



Running Configuration:

```
N7K1-my-vdc# show run vpc
<output omitted>
feature vpc

vpc domain 1
peer-keepalive destination 192.168.1.2 source
192.168.1.1 vrf keepalive

interface port-channel10
vpc 10

interface port-channel20
vpc 20

interface port-channel23
vpc peer-link

N7K1-my-vdc# show run int vlan23
<output omitted>
interface Vlan23
no shutdown
vrf member keepalive
ip address 192.168.1.1/24

N7K1-my-vdc# show run int eth1/1
<output omitted>
interface Ethernet1/1
description ***VPC PEER KEEPALIVE LINK***
switchport
switchport access vlan 23
no shutdown

N7K1-my-vdc# show run int po23
<output omitted>
interface port-channel23
description ***VPC PEER LINK***
switchport
switchport mode trunk
switchport trunk allowed vlan 10,20
spanning-tree port type network
vpc peer-link

N7K1-my-vdc# show run int eth1/2
<output omitted>
interface Ethernet1/2
description ***VPC PEER LINK***
switchport
switchport mode trunk
switchport trunk allowed vlan 10,20
channel-group 23 mode active
no shutdown

N7K1-my-vdc# show run int eth1/3
<output omitted>
interface Ethernet1/3
description ***Connected to N5K1***
switchport
switchport mode trunk
switchport trunk allowed vlan 20
channel-group 20 mode active
no shutdown

N7K1-my-vdc# show run int po20
<output omitted>
interface port-channel20
description ***Connected to N5K1***
switchport
switchport mode trunk
switchport trunk allowed vlan 20
vpc 20

N7K1-my-vdc# show run int eth1/4
<output omitted>
interface Ethernet1/4
description ***Connected to N5K2***
switchport
switchport mode trunk
switchport trunk allowed vlan 10
channel-group 20 mode active
no shutdown

N7K1-my-vdc# show run int po10
<output omitted>
interface port-channel10
description ***Connected to N5K2***
switchport
switchport mode trunk
switchport trunk allowed vlan 10
vpc 10

N5K1# show run int eth1/1
<output omitted>
interface Ethernet1/1
description ***Connected to N7K1***
switchport mode trunk
switchport trunk allowed vlan 20
channel-group 20 mode active

N5K1# show run int eth1/2
<output omitted>
interface Ethernet1/2
description ***Connected to N7K2***
switchport mode trunk
switchport trunk allowed vlan 20
channel-group 20 mode active

N5K1# show run int po20
<output omitted>
interface port-channel20
description ***Connected to N7K1/N7K2***
switchport mode trunk
switchport trunk allowed vlan 20
speed 10000
```

Basic Verification Commands:

```
N7K1-my-vdc# ping 192.168.1.2 vrf keepalive
PING 192.168.1.2 (192.168.1.2): 56 data bytes
64 bytes from 192.168.1.2: icmp_seq=0 ttl=254 time=0.971 ms
64 bytes from 192.168.1.2: icmp_seq=1 ttl=254 time=0.901 ms
64 bytes from 192.168.1.2: icmp_seq=2 ttl=254 time=0.779 ms
64 bytes from 192.168.1.2: icmp_seq=3 ttl=254 time=0.786 ms
64 bytes from 192.168.1.2: icmp_seq=4 ttl=254 time=0.787 ms
```

N7K1-my-vdc# show vlan brief

VLAN Name	Status	Ports
1 default	active	
10 VLAN0010	active	Po10, Po23, Eth1/2, Eth1/4
20 VLAN0020	active	Po20, Po23, Eth1/2, Eth1/3
23 keepalive	active	Eth1/1

N7K1-my-vdc# show vpc role

vPC Role status	
vPC role	: primary
vPC system-mac	: 00:23:04:ee:be:01
vPC system-priority	: 32667
vPC local system-mac	: 00:3a:9c:ea:e0:42
vPC local role-priority	: 32667
vPC peer system-mac	: 00:3a:9c:f6:bc:c2
vPC peer role-priority	: 32667

