

vPC对象跟踪

目录

[简介](#)

[vPC对象跟踪](#)

[网络图](#)

[基准显示命令](#)

简介

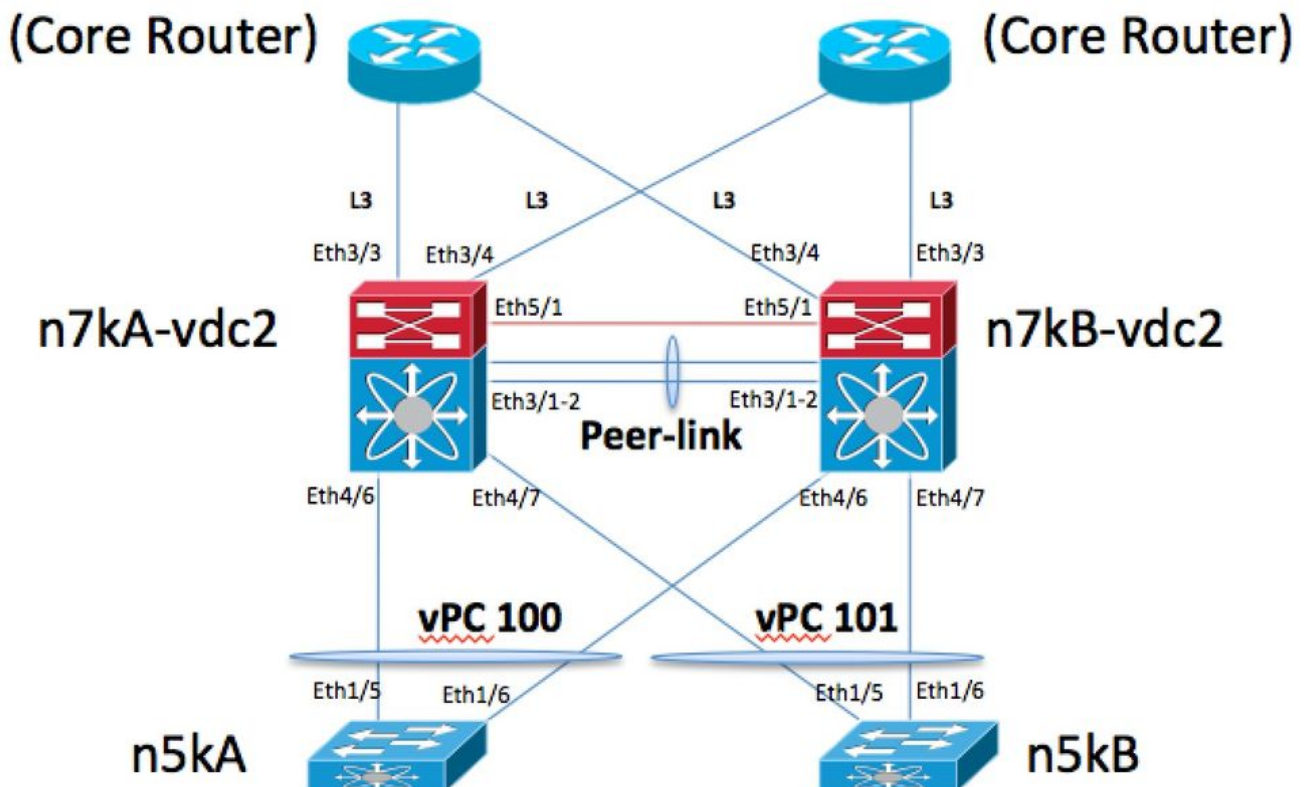
本文描述vPC对象跟踪，为什么使用，并且如何工作。

vPC对象跟踪

网络图

这是用于此演示的网络图：

vPC Object Tracking Topology



vPC对等体链路是1.以太网5/1是vPC对等体保活链路的Port-Channel。有通过在每个N7K方框的L3/30链路e3/3和e3/4连接的两个核心路由器。N5KA和N5KB模拟L2在vPC 100和vPC连接的交换机vPC 101。N7KA是vPC主要设备。

