

组网及说明

本案例使用S6520X交换机部署hwtacacs, 与IMC TAM进行联动, 达到设备安全管理的效果。

IMC版本为PLAT 7.3 E0506P03

S6520版本信息如下:

H3C Comware Software, Version 7.1.070, Release 1110P02

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H3C S6520X-54QC-EI uptime is 24 weeks, 1 day, 21 hours, 29 minutes

Last reboot reason : Cold reboot

Boot image: flash:/s6520x-cmw710-boot-r1110p02.bin

Boot image version: 7.1.070, Release 1110P02

Compiled Aug 14 2018 11:00:00

System image: flash:/s6520x-cmw710-system-r1110p02.bin

System image version: 7.1.070, Release 1110P02

Compiled Aug 14 2018 11:00:00

Slot 1:

Uptime is 24 weeks,1 day,21 hours,29 minutes

S6520X-54QC-EI with 2 Processors

BOARD TYPE: S6520X-54QC-EI

DRAM: 2048M bytes

FLASH: 1024M bytes

PCB 1 Version: VER.A

Bootrom Version: 105

CPLD 1 Version: 001

CPLD 2 Version: 003

Release Version: H3C S6520X-54QC-EI-1110P02

Patch Version : None

Reboot Cause : ColdReboot

[SubSlot 0] 48SFP Plus + 2QSFP Plus

[SubSlot 1] 1/2.5/5G BASE-T

[SubSlot 2] 1/2.5/5G BASE-T

Slot 2:

Uptime is 24 weeks,1 day,20 hours,16 minutes

S6520X-54QC-EI with 2 Processors

BOARD TYPE: S6520X-54QC-EI

DRAM: 2048M bytes

FLASH: 1024M bytes

PCB 1 Version: VER.A

Bootrom Version: 105

CPLD 1 Version: 001

CPLD 2 Version: 003

Release Version: H3C S6520X-54QC-EI-1110P02

Patch Version : None

Reboot Cause : IRFMergeReboot

[SubSlot 0] 48SFP Plus + 2QSFP Plus

[SubSlot 1] 1/2.5/5G BASE-T

[SubSlot 2] 1/2.5/5G BASE-T

特别说明:

- 1、要部署hwtacacs的设备已经在IMC进行了纳管。
- 2、要部署hwtacacs的设备已经和IMC网络互通。
- 3、要部署hwtacacs的设备需要提前开启远程管理的功能, 并创建用户及赋予权限, 待设备和服务器都部署完tacacs后, 需要使用服务器上的tacacs账号对设备进行远程登陆管理, 当tacacs服务器挂掉了, 才可以使用设备的本地用户远程登陆管理。

配置步骤

1. 授权场景条件：
设备区域管理、设备类型管理、授权时段策略管理
2. 授权命令配置：
Shell profile配置、命令集配置
3. 设备管理：
配置共享密钥、绑定设备区域、绑定设备类型
4. 添加用户名、密码
5. S6520X交换机部署hwtacacs

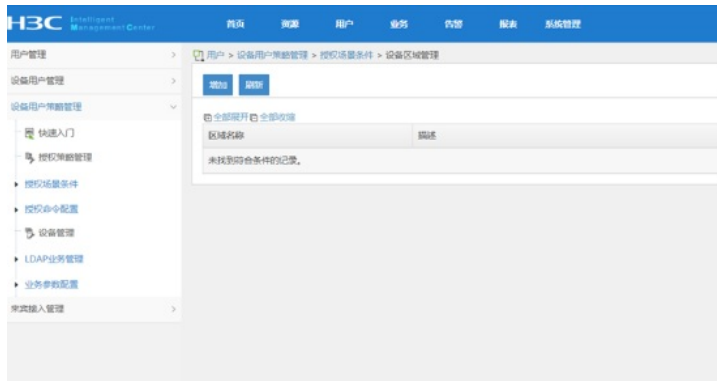
配置关键点

IMC侧配置：

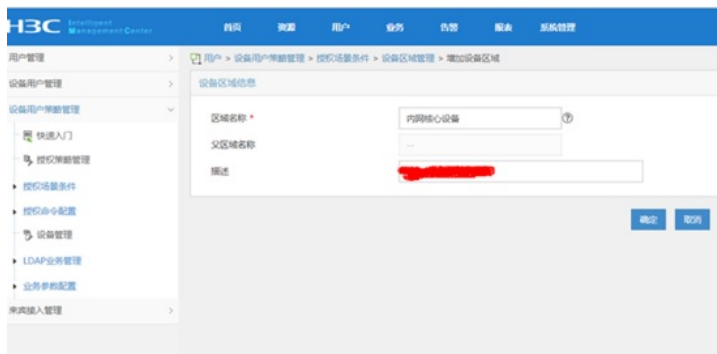
配置“授权场景条件”



