

知 某局点WX2560X 本地802.1X (EAP-GTC) +LDAP认证失败

802.1X 王子腾 2023-05-05 发表

组网及说明

WX2560X+WA6530, 集中转发+二层注册, AC与LDAP服务器都旁挂核心交换机。

问题描述

手机端无线用户连接到WLAN网络，并使用对应用户名进行802.1X认证，阶段2认证选择GTC，认证失败。

过程分析

1、首先检查AC的配置。

#已配置PKI域，且证书已导入设备

```
pki domain eap-gtc
```

```
public-key rsa general name eap-gtc
```

```
undo crl check enable
```

```
pki import domain eap-gtc p12 local filename local.pfx
```

```
pki import domain eap-gtc pem ca filename server.cer
```

#已配置SSL服务器端策略且引用PKI域。

```
ssl server-policy ssl-eap
```

```
pki-domain eap-gtc
```

#已指定认证方式为peap-gtc，且引用ssl服务器策略

```
eap-profile eap-ldap
```

```
method peap-gtc
```

```
ssl-server-policy ssl-eap
```

#802.1X已指定EAP认证

```
dot1x authentication-method eap
```

#已配置ISP域

```
domain eap-gtc
```

```
authentication lan-access ldap-scheme 802.1x
```

```
authorization lan-access none
```

```
accounting lan-access none
```

#已配置LDAP方案，并指定LDAP认证服务器

```
ldap scheme 802.1x
```

```
authentication-server 802.1x
```

#已配置LDAP服务器，IP和用户名密码都正确

```
ldap server 802.1x
```

```
login-dn cn=admin, cn=users, dc=itgfinacne, dc=com, dc=cn
```

```
search-base-dn ou=itg 财务公司, dc=itgfinacne, dc=com, dc=cn
```

```
ip 10.10.10.10
```

```
login-password cipher $c$3$Ci9VdK/Xq3+Bll4EKskzBx3i7wtPfv5aUllDkA==
```

#服务模板已应用802.1X认证

```
wlan service-template h3c
```

```
ssid H3C
```

```
vlan 100
```

```
akm mode dot1x
```

```
cipher-suite ccmp
```

```
security-ie rsn
```

```
client-security authentication-mode dot1x
```

```
dot1x domain eap-gtc
```

```
dot1x eap-termination eap-profile eap-ldap
```

```
dot1x eap-termination authentication-method pap
```

```
service-template enable
```

#对应AP的Radio已绑定对应服务模板

```
wlan ap ap1 model WA6530
```

```
serial-id xxxxxxx
```

```
ap-model WA6530
```

```
radio 1
```

```
radio enable
```

```
service-template h3c
```

```
radio 2
```

```
radio enable
```

```
service-template h3c
```

```
radio 3
```

```
radio enable
```

```
service-template h3c
```

```
gigabitethernet 1
```

```
smart-rate-ethernet 1
```

2、检查AC与LDAP服务器连通性，也正常。

3、收集debugging dot1x all、debugging ldap all信息

PAM_LDAP:Processing LDAP authentication.

解决方法

```
Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
修改LDAP服务器配置 给登录LDAP服务器的administrator用户添加访问ITG财务公司目录的权限
*Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
PAM_LDAP:LDAP server is: 10.8.24.10.
*Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
PAM_LDAP:Current bind state is 4.
*Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
PAM_LDAP:Search user when authentication.
*Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
PAM_LDAP:Username is wangshanshan.
*Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
PAM_LDAP[Authen]:Search filter is (&(objectClass=person)(cn=wangshanshan)).
*Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
PAM_LDAP[Authen]:Search base DN is ou=itg财务公司,dc=itgfinacne,dc=com,dc=cn.
*Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
PAM_LDAP:Response timeout timer successfully created.
*Apr 21 16:28:09:460 2023 ac LDAP/7/EVENT:
PAM_LDAP:Data of authentication request successfully sent.
*Apr 21 16:28:09:461 2023 ac LDAP/7/EVENT:
PAM_LDAP:Get result message errno = 32
*Apr 21 16:28:09:461 2023 ac LDAP/7/EVENT:
PAM_LDAP>User wangjingjing search done.
*Apr 21 16:28:09:461 2023 ac LDAP/7/ERROR:
PAM_LDAP:Failed to search users.
*Apr 21 16:28:09:461 2023 ac LDAP/7/EVENT:
PAM_LDAP:Processing LDAP authentication.
*Apr 21 16:28:09:462 2023 ac LDAP/7/EVENT:
PAM_LDAP:Data of authentication reply successfully obtained, resultCode: 1.
%Apr 21 16:28:09:462 2023 ac DOT1X/5/DOT1X_WLAN_LOGIN_FAILURE: -
Username=wangshanshan-UserMAC=7e2e-5d6e-ed3-BSSID=7c7a-3c28-acb0-SSID=CWGS-A
PName=ap13-RadiolD=1-VLANID=126; A user failed 802.1X authentication.Reason:AAA proce
ssed authentication request and return 26.
```

AAA处理认证请求反馈的错误code26，一般为用户名或密码错误、认证类型错误、服务器上没有添加设备IP地址、服务模板下认证域配置错误。 //这些已确认都无误

LDAP error提示查找用户失败，查看登录的administrator用户在user文件夹下，真正用户在ITG财务公司文件夹下，后排查发现绑定的administrator管理员没有查询ITG财务公司目录的权限，添加查询权限后可以认证成功。



