

How to Deploy a CloudGen WAN VTx OVA on VMware Hypervisors

<https://campus.barracuda.com/doc/93194565/>

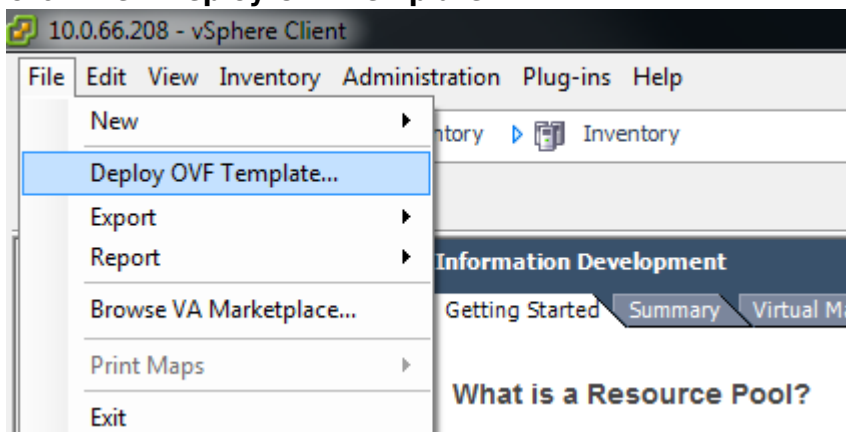
To ease deployment, the Barracuda CloudGen WAN VTx units are available as pre-built OVA images that can be imported into your VMware hypervisor. You do not need to create or configure a virtual machine (VM). Before deploying the CloudGen WAN VTx unit, verify that the host system meets the minimum storage requirements and review the resource recommendations for the production system.

Before You Begin

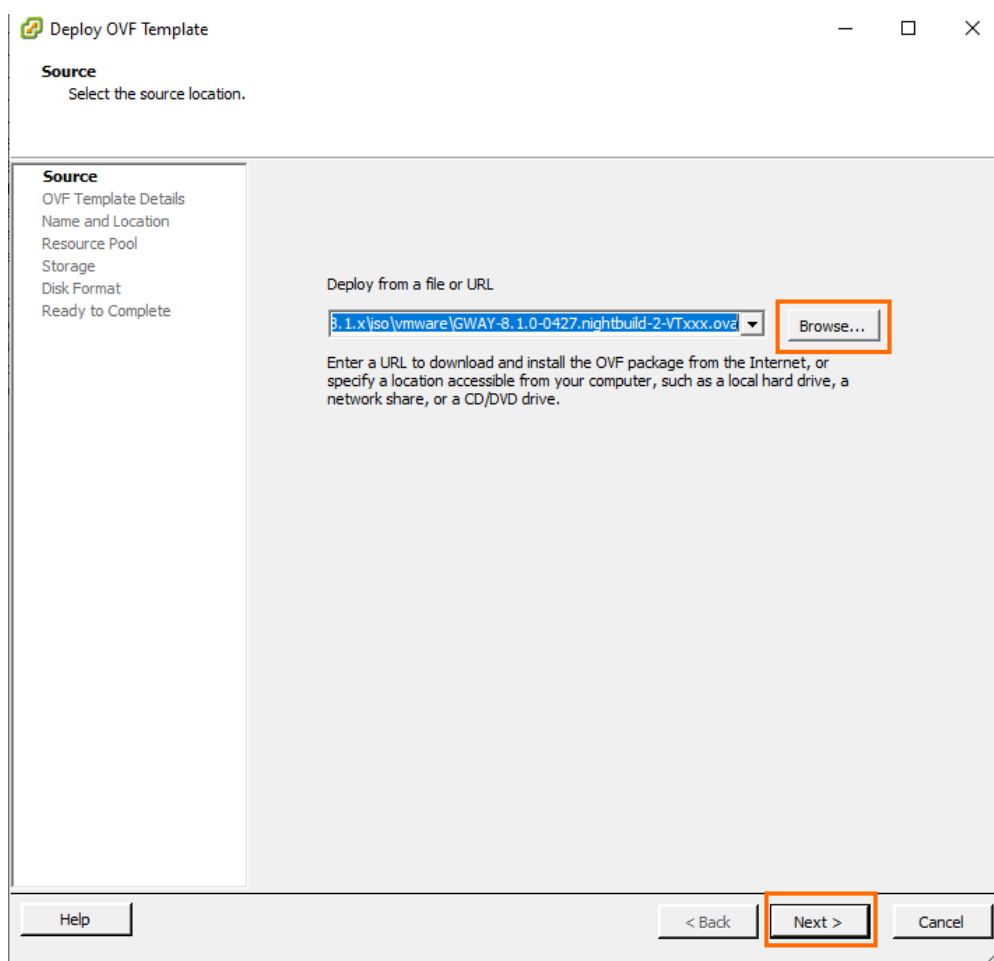
- For information regarding the sizing of your CPU, disk, and RAM, see [Virtual Systems \(VTx\) Deployment](#).
- Before you start the Barracuda CloudGen WAN VTx for the first time, assign a manual MAC address to the first virtual network interface. This lets you move the VM later without invalidating your license.
- Download the VMware OVA image from the [Barracuda Download Portal](#).