添加“设备区域管理”



设置“区域名称”



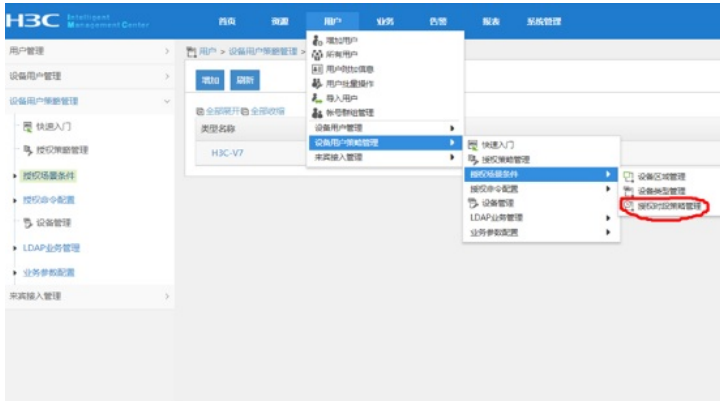
设置“设备类型管理”



增加



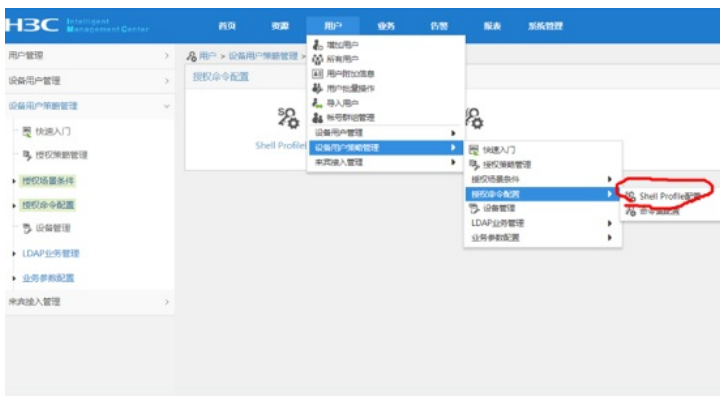
设置“授权时段策略管理”



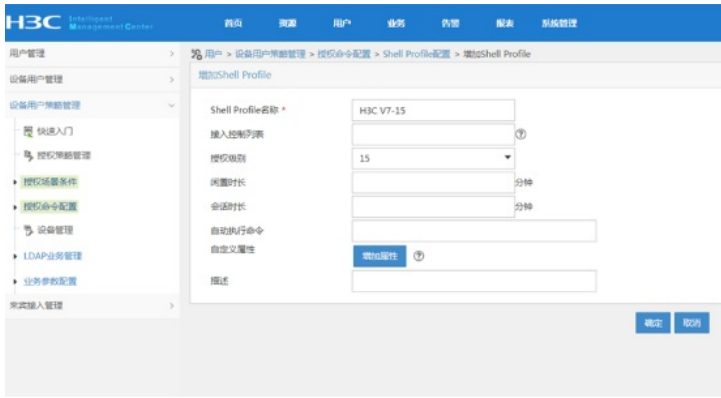
增加，设置“授权时段策略名称”、“生效时间”、“失效时间”



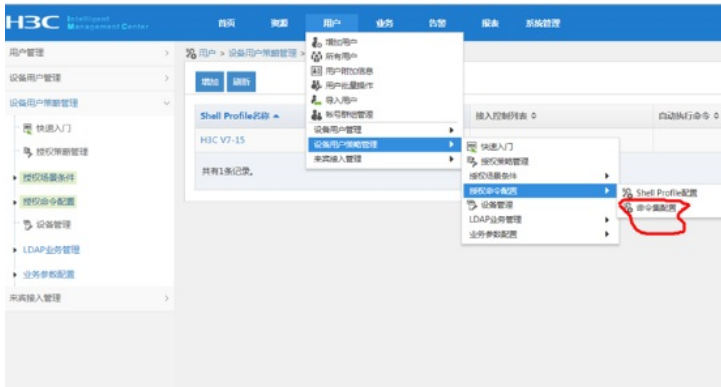
设置“授权命令配置”-“shell profile配置”



