

Ports and Port Channel Commands

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hostaction pnic-breakout

To change the PNIC mode from 2x40G to 4x10G or from 4x10G to 2x40G, use the **hostaction pnic-breakout device** command in privileged EXEC mode.

hostaction pnic-breakout device number mode pnic mode

Syntax Description

pnic-breakout	Changes the PNIC mode from 2x40G to 4x10G or vice-versa.
device number	Specifies the number of devices on which the mode must be changed.
mode pnic mode	Specifies the desired PNIC mode (4x10 or 2x40).

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
4.7.1	This command was introduced.

Example

nfvis# hostaction pnic-breakout device 1 mode 4x10

Warning: Will reboot the system after the mode is changed on the 40G PNIC. All PNIC configuration like adminstatus, duplex, lldp, promiscuous, speed, sriov, track-state will be lost and set to default.

Are you sure you want to perform the PNIC breakout? [no,yes] yes

System message at 2021-06-02 21:15:36... Commit performed ny via tcp using system.

Broadcast message from root@nfvis (Wed 2021-06-02 21:15:36 UTC):

The system is going down for reboot at Wed 2021-06-02 21:16:36 UTC!

hostaction pnic-breakout force

To forcefully breakout from 2x40G mode to 4x10G mode or vice-versa, use the **hostaction pnic-breakout force** command in privileged EXEC mode. This command is used exclusively for return merchandise authorization (RMA) cases.

hostaction pnic-breakout force device number mode pnic mode

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pnic-breakout	Changes the PNIC mode from 2x40G to 4x10G or vice-versa.
force	Forces the PNIC mode change.
device number	Specifies the number of devices on which the mode must be changed.
mode pnic mode	Specifies the desired PNIC mode (2x40 or 4x10).

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
4.7.1	This command was introduced.

Example

nfvis# hostaction pnic-breakout force device 1 mode 4x10

Warning: Will reboot the system after the mode is changed on the 40G PNIC. All PNIC configuration like adminstatus, duplex, lldp, promiscuous, speed, sriov, track-state will be lost and set to default.

Are you sure you want to perform the PNIC breakout? [no,yes] yes

Broadcast message from root@nfvis (Wed 2021-06-02 21:38:53 UTC):

The system is going down for reboot at Wed 2021-06-02 21:39:53 UTC!

pnic

To modify the configuration of an Ethernet port or to create a port channel, use the **pnic** command. To set an Ethernet port to its default settings or to delete a port channel, use the **no** form of the command.

no pnic name [adminstatus] [type] [bond_mode] [lacp_type] [lldp] [member_of portchannel_name]

Syntax Description

name	Specifies the name of the port.		
adminstatus	Brings a port up or down administratively. Valid values are up and down .		
	Note adminstatus is not supported on port channel.		
type	Specifies the type of the port. Valid values are ethernet and port_channel . To create a port channel, you must specify the value as port_channel .		
bond_mode	Specifies the bond mode for a port channel. Valid values are active-backup , balance-slb , and balance-tcp . Default is balance-tcp .		
lacp_type	Specifies the LACP type for a port channel. Valid values are off , active , and passive . Default is off .		
member_of portchannel_name	Adds the port to the specified port channel.		
trunks vlan_num	Specifies the VLANs. Valid range is from 1 to 4096. Default is VLAN 1. Enter VLANs separated by commas, VLAN ranges separated by dashes, or a combination of both.		
lldp	Enables or disables LLDP on a port. Valid values are enable and disable . Default is disable .		
	Note lldp is not supported on port channel.		

Command Default

None

Command Modes

Global configuration (config)

Command History

Release	Modification
3.7.1	This command was introduced.

Example

```
nfvis# config
nfvis(config)# pnic pc type port_channel
nfvis(config-pnic-pc)# commit
nfvis(config-pnic-pc)# end
```

```
nfvis# config
nfvis(config)# no pnic eth2 member_of pc
nfvis(config-pnic-eth2)# commit
nfvis(config-pnic-eth2)# end
```

show nic

To display the various NIC cards inserted in the CSP device, use the **show nic** command in privileged EXEC mode.

show nic

Syntax Description

This command has no keywords or arguments.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification		
471	This command was		

.1 This command was introduced.

nfvis# SLOTID	show nic ADAPTER	VENDO	OR DEV	ID MO	DE DEV	VNO PNICS
1	Intel X520 dual port adapter	8086	10fb	NA	NA	['eth1-1', 'eth1-2']
3 'eth3	<pre>Intel X710-DA4 Quad Port 10Gb SFP+ -3', 'eth3-4'] converged NIC</pre>	8086	1572	NA	NA	['eth3-1', 'eth3-2',
2	Intel XL710-QDA2 Dual Port 40Gb	8086	1583	2x40	1	['eth2-1', 'eth2-2']
	QSFP converged NIC					
5 !e+h5	<pre>Intel i350 Quad Port 1Gb Adapter -3', 'eth5-4']</pre>	8086	1521	NA	NA	['eth5-1', 'eth5-2',
4	Intel X520 dual port adapter	8086	10fb	NA	NA	['eth4-1', 'eth4-2']
6	Intel X520 dual port adapter	8086	10fb	NA	NA	['eth6-1', 'eth6-2']

show pnic

To display all statistics or only specific information about a port or all ports, use the **show pnic** command in privileged EXEC mode.

show pnic [name] [adminstatus | link_state | mac_address | mtu | operational-speed | passthrough | pch_state | refcnt | speed | sriov_intf | stats]

Syntax Description

name	Specifies the name of the port for which the information is displayed.		
adminstatus	Displays the up or down status.		
link_state	Displays the link state.		
mac_address	Displays the MAC address.		
mtu	Displays the maximum transmission unit (MTU) size.		
operational-speed	Displays the operational speed.		
passthrough	Displays the passthrough mode.		
pch_state	Displays the port channel state.		
refcnt	Displays the reference count.		
speed	Displays the interface speed.		
sriov_intf	Displays the SRIOV interface.		
stats	Displays the statistics.		