N7K1-my-vdc# show vpc peer-keepalive

vPC keep-alive status	: peer is alive
--Peer is alive for	: (15470) seconds, (513) msec
--Send status	: Success
--Last send at	: 2022.04.27 18:54:13 397 ms
--Sent on interface	: Vlan23
--Receive status	: Success
--Last receive at	: 2022.04.27 18:54:13 398 ms
--Received on interface	: Vlan23
--Last update from peer	: (0) seconds, (37) msec

vPC Keep-alive parameters

--Destination	: 192.168.1.2
--Keepalive interval	: 1000 msec
--Keepalive timeout	: 5 seconds
--Keepalive hold timeout	: 3 seconds
--Keepalive vrf	: keepalive
--Keepalive udp port	: 3200
--Keepalive tos	: 192

N7K1-my-vdc# show vpc

Legend:

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

vPC domain id	: 1
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
Peer Gateway	: Disabled
Dual-active excluded VLANs and BDs	: -
Graceful Consistency Check	: Enabled
Auto-recovery status	: Enabled, timer is off.(timeout = 240s)
Delay-restore orphan ports status	: Timer is off.(timeout = 0s)
Operational Layer3 Peer-router	: Disabled
Self-isolation	: Disabled

vPC Peer-link status

id	Port	Status	Active vlans	Active BDs
1	Po23	up	10,20	-

vPC status	
Id	: 10
Port	: Po10
Status	: up
Consistency	: success
Reason	: success
Active Vlans	: 10
Id	: 20
Port	: Po20
Status	: up
Consistency	: success
Reason	: success
Active Vlans	: 20

N7K1-my-vdc# show vpc consistency-parameters global

STP Port Type, edge	1	Normal, Disabled	Normal, Disabled
BPDUFilter, edge BPDUGuard	1	Disabled	Disabled
STP MST Region Name	1	""	""
STP Disabled	1	None	None
STP Mode	1	Rapid-PVST	Rapid-PVST
STP Bridge Assurance	1	Enabled	Enabled
STP Loopguard	1	Disabled	Disabled
STP MST Region Instance to	1		
VLAN Mapping			
STP MST Region Revision	1	0	0
Interface-vlan admin up	2		
Interface-vlan routing capability	2		
Allowed VLANs	-	10,20	10,20
Local error VLANs	-	-	-

**N7K1-my-vdc# show port-channel summ**

Flags: D - Down    P - Up in port-channel (members)

  J - Individual H - Hot standby (LAG only)

N7K1-my-vdc# show port-channel summ

Flags: D - Down P - Up in port-channel (members)  
I - Individual H - Hot-standby (LACP only)  
s - Suspended r - Module-removed  
b - BFD Session Wait  
S - Switched R - Routed  
U - Up (port-channel)  
M - Not in use. Min-links not met

Group	Port-Channel	Type	Protocol	Member Ports
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10	Po10(SU)	Eth	LACP	Eth1/4(P)
20	Po20(SU)	Eth	LACP	Eth1/3(P)
23	Po23(SU)	Eth	LACP	Eth1/2(P)

N5K1# show vlan brief

VLAN Name	Status	Ports
1 default	active	Eth1/3, Eth1/4, Eth1/5, Eth1/6 Eth1/7, Eth1/8, Eth1/9, Eth1/10 Eth1/11, Eth1/12, Eth1/13 Eth1/14, Eth1/15, Eth1/16 Eth1/17, Eth1/18, Eth1/19 Eth1/20, Eth1/21, Eth1/22 Eth1/23, Eth1/24, Eth1/25 Eth1/26, Eth1/27, Eth1/28 Eth1/29, Eth1/30, Eth1/31 Eth1/32, Eth1/33, Eth1/34 Eth1/35, Eth1/36, Eth1/37 Eth1/38, Eth1/39, Eth1/40 Eth1/41, Eth1/42, Eth1/43 Eth1/44, Eth1/45, Eth1/46 Eth1/47, Eth1/48, Eth2/1, Eth2/2 Eth2/3, Eth2/4, Eth2/5, Eth2/6

N5K1# show port-channel summ

Flags: D - Down P - Up in port-channel (members)  
I - Individual H - Hot-standby (LACP only)  
s - Suspended r - Module-removed  
S - Switched R - Routed  
U - Up (port-channel)  
M - Not in use. Min-links not met

