

### 如何在ACS中导入H3C私有Radius属性

实际项目中经常遇到我司设备telnet管理用户到ACS Radius Server认证的情况，并由ACS给telnet用户下发权限，为了使对应用户获得相应权限，需要导入H3C的用户级别的私有Radius属性到ACS中，以保证用户权限正常下发。

本文档以ACS 4.0为例。

1. 编写h3c.ini文件 (绿色部分即为文件内容)

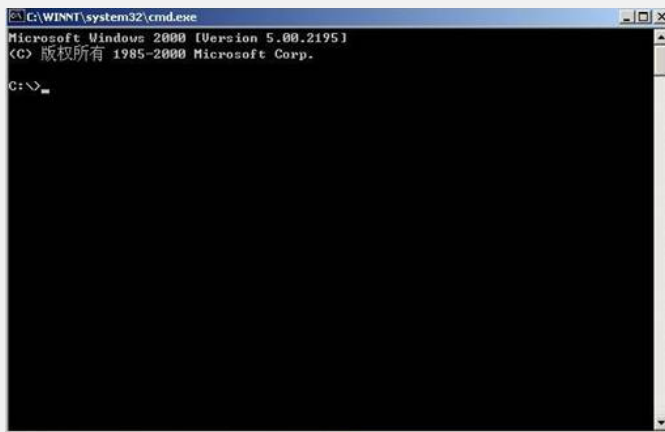
```
[User Defined Vendor]
Name=Huawei
IETF Code=2011
VSA 29=hw_Exec_Privilege
[hw_Exec_Privilege]
Type=INTEGER
Profile=IN OUT
Enums=hw_Exec_Privilege-Values
[hw_Exec_Privilege-Values]
0=Access
1=Monitor
2=Manager
3=Administrator
```

此文件主要用于定义私有属性的值

2. 将上面定义的文件导入到ACS中

ACS提供了命令接口来导入私有属性，此步骤主要将h3c.ini通过命令导入到ACS中去。导入过程如下：

- (1) 点击ACS Server的windows开始菜单,在运行中输入cmd, 打开一个命令行窗口。



- (2) 进入ACS的bin目录，在默认安装的情况下，该目录为 c:\Program Files\CiscoSecure ACS v4.0\bin



- (3) 执行导入命令:

```
C:\WINNT\system32\cmd.exe - CSUtil -addUDU 0 d:\H3C.ini
Microsoft Windows 2000 [Version 5.00.2195]
(C) 版权所有 1985-2000 Microsoft Corp.

C:\>cd C:\Program Files\CiscoSecure ACS v4.0\bin

C:\Program Files\CiscoSecure ACS v4.0\bin>
C:\Program Files\CiscoSecure ACS v4.0\bin>
C:\Program Files\CiscoSecure ACS v4.0\bin>
C:\Program Files\CiscoSecure ACS v4.0\bin>CSUtil -addUDU 0 d:\H3C.ini
CSUtil v4.0(1.24), Copyright 1997-2005, Cisco Systems Inc

Adding or removing vendors requires ACS services to be re-started.
Please make sure regedit is not running as it can prevent registry
backup/restore operations

Are you sure you want to proceed? (Y or N)_
```

选择y,继续

```
C:\WINNT\system32\cmd.exe
C:\>cd C:\Program Files\CiscoSecure ACS v4.0\bin

C:\Program Files\CiscoSecure ACS v4.0\bin>
C:\Program Files\CiscoSecure ACS v4.0\bin>
C:\Program Files\CiscoSecure ACS v4.0\bin>
C:\Program Files\CiscoSecure ACS v4.0\bin>CSUtil -addUDU 0 d:\H3C.ini
CSUtil v4.0(1.24), Copyright 1997-2005, Cisco Systems Inc

Adding or removing vendors requires ACS services to be re-started.
Please make sure regedit is not running as it can prevent registry
backup/restore operations

Are you sure you want to proceed? (Y or N)y
Parsing [d:\H3C.ini] for addition at UDU slot [0]
Stopping any running services
Creating backup of current config
Adding Vendor [Huawei] added as [RADIUS (Huawei)]
Adding USA [hw_Exec_Privilege]
Done
Checking new configuration...
New configuration OK
Re-starting stopped services

C:\Program Files\CiscoSecure ACS v4.0\bin>
```

### 3. 查看是否导入成功

导入完毕, 可以通过命令来查看:

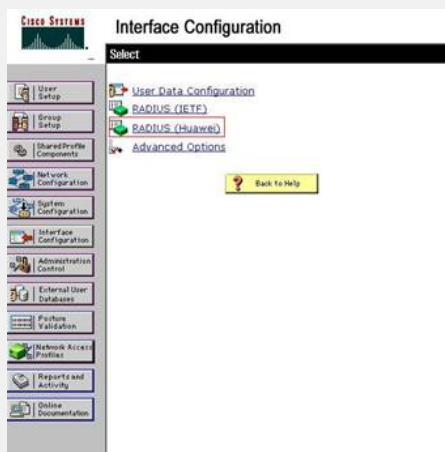
```
C:\WINNT\system32\cmd.exe
C:\Program Files\CiscoSecure ACS v4.0\bin>CSUtil -listUDU
CSUtil v4.0(1.24), Copyright 1997-2005, Cisco Systems Inc
UDU 0 - RADIUS (Huawei)
UDU 1 - Unassigned
UDU 2 - Unassigned
UDU 3 - Unassigned
UDU 4 - Unassigned
UDU 5 - Unassigned
UDU 6 - Unassigned
UDU 7 - Unassigned
UDU 8 - Unassigned
UDU 9 - Unassigned

C:\Program Files\CiscoSecure ACS v4.0\bin>
```

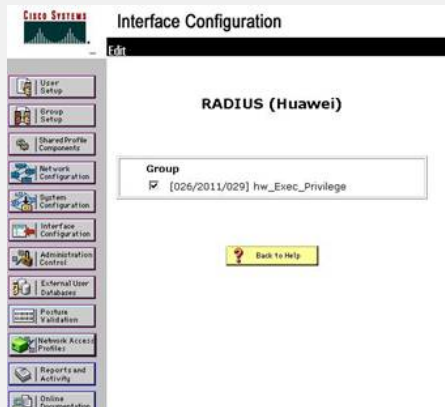
可以看到UDV 0 已经添加了RADIUS (Huawei) 私有属性

另外可以进入ACS页面来查看:

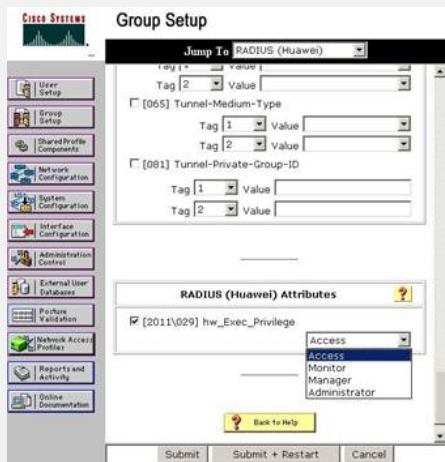
(1) 进入Interface Configuration可以看到如下:



(2) 点击进入看到如下内容:



(3) 进入Group Setup ,选择要编辑的Group,然后在Jump To中选择“Radius (Huawei)” , 可以看到添加的属性值



4. 如果不慎在导入过程中出现错误时, 可以在命令行界面删除添加属性, 以便重新添加

```
C:\WINNT\system32\cmd.exe
C:\Program Files\CiscoSecure ACS v4.0\bin> CSUtil -delUDU 0
CSUtil v4.0(1.24), Copyright 1997-2005, Cisco Systems Inc

Adding or removing vendors requires ACS services to be re-started.
Please make sure regedit is not running as it can prevent registry
backup/restore operations

Are you sure you want to proceed? (Y or N)y
Are you sure you want to delete vendor RADIUS (Huawei) ? (y/n)y
Deletion request confirmed
Stopping any running services
Creating backup of current config
Vendor [RADIUS (Huawei)] deleted
Checking new configuration...
New configuration OK
Re-starting any stopped services

C:\Program Files\CiscoSecure ACS v4.0\bin> CSUtil -listUDU
CSUtil v4.0(1.24), Copyright 1997-2005, Cisco Systems Inc
UDU 0 - Unassigned
UDU 1 - Unassigned
UDU 2 - Unassigned
UDU 3 - Unassigned
UDU 4 - Unassigned
UDU 5 - Unassigned
UDU 6 - Unassigned
UDU 7 - Unassigned
UDU 8 - Unassigned
UDU 9 - Unassigned

C:\Program Files\CiscoSecure ACS v4.0\bin>_
```

如上图，删除了添加的UDV 0 属性。