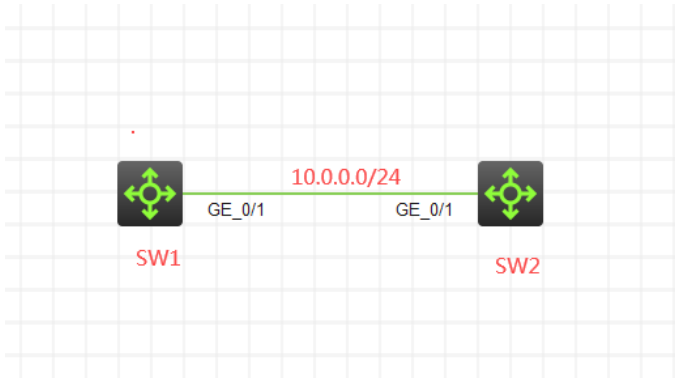


知 NTP典型组网配置案例4（互为时钟源、对等体）

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与SW2互为NTP对等体和时钟源。

配置步骤

- 1、按照网络拓扑图正确配置IP地址
- 2、SW1与SW2开启NTP功能，相互指向为NTP对等体

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]clock protocol ntp
[SW2]ntp-service enable
[SW2]ntp-service unicast-peer 10.0.0.2 source GigabitEthernet 1/0/1
[SW2]ntp refclock-master 15
```

<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 10.0.0.1
```

SW1 NTP关键配置点:

```
[SW1]clock protocol ntp
[SW1]ntp-service enable
[SW1]ntp-service unicast-peer 10.0.0.1 source GigabitEthernet 1/0/1
[SW1]ntp-service refclock-master
```

分别查看SW1和SW2的NTP显示信息:

```
<SW2>dis ntp status
Clock status: synchronized
Clock stratum: 9
System peer: 10.0.0.2
Local mode: sym_active
Reference clock ID: 10.0.0.2
Leap indicator: 00
Clock jitter: 0.366196 s
Stability: 0.000 pps
Clock precision: 2^-10
Root delay: 0.96130 ms
Root dispersion: 1274.88708 ms
Reference time: elf3f6f3.c6a600f2 Sun, Feb 16 2020 17:14:27.775
<SW2>
```

```
<SW2>dis ntp sessions
source reference strata reach poll now offset delay disper
*****
[12345]10.0.0.2 127.127.1.0 8 7 64 42 892.92 0.9613 2.1972
[25]LOCAL(0) 127.127.1.0 14 15 64 44 0.0000 0.0000 1.5716
[24]10.0.0.2 127.127.1.0 8 6 64 34 552.95 213.18 1.9531
Notes: 1 source(master), 2 source(peer), 3 selected, 4 candidate, 5 configured.
Total sessions: 3
<SW2>
```

```
<SW1>dis ntp status
<SW1>dis ntp status
Clock status: synchronized
Clock stratum: 8
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: 13.36670 ms
Reference time: elf3f6f5.a5d7c2d7 Sun, Feb 16 2020 17:14:29.647
<SW1>
```

```
<SW1>dis ntp sessions
source reference strata reach poll now offset delay disper
*****
[25]10.0.0.1 10.0.0.2 9 7 64 1 -662.3 5.6762 2.9602
[12345]LOCAL(0) 127.127.1.0 7 31 64 12 0.0000 0.0000 1.7242
Notes: 1 source(master), 2 source(peer), 3 selected, 4 candidate, 5 configured.
Total sessions: 2
<SW1>
```

至此，NTP典型组网配置案例4（互为时钟源、对等体）已完成！