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
3.7.1	This command was introduced.

nfvis#	show	pnic
--------	------	------

Name	Link	Admir	i M'I'U	Mac	Passthroug	gn Speed	Op-speed	КX
Bytes	Packets	Erro	ors Dro	pped Mbps	Broadcast Multica	st TX Bytes	Packet	s
Errors	Dropped	Collis	sions Mbp	s Broadcast	Multicast			
eth0	up	up	9000	d8:b1:90:f	f:f5:88 none	1G	1000	
1469476983	17749	9881 0)	0	14156964	2888574	198310581	
272571	0	0					40	
68440								
eth1	up	up	9000	d8:b1:90:f	f:f5:89 none	1G	1000	

19826137 0		329353 0	3	0	0	0		325498	418017	9	2	27586
0		275	586									
eth2		down	up	9000	d8:	:b1:90:ff:d8:3c	none		1G	0		0
	0		0	0		0	0		0		0	
0	0											
				0		0						
eth3		down	up	9000	d8:	:b1:90:ff:d8:3d	none		1G	0		0
	0		0	0		0	0		0		0	
0	0											
				0		0						
eth4		down	up	9000	d8:	:b1:90:ff:d8:3e	none		1G	0		0
	0		0	0		0	0		0		0	
0	0											
				0		0						
eth5		down	up	9000	d8:	:b1:90:ff:d8:3f	none		1G	0		0
	0		0	0		0	0		0		0	
0	0											
				0		0						

Example

nfvis Name		Rx		Packets Dropped		-		Broadcas st Multicas		st TX Bytes
eth0	272603	14	69743586 0	17753343 0	0	0	40	14159834 68450	2889066	198318715
eth1		19	830637	329428	0	0		0	325573	4181034
	27591		0	0			0	27591		
eth2		0		0	0	0		0	0	0
	0		0	0			0	0		
eth3		0		0	0	0		0	0	0
	0		0	0			0	0		
eth4		0		0	0	0		0	0	0
	0		0	0			0	0		
eth5		0		0	0	0		0	0	0
	0		0	0			0	0		
	0									

```
nfvis# show pnic eth1 stats
stats receive bytes 19862257
stats receive packets 329955
stats receive errors 0
stats receive dropped 0
stats receive broadcast 0
stats receive multicast 326100
stats transmit bytes 4187361
stats transmit packets 27628
stats transmit errors 0
stats transmit dropped 0
stats transmit broadcast 0
stats transmit multicast 27628
```

show pnic-breakout

To display the 40G NIC mode and adapter information, use the **show pnic-breakout** command in privileged EXEC mode.

show pnic-breakout

Syntax Description

This command has no keywords or arguments.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
4.7.1	This command was
	introduced.

nfvis#	show	pnic-br	eakout						
DEVNO	PCI	VENDOR	DEVID	ADAPTER				MODE	PNICS
1 'eth2-		8086	1583	Cisco(R)	Ethernet	Converged NI	C XL710-QDA2	2x40	['eth2-1',

show port-channel

To show configured port channels, use the **show port-channel** command in privileged EXEC mode.

show port-channel

Syntax Description

This command has no keywords or parameters.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release Modification

3.7.1 This command was introduced.

```
nfvis# show port-channel
--- bondtrue ---
bond_mode: active-backup
bond may use recirculation: no, Recirc-ID : -1
bond-hash-basis: 0
updelay: 0 ms
downdelay: 0 ms
lacp_status: off
active slave mac: 00:00:00:00:00:00(none)

slave eth1: disabled
   may_enable: false

slave eth2: disabled
   may enable: false
```

show IIdp stats

To display LLDP statistics, use the **show lldp stats** command in privileged EXEC mode.

show lldp stats

Syntax Description

This command has no arguments or keywords.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release	Modification
3.7.1	This command was introduced.

nfvis	# show l	ldp stats					
TX	DISCA	RD ERROR	RX	DISCA	RDED UNREC		
NAME	FRAMES	RX	RX	FRAMES	TLVS	TLVS	AGEOUTS
eth0	23	0	0	19667	0	0	0
eth1	0	0	0	0	0	0	0
eth2	0	0	0	0	0	0	0
eth3	0	0	0	0	0	0	0
eth4	0	0	0	0	0	0	0
eth5	0	0	0	0	0	0	0

show IIdp neighbors

To display information about LLDP neighbors, use the **show lldp neighbors** command in privileged EXEC mode.

show lldp neighbors

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Syntax	HACC	rir	ntini
OVIILUA	DUSU		JUVI

This command has no arguments or keywords.

Command Default

None

Command Modes

Privileged EXEC (#)

Command History

Release Modification

3.7.1 This command was introduced.

nfvis NAME	# show lldp : DEVICE ID	neighbors HOLDTIME	CAPS	PLATFORM	PORTID	DESCRIPTION
eth0 (CAT	Switch1623 3K CAA-UNIVE		Bridge, Router	Cisco IOS Softw	vare, Catalyst L3	Switch Software
Versi	on 15.0(1)EX	3, RELEASE	SOFTWARE (fc2)		Ifname: Gi1/0/4	
Gigab	itEthernet1/	0/4				
eth1	None	0	None	None	None	None
eth2	None	0	None	None	None	None
eth3	None	0	None	None	None	None
eth4	None	0	None	None	None	None
eth5	None	0	None	None	None	None