

Suivi d'objets de vpc

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Introduction

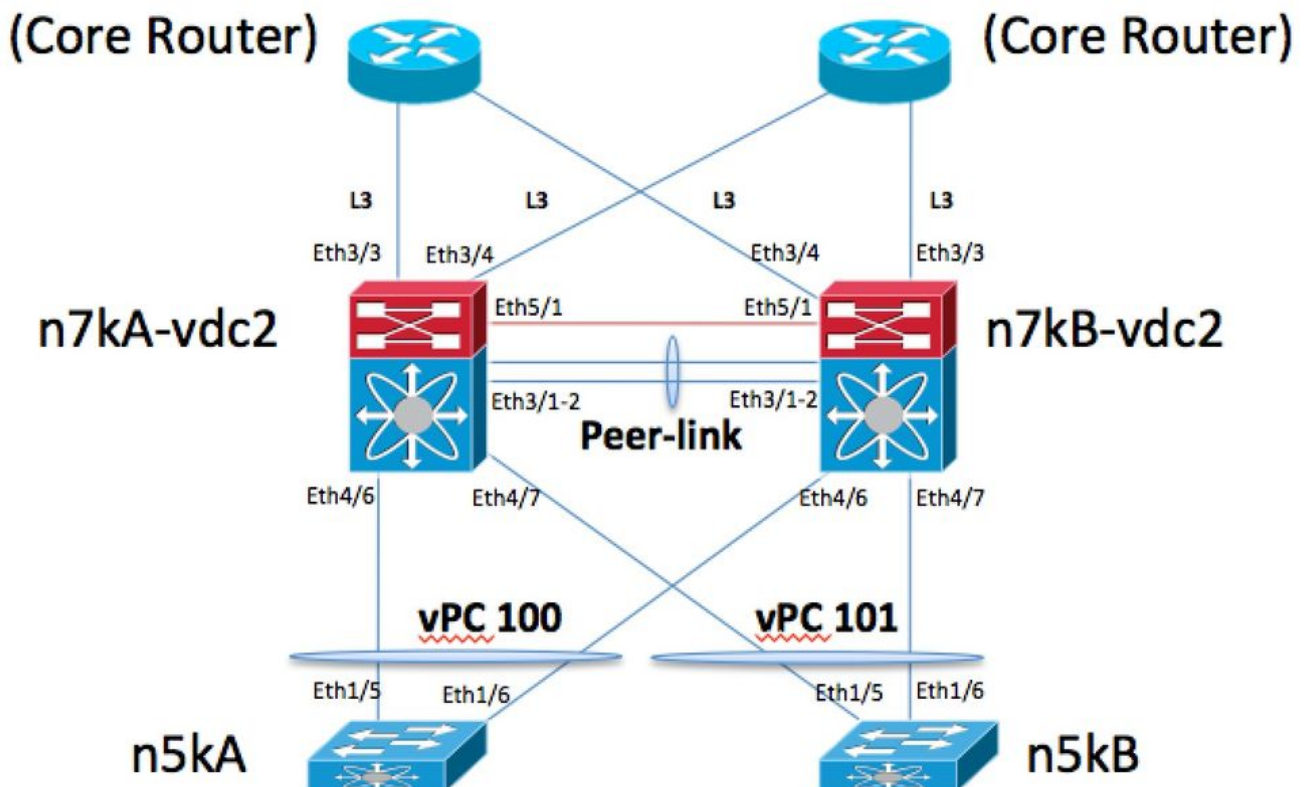
Ce document décrit le Suivi d'objets de vpc, pourquoi il est utilisé, et comment cela fonctionne.

Suivi d'objets de vpc

[Diagramme du réseau](#)

Voici le schéma de réseau utilisé pour cette démonstration :

vPC Object Tracking Topology



Le pair de vpc que le lien est l'Ethernet 5/1 du Port canalisé 1. est le lien de pair-keepalive de vpc. Il y a deux principaux Routeurs qui sont connectés par l'intermédiaire des liens e3/3 et e3/4 L3 /30 sur chaque case N7K. N5KA et N5KB simulent le vpc des Commutateurs L2 connecté sur le vpc 100 et le vpc 101. N7KA est le périphérique maître de vpc.