Group	Port-Channel	Type	Protocol	Member Ports
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20	Po20(SU)	Eth	LACP	Eth1/1(P) Eth1/2(P)
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Running Configuration:

```
N7K2-my-vdc# show run vpc
<output omitted>
feature vpc

vpc domain 1
peer-keepalive destination 192.168.1.1 source
192.168.1.2 vrf keepalive

interface port-channel10
vpc 10

interface port-channel20
vpc 20

interface port-channel23
vpc peer-link

N7K2-my-vdc# show run int vlan23
<output omitted>
interface Vlan23
no shutdown
vrf member keepalive
ip address 192.168.1.2/24

N7K2-my-vdc# show run int eth1/1
<output omitted>
interface Ethernet1/1
description ***VPC PEER KEEPALIVE LINK***
switchport
switchport access vlan 23
no shutdown

N7K2-my-vdc# show run int po23
<output omitted>
interface port-channel23
description ***VPC PEER LINK***
switchport
switchport mode trunk
switchport trunk allowed vlan 10,20
spanning-tree port type network
vpc peer-link

N7K2-my-vdc# show run int eth1/2
<output omitted>
interface Ethernet1/2
description ***VPC PEER LINK***
switchport
switchport mode trunk
switchport trunk allowed vlan 10,20
channel-group 23 mode active
no shutdown

N7K2-my-vdc# show run int eth1/3
<output omitted>
interface Ethernet1/3
description ***Connected to N5K1***
switchport
switchport mode trunk
switchport trunk allowed vlan 20
channel-group 20 mode active
no shutdown

N7K2-my-vdc# show run int po20
<output omitted>
interface port-channel20
description ***Connected to N5K1***
switchport
switchport mode trunk
switchport trunk allowed vlan 20
vpc 20

N7K2-my-vdc# show run int eth1/4
<output omitted>
interface Ethernet1/4
description ***Connected to N5K2***
switchport
switchport mode trunk
switchport trunk allowed vlan 10
channel-group 10 mode active
no shutdown

N7K2-my-vdc# show run int po10
<output omitted>
interface port-channel10
description ***Connected to N5K2***
switchport
switchport mode trunk
switchport trunk allowed vlan 10
vpc 10

N5K2# show run int eth1/1
<output omitted>
interface Ethernet1/1
description ***Connected to N7K1***
switchport mode trunk
switchport trunk allowed vlan 10
channel-group 10 mode active

N5K2# show run int eth1/2
<output omitted>
interface Ethernet1/2
description ***Connected to N7K2***
switchport mode trunk
switchport trunk allowed vlan 10
channel-group 10 mode active

N5K2# show run int po10
<output omitted>
interface port-channel10
description ***Connected to N7K1/N7K2***
switchport mode trunk
switchport trunk allowed vlan 10
speed 10000
```

Basic Verification Commands:

```
N7K2-my-vdc# ping 192.168.1.1 vrf keepalive
PING 192.168.1.1 (192.168.1.1): 56 data bytes
64 bytes from 192.168.1.1: icmp_seq=0 ttl=254 time=1.082 ms
64 bytes from 192.168.1.1: icmp_seq=1 ttl=254 time=0.74 ms
64 bytes from 192.168.1.1: icmp_seq=2 ttl=254 time=0.779 ms
64 bytes from 192.168.1.1: icmp_seq=3 ttl=254 time=0.587 ms
64 bytes from 192.168.1.1: icmp_seq=4 ttl=254 time=0.792 ms
```

N7K2-my-vdc# show vlan brief

VLAN Name	Status	Ports
1 default	active	
10 VLAN0010	active	Po10, Po23, Eth1/2, Eth1/4
20 VLAN0020	active	Po20, Po23, Eth1/2, Eth1/3
23 keepalive	active	Eth1/1

N7K2-my-vdc# show vpc role

vPC Role status	
vPC role	: secondary
vPC system-mac	: 00:23:04:ee:be:01
vPC system-priority	: 32667
vPC local system-mac	: 00:3a:9c:f6:bc:c2
vPC local role-priority	: 32667
vPC peer system-mac	: 00:3a:9c:ea:e0:42
vPC peer role-priority	: 32667

