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Quick Start Guide

For Sangfor vWOC in VMware

www.sangfor.com

Before You Begin

1. Comply with the vWOC Virtual Appliance Host System Requirements.
2. Download the virtual appliance OVF template file:
   http://www.sangfor.com/product/sxf-network-optimization-wano.html
3. If you don't have trial license yet, visit:
   http://www.sangfor.com/product/sxf-network-optimization-wano.html
4. If not using DHCP, prepare an IP address for the vWOC appliance.

NOTE: When you download the OVF template file and save it, Internet Explorer may change the suffix from .ova to .tar. If it does, change the suffix back to .ova.

SUMMARY OF TASKS

1 Deploy the vWOC virtual appliance's OVF template

2 Establish connectivity to the virtual appliance

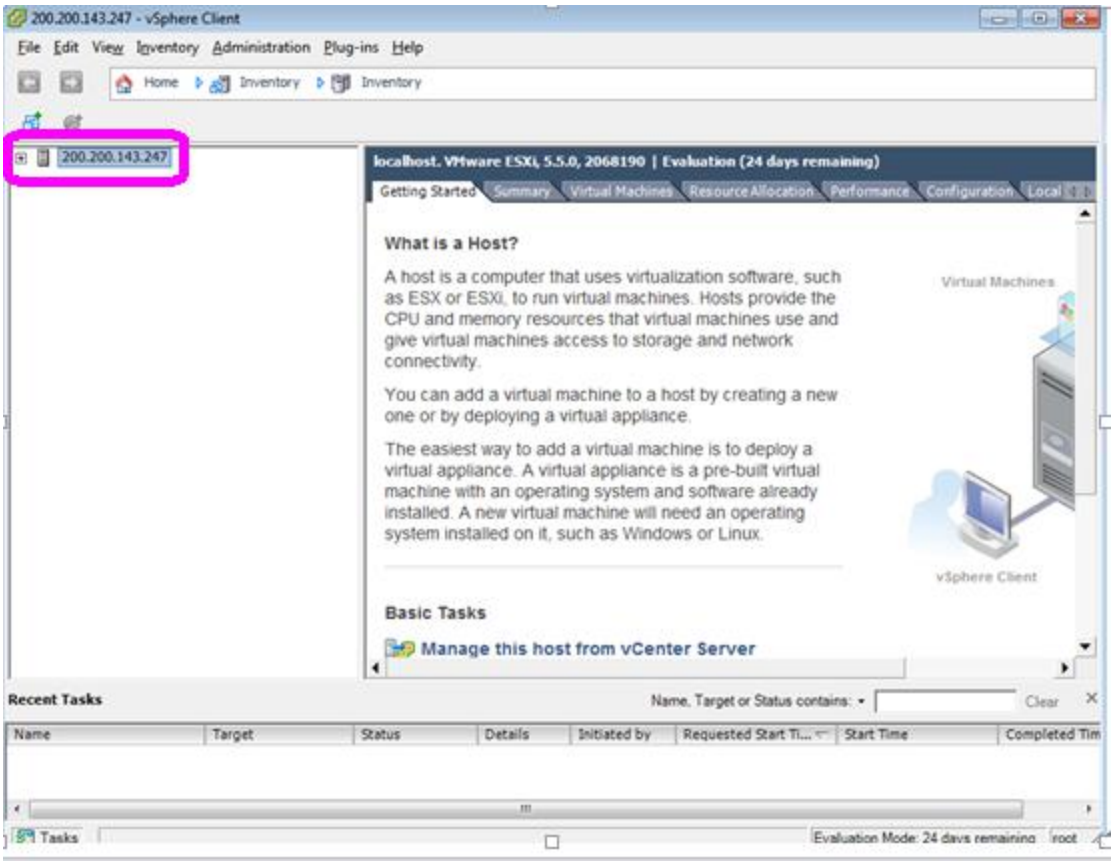
3 Run the Appliance Manager initial configuration wizard

4 Deploying WOC in Bridge/Single-Arm Mode

1. Deploy the VWOC virtual appliance's OVF template

1). Launch the vSphere client, enter the IP address for the VMware vSphere host.

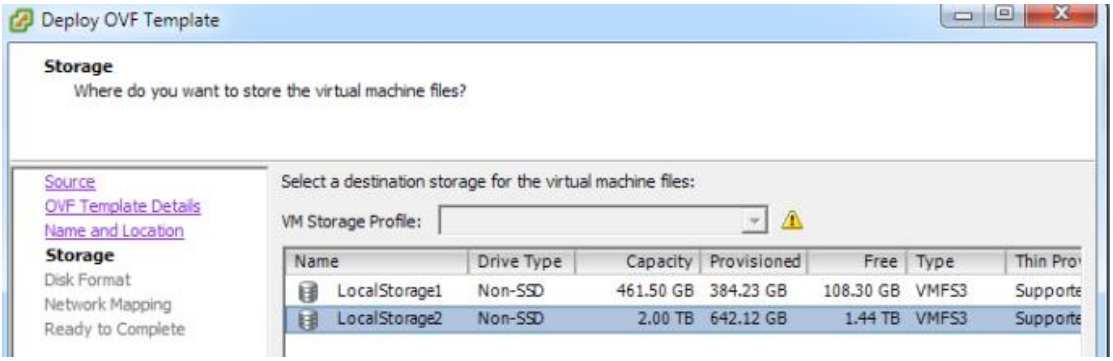
The host interface appears.



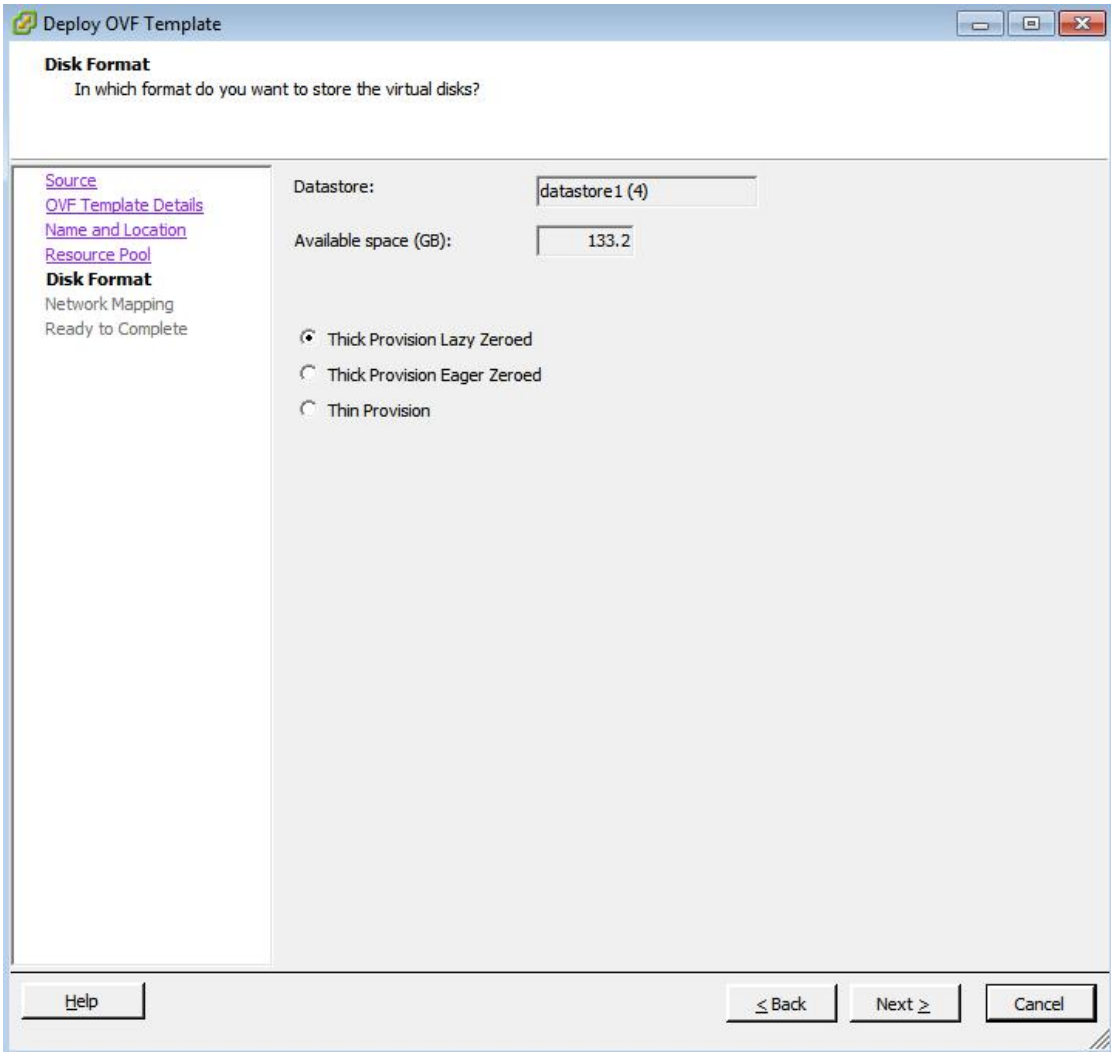
2) From the File menu, select Deploy OVF Template, and follow the steps in the wizard.

NOTE: On the Name and Location page, we changed the virtual appliance's default name to My VWOC, to make this example more generic.

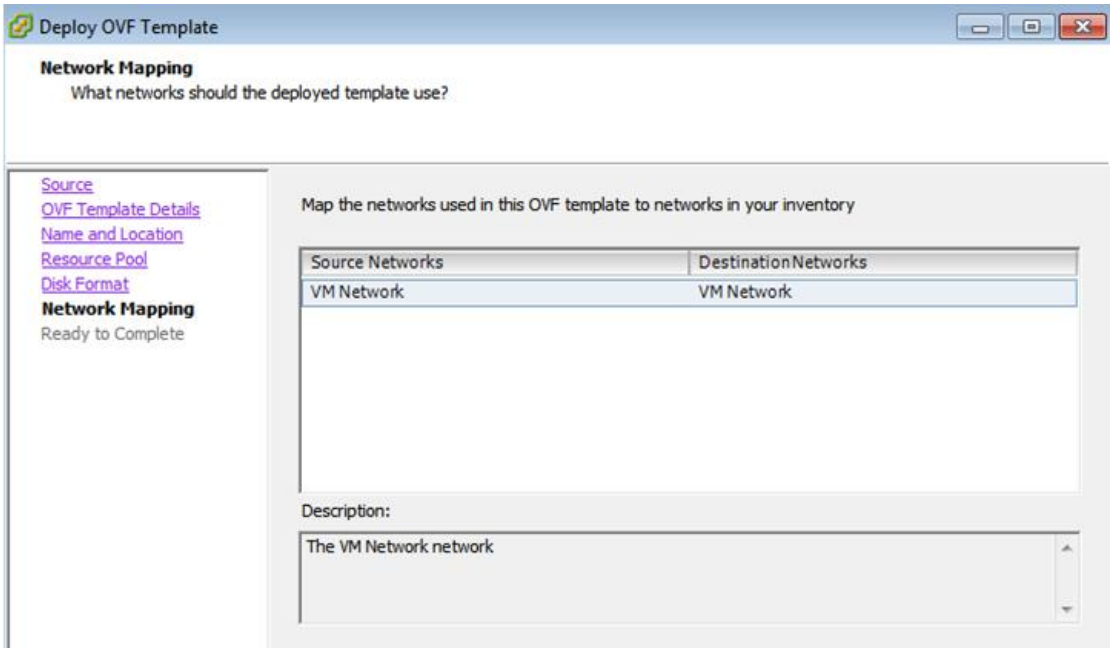
3) When the Storage page appears, verify that the storage you select meets the requirements specified in the VWOC Virtual Appliance Host System Requirements.



