The configuration of NTP broadcast mode on H3C 5600 switch
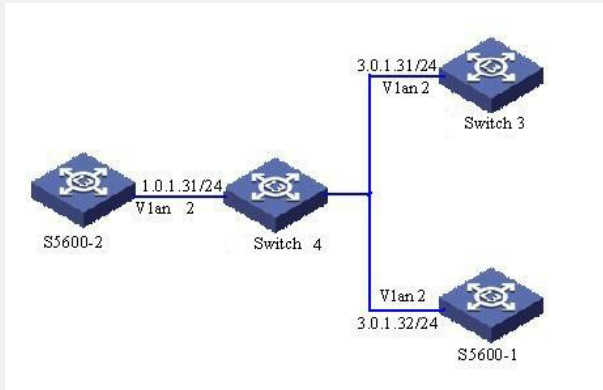
唐丽   2007-08-24 发表

The configuration of NTP broadcast mode on H3C 5600 switch

I   Requirement for the diagram

1.   Set the switch3's local clock as the master clock of NTP. Layer is 2 and the switch3 send the broadcast message capsule via vlan-interface2.

2.   S5600-1 and S5600-2 listen broadcast message from corresponding vlan-interface2.

II   Network topology.

III   Steps of configuration

Configure switch3:

1.   Enter system view

<Switch3> system-view

2.   Enter the vlan-interface2 interface view

[Switch3] interface Vlan-interface 2

[Switch3-Vlan-interface2]

3.   Set the switch as broadcast server and send the broadcast message from vlan-interface2.

[Switch3-Vlan-interface2] ntp-service broadcast-server

Configure S5600-1:

1.   Enter system view

<S5600-1> system-view

2.   Enter the vlan-interface2 interface view

[S5600-1] interface Vlan-interface 2

[S5600-1-Vlan-interface2]

3.   Set the switch as broadcast client.

[S5600-1-Vlan-interface2] ntp-service broadcast-client

Configure S5600-2:

1.   Enter system view

<S5600-2> system-view

2.   Enter the vlan-interface2 interface view

[S5600-2] interface Vlan-interface 2

[S5600-2-Vlan-interface2]

3.   Set the switch as broadcast client.

[S5600-2-Vlan-interface2] ntp-service broadcast-client

IV   Key notes in the configuration

1.   S5600-1 and S5600-2 listen the broadcast message from vlan-interface2 and the switch3 send the broadcast message from vlan-interface2. Because S5600-2 and switch3 are not the same network segment, S5600-2 can't receive the broadcast message from switch3. But S5600-1can receive the broadcast from switch3 and then keep synchronization with switch3.

2.   After keep synchronization, the status of S5600-1:

[S5600-1] display ntp-service status

Clock status: synchronized

Clock stratum: 3

Reference clock ID: 3.0.1.31

Nominal frequency: 250.0000 Hz

Actual frequency: 249.9992 Hz

Clock precision: 2^19

Clock offset: 198.7425 ms

Root delay: 27.47 ms

Root dispersion: 208.39 ms

Peer dispersion: 9.63 ms

Reference time: 17:03:32.022 UTC Thu Sep 6 2001 (BF422AE4.05AEA86C)

3.   Display the NTP sessions:

[S5600-1] display ntp-service sessions

```
source      reference       stra reach poll  now offset  delay disper
************************************************************************
[1]3.0.1.31     127.127.1.0     2   1   64   377  26.1  199.53  9.7
```

note: 1 source(master),2 source(peer),3 selected,4 candidate,5 configured