基准显示命令

N7KA :

```
N7KA-vdc2# show run vpc!Command: show running-config vpc!Time: Thu Sep 26 19:51:57 2013version
6.1(4)feature vpcvpc domain 102 peer-keepalive destination 1.1.1.2 source 1.1.1.1 vrf vpc-
keepalive peer-gateway track 1 auto-recoveryinterface port-channell1 vpc peer-linkinterface
port-channell100 vpc 100interface port-channell101 vpc 101N7KA-vdc2# show run track!Command:
show running-config track!Time: Thu Sep 26 19:51:59 2013version 6.1(4)track 1 list boolean or
object 2 object 3 object 4track 2 interface port-channell1 line-protocoltrack 3 interface
Ethernet3/3 line-protocoltrack 4 interface Ethernet3/4 line-protocolN7KA-vdc2# show vpc
briefLegend: (*) - local vPC is down, forwarding via vPC peer-linkvPC domain id
: 102 Peer status : peer adjacency formed ok vPC keep-alive status
: peer is alive Configuration consistency status : success Per-vlan consistency
status : success Type-2 consistency status : success vPC
role : primary Number of vPCs configured
: 2 Track object : 1 Peer Gateway : EnabledPeer
gateway excluded VLANs : -Dual-active excluded VLANs : -Graceful Consistency Check
: EnabledAuto-recovery status : Enabled (timeout = 240 seconds)vPC Peer-link
status-----id Port Status
Active vlans -- ---- -----1 Pol
up 1 vPC status-----
-----id Port Status Consistency Reason
Active vlans-- ---- -----
success success 1 -----100 Po100 up
101 Po101 up success success 1
N7KA-vdc2# show trackTrack 1 List Boolean or Boolean or is UP 2 changes, last change
23:24:08 Track List Members: object 4 UP object 3 UP object 2 UP Tracked by: vPCM
102 Track 2 Interface port-channell1 Line Protocol Line Protocol is UP 1 changes, last change
23:26:59 Tracked by: Track List 1Track 3 Interface Ethernet3/3 Line Protocol Line
Protocol is UP 3 changes, last change 23:26:50 Tracked by: Track List 1Track 4 Interface
Ethernet3/4 Line Protocol Line Protocol is UP 3 changes, last change 23:26:48 Tracked by:
Track List 1N7KA-vdc2#
```

N7KB :

```
N7KB-vdc2# show run vpc!Command: show running-config vpc!Time: Thu Sep 26 19:53:17 2013version
6.1(4)feature vpcvpc domain 102 peer-keepalive destination 1.1.1.1 source 1.1.1.2 vrf vpc-
keepalive peer-gateway track 1 auto-recoveryinterface port-channell1 vpc peer-linkinterface
port-channell100 vpc 100interface port-channell101 vpc 101N7KB-vdc2# show run track!Command:
show running-config track!Time: Thu Sep 26 19:53:20 2013version 6.1(4)track 1 list boolean or
object 2 object 3 object 4track 2 interface port-channell1 line-protocoltrack 3 interface
Ethernet3/3 line-protocoltrack 4 interface Ethernet3/4 line-protocolN7KB-vdc2# show vpc
briefLegend: (*) - local vPC is down, forwarding via vPC peer-linkvPC domain id
: 102 Peer status : peer adjacency formed ok vPC keep-alive status
: peer is alive Configuration consistency status : success Per-vlan consistency
status : success Type-2 consistency status : success vPC
role : secondary Number of vPCs configured
: 2 Track object : 1 Peer Gateway : EnabledPeer
gateway excluded VLANs : -Dual-active excluded VLANs : -Graceful Consistency Check
: EnabledAuto-recovery status : Enabled (timeout = 240 seconds)vPC Peer-link
status-----id Port Status
Active vlans -- ---- -----1 Pol
up 1 vPC status-----
-----id Port Status Consistency Reason
Active vlans-- ---- -----
success success 1 -----100 Po100 up
101 Po101 up success success 1
```

```
N7KB-vdc2# show trackTrack 1 List Boolean or Boolean or is UP 2 changes, last change
23:25:51 Track List Members: object 4 UP object 3 UP object 2 UP Tracked by: vPCM
102 Track 2 Interface port-channell Line Protocol Line Protocol is UP 1 changes, last change
23:29:09 Tracked by: Track List 1Track 3 Interface Ethernet3/3 Line Protocol Line
Protocol is UP 3 changes, last change 23:28:55 Tracked by: Track List 1Track 4 Interface
Ethernet3/4 Line Protocol Line Protocol is UP 3 changes, last change 23:28:56 Tracked by:
Track List 1N7KB-vdc2#
```