Step 1. Download and Import the OVA Image

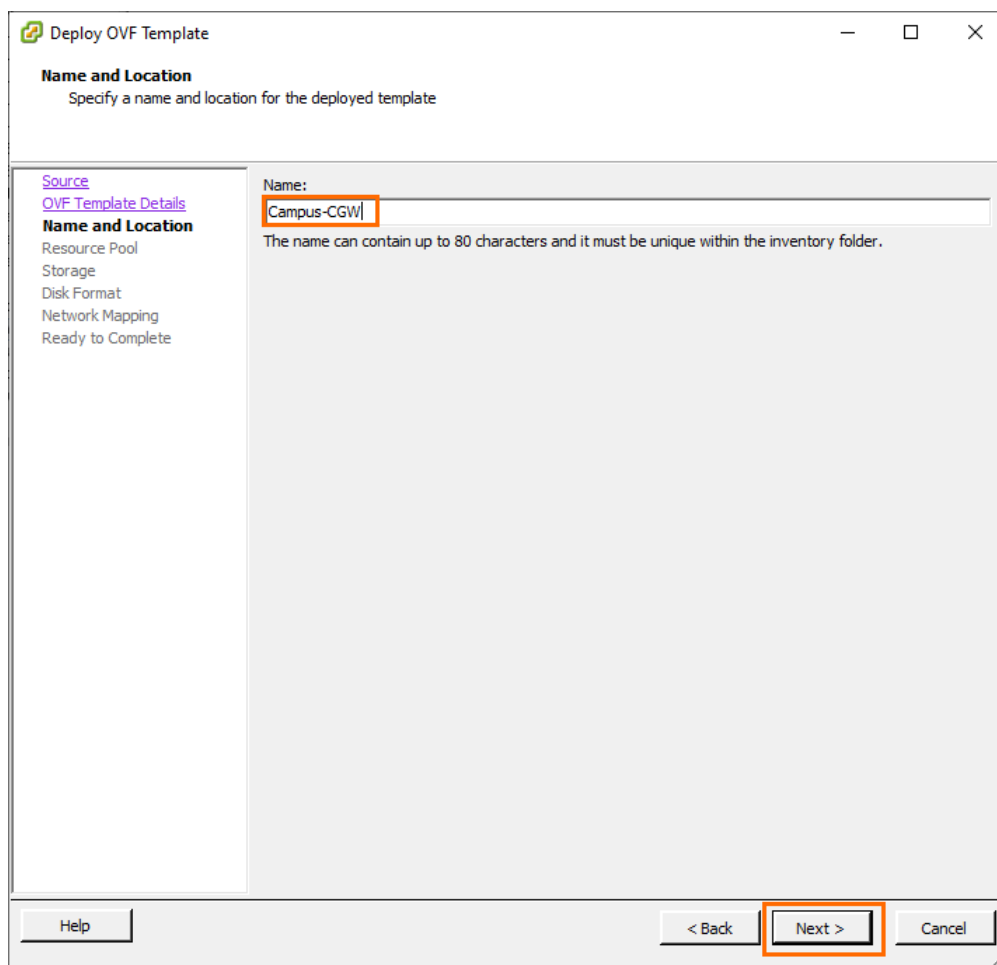
1. Connect to your VMware hypervisor using the vSphere client.
2. Click **File > Deploy OVF Template**.