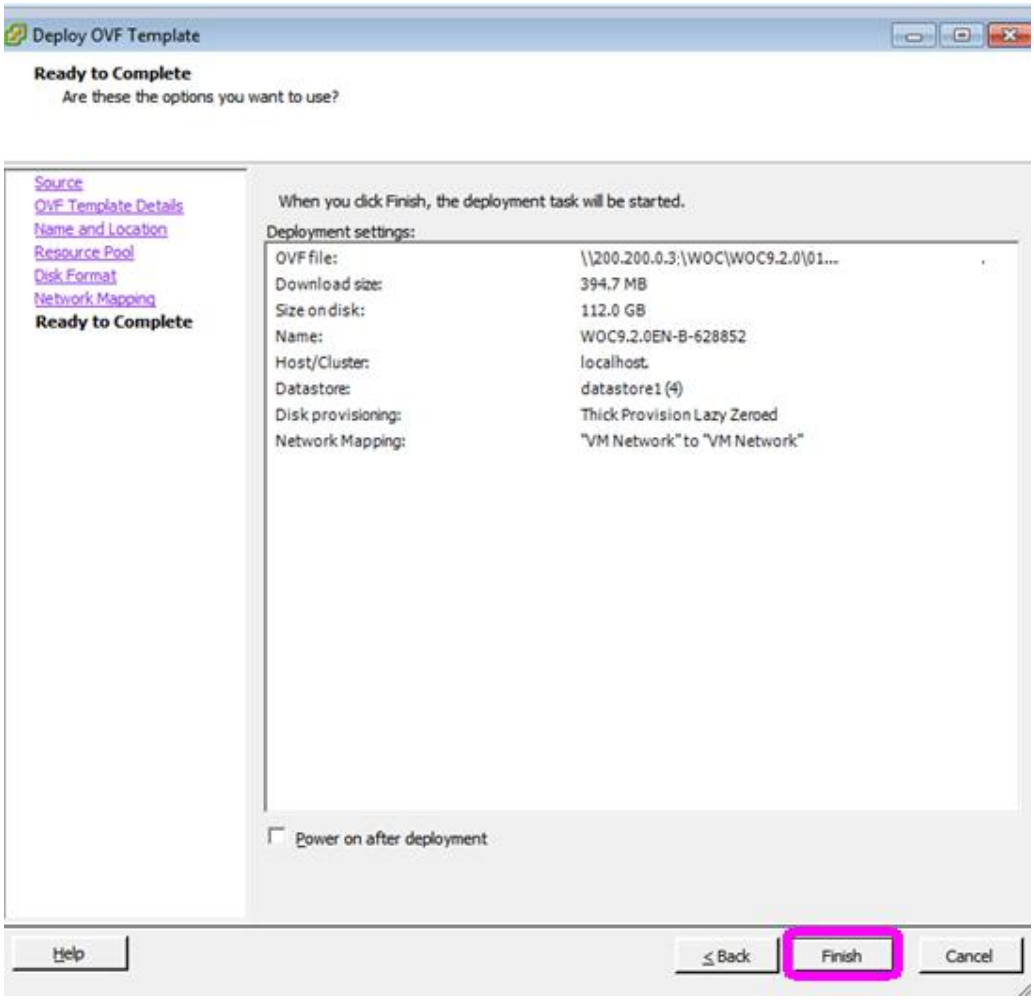
4) On the Disk Format page, make sure to select **Thick Provision Lazy Zeroed**.



5). The Network Mapping page defaults to selecting **VM Network.** If this is not appropriate in your circumstances, then select the one that is.



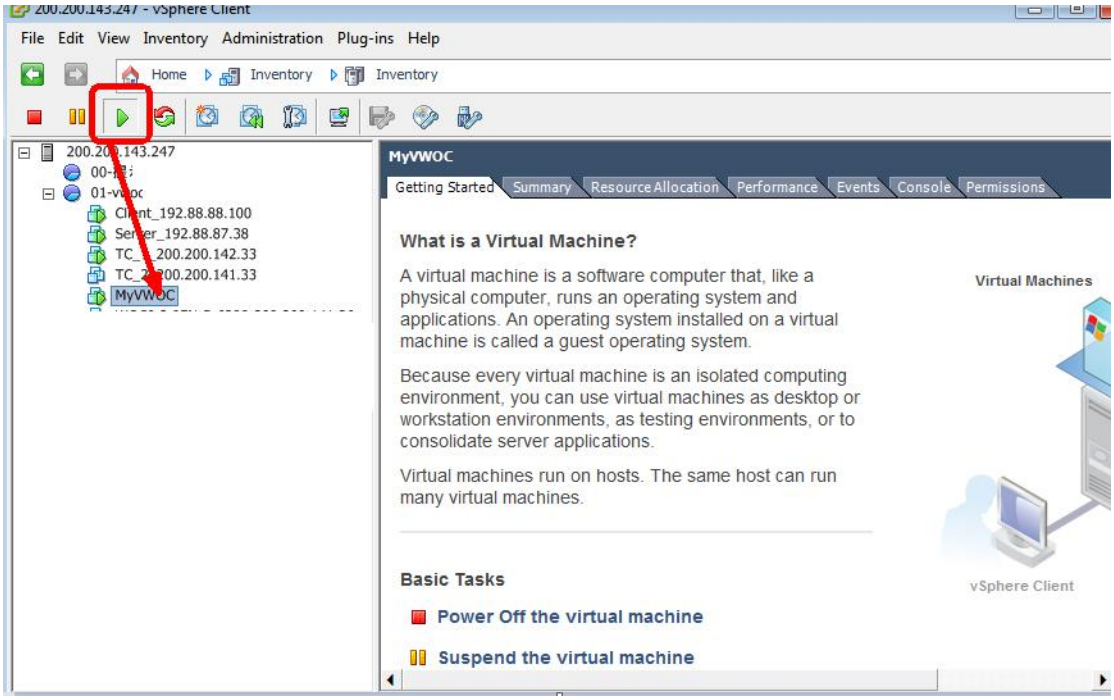
6) When the Ready to Complete page appears, go to the bottom of the page and click **Finish.**



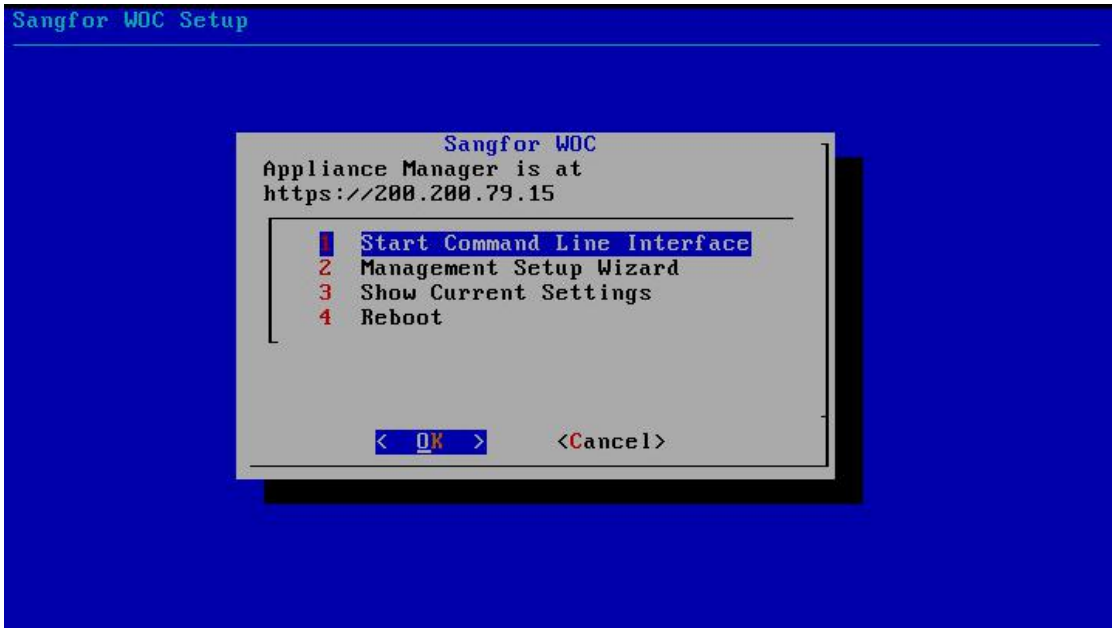
The VWOC appliance **deploys**

2 Establish connectivity to the virtual appliance

1). In the vSphere Client, select the newly deployed virtual appliance and click  to power it on

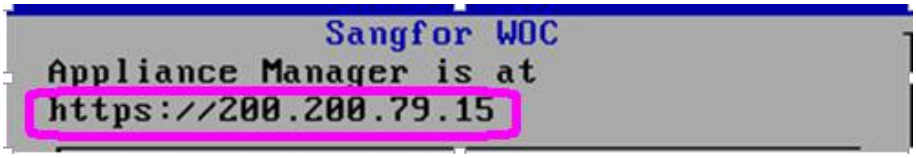


2). Click the Consoletab. The VWOC Console User Interface appear



3). The next task is to determine the virtual appliance's IP address:

•The default manage ip is **using DHCP**, the virtual appliance IP address displays in VWOC's Console User Interface.



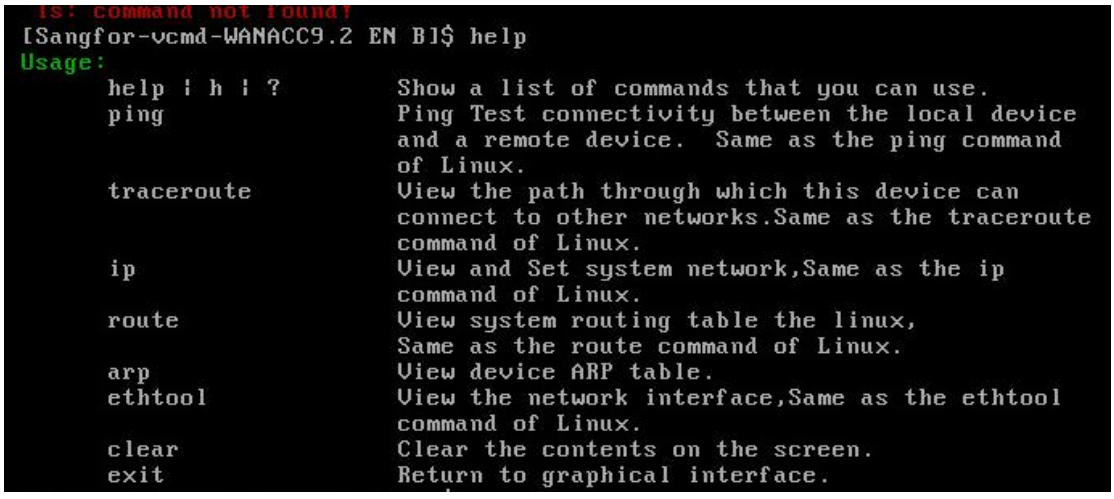
• If you're not using DHCP, then you must configure the static IP address and default gateway

In the virtual appliance console, press function key, **Enter**, and complete the remaining steps.

When prompted to choose the type of management interface, select Static(as opposed to DHCP).

After selecting Apply, you can review the settings by selecting "3 Show Current Settings".

