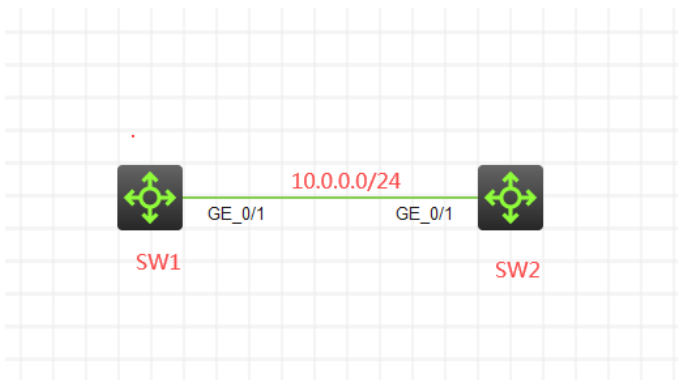


知 NTP典型组网配置案例3（网络设备作为时钟源）

NTP 静态路由 H3C模拟器 韦家宁 2020-02-16 发表

组网及说明



本案例采用H3C HCL模拟器来模拟NTP典型组网配置。在网络拓扑图中，SW1作为时钟源，SW2作为NTP客户端。

配置步骤

- 1、按照网络拓扑图正确配置IP地址
- 2、SW2开启NTP功能，指向SW1作为NTP服务器
- 3、SW1开启NTP功能，作为NTP时钟源

配置关键点

SW2:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname SW2
[SW2]int gi 1/0/1
[SW2-GigabitEthernet1/0/1]port link-mode route
[SW2-GigabitEthernet1/0/1]ip address 10.0.0.1 24
[SW2-GigabitEthernet1/0/1]quit
[SW2]ip route-static 0.0.0.0 0.0.0.0 10.0.0.2
```

SW2 NTP关键配置点:

```
[SW2]ntp-service enable
[SW2]ntp-service unicast-server 10.0.0.2 source GigabitEthernet 1/0/1
[SW2]clock protocol ntp
```

SW1:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname SW1
[SW1]int gi 1/0/1
[SW1-GigabitEthernet1/0/1]port link-mode route
[SW1-GigabitEthernet1/0/1]ip address 10.0.0.2 24
[SW1-GigabitEthernet1/0/1]quit
[SW1]ip route-static 0.0.0.0 0.0.0.0 10.0.0.2
```

SW1 NTP关键配置点:

```
[SW1]ntp-service enable
[SW1]ntp refclock-master 2
```

分别查看SW2和SW1的NTP显示信息:

```
[SW2]dis ntp status
Clock status: synchronized
Clock stratum: 3
System peer: 10.0.0.2
Local mode: client
Reference clock ID: 10.0.0.2
Leap indicator: 00
Clock jitter: 0.076218 s
Stability: 0.000 pps
Clock precision: 2^-10
Root delay: 0.65613 ms
Root dispersion: 246.24634 ms
Reference time: e1f3f0bc.3645e14d Sun, Feb 16 2020 16:47:56.212
[SW2]
```

```
[SW2]dis ntp sessions
source      reference      stra reach poll now offset delay disper
*****
[12345]10.0.0.2 127.127.1.0    2 1 64 35 156.06 0.6561 1.9073
Notes: 1 source(master), 2 source(peer), 3 selected, 4 candidate, 5 configured.
Total sessions: 1
[SW2]
```

```
[SW1]dis ntp status
Clock status: synchronized
Clock stratum: 2
System peer: LOCAL(0)
Local mode: client
Reference clock ID: 127.127.1.0
Leap indicator: 00
Clock jitter: 0.000977 s
Stability: 0.000 pps
Clock precision: 2^-10
Root delay: 0.00000 ms
Root dispersion: 12.13074 ms
Reference time: e1f3f0ed.5a4db46b Sun, Feb 16 2020 16:48:45.352
[SW1]
```

```
[SW1]dis ntp sessions
source      reference      stra reach poll now offset delay disper
*****
[12345]LOCAL(0) LOCAL    1 3 64 26 0.0000 0.0000 0.9613
Notes: 1 source(master), 2 source(peer), 3 selected, 4 candidate, 5 configured.
Total sessions: 1
[SW1]
```

至此，NTP典型组网配置案例3（网络设备作为时钟源）已完成！