3. In the deployment wizard, click **Browse** and select the OVA image. Click **Next** to proceed.

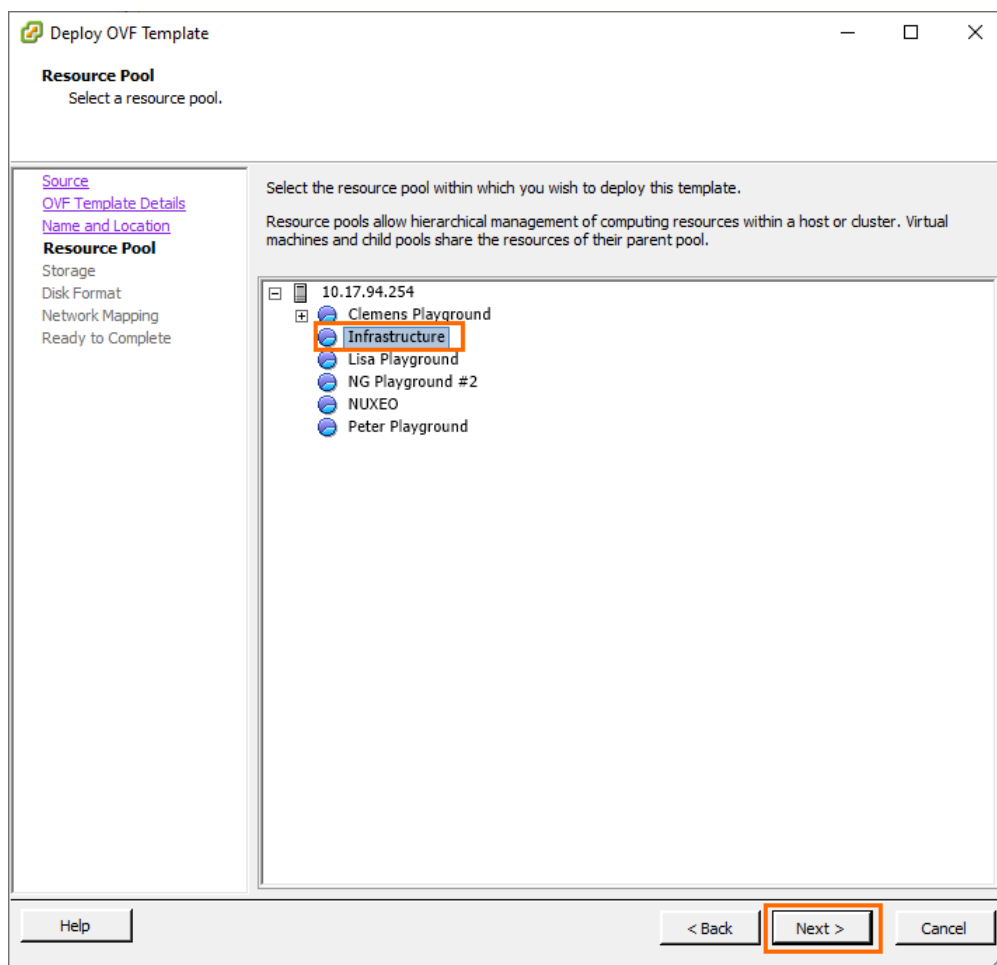


4. The **Template Details** page opens. Click **Next** to proceed.
5. Enter a name for the virtual machine to be created. Click **Next** to proceed.