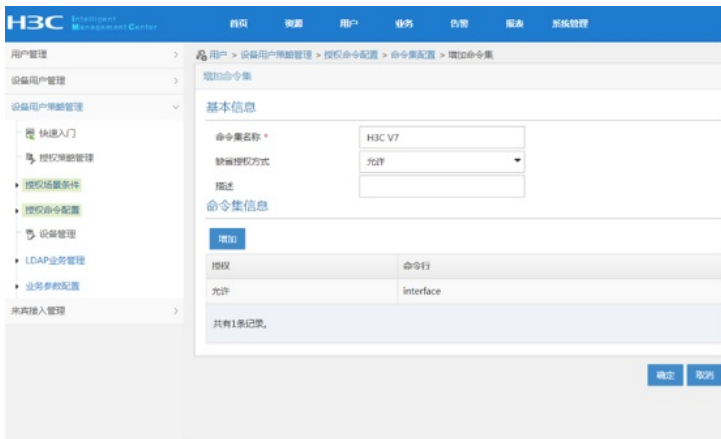
设置“shell profile名称”-“授权级别”



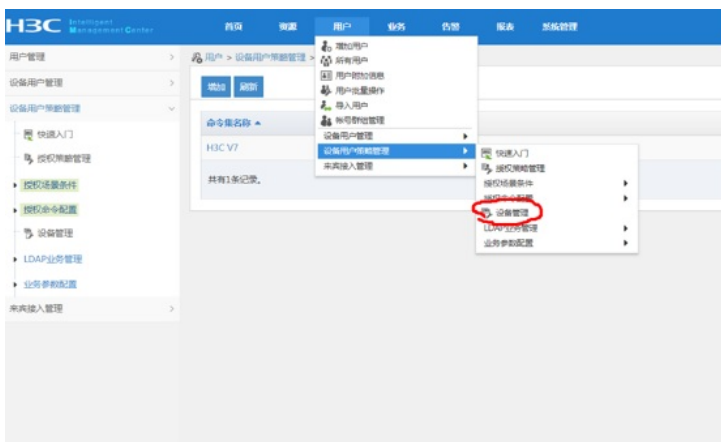
设置“命令集配置”



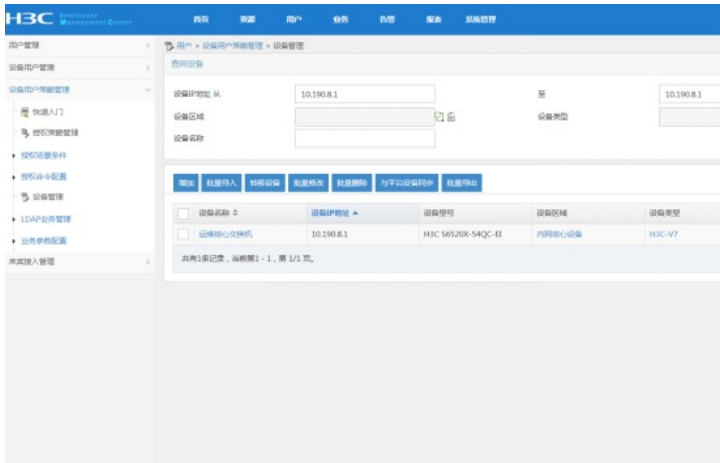
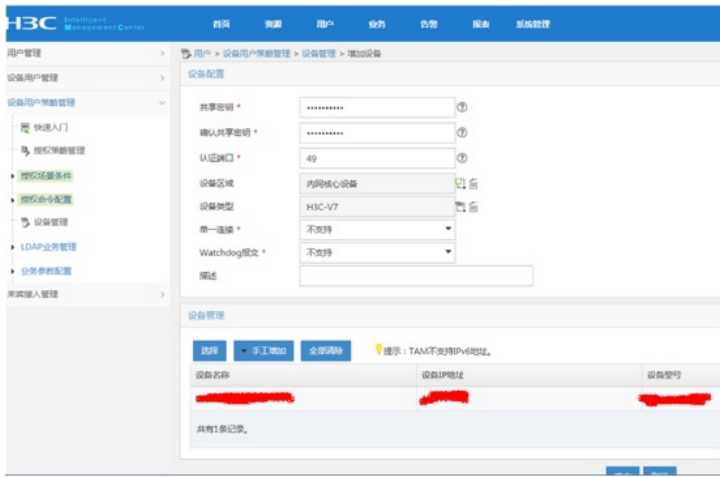
设置“命令集名称”、“缺省授权方式”