N7K2-my-vdc# show vpc peer-keepalive

vPC keep-alive status	: peer is alive
--Peer is alive for	: (16558) seconds, (740) msec
--Send status	: Success
--Last send at	: 2022.04.27 19:12:33 83 ms
--Sent on interface	: Vlan23
--Receive status	: Success
--Last receive at	: 2022.04.27 19:12:33 84 ms
--Received on interface	: Vlan23
--Last update from peer	: (0) seconds, (164) msec

vPC Keep-alive parameters

--Destination	: 192.168.1.1
--Keepalive interval	: 1000 msec
--Keepalive timeout	: 5 seconds
--Keepalive hold timeout	: 3 seconds
--Keepalive vrf	: keepalive
--Keepalive udp port	: 3200
--Keepalive tos	: 192

N7K2-my-vdc# show vpc

Legend:

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

vPC domain id	: 1
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
Peer Gateway	: Disabled
Dual-active excluded VLANs and BDs	: -
Graceful Consistency Check	: Enabled
Auto-recovery status	: Enabled, timer is off.(timeout = 240s)
Delay-restore orphan ports status	: Timer is off.(timeout = 0s)
Operational Layer3 Peer-router	: Disabled
Self-isolation	: Disabled

vPC Peer-link status

id	Port	Status	Active vlans	Active BDs
1	Po23	up	10,20	-

vPC status	
Id	: 10
Port	: Po10
Status	: up
Consistency	: success
Reason	: success
Active Vlans	: 10
Id	: 20
Port	: Po20
Status	: up
Consistency	: success
Reason	: success
Active Vlans	: 20

N7K2-my-vdc# show vpc consistency-parameters global

STP Port Type, Edge	1	Normal, Disabled	Normal, Disabled
BPDUFilter, Edge BPDUGuard	1	Disabled	Disabled
STP MST Region Name	1	""	""
STP Disabled	1	None	None
STP Mode	1	Rapid-PVST	Rapid-PVST
STP Bridge Assurance	1	Enabled	Enabled
STP Loopguard	1	Disabled	Disabled
STP MST Region Instance to	1	Disabled	Disabled
VLAN Mapping			
STP MST Region Revision	1	0	0
Interface-vlan admin up	2		
Interface-vlan routing capability	2		
Allowed VLANs	-	10,20	10,20
Local error VLANs	-	-	-

**N7K2-my-vdc# show port-channel summ**

Flags: D - Down    P - Up in port-channel (members)

  L - Individual H - Hot-standby (LACP only)

N7K2-my-vdc# show port-channel summ

Flags: D - Down P - Up in port-channel (members)  
I - Individual H - Hot-standby (LACP only)  
s - Suspended r - Module-removed  
b - BFD Session Wait  
S - Switched R - Routed  
U - Up (port-channel)  
M - Not in use. Min-links not met

Group	Port-Channel	Type	Protocol	Member Ports
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10	Po10(SU)	Eth	LACP	Eth1/4(P)
20	Po20(SU)	Eth	LACP	Eth1/3(P)
23	Po23(SU)	Eth	LACP	Eth1/2(P)

N5K2# show vlan brief

VLAN Name	Status	Ports
1 default	active	Eth1/3, Eth1/4, Eth1/5, Eth1/6 Eth1/7, Eth1/8, Eth1/9, Eth1/10 Eth1/11, Eth1/12, Eth1/13 Eth1/14, Eth1/15, Eth1/16 Eth1/17, Eth1/18, Eth1/19 Eth1/20, Eth1/21, Eth1/22 Eth1/23, Eth1/24, Eth1/25 Eth1/26, Eth1/27, Eth1/28 Eth1/29, Eth1/30, Eth1/31 Eth1/32, Eth1/33, Eth1/34 Eth1/35, Eth1/36, Eth1/37 Eth1/38, Eth1/39, Eth1/40 Eth1/41, Eth1/42, Eth1/43 Eth1/44, Eth1/45, Eth1/46 Eth1/47, Eth1/48, Eth2/1, Eth2/2 Eth2/3, Eth2/4, Eth2/5, Eth2/6

N5K2# show port-channel summ

Flags: D - Down P - Up in port-channel (members)  
I - Individual H - Hot-standby (LACP only)  
s - Suspended r - Module-removed  
S - Switched R - Routed  
U - Up (port-channel)  
M - Not in use. Min-links not met

Group	Port-Channel	Type	Protocol	Member Ports
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10	Po10(SU)	Eth	LACP	Eth1/1(P) Eth1/2(P)
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