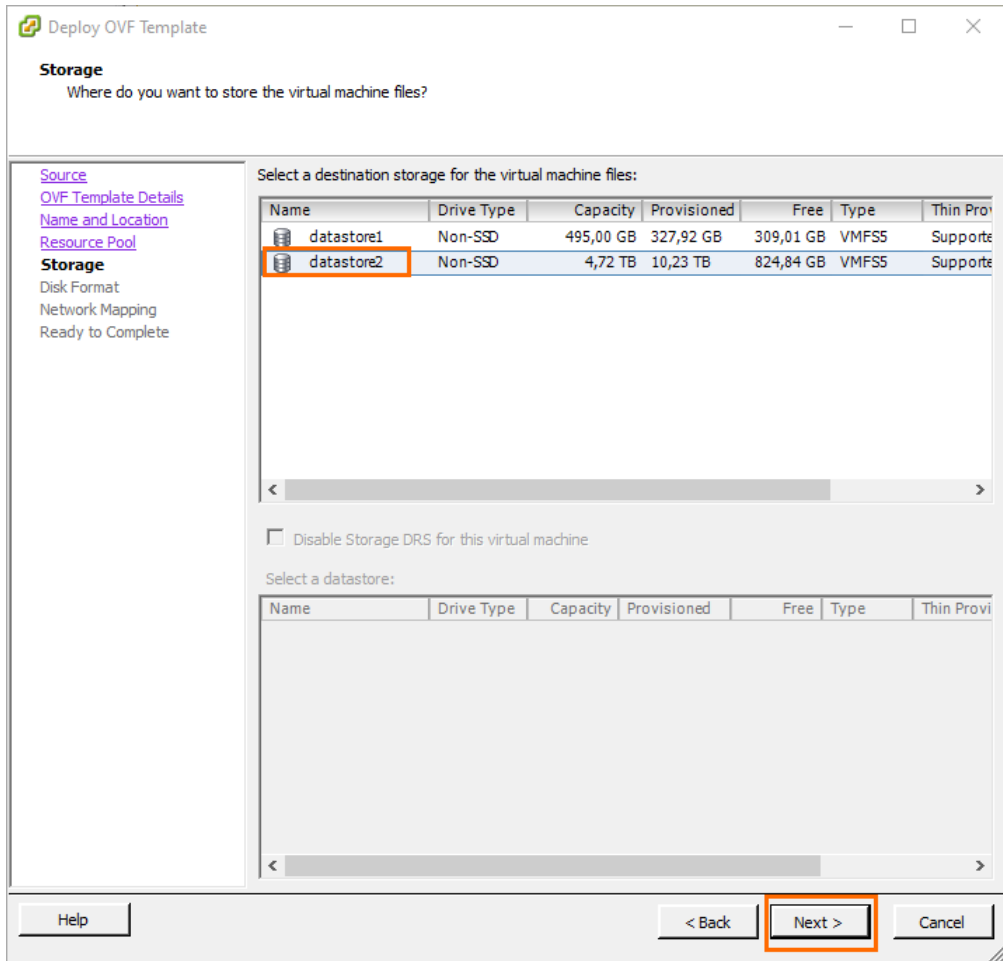


The image shows a 'Deploy OVF Template' dialog box. On the left is a sidebar with a tree view containing the following items: 'Source' (with a sub-item 'OVF Template Details'), 'Name and Location' (which is selected and highlighted), 'Resource Pool', 'Storage', 'Disk Format', 'Network Mapping', and 'Ready to Complete'. The main area of the dialog is titled 'Name and Location' and contains a text input field labeled 'Name:' with the value 'Campus-CGW' entered. Below the input field is a note: 'The name can contain up to 80 characters and it must be unique within the inventory folder.' At the bottom of the dialog are three buttons: 'Help', '< Back', and 'Next >', with the 'Next >' button highlighted. A 'Cancel' button is also present to the right of 'Next >'.

6. Select a **Resource Pool** and click **Next** to proceed.



7. The **Storage** blade opens. Select the datastore that the CloudGen WAN VTx unit should be installed on, and click **Next** to proceed.



The screenshot shows the 'Deploy OVF Template' window with the 'Storage' tab selected. The left sidebar lists navigation options: Source, OVF Template Details, Name and Location, Resource Pool, Storage (selected), Disk Format, Network Mapping, and Ready to Complete. The main area is titled 'Select a destination storage for the virtual machine files:' and contains a table with two datastores. 'datastore2' is highlighted with an orange box. Below the table is a checkbox for 'Disable Storage DRS for this virtual machine' and another table titled 'Select a datastore:'. At the bottom, the 'Next >' button is highlighted with an orange box.