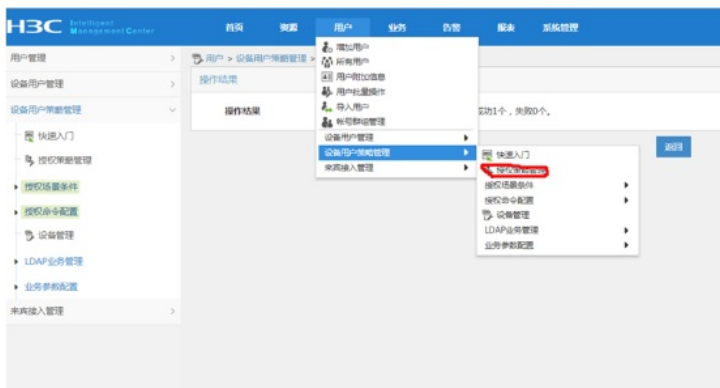
配置“设备管理”



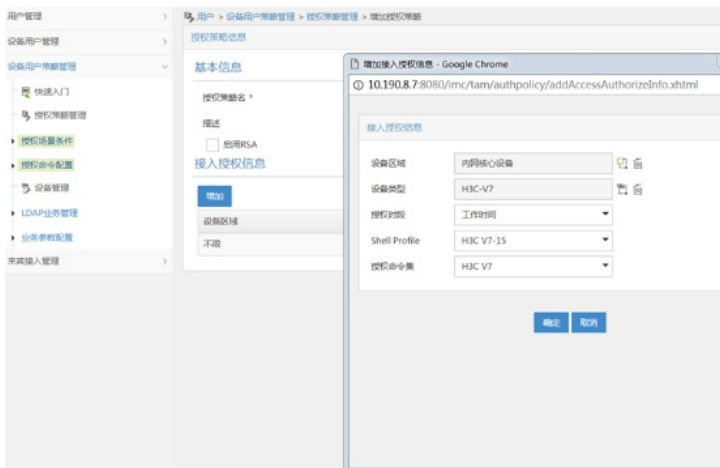
增加设备，设置“共享密钥”、“确认共享密钥”，绑定“设备区域”、“设备类型”



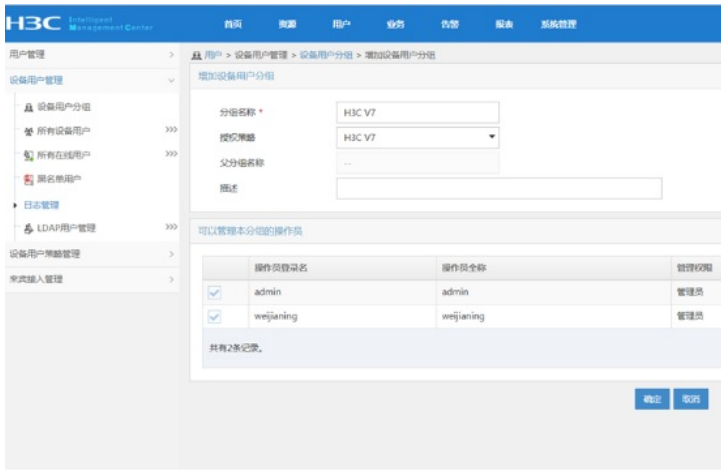
配置“授权管理”



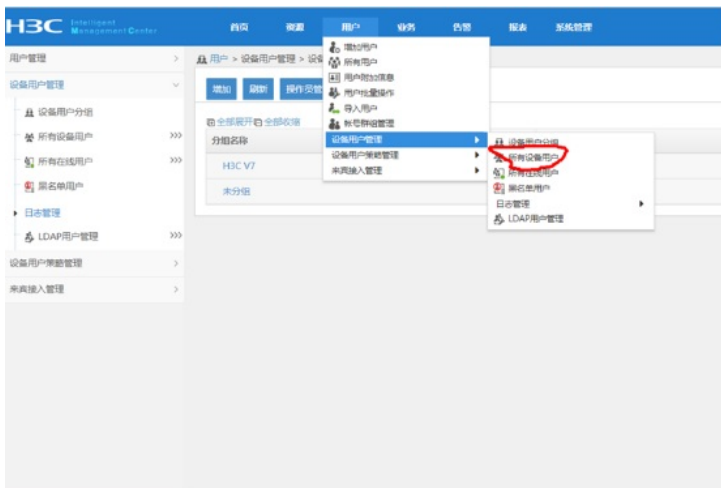
绑定“设备区域”-“设备类型”-“授权时段”-“shell profile”-“授权命令集”



