S5820 hwtacacs典型组网配置案例（IMC部署TAM作为tacacs服务器）

Tacacs 韦家宁 2020-04-08 发表

组网及说明

本案例使用S5820交换机部署hwtacacs，与IMC TAM联动，达到设备安全管理的效果。
IMC版本为PLAT 7.3 E0506P03
S5820的版本信息如下：

```
H3C Comware Software, Version 7.1.045, Release 2418P06
Copyright (c) 2004-2015 Hangzhou H3C Tech. Co., Ltd. All rights reserved.
H3C S5820V2-48S uptime is 233 weeks, 5 days, 23 hours, 47 minutes
Last reboot reason : USER reboot

Boot image: flash:/s5820v2_5830v2-cmw710-boot-r2418p06.bin
Boot image version: 7.1.045, Release 2418P06
  Compiled Aug 07 2015 15:40:53
System image: flash:/s5820v2_5830v2-cmw710-system-r2418p06.bin
System image version: 7.1.045, Release 2418P06
  Compiled Aug 07 2015 15:40:53
```

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、S5820部署hwtacacs

配置关键点

IMC侧配置如下：
配置“授权场景条件”

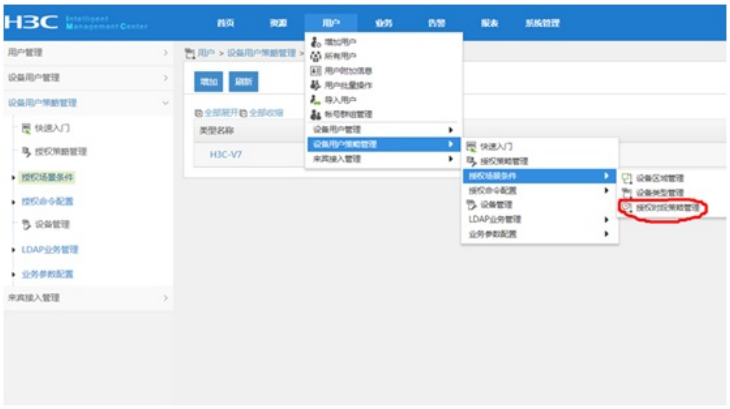
添加“设备区域管理”

设置“区域名称”

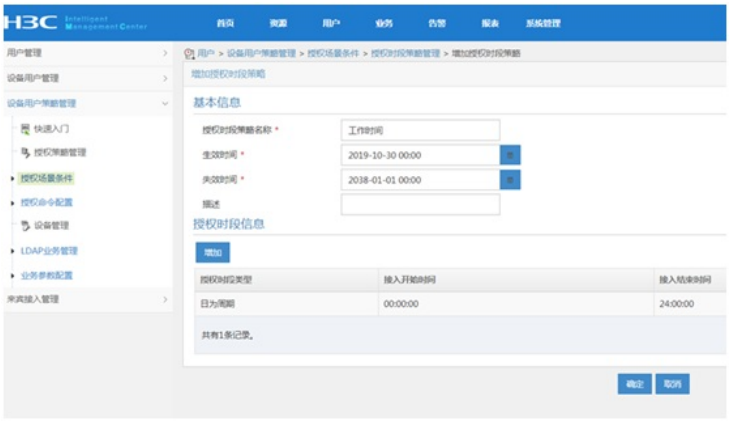
设置“设备类型管理”

增加

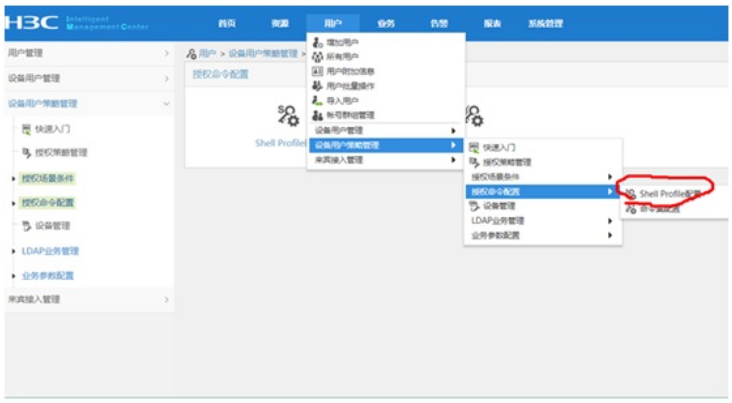
设置“授权时段策略管理”