vPC对象跟踪用于一个方案例如此。您有用于vPC对等体链路的一个M132模块以及对核心的L3 uplink端口。在您将丢失M132模块由于HW失败的事件您会丢失vPC对等体林克以及L3 uplink端口。如果这是为了发生在vPC附属方框(N7KB)这不是问题，因为可操作的主对等体会接管暂停vPC端口通道和VLAN接口在可操作的第二。问题是一旦可操作的主要设备的(N7KA)—HW失败。如果没有使用对象跟踪我们会暂停所有在N7KB以及VLAN接口的vPC端口通道。对等体链路也发生故障。您不会有一个方式路由核心流量到我们的在此方案的vPC VLAN。

对象跟踪避过此通过减少在可操作主要的vPC，以便我们不进入我们减少VLAN接口和vPC端口通道在方框有剩余的uplink端口对核心的此方案。

使用ethanalyzer，您看到vPC对等体保活消息：

```
N7KA# ethanalyzer local interface inband capture-filter "host 1.1.1.1 and host 1.1.1.2" limit-
captured-frames 4Capturing on inband2013-09-26 20:01:09.629309 1.1.1.2 -> 1.1.1.1 UDP
Source port: 3200 Destination port: 32002013-09-26 20:01:09.954909 1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32002013-09-26 20:01:10.639097 1.1.1.2 -> 1.1.1.1
UDP Source port: 3200 Destination port: 32002013-09-26 20:01:10.954944 1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32004 packets capturedN7KA# N7KB# ethanalyzer local
interface inband capture-filter "host 1.1.1.1 and host 1.1.1.2" limit-captured-frames 4Capturing
on inband2013-09-26 20:00:22.606593 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200
Destination port: 32002013-09-26 20:00:22.922517 1.1.1.1 -> 1.1.1.2 UDP Source port:
3200 Destination port: 32002013-09-26 20:00:23.616427 1.1.1.2 -> 1.1.1.1 UDP Source
port: 3200 Destination port: 32002013-09-26 20:00:23.922557 1.1.1.1 -> 1.1.1.2 UDP
Source port: 3200 Destination port: 32004 packets capturedN7KB#
```

现在您通过供给动力模拟N7KA的模块3失败模块：

```
N7KA# conf tEnter configuration commands, one per line. End with CNTL/Z.N7KA(config)# poweroff
mod 3N7KA(config)# endN7KA#2013 Sep 26 20:03:25 N7KA %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual
power-off of Module 3 from Command Line Interface
```

日志：

N7KA:

```
2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-IF_DOWN_INITIALIZING: Interface port-channell is down
(Initializing)2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-IF_DOWN_MODULE_REMOVED: Interface
Ethernet3/3 is down (module removed)2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-
IF_DOWN_MODULE_REMOVED: Interface Ethernet3/4 is down (module removed)
2013 Sep 26 20:03:28 N7KA-vdc2 %VPC-2-TRACK_INTFS_DOWN: In domain 102, vPC tracked interfaces
down, suspending all vPCs and keep-alive
2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-IF_DOWN_NONE: Interface port-channell01 is down
(None)2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-IF_DOWN_NONE: Interface port-channell00 is down
(None)
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell01: Ethernet4/7 is
down2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell00: Ethernet4/6
is down
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channell01: first
operational port changed from Ethernet4/7 to none2013 Sep 26 20:03:28 N7KA-vdc2
%ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channell00: first operational port changed from
Ethernet4/6 to none
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell: Ethernet3/1 is
down2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell: Ethernet3/2 is
down
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channell: first operational
```

```

port changed from Ethernet3/1 to none2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-
IF_DOWN_PORT_CHANNEL_MEMBERS_DOWN: Interface port-channell1 is down (No operational members)
N7KB:2013 Sep 26 20:02:39 N7KB-vdc2 %ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channell1: first
operational port changed from Ethernet3/1 to none2013 Sep 26 20:02:40 N7KB-vdc2
%ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell1: Ethernet3/2 is down2013 Sep 26 20:02:40 N7KB-vdc2
%ETHPORT-5-IF_DOWN_LINK_FAILURE: Interface Ethernet3/2 is down (Link failure)
2013 Sep 26 20:02:45 N7KB-vdc2 %VPC-2-PEER_KEEP_ALIVE_RECV_FAIL: In domain 102, VPC peer keep-
alive receive has failed
2013 Sep 26 20:02:45 N7KB-vdc2 %ETHPORT-5-IF_DOWN_PORT_CHANNEL_MEMBERS_DOWN: Interface port-
channell1 is down (No operational members)
2013 Sep 26 20:02:45 N7KB-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell1: Ethernet3/1 is
down2013 Sep 26 20:02:45 N7KB-vdc2 %ETHPORT-5-IF_DOWN_LINK_FAILURE: Interface Ethernet3/1 is
down (Link failure)2013 Sep 26 20:02:45 N7KB-vdc2 %ETHPORT-5-IF_DOWN_PORT_CHANNEL_MEMBERS_DOWN:
Interface port-channell1 is down (No operational members)