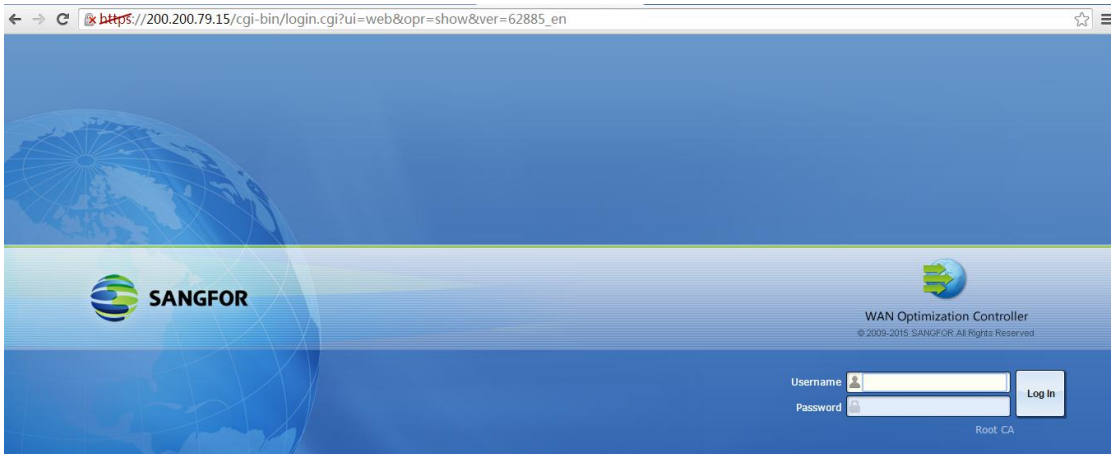
4). To verify connectivity, to select "Start command line interface" and enter the following command sequence:



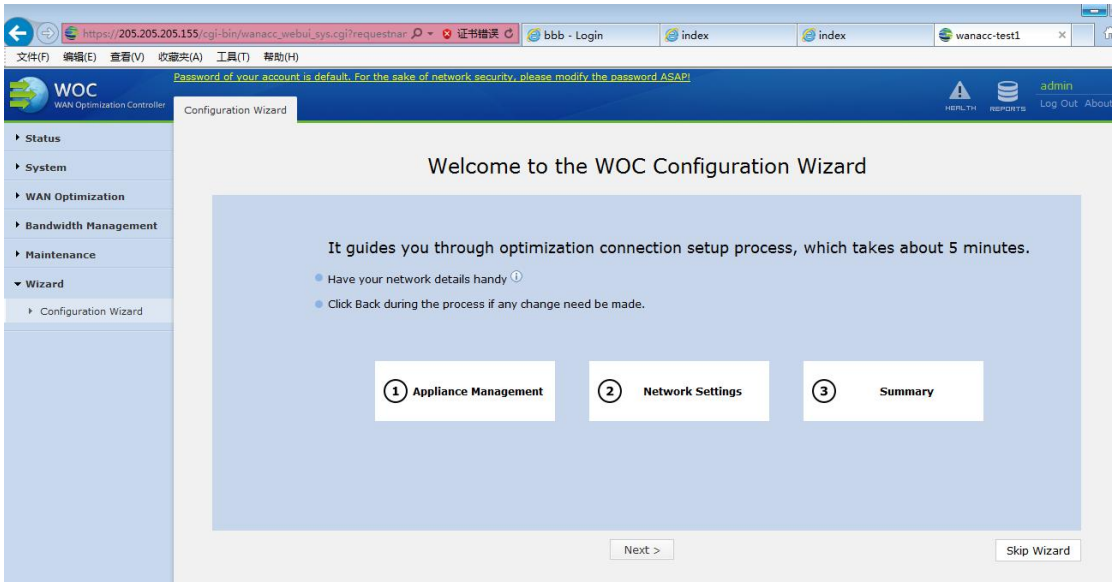
You are now ready to complete the VWOC virtual appliance initial configuration wizard

3 Run the Appliance Manager initial configuration wizard

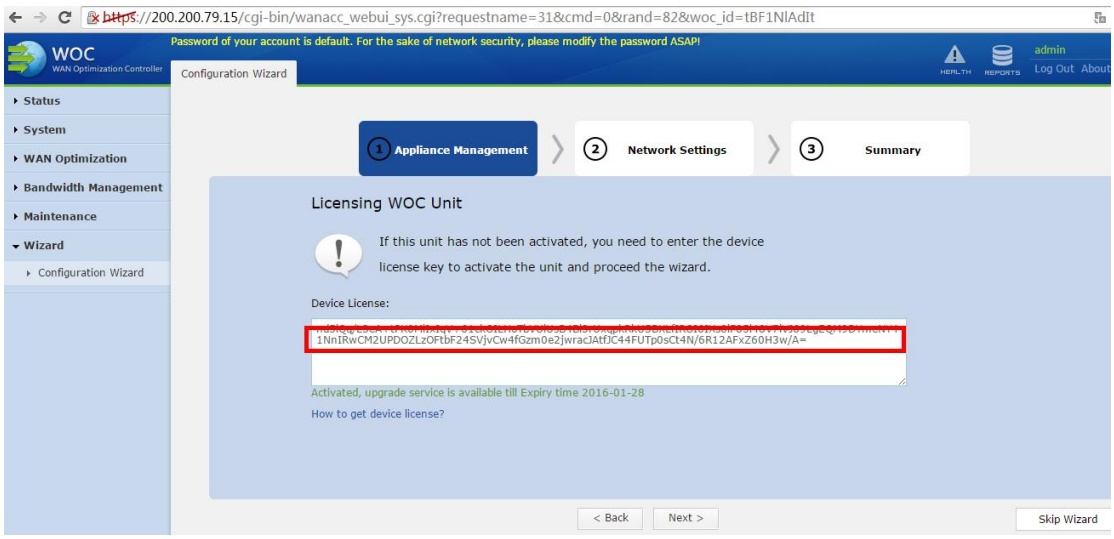
1) In a browser, enter the IP address that you just discovered or configured. The VWOC Appliance Management Console login page appears.



2). For both the User Name and Password, enter admin. The initial configuration wizard appears.



3) You need to input license to continue.



4). Complete the remaining wizard screens.

5). On the last wizard screen, click Apply. When the virtual appliance asks permission to reboot, allow it.

The Appliance Manager takes a few minutes to reboot and return to the login page.

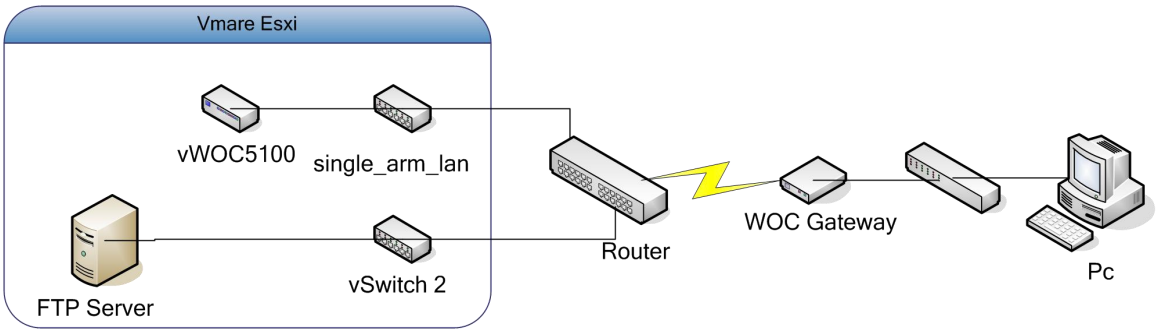
You are now ready to start using the appliance

4. Deploying WOC in Bridge/Single-Arm Mode

This section introduces how to deploy and configure the vSphere Client when virtual WOC is deployed in **Bridge**, **Single-Arm** mode.

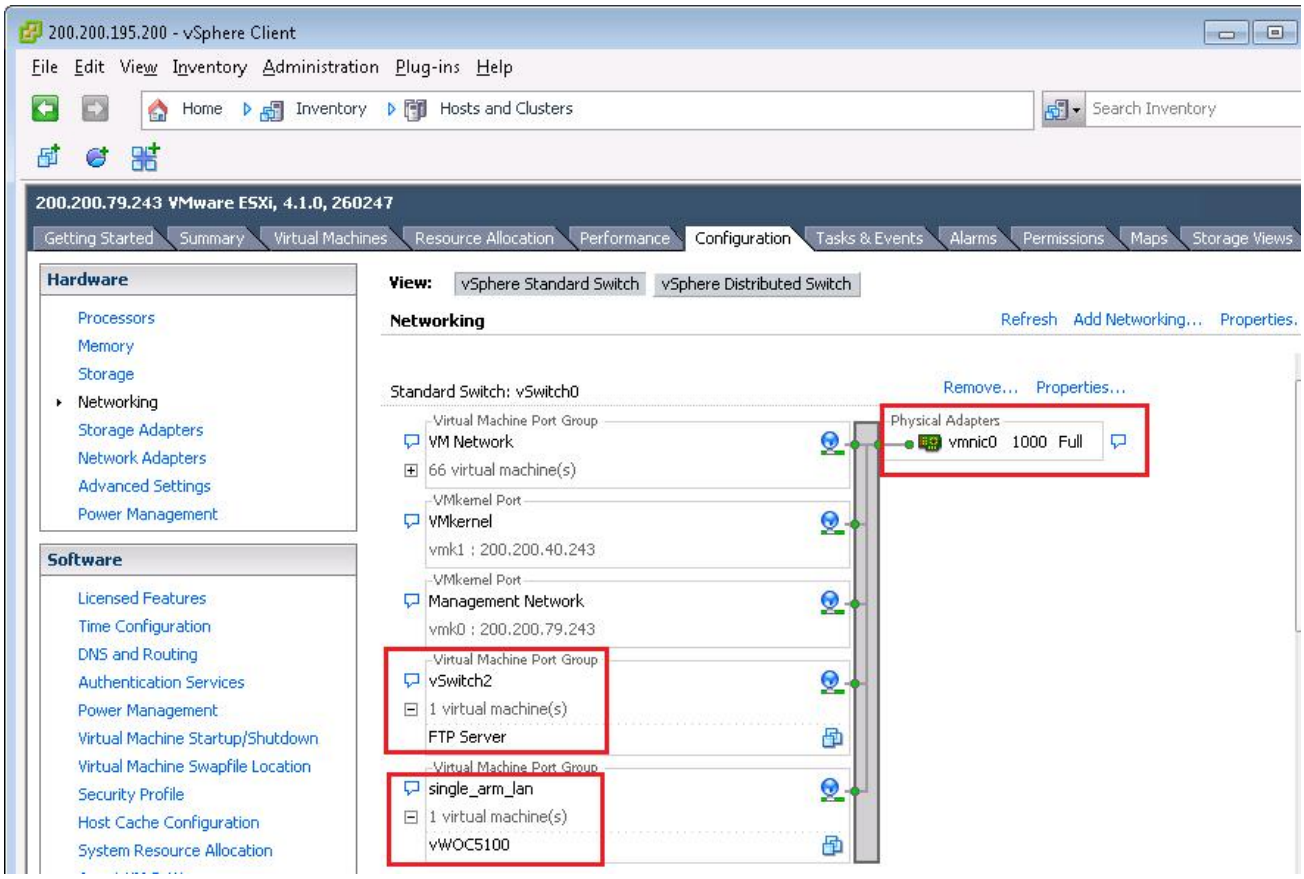
4.1 Virtual WOC Deployed in Single-Arm Mode

4.1.1 Deployment Scenario



Note that the two virtual machine switches of Vmare Esxi can be mapped to one physical network adapter or a virtual machine port group.