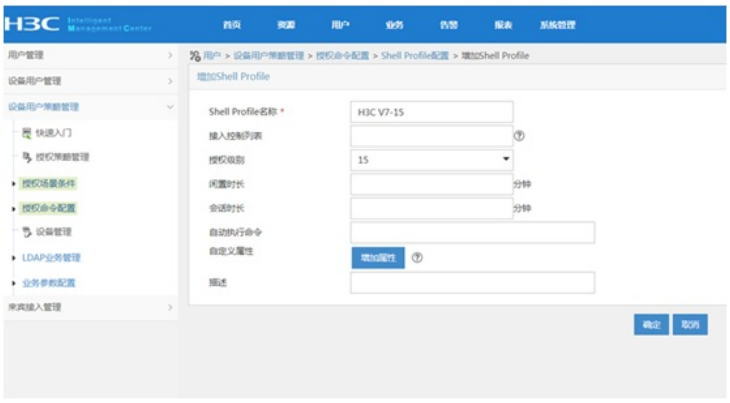
增加，设置“授权时段策略名称”、“生效时间”、“失效时间”



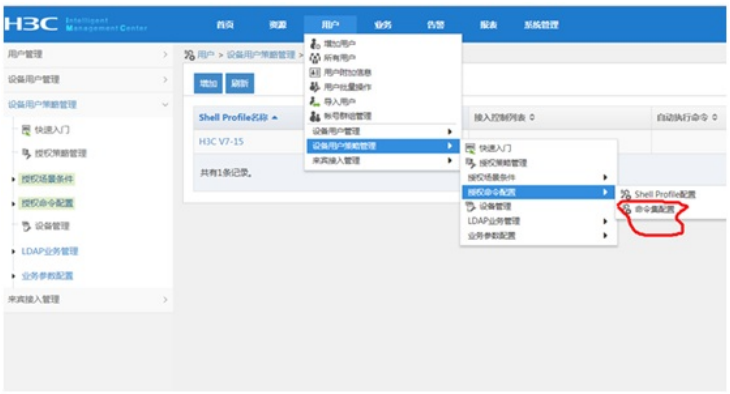
设置“授权命令配置”-“shell profile配置”



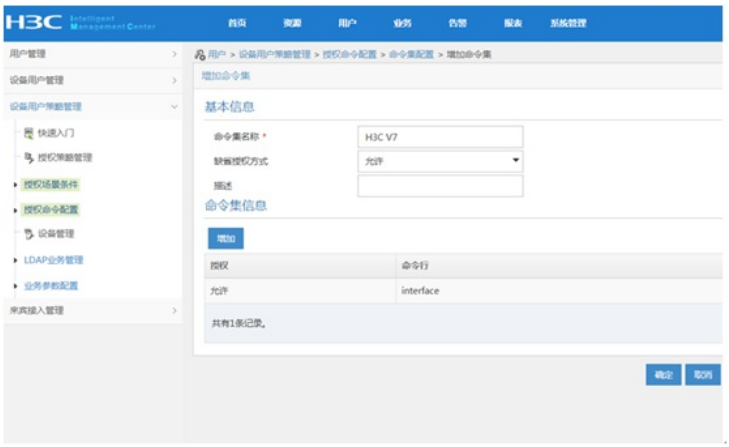
设置“shell profile名称”-“授权级别”



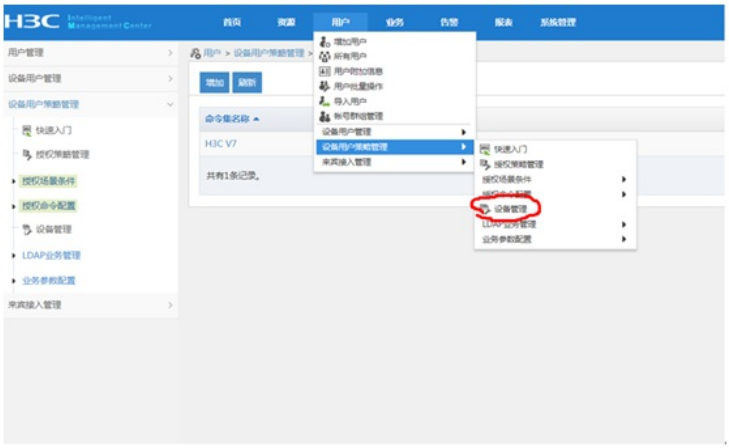
设置“命令集配置”



