

# vPC نئاك بقعت

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## قمدق مل

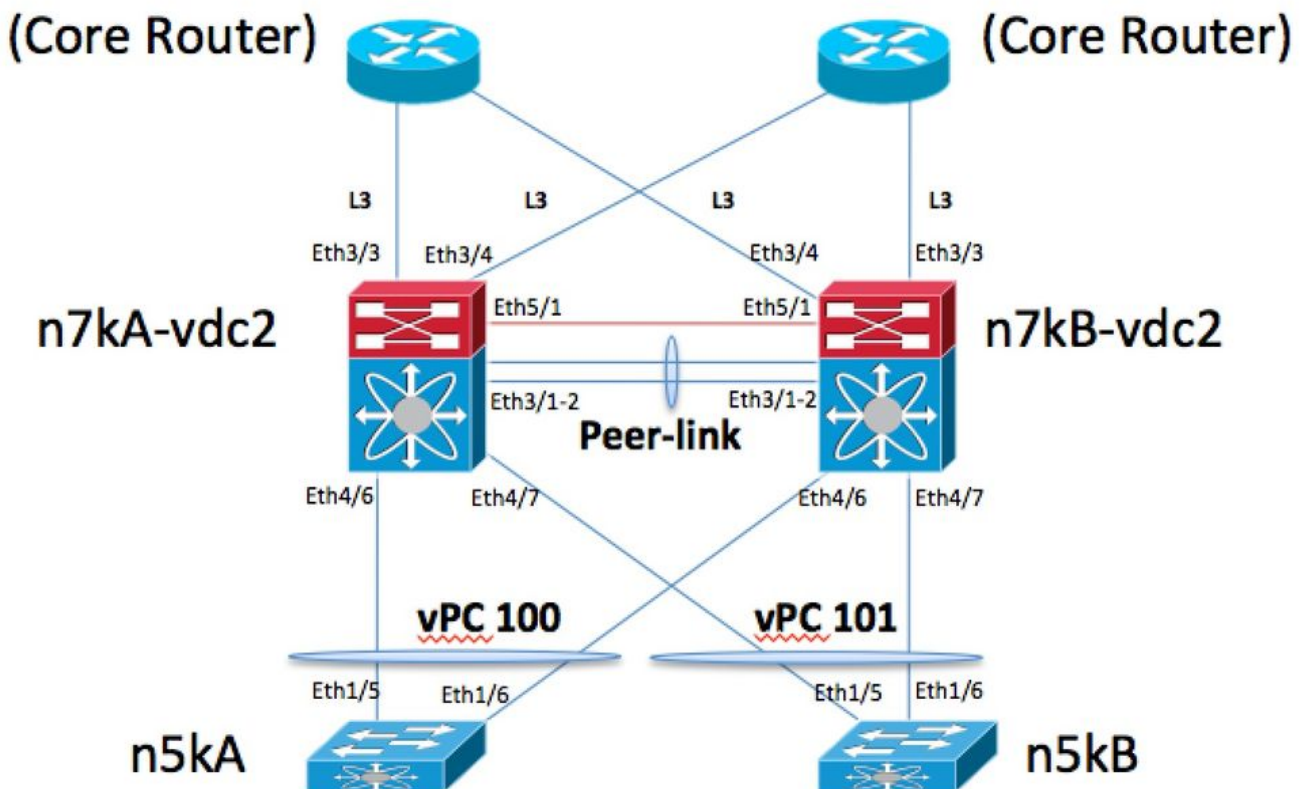
لمعي فيكو، هم ادختسا متي اذاملو، vPC نئاك بقعت دنتمس مل اذه فصوي.