Commandes show de spécification de base

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-channell 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-channell 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-- ---- -----100 Pol100 up
success success 1
101 Pol101 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-channell 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-channell 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-channell 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-- ---- -----100 Pol100 up
success success 1
```

```

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#

```

le Suivi d'objets de vpc est utilisé dans un scénario de ce type. Vous avez un module M132 utilisé pour le lien de pair de vpc aussi bien que les liaisons ascendantes L3 au noyau. En cas où vous devez perdre le module M132 dû à une panne HW vous perdriez le vpc peer-link aussi bien que les liaisons ascendantes L3. Si c'étaient de se produire sur la case secondaire de vpc (N7KB) ce ne serait pas un problème car le pair primaire opérationnel succéderait interrompre les Ports canalisés de vpc et les interfaces de VLAN sur le secondaire opérationnel. Le problème est dans le cas d'une panne HW sur le périphérique maître opérationnel (N7KA). Si vous n'utilisiez pas le Suivi d'objets nous interromprions tous les Ports canalisés de vpc sur N7KB aussi bien que les interfaces de VLAN. Le lien de pair serait également en baisse. Vous n'auriez pas une manière de conduire le principal trafic dans nos VLAN de vpc dans ce scénario.

Le Suivi d'objets vient à bout ceci en réduisant le vpc sur le primaire opérationnel de sorte que nous n'entrions pas dans ce scénario où nous réduisons les interfaces de VLAN et les Ports canalisés de vpc sur la case qui a les liaisons ascendantes restantes au noyau.

Voici que vous voyez les messages de keepalive de pair de vpc utilisant l'ethalyzer :

```

N7KA# ethalyzer 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# ethalyzer 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#

```

Maintenant vous simulez la panne du module 3 sur N7KA par l'intermédiaire de mettre hors tension le module :

```

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

```

Logs :

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-channell101 is down
(None)2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-IF_DOWN_NONE: Interface port-channell100 is down
(None)
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell101: Ethernet4/7 is
down2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell100: 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-channell is down (No operational members)
N7KB:2013 Sep 26 20:02:39 N7KB-vdc2 %ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channell: first
operational port changed from Ethernet3/1 to none2013 Sep 26 20:02:40 N7KB-vdc2
%ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell: 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-
channell is down (No operational members)
2013 Sep 26 20:02:45 N7KB-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channell: 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-channell is down (No operational members)

```

Maintenant vous êtes laissé dans le cet état. N7KA est le pair primaire de vpc, mais il cesse d'envoyer des messages de keepalive de pair de vpc à N7KB de sorte que N7KB ne disparaisse pas interrompu. N7KB est le seul système qui a des liaisons ascendantes.

Remarque: e3/4 sur N7KB se connecte à un autre volts continu sur N7KA qui est pourquoi il est également descendu. Le point est que vous avez dépisté des interfaces sur N7KB et aucun sur N7KA ainsi il cesse de l'envoyer message à N7KB sur le lien de pair-keepalive.

Ethanalyzer a sorti de N7KA :

(Avis après que le Syslog TRACK_INTFS_DOWN nous n'envoient plus le pair-keepalives à N7KB, nous les recevons seulement de N7KB qui est 1.1.1.2)

```

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 a sorti de N7KB :

2013-09-26 20:02:36.651007 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:36.651534 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:37.651053 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:37.651644 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:38.650967 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:38.651579 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:39.656523 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:39.657500 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:40.666531 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:41.666442 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:42.666479 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:43.676461 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:44.686478 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:45 N7KB-vdc2 %\$ VDC-2 %\$ %VPC-2-PEER_KEEP_ALIVE_RECV_FAIL: In domain 102, VPC peer keep-alive receive has failed
2013-09-26 20:02:45.681050 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:46.678911 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 20:02:47.678918 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
2013-09-26 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-link
vPC 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 : Enabled
Peer gateway excluded VLANs : -Dual-active excluded VLANs : -Graceful
Consistency Check : Enabled Auto-recovery status : Enabled (timeout = 240 seconds)

vPC Peer-link status table with columns: -id, Port, Status, Active vlans, vPC status. Row 1: 1, Pol, down, -, vPC status.

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-channell 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-link
vPC 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 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 table with columns: -id, Port, Status, Active vlans, vPC status. Row 1: 1, Pol, down, -, vPC status.