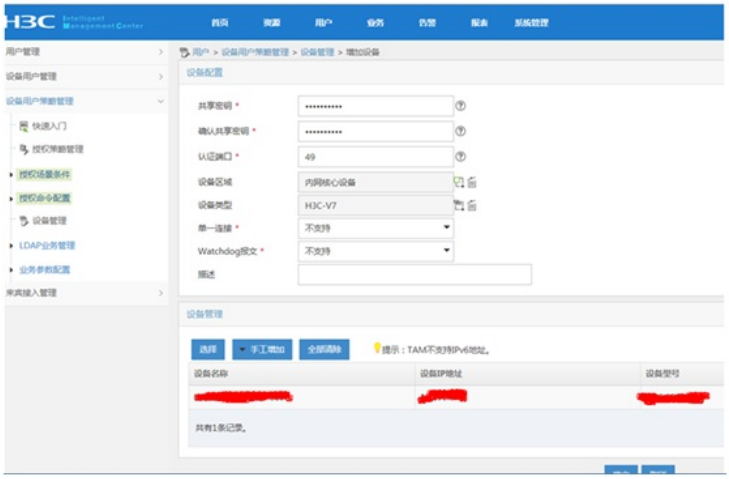
设置“命令集名称”、“缺省授权方式”

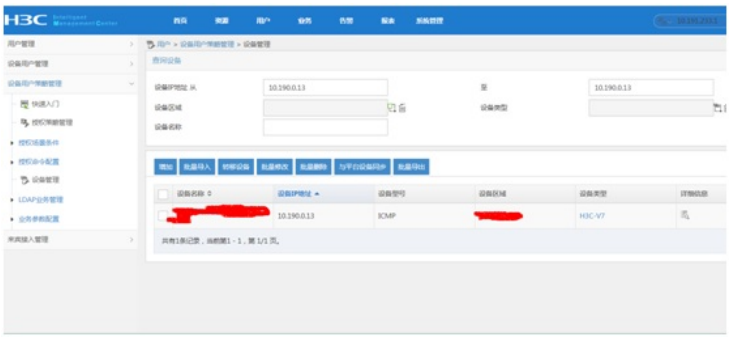


配置“设备管理”

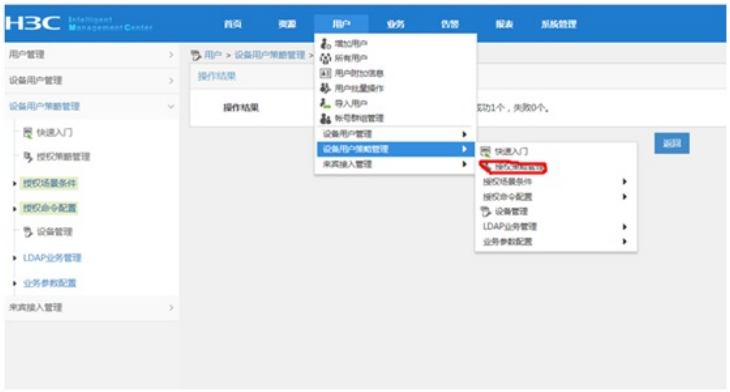


增加设备，设置“共享密钥”、“确认共享密钥”，绑定“设备区域”、“设备类型”