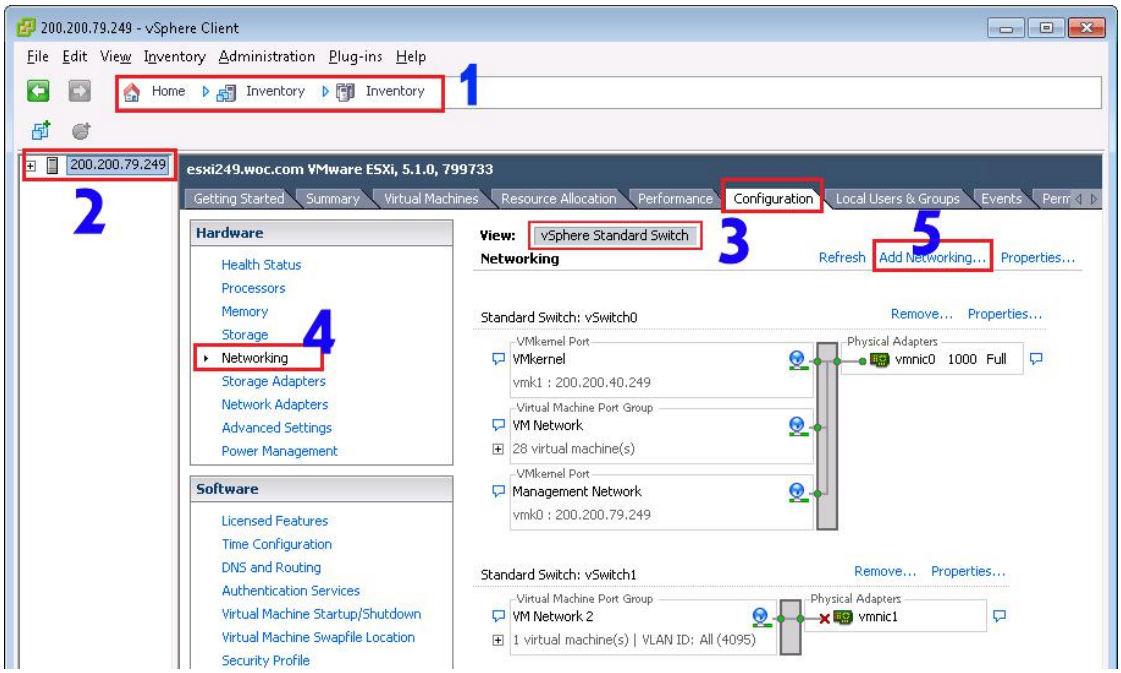
In this example, the two VM port groups are mapped to a same physical network adapter, as shown in the following screen shot:



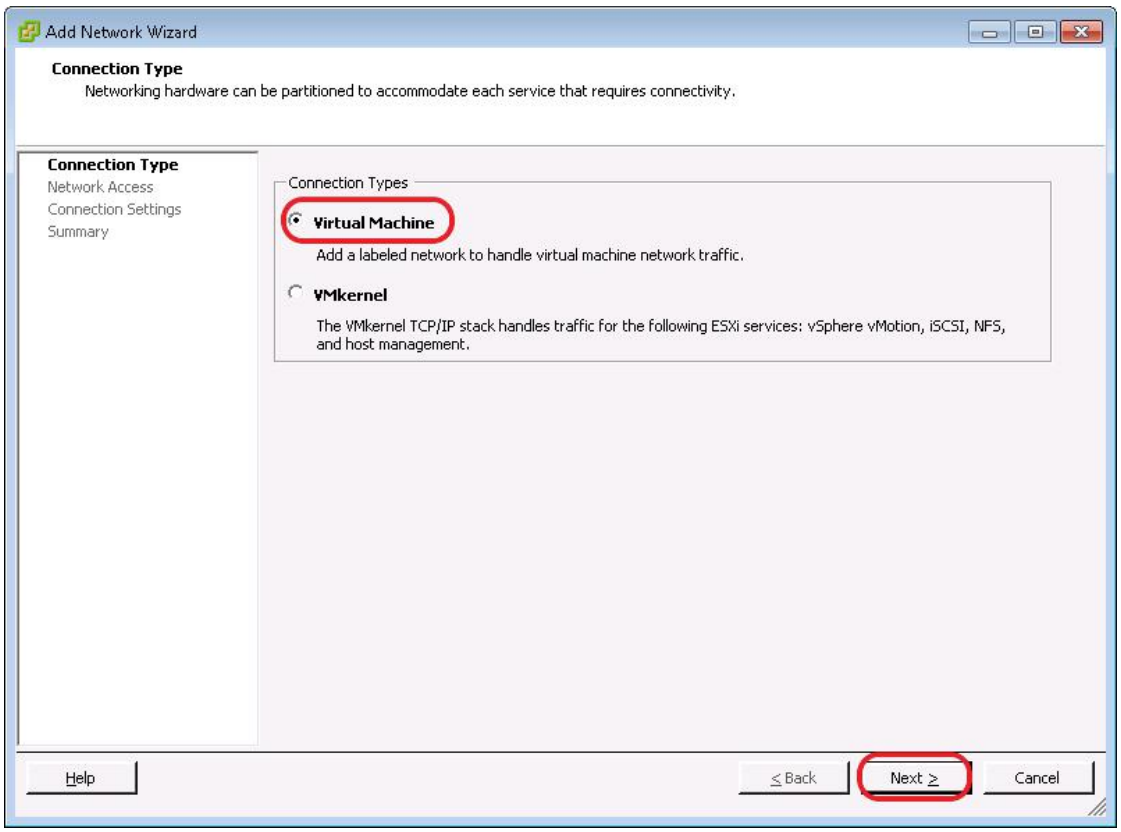
4.1.2 Configuration for Virtual WOC in Single-Arm Mode

To associate the virtual WOC with a network adapter, you need to add a virtual machine port group and associate it with the virtual WOC. The port group provides networking for virtual machines. Perform the following steps:

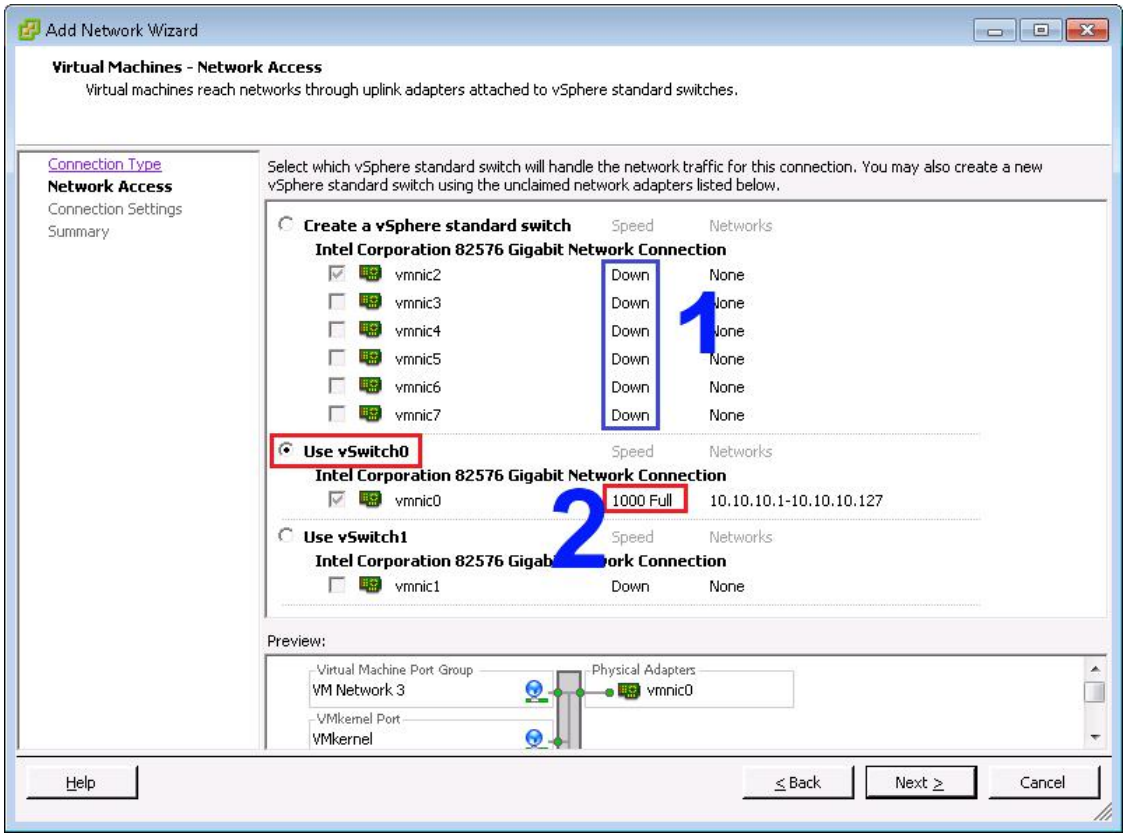
1. Log in to vSphere Client. Click **Inventory** > **Hosts and Clusters** and select the host.
2. Click **Configuration** and **Networking.**
3. Select **vSphere Standard Switch** to show more information of the switches.
4. Click **Add Networking** to open the **Add Network Wizard**.



5. In **Connection Type**, select **Virtual Machine** and click **Next**.

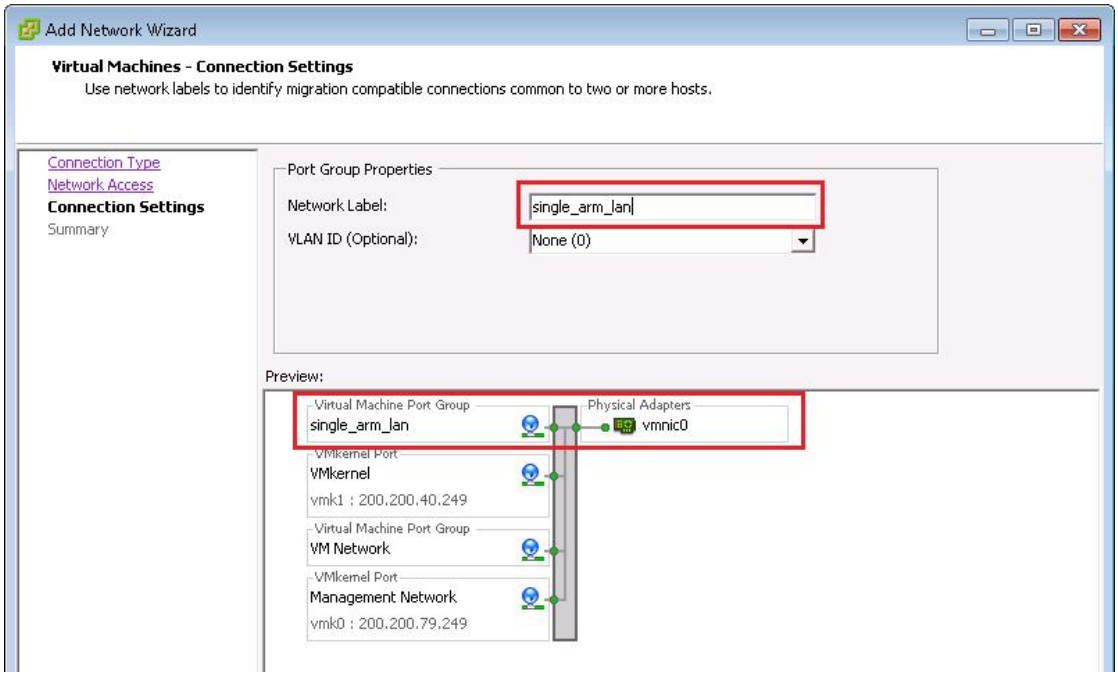


6. Select the **Create a vSphere standard switch** option, or use an existing vSwitch to associate with the physical network adapter that is binding to the virtual machine port group.