```

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-channell 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#

```

Maintenant vous pouvez restaurer l'installation :

```

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#

Détails sur la panne de Pair-keepalive de vpc :

Réexécutez le test afin de voir ce qui se produit avec le lien de pair-keepalive.

Envoyez les keepalives bidirectionnel - actuellement tout est haut et opérationnel :

```
2013-09-26 20:32:12.532319      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200 Destination port:
32002013-09-26 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: 32002013-
09-26 20:32:13.533147 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200
```

Maintenant arrêt M132 le module 3 sur N7KA de nouveau :

```
2013 Sep 26 20:32:14 N7KA %$ VDC-1 %$ %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of
Module 3 from Command Line Interface2013 Sep 26 20:32:14 N7KA-vdc3 %$ VDC-3 %$ %PLATFORM-2-
PFM_MODULE_POWER_OFF: Manual power-off of Module 3 from Command Line Interface2013 Sep 26
20:32:14 N7KA-vdc2 %$ VDC-2 %$ %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of Module 3
from Command Line Interface2013-09-26 20:32:14.532364      1.1.1.1 -> 1.1.1.2      UDP Source
port: 3200 Destination port: 32002013-09-26 20:32:14.533217      1.1.1.2 -> 1.1.1.1      UDP
Source port: 3200 Destination port: 32002013-09-26 20:32:15.532453      1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32002013-09-26 20:32:15.533158      1.1.1.2 -> 1.1.1.1
UDP Source port: 3200 Destination port: 32002013-09-26 20:32:16.532452      1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32002013-09-26 20:32:16.536224      1.1.1.2 -> 1.1.1.1
UDP Source port: 3200 Destination port: 32002013 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-alive2013 Sep 26 20:32:17 N7KA-vdc2 %$ VDC-2 %$ %PLATFORM-2-
MOD_PWRDN: Module 3 powered down (Serial number JAF1703ALTD)
```

Maintenant vous voyez que seulement N7KB (1.1.1.2) envoie les messages de keepalive à 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:
32002013-09-26 20:32:18.549352      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200 Destination
port: 32002013-09-26 20:32:19.549294      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200
Destination port: 32002013-09-26 20:32:20.549358      1.1.1.2 -> 1.1.1.1      UDP Source port:
3200 Destination port: 32002013-09-26 20:32:21.549303      1.1.1.2 -> 1.1.1.1      UDP Source
port: 3200 Destination port: 32002013-09-26 20:32:22.549991      1.1.1.2 -> 1.1.1.1      UDP
Source port: 3200 Destination port: 3200
```

Voici que vous voyez que l'état sur N7KB affichant la keepalive de pair a manqué :

```
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 not reachable through peer-
keepaliveConfiguration 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#

Maintenant vous commencez à recevoir des messages de pair-keepalive à partir de N7KA de nouveau après une brève période (90 secondes) :

```
<snip>2013-09-26 20:33:42.630255      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200 Destination
port: 32002013-09-26 20:33:43.630199      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200
Destination port: 32002013-09-26 20:33:44.630263      1.1.1.2 -> 1.1.1.1      UDP Source port:
3200 Destination port: 32002013-09-26 20:33:45.640201      1.1.1.2 -> 1.1.1.1      UDP Source
port: 3200 Destination port: 32002013-09-26 20:33:46.650262      1.1.1.2 -> 1.1.1.1      UDP
Source port: 3200 Destination port: 32002013-09-26 20:33:47.652445      1.1.1.1 -> 1.1.1.2
UDP Source port: 3200 Destination port: 32002013-09-26 20:33:47.660318      1.1.1.2 -> 1.1.1.1
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
```

Alors vous voyez le dernier état sur N7KB (afficher le pair est actif) :

```
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      Pol      down    -
vPC status-----
-----id      Port
Status Consistency Reason          Active vlans--  ----  -----
-----100    Pol100 up      success      success          1
101    Pol101 up      success      success          1
N7KB-vdc2#
```