Storage
Where do you want to store the virtual machine files?

Select a destination storage for the virtual machine files:

Name	Drive Type	Capacity	Provisioned	Free	Type	Thin Pro
datastore1	Non-SSD	495,00 GB	327,92 GB	309,01 GB	VMFS5	Supporte
datastore2	Non-SSD	4,72 TB	10,23 TB	824,84 GB	VMFS5	Supporte

☐ Disable Storage DRS for this virtual machine

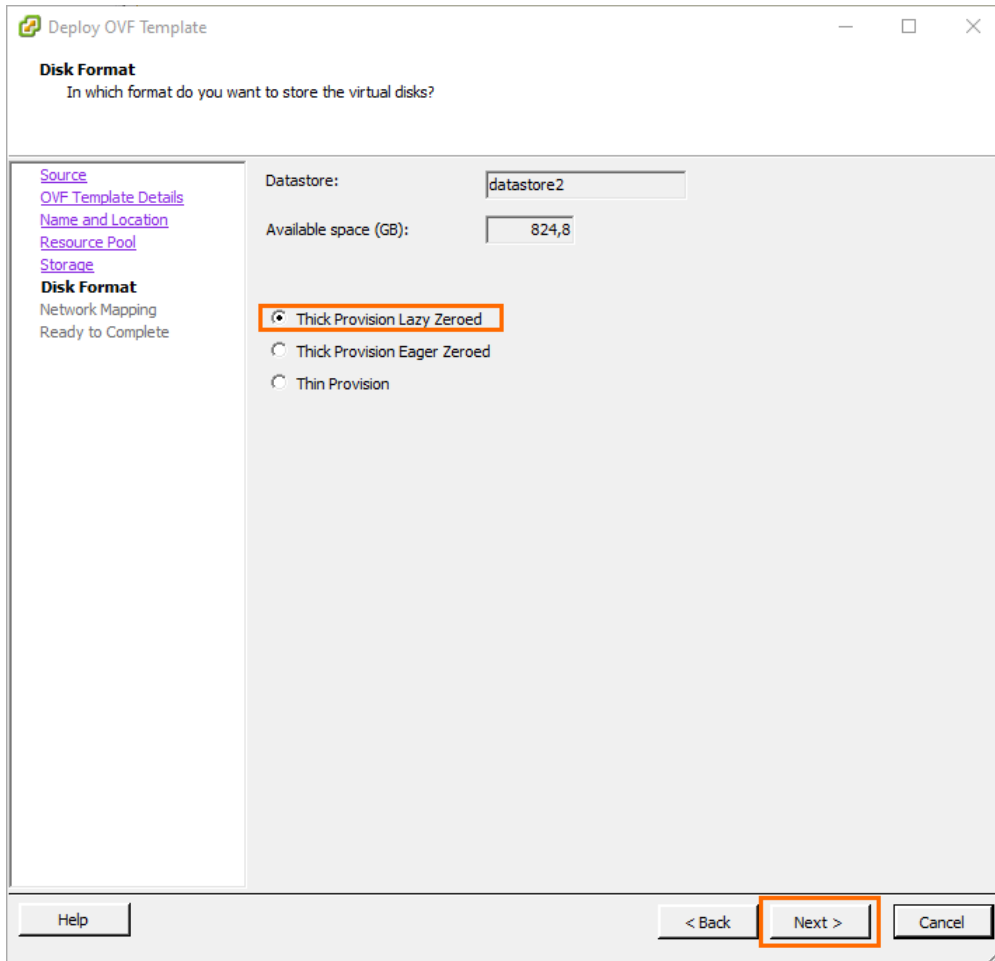
Select a datastore:

Name	Drive Type	Capacity	Provisioned	Free	Type	Thin Pro
------	------------	----------	-------------	------	------	----------