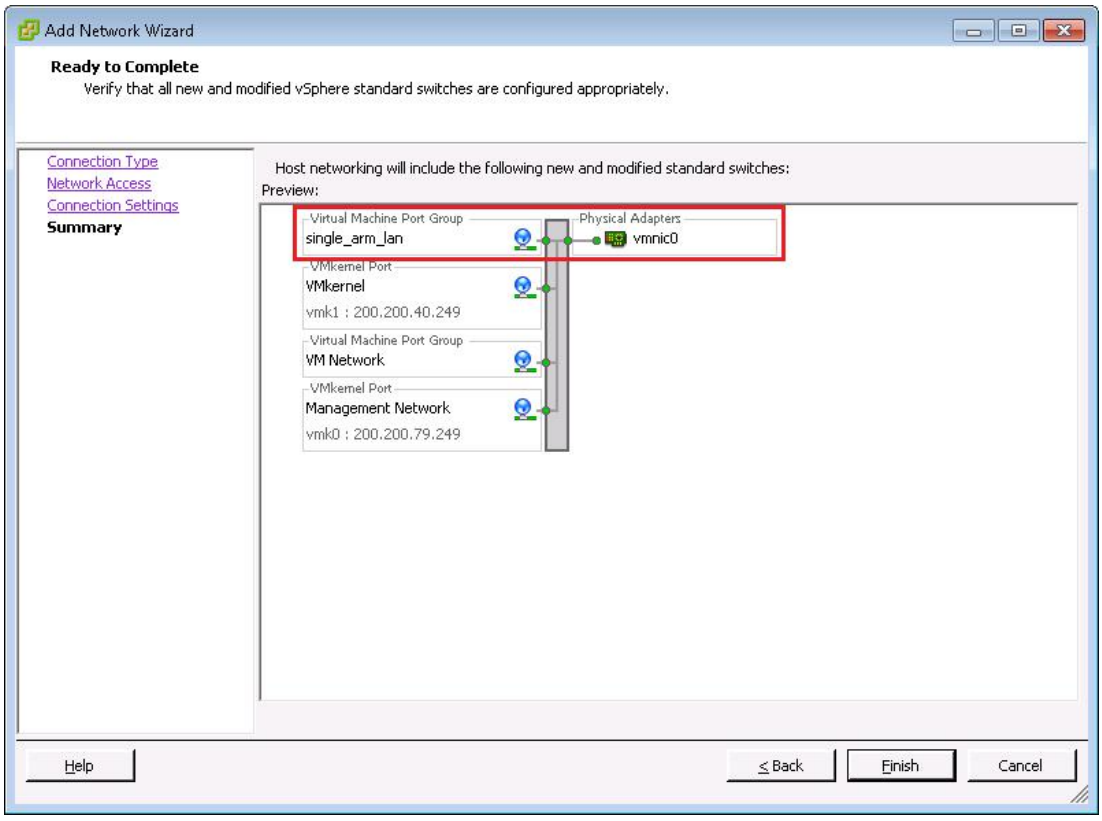
In the above figure, the switches in '**Down'** status cannot communicate with any physical devices, and link rate '**1000Mb/s Full**' indicates that the negotiated rate and link mode for the physical network adapter '**vmnic0**' are **1000Mb/s** and **full-duplex** respectively.

7. Click **Next**.
8. In **Connection Settings** > **Port Group Properties**, enter a network label for the port group.



9. Click **Next**.

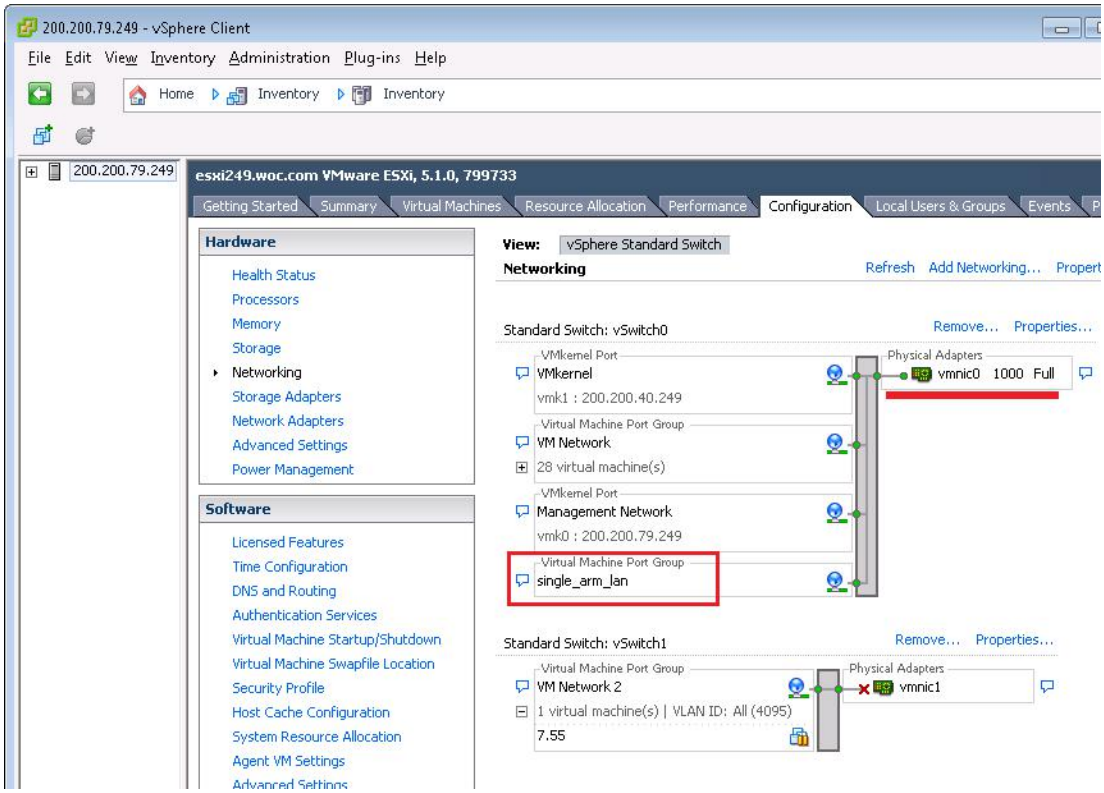
10. In **Ready to Complete**, confirm the settings and click **Finish**.



If network adapter is marked red cross 

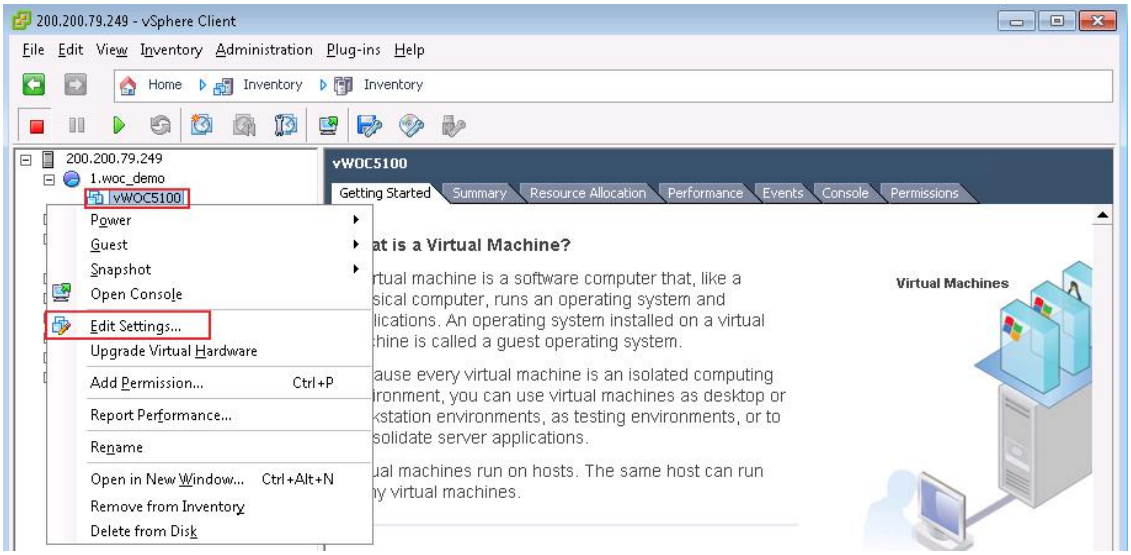
, the **vmnic1** interface is **Down** and cannot be used for networking.