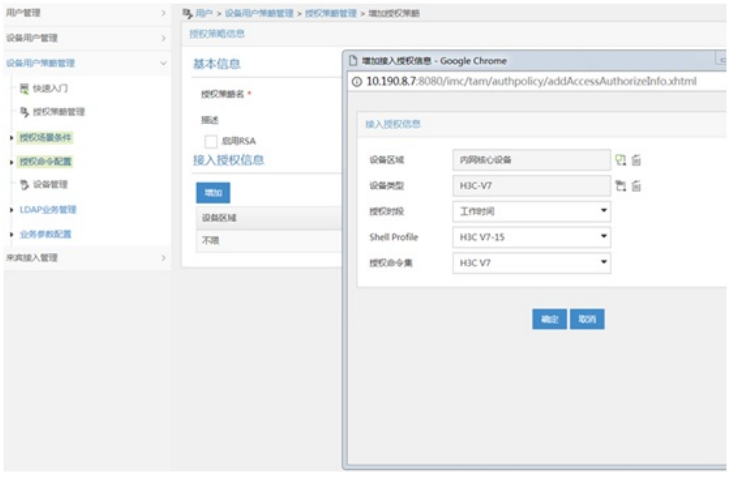




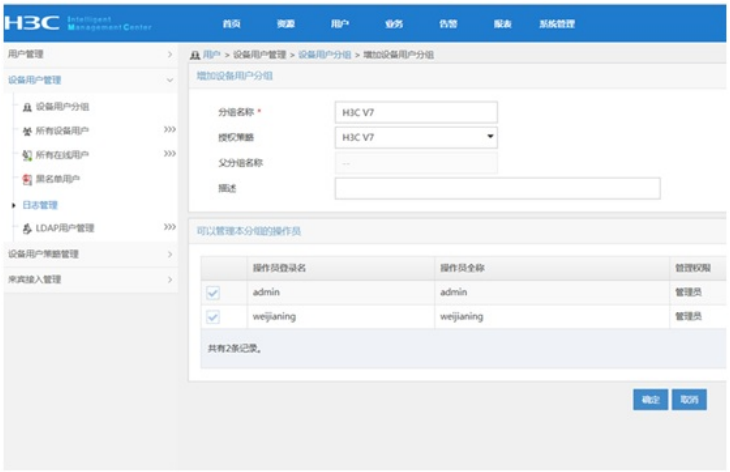
配置“授权管理”



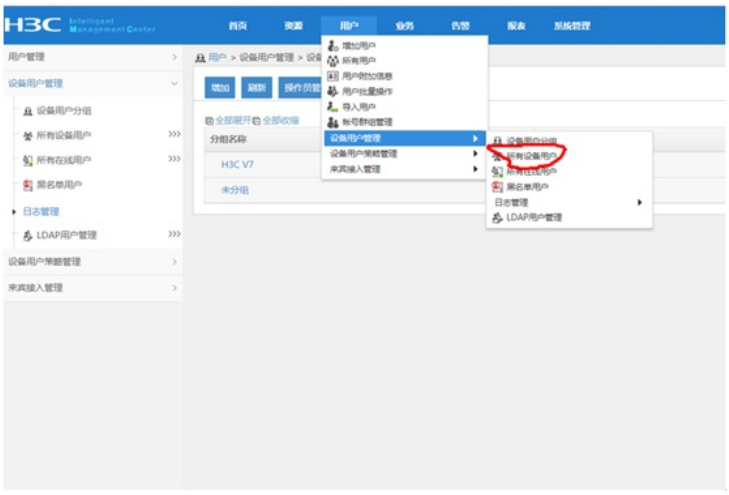
绑定“设备区域”-“设备类型”-“授权时段”-“shell profile”-“授权命令集”



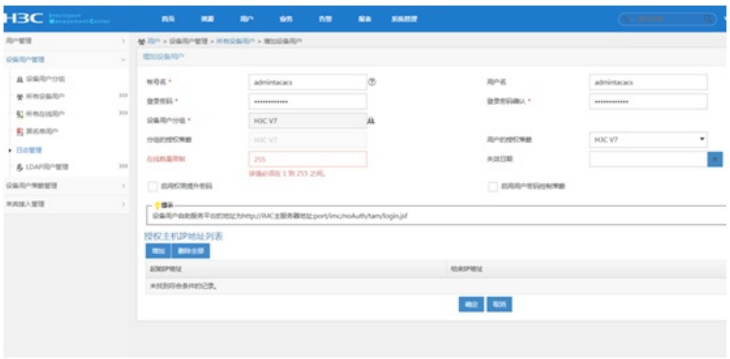
配置“用户设备分组”，设置“分组名称”-“授权策略”



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”



S5820部署hwtacacs如下：

1、部署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$3$jY/E2qCCddkGGV9+5Qu+VbPiTRm4uAEfG1K80YA=
 key authorization cipher $c$3$23sT1ll6Zyu0bZzkIVMgEAh8FmTWXqcW5RQgmyM=
 key accounting cipher $c$3$uKU3+jUjwtC/ZwgaLBBajlNXMmBFG4ZqzPWb/oo=
 user-name-format without-domain
 nas-ip 10.190.0.13
```

2、部署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 TACACS 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                      : 10.190.0.13
  Server Quiet Period(minutes)        : 5
  Realtime Accounting Interval(minutes) : 12
  Response Timeout Interval(seconds)  : 5
  Username Format                     : without-domain
```

4、查看domain显示信息：

```
dis domain tamdm

Domain:tamdm
 State: Active
 login   Authentication Scheme:  tacacs: shebeiguanli, local
 login   Authorization  Scheme:  tacacs: shebeiguanli, local
 login   Accounting     Scheme:  tacacs: shebeiguanli, local
 command Authorization  Scheme:  tacacs: shebeiguanli, local
 command Accounting     Scheme:  tacacs: shebeiguanli
 default Authentication Scheme:  local
 default Authorization  Scheme:  local
 default Accounting     Scheme:  local
 Authorization attributes :
  Idle-cut : Disable
```

至此，S5820 hwtacacs典型组网配置案例已完成！