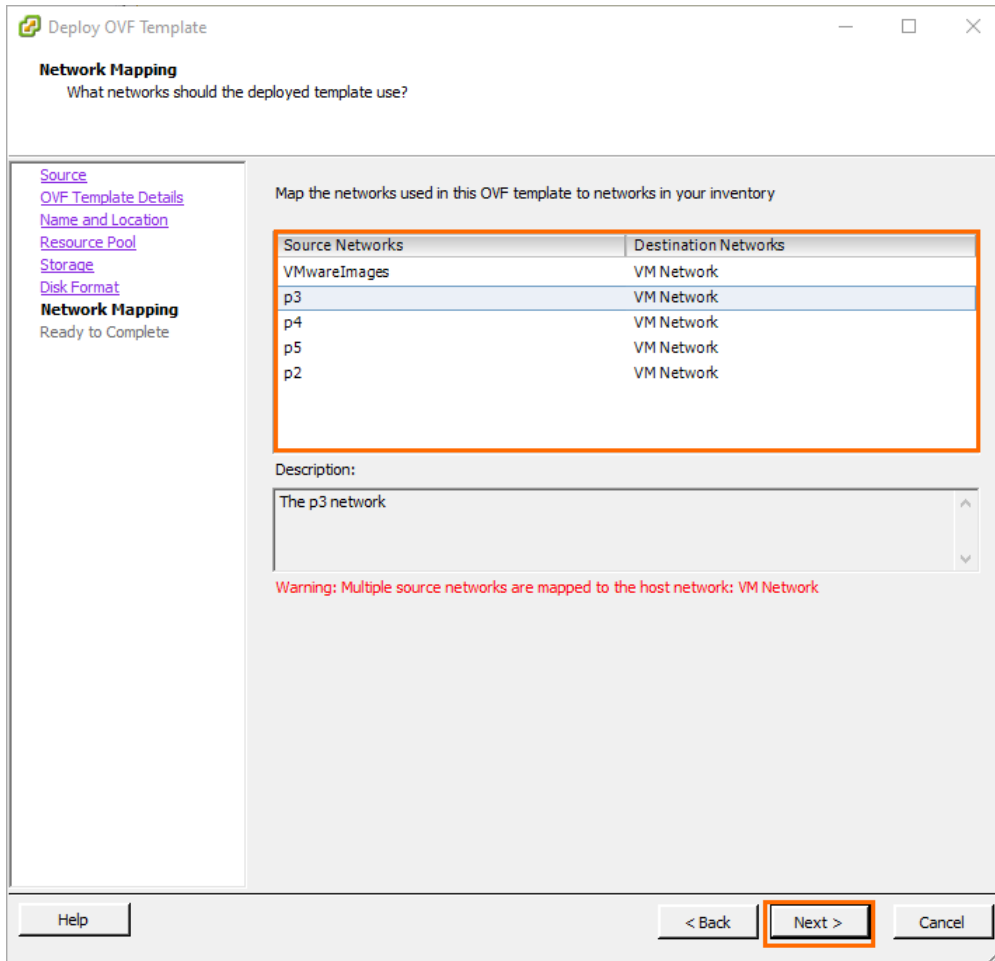
Help < Back **Next >** Cancel

8. The **Disk Format** Blade opens. Select a disk format.

When you import an OVA file with VMware 4.1 or higher, you are offered the **Thin provisioned format** setting that lets you change the VM size. If you choose to reduce the VM size, do not choose a value below 80 GB. Barracuda Networks recommends that you select **Thick Provision Lazy Zeroed** format.



9. Map to the required network in your existing inventory, and then click **Next** to proceed. P4 must be connected to a network with Internet connection using DHCP. Port 1 is reserved for high availability. If you are using high availability, connect port 1 to a switch where only the port 1 of the other virtual machine of the high availability cluster is connected to. Map the other ports according to your configuration in [How to Create a T/VT Site Configuration in Barracuda CloudGen WAN](#).



Deploy OVF Template

Network Mapping
What networks should the deployed template use?