```

现在您在此状态被留下。 N7KA是vPC主对等体，但是停止发送vPC对等体保活消息到N7KB，以便N7KB不去中止。 N7KB是有uplink端口的唯一的系统。

注意：在N7KB的e3/4连接对在是的N7KA的另一个VDC为什么也断开了。点是您跟踪了接口在N7KB和无在N7KA，因此停止发送消息到在对等体保活链路的N7KB。

Ethalyzer从N7KA输出了：

(公告，在TRACK_INTFS_DOWN Syslog我们不再派遣对等体keepalives对N7KB后，我们从是1.1.1.2)的N7KB只接收他们

```

2013-09-26 20:03:23.684887      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200 Destination port:
32002013-09-26 20:03:23.685766      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200 Destination
port: 3200
2013-09-26 20:03:24.684863 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 32002013-
09-26 20:03:24.685580 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013 Sep 26
20:03:25 N7KA-vdc2 %$ VDC-2 %$ %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of Module 3
from Command Line Interface2013 Sep 26 20:03:25 N7KA %$ VDC-1 %$ %PLATFORM-2-
PFM_MODULE_POWER_OFF: Manual power-off of Module 3 from Command Line Interface2013-09-26
20:03:25.684869 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 32002013-09-26
20:03:25.685771 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:03:26.684835 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 32002013-
09-26 20:03:26.685716 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:03:27.690661 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-
09-26 20:03:27.691367 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 32002013 Sep 26
20:03:28 N7KA-vdc2 %$ VDC-2 %$ %PLATFORM-2-MOD_PWRDN: Module 3 powered down (Serial number
JAF1703ALTD)2013 Sep 26 20:03:28 N7KA %$ VDC-1 %$ %PLATFORM-2-MOD_PWRDN: Module 3 powered down
(Serial number JAF1703ALTD)2013 Sep 26 20:03:28 N7KA-vdc2 %$ VDC-2 %$ %VPC-2-TRACK_INTFS_DOWN:
In domain 102, vPC tracked interfaces down, suspending all vPCs and keep-alive2013-09-26
20:03:28.700594 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-09-26
20:03:29.700538 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-09-26
20:03:30.700603 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-09-26
20:03:31.710665 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-09-26
20:03:32.720601 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-09-26
20:03:33.715295 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-09-26
20:03:34.713112 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-09-26
20:03:35.713177 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200

```

Ethalyzer从N7KB输出了：

```

2013-09-26 20:02:36.651007      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200 Destination port:
32002013-09-26 20:02:36.651534      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200 Destination
port: 32002013-09-26 20:02:37.651053      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200
Destination port: 32002013-09-26 20:02:37.651644      1.1.1.2 -> 1.1.1.1      UDP Source port:
3200 Destination port: 32002013-09-26 20:02:38.650967      1.1.1.1 -> 1.1.1.2      UDP Source
port: 3200 Destination port: 32002013-09-26 20:02:38.651579      1.1.1.2 -> 1.1.1.1      UDP
Source port: 3200 Destination port: 32002013-09-26 20:02:39.656523      1.1.1.2 -> 1.1.1.1