## vPC نئاك بقعت

قك بشلل يطي طختلا مسرلا

يحيضوتلا ضرعلا اذهل مدختسملا قك بشلل يطي طختلا مسرلا يلي امي فو:

# vPC Object Tracking Topology



ب صاخال keepalive ريظن طاابترا وه Ethernet 5/1 دع ت 1. Port-channel وه vPC ريظن طاابترا دع ي قودنص لك ىلع e3/3 و e3/4 ووطخ L3 /30 ربع امهل ي صوت م تي ناي سيئر ناهجوم كانه ه vPC. N7KA و vPC 101 و vPC 100 ىلع ةلصت مل ل2 vPC تال وحم ةاك احم ب N5KA و N5KB موقت . N7KA وه vPC يساسأل زاهاال وه

## يساسأل طخال زاهاال رم اوأ

N7KA:

```
N7KA-vdc2# show run vpc
```

```
!Command: show running-config vpc
!Time: Thu Sep 26 19:51:57 2013
```

```
version 6.1(4)
feature vpc
```

```
vpc domain 102
  peer-keepalive destination 1.1.1.2 source 1.1.1.1 vrf vpc-keepalive
  peer-gateway
  track 1
  auto-recovery
```

```
interface port-channel1
  vpc peer-link
```

```
interface port-channel100
  vpc 100
```

```
interface port-channel101
  vpc 101
```

```
N7KA-vdc2# show run track
```

```
!Command: show running-config track
!Time: Thu Sep 26 19:51:59 2013
```

```
version 6.1(4)
track 1 list boolean or
  object 2
  object 3
  object 4
track 2 interface port-channel1 line-protocol
track 3 interface Ethernet3/3 line-protocol
track 4 interface Ethernet3/4 line-protocol
```

```
N7KA-vdc2# show vpc brief
```

Legend:

(\*) - local vPC is down, forwarding via vPC peer-link

```
vPC 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 : 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   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# show track

Track 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-channel1 Line Protocol  
Line Protocol is UP  
1 changes, last change 23:26:59  
Tracked by:  
Track List 1

Track 3

Interface Ethernet3/3 Line Protocol  
Line Protocol is UP  
3 changes, last change 23:26:50  
Tracked by:  
Track List 1

Track 4

Interface Ethernet3/4 Line Protocol  
Line Protocol is UP  
3 changes, last change 23:26:48  
Tracked by:  
Track List 1

N7KA-vdc2#

**N7KB:**

N7KB-vdc2# show run vpc

!Command: show running-config vpc  
!Time: Thu Sep 26 19:53:17 2013

version 6.1(4)

```

feature vpc

vpc domain 102
  peer-keepalive destination 1.1.1.1 source 1.1.1.2 vrf vpc-keepalive
  peer-gateway
  track 1
  auto-recovery

interface port-channel1
  vpc peer-link

interface port-channel100
  vpc 100

interface port-channel101
  vpc 101

```

N7KB-vdc2# show run track

```

!Command: show running-config track
!Time: Thu Sep 26 19:53:20 2013

```

```

version 6.1(4)
track 1 list boolean or
  object 2
  object 3
  object 4
track 2 interface port-channel1 line-protocol
track 3 interface Ethernet3/3 line-protocol
track 4 interface Ethernet3/4 line-protocol

```

N7KB-vdc2# show vpc brief

Legend:

(\*) - local vPC is down, forwarding via vPC peer-link

```

vPC 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             : 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    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# show track
```

```
Track 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-channel1 Line Protocol
Line Protocol is UP
1 changes, last change 23:29:09
Tracked by:
Track List 1
```

```
Track 3
```

```
Interface Ethernet3/3 Line Protocol
Line Protocol is UP
3 changes, last change 23:28:55
Tracked by:
Track List 1
```

```
Track 4
```

```
Interface Ethernet3/4 Line Protocol
Line Protocol is UP
3 changes, last change 23:28:56
Tracked by:
Track List 1
```