11. When configuration is completed, you will see the virtual machine port group, as shown in the following screenshot:

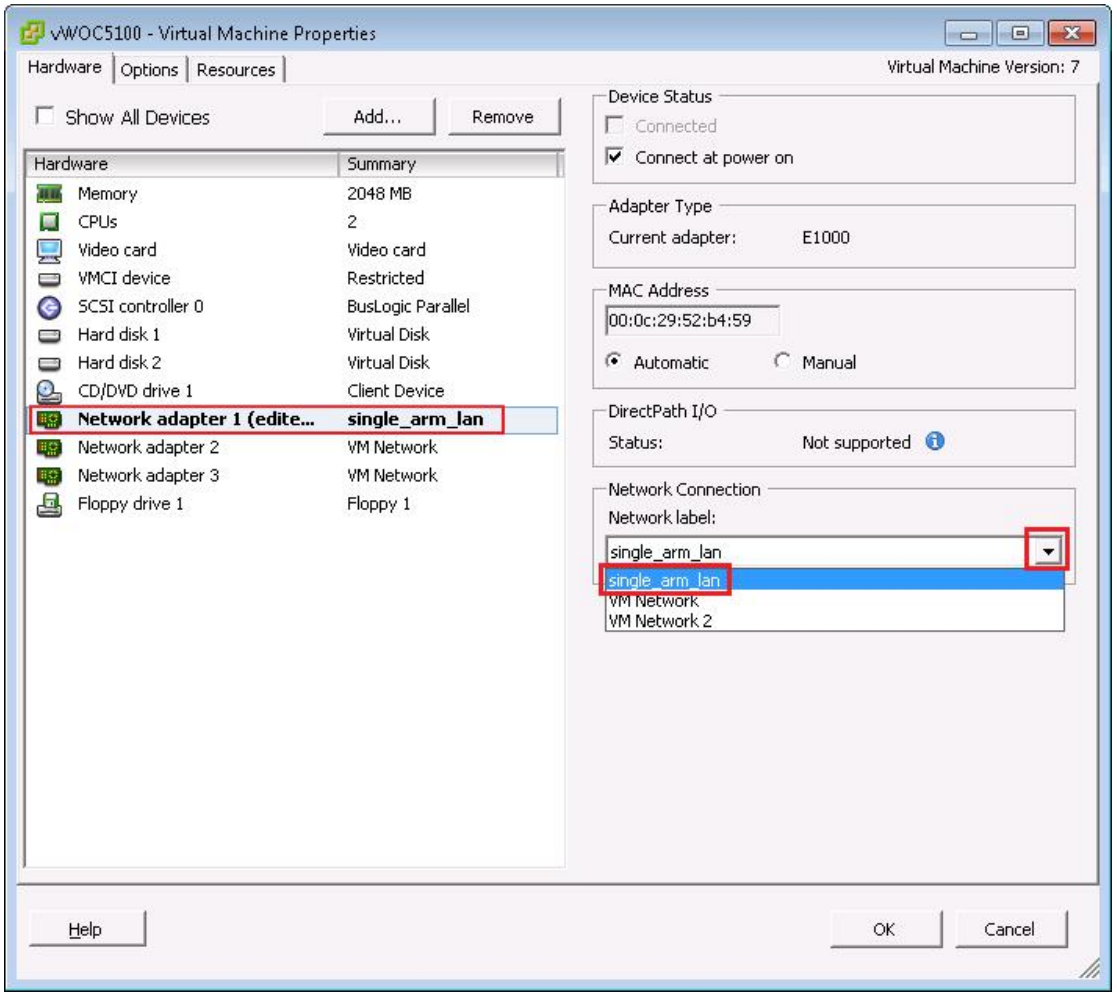


4.1.3 Associating Virtual WOC with Virtual Machine Port Group

1. Log in to the VMware vSphere Client. Right-click the virtual WOC node and click **Edit Settings**.

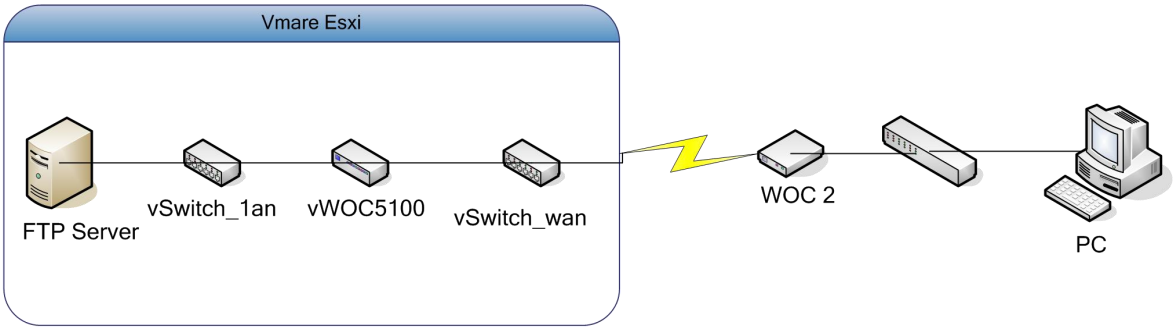


2. Click network adapter corresponding to the **LAN** interface of the virtual WOC, and associate it with the '**single_arm_lan**' port group.

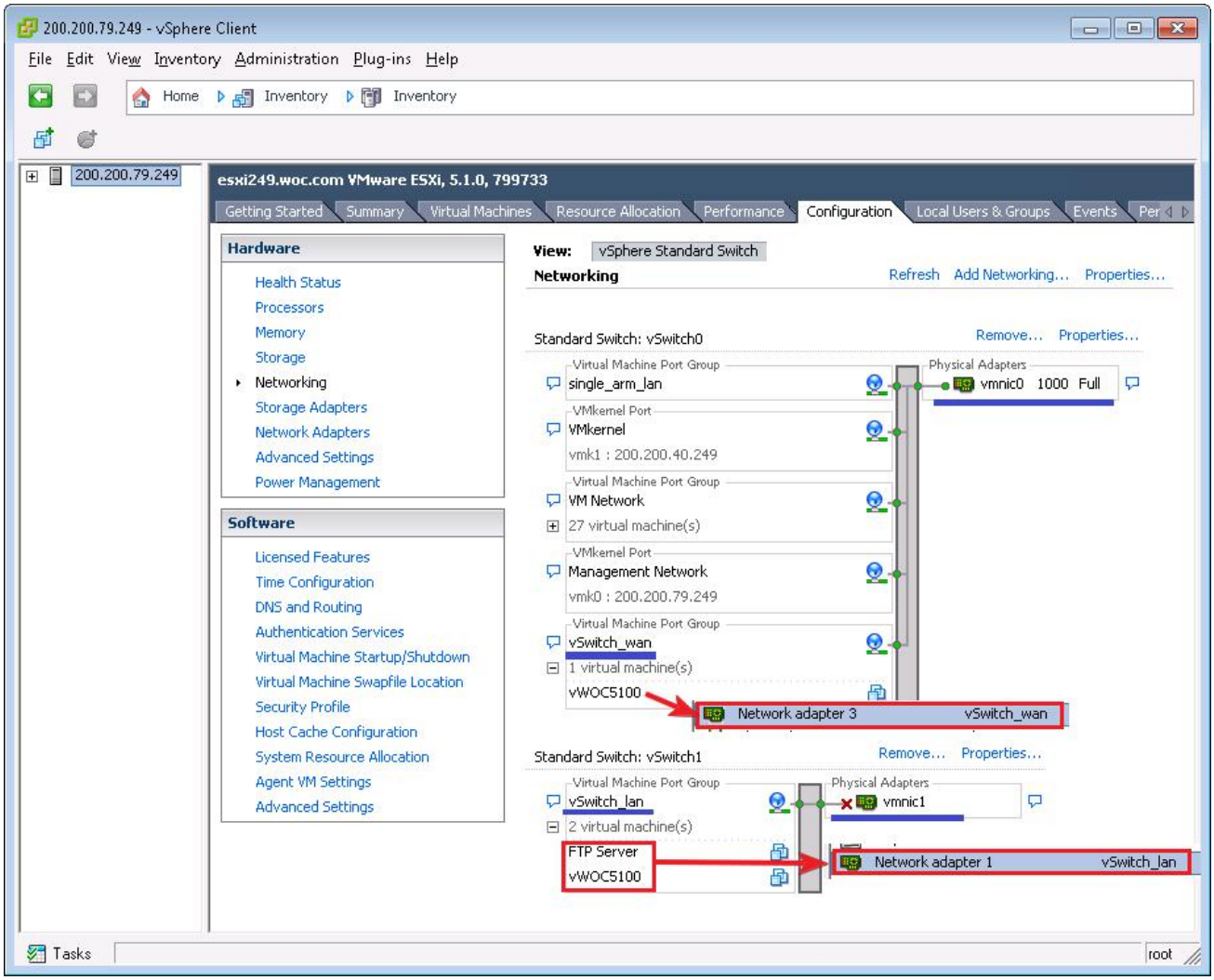


4.2 Virtual WOC Deployed in Bridge Mode

4.2.1 Deployment Scenario



Settings are as shown in the following screenshot:



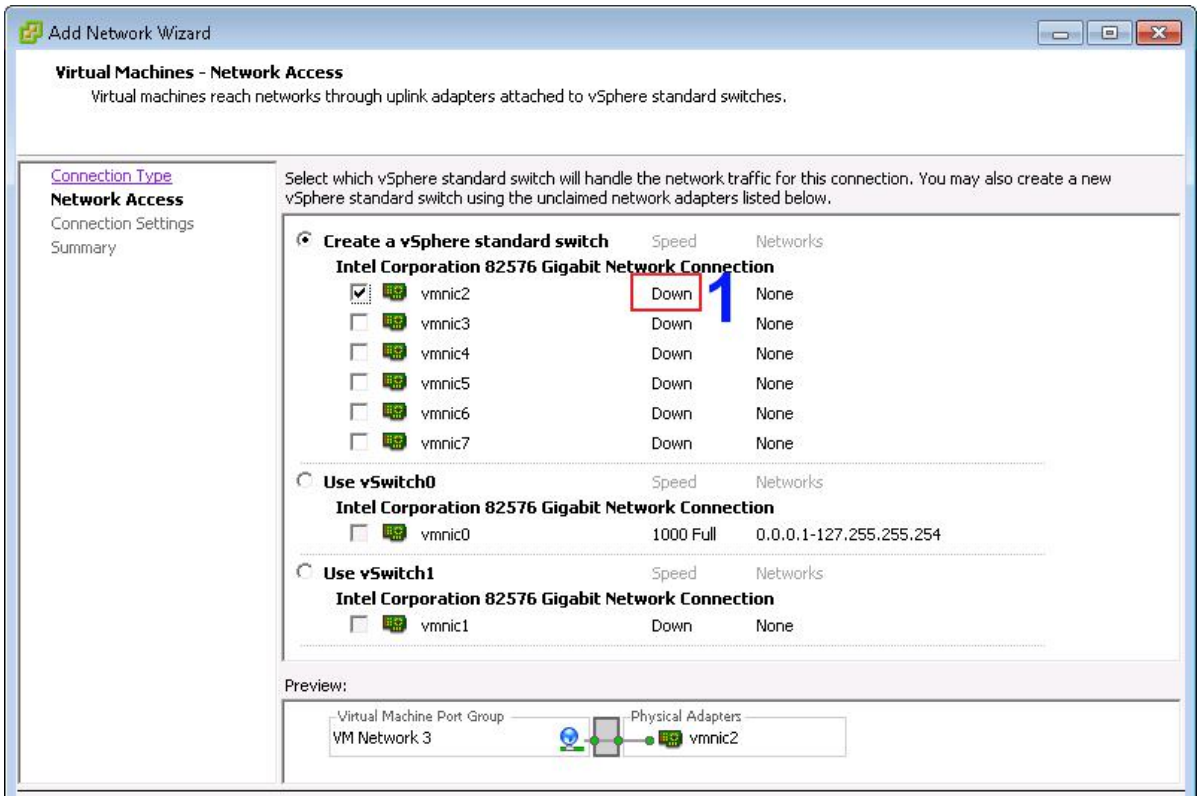
Note that the network adapter of **vSwitch_lan** must not connect to network cable.

4.2.2 Configuration for Virtual WOC in Bridge Mode

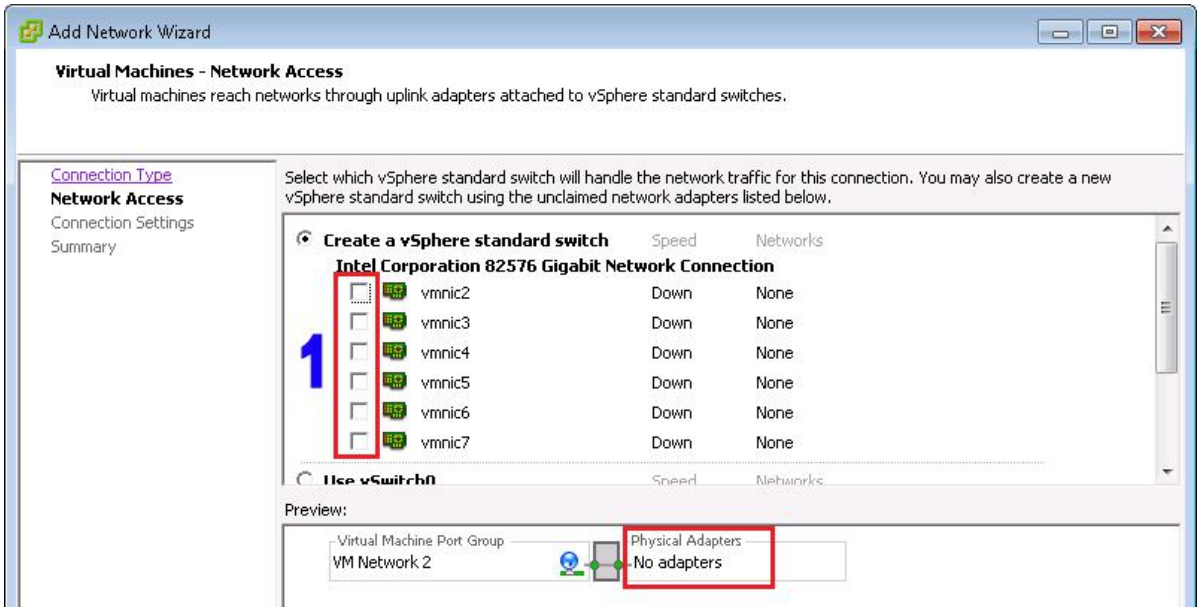
The configuration on **vSwitch** is the similar to that for virtual WOC deployed in Single-Arm mode. The difference is, virtual WOC in **Bridge** mode needs two virtual machine port groups (**vSwitch_lan** and **vSwitch_wan**), and **vSwitch_lan** is not connecting to any physical device.

