通过各自的语言得到支持性的内容。

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