

## 组网及说明

S12508与华为5700对接NTP典型组网配置，其中S12508为时钟源，华为5700为客户端

S12508版本信息如下：

H3C Comware Platform Software

Comware Software, Version 5.20, Release 1828P05

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H3C S12508 uptime is 58 weeks, 4 days, 15 hours, 32 minutes

Last reboot reason : User reboot

华为5700版本信息如下：

Huawei Versatile Routing Platform Software

VRP (R) software, Version 5.130 (S5700 V200R003C00SPC300)

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Quidway S5700-28C-EI-24S Routing Switch uptime is 5 weeks, 2 days, 12 hours, 15 minutes

CX22EFGF 0(Master) : uptime is 5 weeks, 2 days, 12 hours, 14 minutes

256M bytes DDR Memory

32M bytes FLASH

Pcb Version : VER B

Basic BOOTROM Version : 181 Compiled at Jun 29 2013, 10:18:52

CPLD Version : 74

Software Version : VRP (R) Software, Version 5.130 (V200R003C00SPC300)

FANCARD I information

Pcb Version : FAN VER B

PWRCARD I information

Pcb Version : PWR VER B

## 配置步骤

S12508 NTP时钟源配置信息如下：

```
ntp-service refclock-master 2
```

```
interface Vlan-interface4
```

```
ip address 10.190.4.254 255.255.255.0
```

```
vrrp vrid 4 virtual-ip 10.190.4.1
```

```
vrrp vrid 4 priority 105
```

```
packet-filter 3002 inbound
```

```
packet-filter 3002 outbound
```

华为5700 NTP配置如下：

```
ntp-service unicast-server 10.190.9.1
```

S12508查看NTP显示信息：

```
dis ntp status
```

```
Clock status: synchronized
```

```
Clock stratum: 2
```

```
Reference clock ID: 127.127.1.0
```

```
Nominal frequency: 100.0000 Hz
```

```
Actual frequency: 100.0000 Hz
```

```
Clock precision: 2^14
```

```
Clock offset: 0.0000 ms
```

```
Root delay: 0.00 ms
```

```
Root dispersion: 43.43 ms
```

```
Peer dispersion: 10.00 ms
```

```
Reference time: 08:26:28.027 UTC May 30 2020(E27C9734.072367E4)
```

```
dis ntp sessions
```

```
source      reference  stra reach poll now offset delay disper
*****
[12345]127.127.1.0 LOCL          1 255 64 44 0.0 0.0 1.0
note: 1 source(master),2 source(peer),3 selected,4 candidate,5 configured
Total associations : 1
```

华为5700查看NTP显示信息:

```
dis ntp status
clock status: synchronized
clock stratum: 3
reference clock ID: 10.190.9.1
nominal frequency: 60.0002 Hz
actual frequency: 60.0003 Hz
clock precision: 2^18
clock offset: 4.0696 ms
root delay: 10.54 ms
root dispersion: 93.97 ms
peer dispersion: 43.44 ms
reference time: 08:19:06.975 UTC May 30 2020(E27C957A.F9CE8D97)
synchronization state: clock synchronized
```

```
dis ntp sessions
clock source: 10.190.9.1
clock stratum: 2
clock status: configured, master, sane, valid
reference clock ID: LOCAL(0)
reach: 377
current poll: 1024
now: 972
offset: 4.3155 ms
delay: 10.54 ms
disper: 16.82 ms
```

#### 配置关键点

- 1、 确保时钟源和时钟客户端路由可达。
- 2、 时钟源及时钟客户端都需要开启NTP功能。
- 3、 时钟客户端指定时钟源为NTP服务器。
- 4、 时钟源所在的设备配置为时钟源。