

Create Port Groups

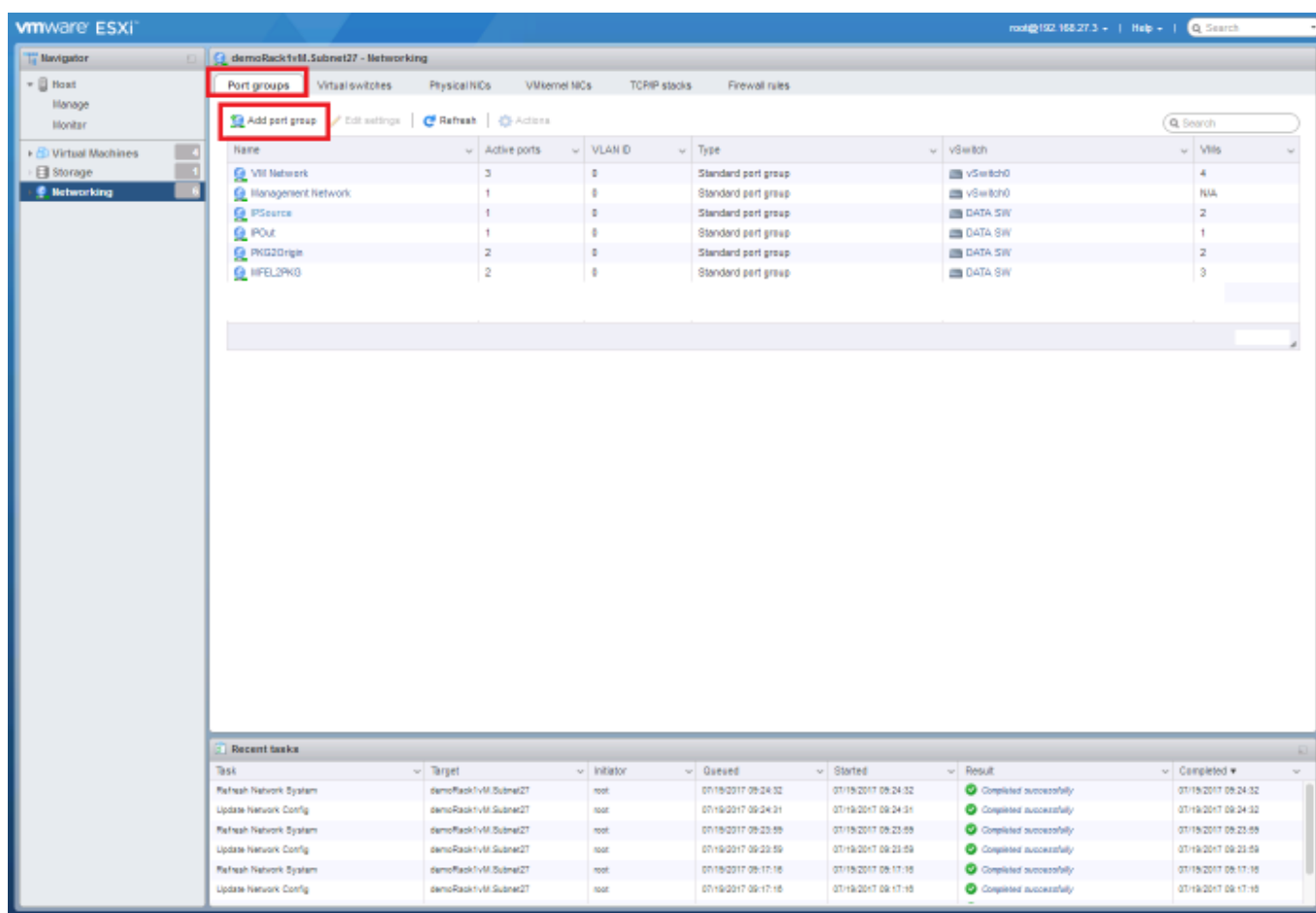
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What is a Port Group in VMWare

To be able to complete this section, you need to have created a vSwitch, if you have not done this then you can look [here](#) for information on how to create a vSwitch.