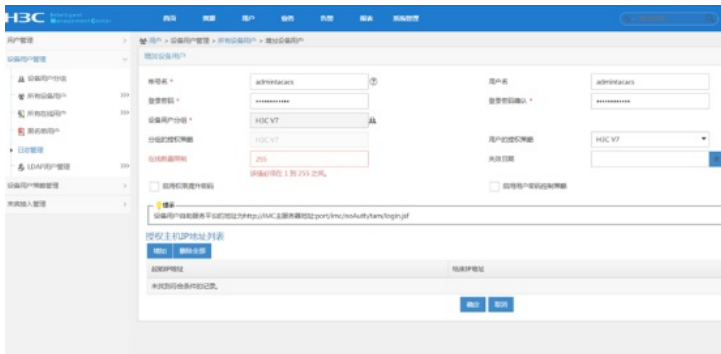
配置“用户设备分组”，设置“分组名称”-“授权策略”



设置“设备用户管理”-“所有设备用户”



设置“账号名”-“登陆密码”-“登陆密码确认”-“设备用户分组”-“用户的授权策略”



S6520X配置如下:

1、配置hwtacacs

```
hwtacacs scheme shebeiguanli
primary authentication 10.190.8.7
primary authorization 10.190.8.7
primary accounting 10.190.8.7
key authentication cipher $c$3$RnNrR/s0ZVKz4QE76pZmc2S67dHHggjvyk46IDY=
key authorization cipher $c$3$9Wgwwj3dGAJ6us9kQFGzpjIE3qyG17jMLMEWeqA=
key accounting cipher $c$3$vLZwwBR6J57wvFIPg2OH8nZoGvhSf4rXYeLIFtA=
user-name-format without-domain
nas-ip 10.190.8.1
```

2、配置domain

```
domain tamdm
authentication login hwtacacs-scheme shebeiguanli local
authorization login hwtacacs-scheme shebeiguanli local
accounting login hwtacacs-scheme shebeiguanli local
authorization command hwtacacs-scheme shebeiguanli local
```

accounting command hwtacacs-scheme shebeiguanli

3、启用默认domain

domain default enable tamdm

4、查看Hwtacacs显示信息

dis hwtacacs scheme

Total 1 HWTACACS schemes

HWTACACS Scheme Name : shebeiguanli

Index : 0

Primary Auth Server:

Host name: Not Configured

IP : 10.190.8.7 Port: 49 State: Active

VPN Instance: Not configured

Single-connection: Disabled

Primary Author Server:

Host name: Not Configured

IP : 10.190.8.7 Port: 49 State: Active

VPN Instance: Not configured

Single-connection: Disabled

Primary Acct Server:

Host name: Not Configured

IP : 10.190.8.7 Port: 49 State: Active

VPN Instance: Not configured

Single-connection: Disabled

VPN Instance : Not configured

NAS IP Address : 10.190.8.1

Server Quiet Period(minutes) : 5

Realtime Accounting Interval(minutes) : 12

Stop-accounting packets buffering : Enabled

Retransmission times : 100

Response Timeout Interval(seconds) : 5

Username Format : without-domain

Data flow unit : Byte

Packet unit : one

5、查看domain显示信息

dis domain tamdm

Domain: tamdm

State: Active

Login authentication scheme: HWTACACS=shebeiguanli, Local

Login authorization scheme: HWTACACS=shebeiguanli, Local

Login accounting scheme: HWTACACS=shebeiguanli, Local

Command authorization scheme: HWTACACS=shebeiguanli, Local

Command accounting scheme: HWTACACS=shebeiguanli

Default authentication scheme: Local

Default authorization scheme: Local

Default accounting scheme: Local

Accounting start failure action: Online

Accounting update failure action: Online

Accounting quota out policy: Offline

Service type: HSI

Session time: Exclude idle time

Dual-stack accounting method: Merge

Authorization attributes:

Idle cut: Disabled

IGMP access limit: 4

MLD access limit: 4

至此，S6520X交换机hwtacacs典型组网配置案例已完成！