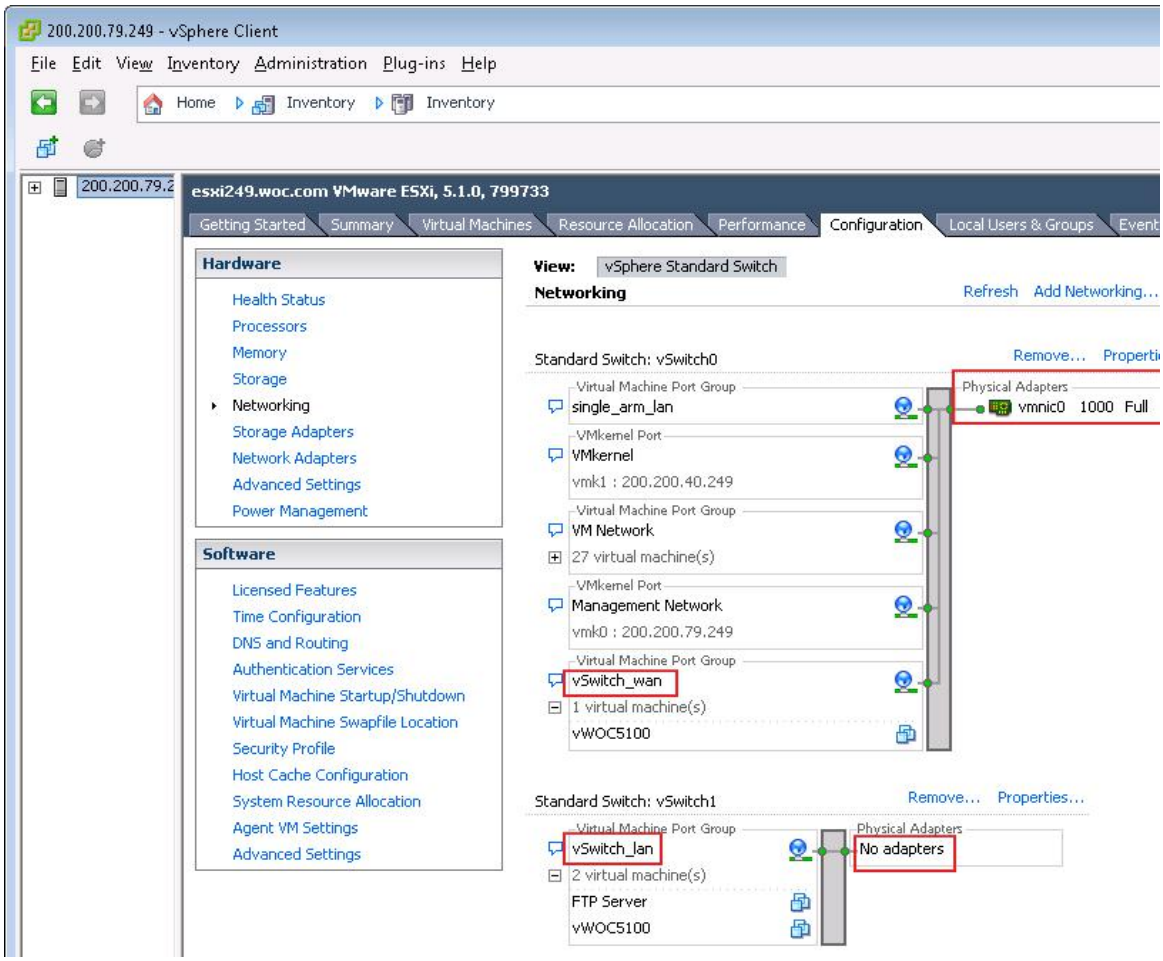
Use either of the following methods to achieve this configuration:

Method 1: In **Virtual Machine - Network Access** for '**vSwitch_lan'** (see the section 4.1.2 Configuration for Virtual WOC in Single-Arm Mode, step 6), select a network adapter that is **Down**, such as **vmnic2**, as shown below:



Method 1: In **Virtual Machine - Network Access** for '**vSwitch_lan'** (see the section 4.1.2 Configuration for Virtual WOC in Single-Arm Mode, step 6), do not select any network adapter.

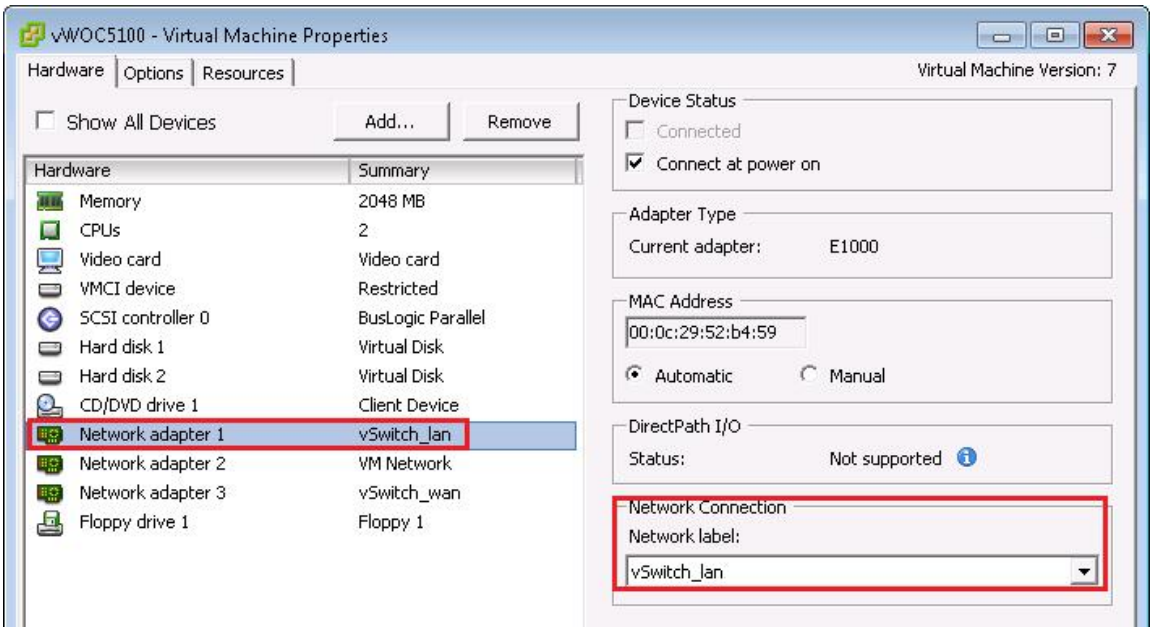

Add Network Wizard
Virtual Machines - Network Access
Virtual machines reach networks through uplink adapters attached to vSphere standard switches.
Connection Type
Network Access
Connection Settings
Summary
Select which vSphere standard switch will handle the network traffic for this connection. You may also create a new vSphere standard switch using the unclaimed network adapters listed below.
Create a vSphere standard switch
Speed
Networks
Intel Corporation 82576 Gigabit Network Connection
vmnic2 Down None
vmnic3 Down None
vmnic4 Down None
vmnic5 Down None
vmnic6 Down None
vmnic7 Down None
1
Preview:
Virtual Machine Port Group
VM Network 2
Physical Adapters
No adapters

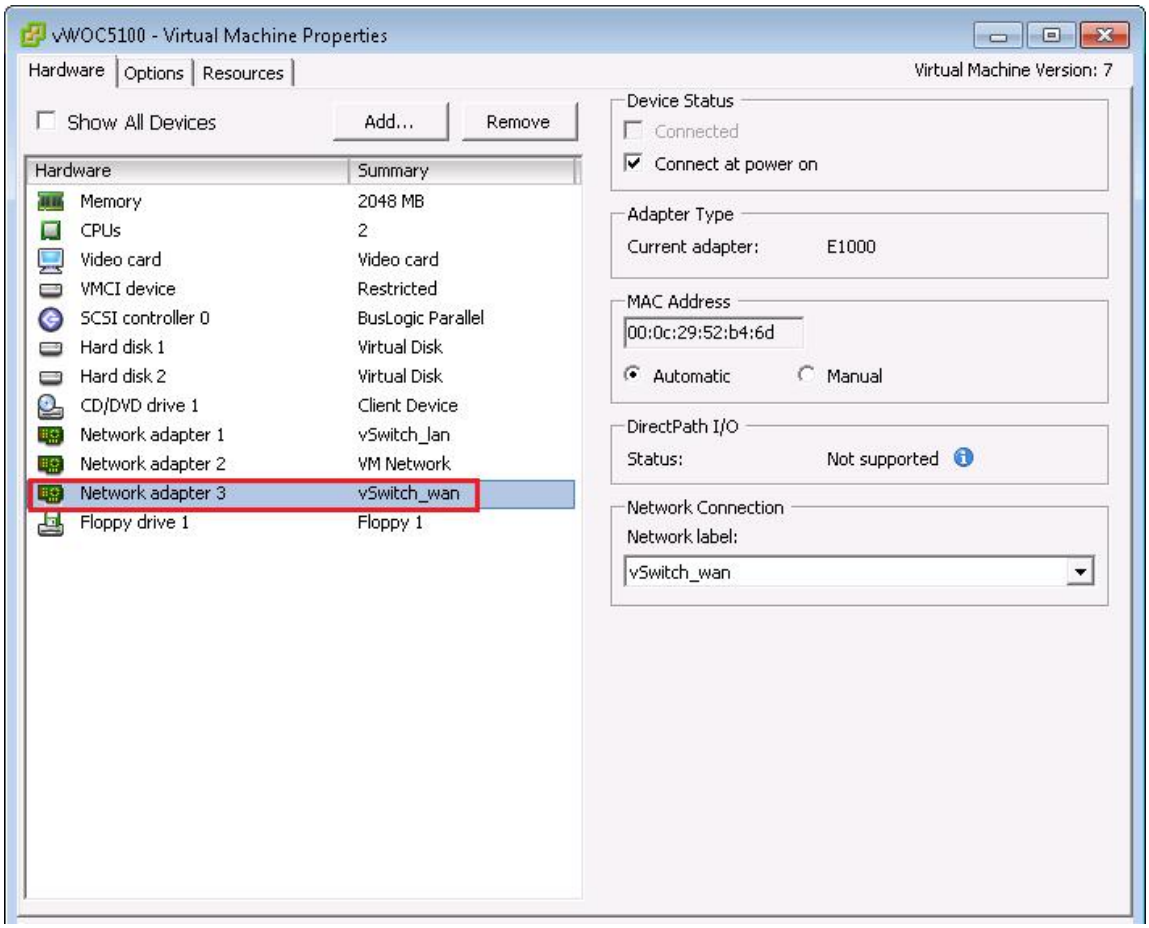

200.200.79.249 - vSphere Client
File Edit View Inventory Administration Plug-ins Help
Home Inventory Inventory
200.200.79.2
esxi249.woc.com VMware ESXi, 5.1.0, 799733
Getting Started Summary Virtual Machines Resource Allocation Performance Configuration Local Users & Groups
Hardware
Health Status
Processors
Memory
Storage
Networking
Storage Adapters
Network Adapters
Advanced Settings
Power Management
Software
Licensed Features
Time Configuration
DNS and Routing
Authentication Services
Virtual Machine Startup/Shutdown
Virtual Machine Swapfile Location
Security Profile
Host Cache Configuration
System Resource Allocation
Agent VM Settings
Advanced Settings
View: vSphere Standard Switch
Networking
Refresh Add Networking...
Standard Switch: vSwitch0
Remove... Properti
Virtual Machine Port Group
single_arm_lan
Physical Adapters
vmnic0 1000 Full
VMkernel Port
VMkernel
vmk1 : 200.200.40.249
Virtual Machine Port Group
VM Network
27 virtual machine(s)
VMkernel Port
Management Network
vmk0 : 200.200.79.249
Virtual Machine Port Group
vSwitch_wan
1 virtual machine(s)
vWOC5100
Standard Switch: vSwitch1
Remove... Properties...
Virtual Machine Port Group
vSwitch_lan
Physical Adapters
No adapters
2 virtual machine(s)
FTP Server
vWOC5100