A Port Group contains one or more interfaces from Virtual Machines. A Port Group is created and assigned to a Virtual Switch (vSwitch). This then maps a Port Group to a Physical Interface via a vSwitch (you can't directly map Port Groups to Physical Interfaces).

Log in to the ESXi Web GUI, on the left hand pane select **Networking**.



Name	Active ports	VLAN ID	Type	vSwitch	Vlans
Virt Network	3	0	Standard port group	vSwitch0	4
Management Network	1	0	Standard port group	vSwitch0	N/A
IPSource	1	0	Standard port group	DATA SW	2
IPOut	1	0	Standard port group	DATA SW	1
PKG2Orig	2	0	Standard port group	DATA SW	2
MFEL2PK0	2	0	Standard port group	DATA SW	3

At the top of the page, select **Port Groups** and then select **Add port group**.

The Add port group page will open.

Add port group - Ingress

Name:

VLAN ID:

Virtual switch:

Security: [Click to expand](#)

Add **Cancel**

We need to enter some information here:

Name: A name for the Port Group. I have used Ingress (and Egress for a second Port Group)

VLAN ID: Unless you have a good reason, leave this as 0 (default)

Virtual Switch: This is the vSwitch you wish to assign this port group to, use the vSwitch you created earlier.

Security: Unless you have a good reason, leave this as default

Create a second **Port Group** (Egress).

You will now be able to see both the **Port Groups** you created.

Port groups

Name	Active ports	VLAN ID	Type	vSwitch	Vlans
VM Network	3	0	Standard port group	vSwitch0	4
Management Network	1	0	Standard port group	vSwitch0	N/A
IPSource	1	0	Standard port group	DATA_SW	2
IPOut	1	0	Standard port group	DATA_SW	1
PKIX2Drift	2	0	Standard port group	DATA_SW	2
IPX2Drift	2	0	Standard port group	DATA_SW	2
Egress	0	0	Standard port group	Data_Network	0
Ingress	0	0	Standard port group	Data_Network	0

Recent tasks

Task	Target	Initiator	Queued	Started	Result	Completed
Refresh Network System	demoRack1vM.Subnet27	root	01/19/2017 09:24:32	01/19/2017 09:24:32	Completed successfully	01/19/2017 09:24:32
Update Network Config	demoRack1vM.Subnet27	root	01/19/2017 09:24:31	01/19/2017 09:24:31	Completed successfully	01/19/2017 09:24:32
Refresh Network System	demoRack1vM.Subnet27	root	01/19/2017 09:23:59	01/19/2017 09:23:59	Completed successfully	01/19/2017 09:23:59
Update Network Config	demoRack1vM.Subnet27	root	01/19/2017 09:23:59	01/19/2017 09:23:59	Completed successfully	01/19/2017 09:23:59
Refresh Network System	demoRack1vM.Subnet27	root	01/19/2017 09:17:16	01/19/2017 09:17:16	Completed successfully	01/19/2017 09:17:16
Update Network Config	demoRack1vM.Subnet27	root	01/19/2017 09:17:16	01/19/2017 09:17:16	Completed successfully	01/19/2017 09:17:16

At the top of the **Networking** page, click **Virtual Switches**.

The screenshot shows the VMware ESXi Networking interface for a host named 'demoRack1vM.Subnet27'. The 'Port groups' tab is selected, displaying a table of port groups. A red rectangle highlights the 'Data_Network' port group, which is assigned to port group 0 and has 1 uplink. The table also shows 'vSwitch0' assigned to port group 2 and 1 uplink.

