

问题描述

刀箱配置为直通模块，网口在系统下均通过vswitch的方式使用，未涉及到其他特殊配置，用户反馈对端交换机测down掉端口后无法成功up；

过程分析

直通模块仅提供直连功能，可以理解为刀片的网卡直连对端的交换机；系统下查看对应网卡的状态为down，原因为“Down by linkflapping”，其表示网口在短时间内反复up/down，为防止拓扑频繁变更而触发的down链路机制；

```
NIC: vnic5
vnic5 0000:2b:00:1 qedentv Down Down 0 Half Sc:ed:8c:85:fd:9b 1500 QLogic Corp. QLogic FastLinQ QL45xxx 25 GbE Ethernet Adapter
NICInfo:
  Advertised Auto Negotiation: true
  Advertised Link Modes: Auto, 10000BaseKR/Full, 20000BaseKR2/Full, 25000BaseKR/Full
  Auto Negotiation: true
  Cable Type: FIBRE
  Current Message Level: 0
  Driver Info:
    NICDriverInfo:
      Bus Info: 0000:2b:00:1
      Driver: qedentv
      Firmware Version: mfw 8.65.1.0 storm 8.70.4.0
      Version: 3.70.7.0
  Link Detected: false
  Link Status: Down by linkflapping
Name: vnic5
PHY Address: 0
Pause Autonegotiate: true
```

进一步查看对应网卡的状态，发现只有此网口频繁up/down（日志中出现此现象的最早记录为10月11日），最后在10月16日之后一直处于down状态：

```
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346071us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346087us: [esx.clear.net.vmnic.linkstate.up] Physical NIC vmnic5 linkstate is up
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346170us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346197us: [esx.clear.net.vmnic.linkstate.up] Physical NIC vmnic5 linkstate is up
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346271us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346287us: [esx.clear.net.vmnic.linkstate.up] Physical NIC vmnic5 linkstate is up
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346372us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346388us: [esx.clear.net.vmnic.linkstate.up] Physical NIC vmnic5 linkstate is up
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346470us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346486us: [esx.clear.net.vmnic.linkstate.up] Physical NIC vmnic5 linkstate is up
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331097346570us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.001Z: [netCorrelator] 13331097346597us: [esx.clear.net.vmnic.linkstate.up] Physical NIC vmnic5 linkstate is up
vobd_log:2023-10-16T11:34:27.001Z: [netCorrelator] 13331097346675us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.001Z: [netCorrelator] 13331097346694us: [esx.clear.net.vmnic.linkstate.up] Physical NIC vmnic5 linkstate is up
vobd_log:2023-10-16T11:34:27.001Z: [netCorrelator] 13331097346777us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.001Z: [netCorrelator] 13331097346793us: [esx.clear.net.vmnic.linkstate.up] Physical NIC vmnic5 linkstate is up
vobd_log:2023-10-16T11:34:27.001Z: [netCorrelator] 13331097346810us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:28.002Z: [netCorrelator] 13331098347582us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:28.002Z: [netCorrelator] 13331098347644us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
vobd_log:2023-10-16T11:34:27.000Z: [netCorrelator] 13331127345974us: [esx.problem.net.vmnic.linkstate.down] Physical NIC vmnic5 linkstate is down
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解决方法

刀箱测仅通过直通模块连接到对端的交换机，无其他配置会导致链路抖动，需要对端交换机测排查链路抖动问题；