4.2.3 Associating Virtual WOC with Virtual Machine Port Group

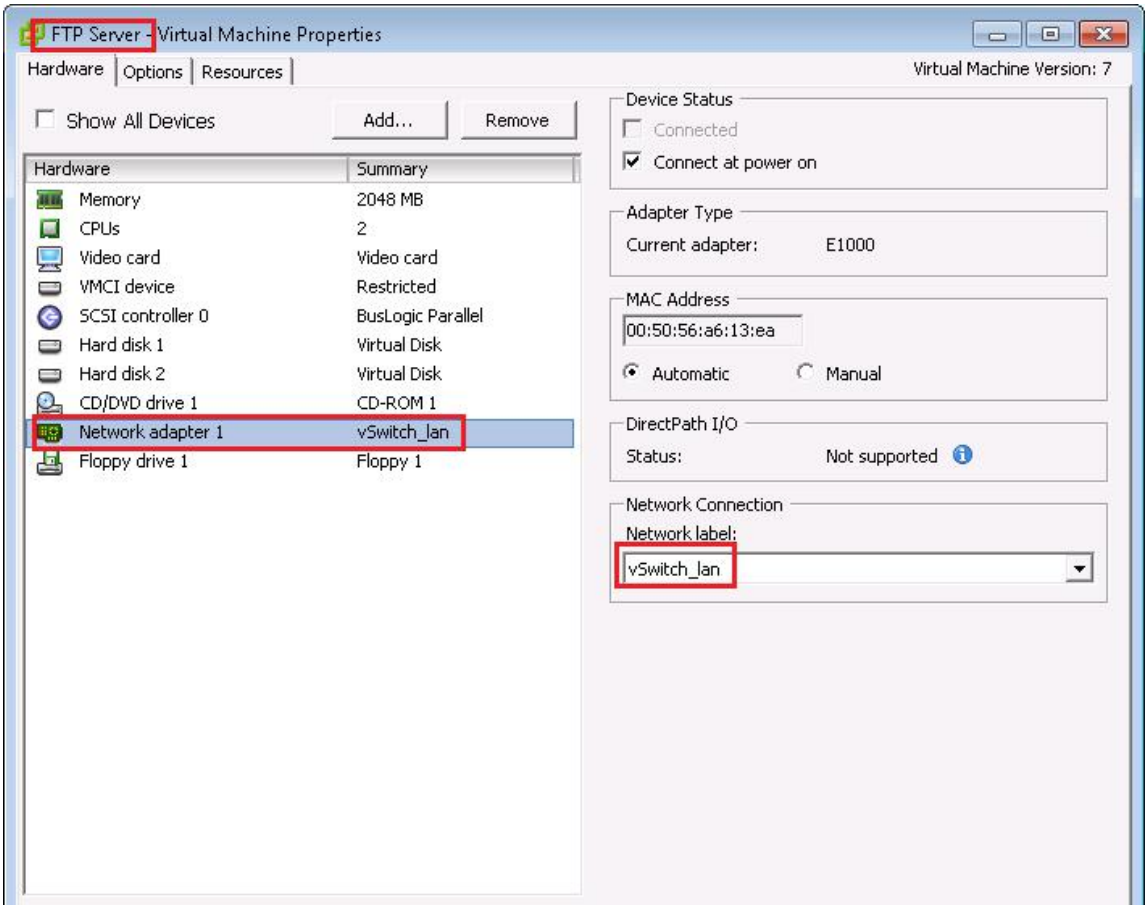
Steps are the same as that for virtual WOC deployed in Single-Arm mode. The difference is as follows:

1. **lan(Network adapter 1)** interface connects to the VM port group **vSwitch_lan** that is not connecting to any physical device, and **wan(Network adapter 3)** connects to **vSwitch_wan**.

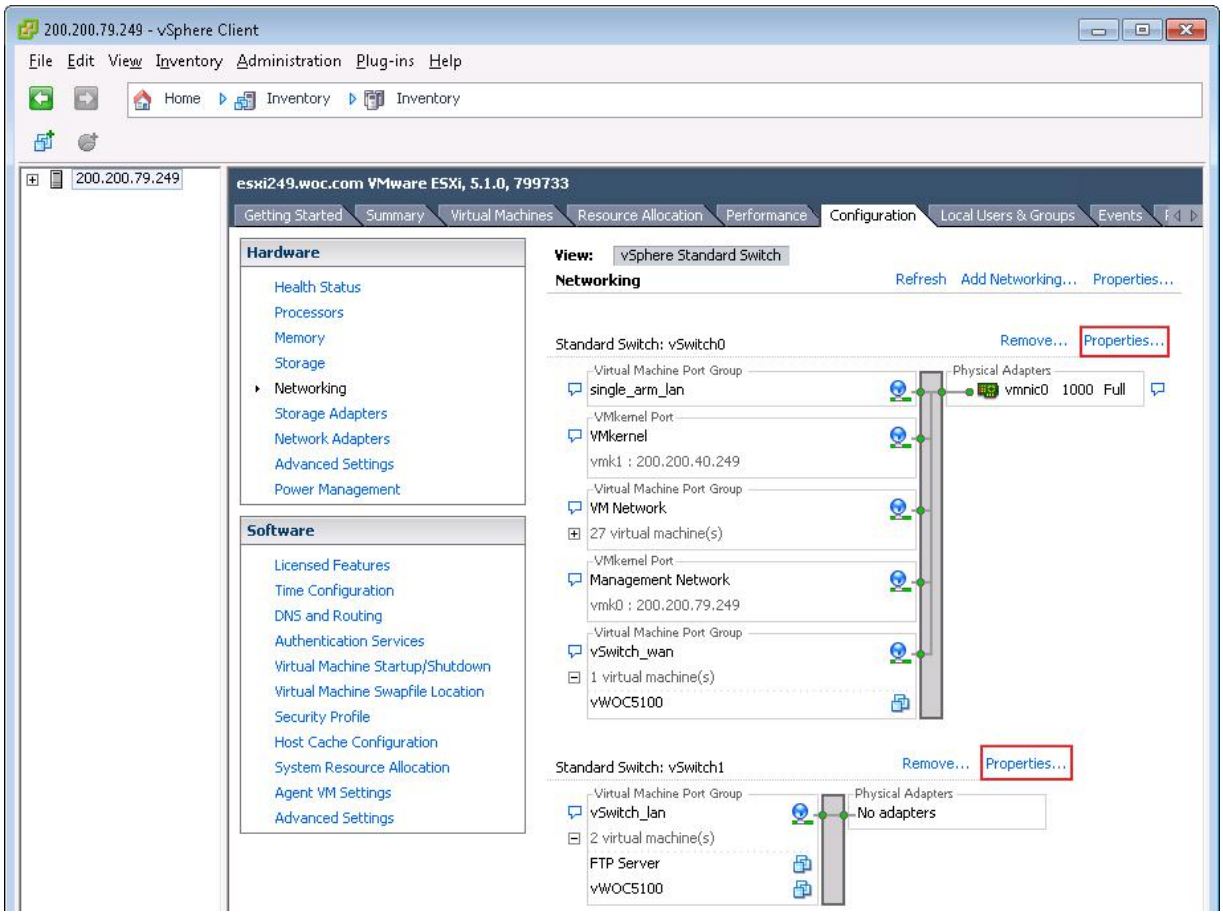




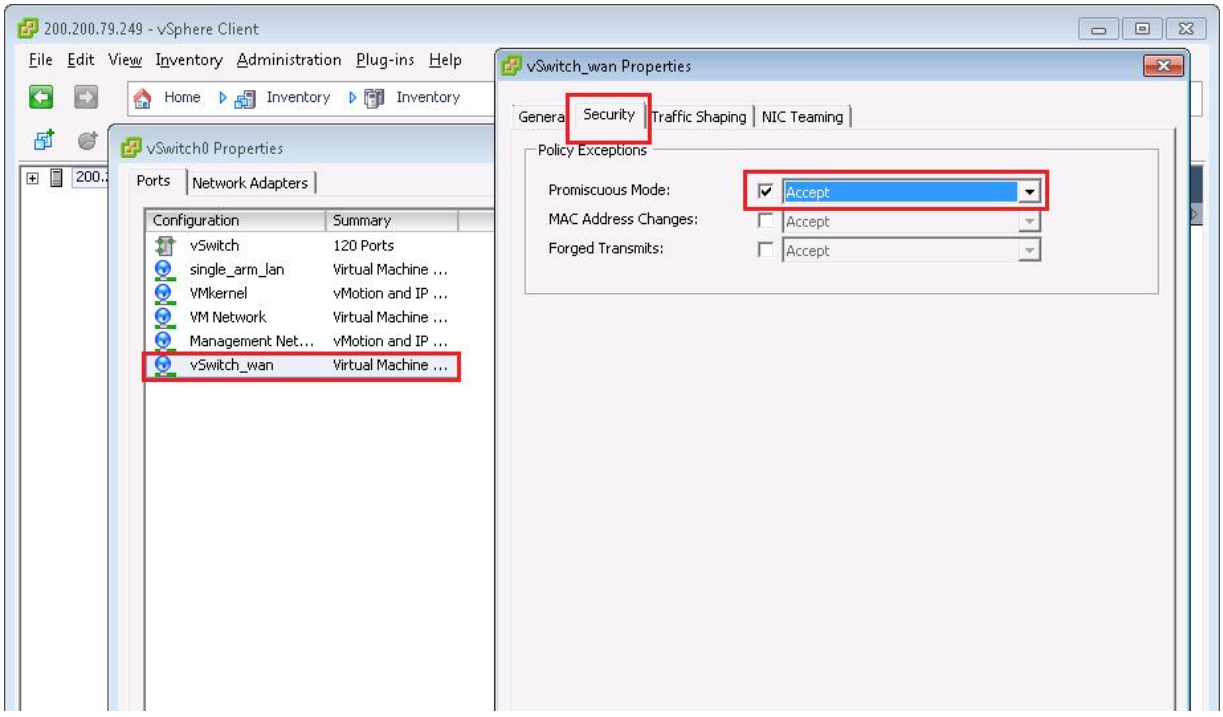
2. Connect other server (such as FTP server) to the port group **vSwitch_lan** that is behind virtual WOC.



3. Perform the following steps to set **vSwitch_lan**, **vSwitch_wan** port group to **Promiscuous Mode**
   a. Edit the properties of the corresponding switch and port.



b. In the **Security** tab, check the box next the **Promiscuous Mode** and select **Accept**.



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