Name	Port groups	Uplinks	Type
vSwitch0	2	1	Standard vSwitch
Data_Network	0	1	Standard vSwitch

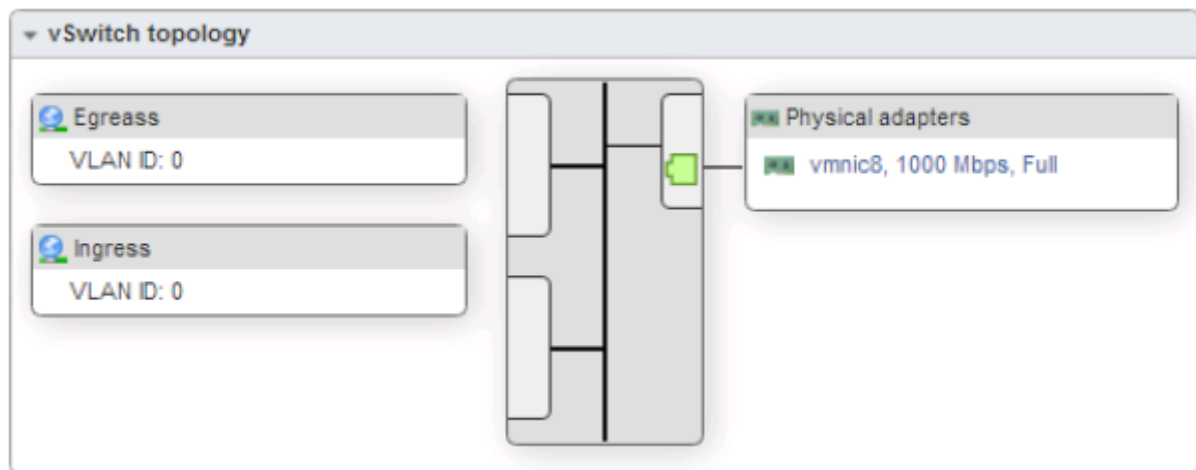
Below the table, the 'Recent tasks' section shows a list of tasks with their status and completion times.

Task	Target	Initiator	Queued	Started	Result	Completed
Refresh Network System	demoRack1vM.Subnet27	root	07/19/2017 09:17:16	07/19/2017 09:17:16	Completed successfully	07/19/2017 09:17:16
Update Network Config	demoRack1vM.Subnet27	root	07/19/2017 09:17:16	07/19/2017 09:17:16	Completed successfully	07/19/2017 09:17:16
Power On VM	MPQL_7	root	07/19/2017 09:08:02	07/19/2017 09:08:02	Completed successfully	07/19/2017 09:08:04
Reconfig VM	MPQL_7	root	07/19/2017 09:08:45	07/19/2017 09:08:45	Failed - There are insufficient licenses to comp...	07/19/2017 09:08:48

Click on the vSwitch you assigned the Port Groups to.

The screenshot shows the configuration page for the 'Data_Network' vSwitch. The 'vSwitch Details' section shows the MTU (1500), Ports (3152), Link discovery (Listen / Cisco discovery protocol (CDP)), Attached VMs (0), and Beacon interval (1). The 'NIC teaming policy' section shows 'Notify switches' (Yes), 'Policy' (Route based on originating port ID), 'Reverse policy' (Yes), and 'Rerouting order' (No). The 'Security policy' section shows 'Allow promiscuous mode' (No), 'Allow forged transmits' (No), and 'Allow MAC changes' (No). The 'Shaping policy' section shows 'Enabled' (No). The 'vSwitch topology' section shows a diagram of the vSwitch connected to physical adapters (vmnic0, 1000 Mbps, Full).

This displays the information about your vSwitch, the part of interest here is the vSwitch topology diagram, this displays a graphical representation of what you have just created. A larger view is below.



Remember, here we are looking at a graphical representation of our vSwitch, on the left we see the two **Port Groups** we just created. On the Right we see the **Physical Interface** that this vSwitch is connected to (vmnic8).

To use this **Port Group** / **vSwitch configuration**, you will need to use one of the Port Groups in your Virtual Machine configuration, you can see that [here](#).

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