```

```

UDP Source port: 3200 Destination port: 32002013-09-26 20:02:39.657500 1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 3200(Here we stop receiving keepalive messages from
N7KA or 1.1.1.1):2013-09-26 20:02:40.666531 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200
Destination port: 32002013-09-26 20:02:41.666442 1.1.1.2 -> 1.1.1.1 UDP Source port:
3200 Destination port: 32002013-09-26 20:02:42.666479 1.1.1.2 -> 1.1.1.1 UDP Source
port: 3200 Destination port: 32002013-09-26 20:02:43.676461 1.1.1.2 -> 1.1.1.1 UDP
Source port: 3200 Destination port: 32002013-09-26 20:02:44.686478 1.1.1.2 -> 1.1.1.1
UDP Source port: 3200 Destination port: 32002013 Sep 26 20:02:45 N7KB-vdc2 %$ VDC-2 %$ %VPC-2-
PEER_KEEP_ALIVE_RECV_FAIL: In domain 102, VPC peer keep-alive receive has failed2013-09-26
20:02:45.681050 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 32002013-
09-26 20:02:46.678911 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port:
32002013-09-26 20:02:47.678918 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination
port: 32002013-09-26 20:02:48.678961 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200
Destination port: 3200

```

N7KA :

```

N7KA-vdc2# sh vpc briefLegend: (*) - local vPC is down, forwarding via vPC peer-
linkvPC domain id : 102 Peer status : peer link is
down vPC keep-alive status : peer is alive Configuration
consistency status : success Per-vlan consistency status : success
Type-2 consistency status : success vPC role : primary
Number of vPCs configured : 2 Track object : 1 Peer Gateway
: EnabledPeer gateway excluded VLANs : -Dual-active excluded VLANs : -Graceful
Consistency Check : EnabledAuto-recovery status : Enabled (timeout = 240
seconds)vPC Peer-link status-----
-id Port Status Active vlans -- ---- -----
-----1 Po1 down - vPC status---
-----id Port Status
Consistency Reason Active vlans-- ---- -----
-----100 Po100 down success success -
101 Po101 down success success -
N7KA-vdc2# show trackTrack 1 List Boolean or Boolean or is DOWN 3 changes, last change
00:20:50 Track List Members: object 4 DOWN object 3 DOWN object 2 DOWN Tracked by: vPCM
102 Track 2 Interface port-channell1 Line Protocol Line Protocol is DOWN 2 changes, last
change 00:20:50 Tracked by: Track List 1Track 3 Interface Ethernet3/3 Line Protocol Line
Protocol is DOWN 4 changes, last change 00:20:50 Tracked by: Track List 1Track 4
Interface Ethernet3/4 Line Protocol Line Protocol is DOWN 4 changes, last change 00:20:50
Tracked by: Track List 1N7KA-vdc2#

```

N7KB :

```

N7KB-vdc2# sh vpc briefLegend: (*) - local vPC is down, forwarding via vPC peer-
linkvPC domain id : 102 Peer status : peer link is
down vPC keep-alive status : peer is alive Configuration
consistency status : success Per-vlan consistency status : success
Type-2 consistency status : success vPC role : secondary,
operational primaryNumber of vPCs configured : 2 Track object : 1
Peer Gateway : EnabledPeer gateway excluded VLANs : -Dual-active
excluded VLANs : -Graceful Consistency Check : EnabledAuto-recovery status
: Enabled (timeout = 240 seconds)vPC Peer-link status-----
-----id Port Status Active vlans -- ---- -----
-----1 Po1 down - vPC status---
-----id Port
Status Consistency Reason Active vlans-- ---- -----
-----100 Po100 up success success 1
101 Po101 up success success 1
N7KB-vdc2# sh trackTrack 1 List Boolean or Boolean or is UP 2 changes, last change 23:57:10
Track List Members: object 4 DOWN object 3 UP object 2 DOWN Tracked by: vPCM
102 Track 2 Interface port-channell1 Line Protocol Line Protocol is DOWN 2 changes, last
change 00:22:04 Tracked by: Track List 1Track 3 Interface Ethernet3/3 Line Protocol Line
Protocol is UP 3 changes, last change 1d00h Tracked by: Track List 1Track 4 Interface
Ethernet3/4 Line Protocol Line Protocol is DOWN 4 changes, last change 00:22:04 Tracked by:
Track List 1N7KB-vdc2#

