HPE Moonshot 1500交换机Firmware升级的方法

Firmware 固件升级 窦秋阳 2017-12-26 发表

1. 将串行线的一端连接到Moonshot 1500后面的HP Moonshot-6SFP或Moonshot-4QSFP+上行链路模块上的串行端口，并将另一端连接到笔记本电脑或其它本地计算机。使用puTYY连接，将串口速率设置为：
波特率：115200
数据位：8
奇偶校验：无
停止位：1 (8 N1)
流控制：XON/XOFF
2. 进入特权模式，使用serverport ip 命令为交换机端口设置地址
serviceport ip 192.168.20.5 255.255.255.0 192.168.2.1
enable命令进入特权模式，show serviceport命令进行验证配置信息。

```
(Routing) #show serviceport

Interface Status.............................. Up
IP Address.................................... 192.168.20.5
Subnet Mask................................... 255.255.255.0
Default Gateway............................... 0.0.0.0
IPv6 Administrative Mode...................... Disabled
Configured IPv4 Protocol...................... None
Configured IPv6 Protocol...................... None
IPv6 AutoConfig Mode.......................... Disabled
Burned In MAC Address......................... 00:24:81:D0:6A:58
```

3. 使用show bootvar命令查看当前交换机的Firmware版本信息。

```
(Routing) #show bootvar

Image Descriptions

 primary :
 alternate :


 Images currently available on Flash

 ----  ----------  ----------  -----------------  -----------------
 unit      primary   alternate     current-active        next-active
 ----  ----------  ----------  -----------------  -----------------

    1    1.0.0.20    1.0.0.20           1.0.0.20           1.0.0.20
```

4. 通过ping命令测试交换机是否可以与文件服务器进行数据互通。

```
(Routing) #ping 192.168.20.7
 Pinging 192.168.20.7 with 0 bytes of data:

Reply From 192.168.20.7: icmp_seq = 0. time= 296 usec.

----192.168.20.7 PING statistics----
1 packets transmitted, 1 packets received, 0% packet loss
round-trip (msec) min/avg/max = 0/0/0
```

5. 将固件的.bin文件从搭建好的TFTP服务器复制到交换机的备用固件组中。
命令为：copy tftp://192.168.20.8/Switch_FW_45G_180G_2.0.0.13.bin alternate

```
(Routing) #copy tftp://192.168.20.8/Wolff_10020.stk alternate

Mode........................................... TFTP
Set Server IP.................................. 192.168.20.8
Path........................................... ./
Filename....................................... Wolff_10020.stk
Data Type...................................... Code
Destination Filename........................... alternate

Management access will be blocked for the duration of the transfer
Are you sure you want to start? (y/n) y
TFTP Code transfer starting...
File contents are valid. Copying file to flash...
Attempting to send the STK file to other units in the stack...
STK file transfer operation successful. All units updated code.


File transfer operation completed successfully.
```

6. 配置交换机以从备用镜像引导。
命令为：boot system alternate

```
(Routing) #boot system alternate
Activating image alternate ..

(Routing) #show bootvar

Image Descriptions

 primary :
 alternate :


 Images currently available on Flash

 ----  ----------  ----------  -----------------  -----------------
 unit     primary   alternate     current-active        next-active
 ----  ----------  ----------  -----------------  -----------------

    1    1.0.0.20    2.0.0.13           1.0.0.20           2.0.0.13
```

7. 检查交换机引导信息： show bootvar

```
(Routing) #show bootvar

Image Descriptions

 primary :
 alternate :


 Images currently available on Flash

 ----  ----------  ----------  -----------------  -----------------
 unit     primary   alternate     current-active        next-active
 ----  ----------  ----------  -----------------  -----------------

    1    1.0.0.20    2.0.0.13           1.0.0.20           1.0.0.20
```

8. 使用Write memory保存配置到Startup config。

(Routing) #write memory

9. 重置交换机并从新映像引导：

(Routing) # reload

10. 在交换机完成重新引导后，检查固件更新是否成功：

(Routing) # show bootvar

11. 在交换机上更新引导加载程序：

update bootcode

```
(Routing) #show cpld versions

Management Module  Installed CPLD: 0x14   Available CPLD: 0x20
    Fabric Module  Installed CPLD: 0x0e   Available CPLD: 0x0e
 Faceplate Module  Installed CPLD: 0x0a   Available CPLD: 0x0a
```

12. 更新交换机上的CPLD(Complex programmable logic device 复杂可编程逻辑设备)。

```
(Routing) #update bootcode

Updating boot code, please wait a few seconds... Success!
```

Update CPLD

注意：CPLD 更新将暂停在相关的交换机上通过数据流量。 一旦开始CPLD的更新，一定不要将其中断。 否则将会导致交换机故障无法使用。CPLD 更新最长可持续 10 分钟。

```
(Routing) #show cpld version

Management Module  Installed CPLD: 0x20   Available CPLD: 0x20
    Fabric Module  Installed CPLD: 0x0e   Available CPLD: 0x0e
 Faceplate Module  Installed CPLD: 0x0a   Available CPLD: 0x0a
```

13. 同步image文件到备用的rom：

(Routing) #copy primary alternate

此步骤覆盖前一固件版本。 执行之前，确保不存在将交换机固件降级的计划。

至此，交换机固件刷新完毕。