```
N7KB-vdc2#
```

عم مدخستست ةدحاو M132 ةدحو كيدل . اذه لثم وييرانيس في vPC نئاك بقعت مادختسا متي ةيطمنلا ةدحو لا دقف ةلاح في . زكرملا ل3 لالصلو ل ةفاضلا اب vPC ريظن طابترا ثدح اذ . L3 لالصلو ل ةفاضلا اب vPC ريظن طابترا دقتس ، ةزهجال لشف ببسب M132 سيسال ريظنلا نال ارظن ةلكشم كلذ نوكتي نل ، (N7KB) vPC ل يونال ع برملا في كلذ يونال ع برملا في VLAN تاهجاو vPC ذفنم تاونق فاقيا لعل بلغت في دق ليغشتلل مل اذ . (N7KA) ليغشتلل سيسال زاهجال لعل HW لشف ةلاح في ةلكشملا . ليغشتلل تاهجاو ل ةفاضلا اب N7KB لعل vPC ذفنم تاونق عيجم قلعتس ، تانئال بقعت مدخست رورم ةكره هجوتل ةقيرط كيدل نوكت نل . فقوتيس اضيا ريظنلا طابترا ناكو . Vlan وييرانيسلا اذه في انب ةصاخلا VLAN تاكبش ل ةسيسال تانايبال .

سيسال في vPC ضيفخت قيرط نع قبس ام لك لعل لوصحل تانئال عبتت في ذفنم تاونق و VLAN تاهجاو طاقسا متي شيح وييرانيسلا اذه لعل لصل ال تحت ليغشتلل سيسال ل ةقبتملا لالصلو لعل يوتحي يذال ع برملا في vPC .

رزي لاناثي ل مادختساب vPC ريظنلا keepalive لئاسر نورتنه :

```
N7KA# ethanalyzer local interface inband capture-filter "host 1.1.1.1 and host 1.1.1.2" limit-captured-frames 4
```

```
Capturing on inband
```

```
2013-09-26 20:01:09.629309 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 D
estination port: 3200
2013-09-26 20:01:09.954909 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 D
estination port: 3200
2013-09-26 20:01:10.639097 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 D
```

```
estination port: 3200
2013-09-26 20:01:10.954944      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200  D
estination port: 3200
4 packets captured
N7KA#
```

```
N7KB# ethanalyzer local interface inband capture-filter "host 1.1.1.1 and host 1.1.1.2" limit-
captured-frames 4
Capturing on inband
2013-09-26 20:00:22.606593      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200  D
estination port: 3200
2013-09-26 20:00:22.922517      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200  D
estination port: 3200
2013-09-26 20:00:23.616427      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200  D
estination port: 3200
2013-09-26 20:00:23.922557      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200  D
estination port: 3200
4 packets captured
N7KB#
```

ةدحول لايغشت فاقيا قيرط نع N7KA لىع 3 ةدحول لىش ف ةاكاحمب موقت نال

```
N7KA# conf t
Enter configuration commands, one per line.  End with CNTL/Z.
N7KA(config)# poweroff mod 3
N7KA(config)# end
N7KA#
```

```
2013 Sep 26 20:03:25 N7KA %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of Module 3 from
Command Line Interface
```

تالجال:

N7KA:

```
2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-IF_DOWN_INITIALIZING: Interface port-channel1 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-channel101 is down (None)
2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-IF_DOWN_NONE: Interface port-channel100 is down (None)
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channel101: Ethernet4/7 is
down 2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channel100: Ethernet4/6
is down
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channel101: first
operational port changed from Ethernet4/7 to none 2013 Sep 26 20:03:28 N7KA-vdc2
%ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channel100: first operational port changed from
Ethernet4/6 to none
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channel1: Ethernet3/1 is down
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-PORT_DOWN: port-channel1: Ethernet3/2 is down
2013 Sep 26 20:03:28 N7KA-vdc2 %ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channel1: first operational
port changed from Ethernet3/1 to none 2013 Sep 26 20:03:28 N7KA-vdc2 %ETHPORT-5-
IF_DOWN_PORT_CHANNEL_MEMBERS_DOWN: Interface port-channel1 is down (No operational members)
N7KB: 2013 Sep 26 20:02:39 N7KB-vdc2 %ETH_PORT_CHANNEL-5-FOP_CHANGED: port-channel1: first
operational port changed from Ethernet3/1 to none 2013 Sep 26 20:02:40 N7KB-vdc2
%ETH_PORT_CHANNEL-5-PORT_DOWN: port-channel1: Ethernet3/2 is down 2013 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-channel1 is down (No operational members)

2013 Sep 26 20:02:45 N7KB-vdc2 %ETH\_PORT\_CHANNEL-5-PORT\_DOWN: port-channel1: Ethernet3/1 is down

2013 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-channel1 is down (No operational members)