```

现在您能恢复设置：

```
N7KA# conf tEnter configuration commands, one per line. End with CNTL/Z.N7KA(config)# no
poweroff mod 3N7KA(config)# endN7KA# 2013 Sep 26 20:26:53 N7KA %PLATFORM-2-PFM_MODULE_POWER_ON:
Manual power-on of Module 3 from Command Line Interface2013 Sep 26 20:26:56 N7KA %PLATFORM-2-
MOD_DETECT: Module 3 detected (Serial number JAF1703ALTD) Module-Type 10 Gbps Ethernet XL Module
Model N7K-M132XP-12L2013 Sep 26 20:26:56 N7KA %PLATFORM-2-MOD_PWRUP: Module 3 powered up (Serial
number JAF1703ALTD)2013 Sep 26 20:26:56 N7KA %PLATFORM-5-MOD_STATUS: Module 3 current-status is
MOD_STATUS_POWERED_UP
```

N7KA：

```
N7KA-vdc2# sh vpc briefLegend: (*) - local vPC is down, forwarding via vPC peer-
linkvPC domain id : 102 Peer status : peer adjacency
formed ok vPC keep-alive status : peer is alive Configuration
consistency status : success Per-vlan consistency status : success
Type-2 consistency status : success vPC role : primary,
operational secondaryNumber of vPCs configured : 2 Track object :
1 Peer Gateway : EnabledPeer gateway excluded VLANs : -Dual-active
excluded VLANs : -Graceful Consistency Check : EnabledAuto-recovery status
: Enabled (timeout = 240 seconds)vPC Peer-link status-----
-----id Port Status Active vlans -- ---- -----
-----1 Po1 up 1
vPC status-----id Port
Status Consistency Reason Active vlans-- ---- -----
-----100 Po100 up success success 1
101 Po101 up success success 1
N7KA-vdc2# sh trackTrack 1 List Boolean or Boolean or is UP 4 changes, last change 00:01:44
Track List Members: object 4 UP object 3 UP object 2 UP Tracked by: vPCM
102 Track 2 Interface port-channell Line Protocol Line Protocol is UP 3 changes, last change
00:01:40 Tracked by: Track List 1Track 3 Interface Ethernet3/3 Line Protocol Line
Protocol is UP 5 changes, last change 00:01:43 Tracked by: Track List 1Track 4 Interface
Ethernet3/4 Line Protocol Line Protocol is UP 5 changes, last change 00:01:44 Tracked by:
Track List 1N7KA-vdc2#
```

N7KB：

```
N7KB-vdc2# sh vpc briefLegend: (*) - local vPC is down, forwarding via vPC peer-
linkvPC domain id : 102 Peer status : peer adjacency
formed ok vPC keep-alive status : peer is alive Configuration
consistency status : success Per-vlan consistency status : success
Type-2 consistency status : success vPC role : secondary,
operational primaryNumber of vPCs configured : 2 Track object : 1
Peer Gateway : EnabledPeer gateway excluded VLANs : -Dual-active
excluded VLANs : -Graceful Consistency Check : EnabledAuto-recovery status
: Enabled (timeout = 240 seconds)vPC Peer-link status-----
-----id Port Status Active vlans -- ---- -----
-----1 Po1 up 1
vPC status-----id Port
Status Consistency Reason Active vlans-- ---- -----
-----100 Po100 up success success 1
101 Po101 up success success 1
N7KB-vdc2# sh trackTrack 1 List Boolean or Boolean or is UP 2 changes, last change 1d00h
Track List Members: object 4 UP object 3 UP object 2 UP Tracked by: vPCM
102 Track 2 Interface port-channell Line Protocol Line Protocol is UP 3 changes, last change
00:02:07 Tracked by: Track List 1Track 3 Interface Ethernet3/3 Line Protocol Line
Protocol is UP 3 changes, last change 1d00h Tracked by: Track List 1Track 4 Interface
Ethernet3/4 Line Protocol Line Protocol is UP 5 changes, last change 00:02:09 Tracked by:
Track List 1N7KB-vdc2#
```

在vPC对等体保活失败的详细信息：

重新运行测验为了发现什么发生与对等体保活链路。

发送双向keepalives -当前一切是上和可操作的 :

2013-09-26 20:32:12.532319 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:12.533083 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:13.532485 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:13.533147 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200

现在再请关闭M132模块3在N7KA :

