

知 NQA检测时间探究

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问题描述

NQA从实际探测不通到日志显示probe-fail显示时间大约多久?

配置如下:

```
#
nqa entry admin 1
type icmp-echo
destination ip 10.2.4.244
frequency 1000
reaction 1 checked-element probe-fail threshold-type consecutive 3 action-type trigger-only
#
nqa schedule admin 1 start-time now lifetime forever
#
```

解决方法

大约12 S, 如下:

```
RBM_P<M9K-L>%Jun 11 13:48:40:454 2024 M9K-L NQA/6/NQA_ENTRY_PROBE_
RESULT: Reaction entry 1 of NQA entry admin-name admin operation-tag 1: probe-f
ail.
```

```
RBM_P<M9K-L>disp nqa his
```

```
RBM_P<M9K-L>disp nqa history
```

NQA entry (admin admin, tag 1) history records:

| Index | Response | Status | Time |
|-------|----------|-----------|-----------------------|
| 543 | 3000 | Timeout | 2024-06-11 13:48:44.4 |
| 542 | 3000 | Timeout | 2024-06-11 13:48:40.4 |
| 541 | 3000 | Timeout | 2024-06-11 13:48:36.4 |
| 540 | 3000 | Timeout | 2024-06-11 13:48:32.4 |
| 539 | 2 | Succeeded | 2024-06-11 13:48:28.4 |
| 538 | 1 | Succeeded | 2024-06-11 13:48:27.4 |
| 537 | 1 | Succeeded | 2024-06-11 13:48:26.5 |

时间说明如下: NQA探测的时间间隔为1S, 即1S周期发送一次探测; 探测的超时周期默认为3S, 即如果对端没有回应会等待3S时间才会Timeout。

三次Timeout则会Probe-fail, 因此时间为 $3 * (1+3) = 12$ S。