



7610x配置ntp时钟同步状态异常

NTP

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组网及说明

无

告警信息

无

问题描述

ntp时钟同步状态不生效，但是时间已同步成功

```
<H3CS7610>dis ntp status
```

Clock status: **unsynchronized**

Clock stratum: 16

Reference clock ID: none

Clock jitter: 0.000000 s

Stability: 0.000 pps

Clock precision: 2⁻²³

Root delay: 0.00000 ms

Root dispersion: 0.00000 ms

Reference time: 00000000.00000000 Mon, Jan 1 1900 8:05:52.000

System poll interval: 8 s

过程分析

1、查看了ntp会话正常

```
<H3CS7610>dis ntp sessions
```

```
source      reference      stra reach poll now offset delay disper
*****
[25]10.110.96.78 GPS          1 255 64 7 -55180 7.0343 0.9613
```

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

Total sessions: 1

2、ntp的配置正常，可以ping通服务器

```
<SCYAA_YY04301_1_SNS_SW06_H3CS7610>dis cu | in ntp
```

```
clock protocol ntp mdc 1
```

```
ntp-service enable
```

```
ntp-service source Vlan-interface3800
```

```
ntp-service server acl 2015
```

```
ntp-service unicast-server 10.110.96.78
```

```
<H3CS7610>dis acl 2015
```

```
Basic IPv4 ACL 2015, 2 rules,
```

```
SPE_NTP
```

```
ACL's step is 5, start ID is 0
```

```
rule 13000 permit source 10.110.96.78 0 (46162 times matched)
```

```
rule 65000 deny
```

3、让现场查看debugg信息，时间正常同步

```
<SCYAA_YY04301_1_SNS_SW05_H3CS7610>*Oct 28 15:39:50:863 2022
```

```
SCYAA_YY04301_1_SNS_SW05_H3CS7610 NTP/7/PACKET_SEND: -MDC=1; Flushing packet, 1 items
```

```
*Oct 28 15:40:04:185 2022 H3CS7610 NTP/7/PACKET_SEND: -MDC=1;
```

```
packet to 10.110.96.78, length: 48
```

```
leap: 3, version: 4, mode: 3, vrindex: 0
```

```
stratum: 16, poll: 6, precision: 2^-23
```

```
rdel: 0.000, rdsp: 0.961, refid: INIT
```

```
reftime: 00000000.00000000 Mon, Jan 1 1900 8:05:52.000
```

```
orgtime: e7060573.43da9435 Fri, Oct 28 2022 15:38:27.265
```

```
rectime: e7060593.316b2ffd Fri, Oct 28 2022 15:38:59.193
```

```
xmttime: e70605d4.2f736179 Fri, Oct 28 2022 15:40:04.185
```

```
*Oct 28 15:40:04:193 2022 H3CS7610 NTP/7/PACKET_RECV: -MDC=1;
```

```
packet from 10.110.96.78 to 10.110.178.146 on Vlan-interface3800
```

```
leap: 0, version: 4, mode: 4, vrindex: 0
```

```
stratum: 1, poll: 6, precision: 2^-16
```

```
rdel: 0.000, rdsp: 2.121, refid: GPS
```

```
reftime: e70605b3.94f1d3ed Fri, Oct 28 2022 15:39:31.581
```

```
orgtime: e70605d4.2f736179 Fri, Oct 28 2022 15:40:04.185
```

```
rectime: e70605b4.435f1bef Fri, Oct 28 2022 15:39:32.263
```

```
xmttime: e70605b4.436fc158 Fri, Oct 28 2022 15:39:32.263
```

```
inptime: e70605d4.316d17dc Fri, Oct 28 2022 15:40:04.193
```

解决方法

解决方案:

修改ntp-service 的权限等级。

将ntp-service server acl 2015 修改成 ntp-service peer acl 2015 之后问题解决

原因:

Server权限只允许自己向其他设备同步时间，不允许其他设备修改本机时间