لاسرا نغ فقتو تي هنكلو، vPC يساس الاريظنلا وه N7KA. ةلجالاب ريغ يقب ام وترص ءاله ماظنلا وه N7KB. اتقوم N7KB فاقيا متي ال يتح N7KB لىل vPC ريظنل keepalive لئاسر تالصولىع يوتحي يذلا ديحوللا

لىل يدا يذلا ببسلا وه اذهو، N7KA لىل رخآ VDC ذفنمب N7KB لىل ع3/4 لصتتي: **ةظحال** عيش الو N7KB قوف نراق تعبتت يقلتتي تنأ نأ يه ةطقنلا. اضيا ذفنملا اذه ل طعت ةوطخ peer-keepalive لىل ع N7KB لىل لئاسر لاسرا فقتو وه كلذل N7KA لىل ع

### N7KA: نم رزىلاناثيإل عرځ

نح ن N7KB لىل ريظن تافعضم لسرن دعن مل اننأ TRACK\_INTFS\_DOWN syslog دعب ظحال) 1.1.1.2) وه N7KB نم طقف اهملتسن

```

2013-09-26 20:03:23.684887      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200  Destination port: 3200
2013-09-26 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: 3200 2013-09-26 20:03:24.685580 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200 2013 Sep 26 20:03:25 N7KA-vdc2 %$ VDC-2 %$ %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of Module 3 from Command Line Interface 2013 Sep 26 20:03:25 N7KA %$ VDC-1 %$ %PLATFORM-2-PFM_MODULE_POWER_OFF: Manual power-off of Module 3 from Command Line Interface 2013-09-26 20:03:25.684869 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200 2013-09-26 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: 3200 2013-09-26 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: 3200 2013-09-26 20:03:27.691367 1.1.1.1 -> 1.1.1.2 UDP Source port: 3200 Destination port: 3200 2013 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-alive 2013-09-26 20:03:28.700594 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200 2013-09-26 20:03:29.700538 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200 2013-09-26 20:03:30.700603 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200 2013-09-26 20:03:31.710665 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200 2013-09-26 20:03:32.720601 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200 2013-09-26 20:03:33.715295 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200 2013-09-26 20:03:34.713112 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200 2013-09-26 20:03:35.713177 1.1.1.2 -> 1.1.1.1 UDP Source port: 3200 Destination port: 3200

```

### N7KB: نم رزىلاناثيإل عرځ

```

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

```

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
```

(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:
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 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 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 brief
```

Legend:

(\*) - 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

```
-----
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 track

Track 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 1

Track 3

Interface Ethernet3/3 Line Protocol  
Line Protocol is DOWN  
4 changes, last change 00:20:50

Tracked by:

Track List 1

Track 4

Interface Ethernet3/4 Line Protocol  
Line Protocol is DOWN  
4 changes, last change 00:20:50

Tracked by:

Track List 1

N7KA-vdc2#

**N7KB:**

N7KB-vdc2# sh vpc brief

Legend:

(\*) - 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

```
-----  
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 track

Track 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 1

Track 3

Interface Ethernet3/3 Line Protocol  
Line Protocol is UP  
3 changes, last change 1d00h  
Tracked by:  
Track List 1

Track 4

Interface Ethernet3/4 Line Protocol  
Line Protocol is DOWN  
4 changes, last change 00:22:04  
Tracked by:  
Track List 1

N7KB-vdc2#

دادعإلا ةداعتسا كنكمي نآلا

N7KA# conf t

Enter configuration commands, one per line. End with CNTL/Z.

N7KA(config)# no poweroff mod 3

N7KA(config)# end

N7KA#

2013 Sep 26 20:26:53 N7KA %PLATFORM-2-PFM\_MODULE\_POWER\_ON: Manual power-on of Module 3 from Command Line Interface

2013 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-12L  
2013 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 brief

Legend:

(\*) - local vPC is down, forwarding via vPC peer-link

vPC 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 secondary  
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   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 track

Track 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-channell1 Line Protocol  
Line Protocol is UP  
3 changes, last change 00:01:40

Tracked by:

Track List 1

Track 3

Interface Ethernet3/3 Line Protocol  
Line Protocol is UP

5 changes, last change 00:01:43

Tracked by:

Track List 1

Track 4

Interface Ethernet3/4 Line Protocol

Line Protocol is UP

5 changes, last change 00:01:44

Tracked by:

Track List 1

N7KA-vdc2#

**N7KB:**

N7KB-vdc2# sh vpc brief

Legend:

(\*) - local vPC is down, forwarding via vPC peer-link

```
vPC 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 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    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 track

Track 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-channell1 Line Protocol

Line Protocol is UP

3 changes, last change 00:02:07

Tracked by:

Track List 1

Track 3

Interface Ethernet3/3 Line Protocol

Line Protocol is UP

3 changes, last change 1d00h

Tracked by:

Track List 1

Track 4

Interface Ethernet3/4 Line Protocol

Line Protocol is UP

5 changes, last change 00:02:09

Tracked by:

Track List 1

N7KB-vdc2#

ةيضا رت ف الال رت وي ب م ك الال ةزهجأ ي ف Peer-keepalive ل ش ف لوح ل ي ص ا ف ت :

ن ا ر ق الال ي ل ع ة ب ا ت ك الال ط ا ب ت ر ا ع م ث د ح ي ا م ي ر ت ل ر ا ب ت خ الال ل ي غ ش ت د ع ا

ل ي غ ش ت الال د ي ق ع ي ش ل ك ا ي ل ا ح - ه ا ج ت الال ي ئ ا ن ت ل ك ش ب keepliaives م ز ح ل ا س ر ا

```

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

```

ي ر خ ا ة ر م N7KA ي ل ع 3 M132 ة ي ط م ن الال ة د ح و ل ا ل ي غ ش ت ف ا ق ي ا ب ن الال م ق

```

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)

```

## N7KA (1.1.1.1) إلى keepalive لئاسر لسري (1.1.1.2) طوقف N7KB نأ ىرت تنأ نألا:

```

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

```

## لش ف keepalive ريظنلا رهظي N7KB ىلع ةلودلا ىرت تنأ انه:

```
N7KB-vdc2# sh vpc brief
```

Legend:

(\*) - 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

```

```
N7KB-vdc2#
```

(ةيناث 90) ةزيجو ةرتف دعب ىرخأ ةرم N7KA نم keepalive-ريظن لئاسر يقلت يف نألا أدبت

```

<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

2013-09-26 20:33:48.652768      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200  Destination port:
3200
2013-09-26 20:33:48.653347      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200  Destination port:
3200

2013-09-26 20:33:49.652409      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200  Destination port:
3200
2013-09-26 20:33:49.652705      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200  Destination port:
3200

2013-09-26 20:33:50.652423      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200  Destination port:
3200
2013-09-26 20:33:50.652773      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200  Destination port:
3200

2013-09-26 20:33:51.652401      1.1.1.1 -> 1.1.1.2      UDP Source port: 3200  Destination port:
3200
2013-09-26 20:33:51.652839      1.1.1.2 -> 1.1.1.1      UDP Source port: 3200  Destination port:
3200

```

(يحي ريطنل راهاظ) N7KB ىلع ةريخألا ةلجال ىرت م ث

```
N7KB-vdc2# sh vpc brief
```

Legend:

(\*) - 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

```
-----
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#



ةمچرتل هذه ل و ح

ةلأل تاي نقتل ن م ة و مچ م ادخت ساب دن تسمل اذ ه Cisco ت مچرت  
ملاعلاء ن أ عي مچ ي ف ن ي م دخت سمل ل معد ي و تح م مي دقت ل ة يرش ب ل و  
امك ة ق ي قد ن و ك ت ن ل ة ل أ مچرت ل ض ف أ ن أ ة ظ حال م ي ج ر ي . ة ص ا خ ل م ه ت غ ل ب  
Cisco ي ل خ ت . ف ر ت ح م مچرت م ا ه م د ق ي ي ت ل ا ة ي ف ا ر ت ح ا ل ا ة مچرت ل ا ع م ل ا ح ل ا و ه  
ي ل ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco  
Systems (رف و ت م ط بار ل ا) ي ل ص أ ل ا ي ز ي ل ج ن ا ل ا دن تسمل ا