2013 Sep 26 20:32:14 N7KA %\$ VDC-1 %\$ %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of Module 3 from Command Line Interface
2013 Sep 26 20:32:14 N7KA-vdc3 %\$ VDC-3 %\$ %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of Module 3 from Command Line Interface
2013 Sep 26 20:32:14 N7KA-vdc2 %\$ VDC-2 %\$ %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of Module 3 from Command Line Interface
2013-09-26 20:32:14.532364 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:14.533217 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:15.532453 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:15.533158 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:16.532452 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:16.536224 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013 Sep 26 20:32:17 N7KA %\$ VDC-1 %\$ %PLATFORM-2-MOD_PWRDN: Module 3 powered down (Serial number JAF1703ALTD)
2013 Sep 26 20:32:17 N7KA-vdc3 %\$ VDC-3 %\$ %PLATFORM-2-MOD_PWRDN: Module 3 powered down (Serial number JAF1703ALTD)
2013 Sep 26 20:32:16 N7KA-vdc2 %\$ VDC-2 %\$ %VPC-2-TRACK_INTFS_DOWN: In domain 102, vPC tracked interfaces down, suspending all vPCs and keep-alive
2013 Sep 26 20:32:17 N7KA-vdc2 %\$ VDC-2 %\$ %PLATFORM-2-MOD_PWRDN: Module 3 powered down (Serial number JAF1703ALTD)

现在您看到仅N7KB (1.1.1.2)发送保活信息对N7KA (1.1.1.1) :

2013-09-26 20:32:17.549161 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:18.549352 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:19.549294 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:20.549358 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:21.549303 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:32:22.549991 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200

您看到N7KB的状态显示对等体保活的失败 :

N7KB-vdc2# sh vpc briefLegend: (*) - local vPC is down, forwarding via vPC peer-link
vPC domain id : 102 Peer status : peer link is down
vPC keep-alive status : peer is not reachable through peer-keepalive
Configuration consistency status : success Per-vlan consistency status : success
Type-2 consistency status : success vPC role : secondary, operational primary
Number of vPCs configured : 2 Track object : 1
Peer Gateway : Enabled Peer gateway excluded VLANs : -Dual-active
excluded VLANs : -Graceful Consistency Check : Enabled Auto-recovery status : Enabled (timeout = 240 seconds)
vPC Peer-link status-----
-----id Port Status Active vlans -- ---- -----
-----1 Po1 down -
vPC status-----id Port
Status Consistency Reason Active vlans-- ---- -----
-----100 Po100 up success success 1
101 Po101 up success success 1

现在您开始在短期(90秒)之后再收到保活信息从N7KA :

<snip>2013-09-26 20:33:42.630255 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:33:43.630199 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:33:44.630263 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:33:45.640201 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:33:46.650262 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:33:47.652445 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:33:47.660318 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200

```

UDP Source port: 3200 Destination port: 32002013-09-26 20:33:48.652768 1.1.1.2 -> 1.1.1.1
UDP Source port: 3200 Destination port: 32002013-09-26 20:33:48.653347 1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32002013-09-26 20:33:49.652409 1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32002013-09-26 20:33:49.652705 1.1.1.2 -> 1.1.1.1
UDP Source port: 3200 Destination port: 32002013-09-26 20:33:50.652423 1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32002013-09-26 20:33:50.652773 1.1.1.2 -> 1.1.1.1
UDP Source port: 3200 Destination port: 32002013-09-26 20:33:51.652401 1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32002013-09-26 20:33:51.652839 1.1.1.2 -> 1.1.1.1
UDP Source port: 3200 Destination port: 3200

```

然后您看到N7KB的最新的状态(显示对等体运行) :

```

N7KB-vdc2# sh vpc briefLegend:          (*) - local vPC is down, forwarding via vPC peer-
linkvPC domain id                      : 102 Peer status                : peer link is
down vPC keep-alive status              : peer is alive                    Configuration
consistency status : success Per-vlan consistency status : success
Type-2 consistency status : success vPC role                : secondary,
operational primaryNumber of vPCs configured : 2 Track object                : 1
Peer Gateway          : EnabledPeer gateway excluded VLANs : -Dual-active
excluded VLANs       : -Graceful Consistency Check          : EnabledAuto-recovery status
: Enabled (timeout = 240 seconds)vPC Peer-link status-----
-----id Port Status Active vlans -- ---- -----
-----1 Po1 down -
vPC status-----id Port
Status Consistency Reason Active vlans-- ---- -----
-----100 Po100 up success success 1
101 Po101 up success success 1
N7KB-vdc2#

```