[Source](#)
[OVF Template Details](#)
[Name and Location](#)
[Resource Pool](#)
[Storage](#)
[Disk Format](#)
Network Mapping
Ready to Complete

Map the networks used in this OVF template to networks in your inventory

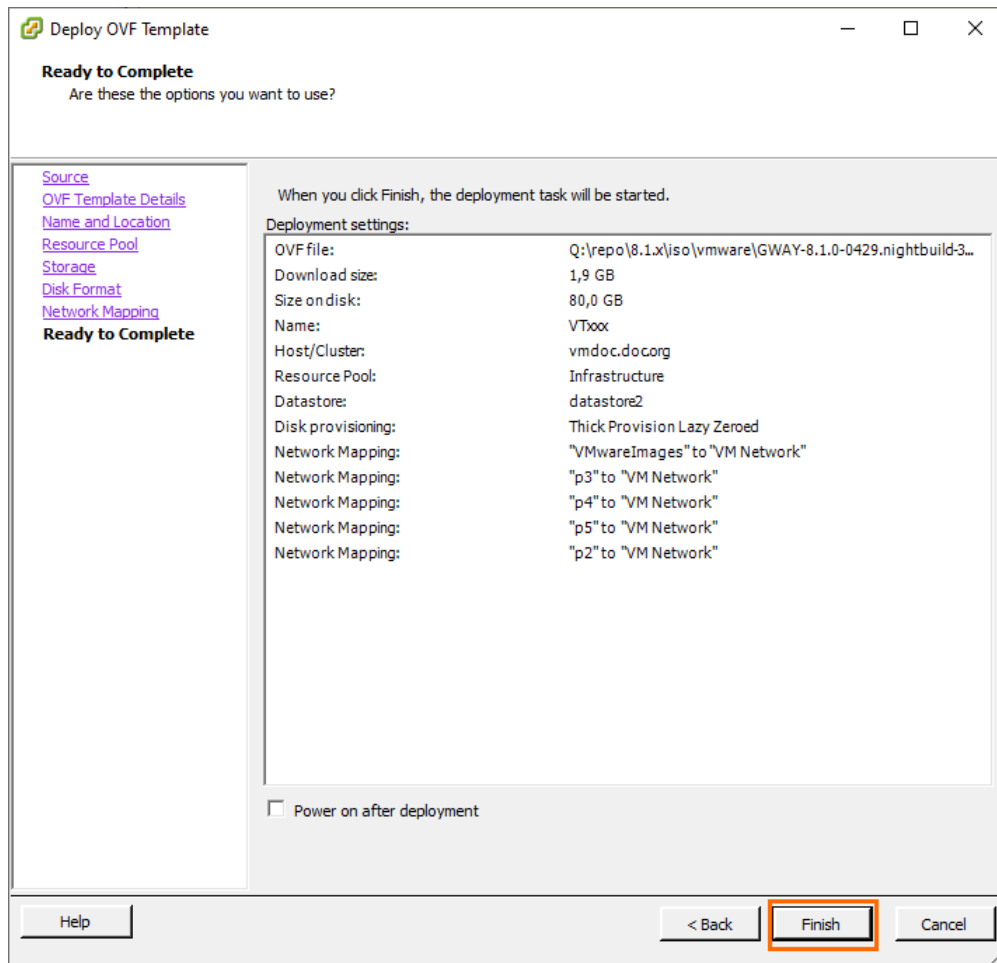
Source Networks	Destination Networks
VMwareImages	VM Network
p3	VM Network
p4	VM Network
p5	VM Network
p2	VM Network

Description:
The p3 network

Warning: Multiple source networks are mapped to the host network: VM Network

Help < Back **Next >** Cancel

10. After the deployment wizard summarizes all your settings, click **Finish** to start the deployment process.



11. After successful deployment, the Barracuda CloudGen WAN VTx unit is displayed in your VMware hypervisor inventory list on the left.
12. Select the CloudGen WAN VTx unit from the list on the left, and edit settings such as **Memory** with appropriate values. For information regarding the sizing of your CPU, disk, and RAM, see [Virtual Systems \(VTx\) Deployment](#).

Do not start the virtual machine at this point.

Step 2. Verify that Port 4 of Your VM is Connected to the Internet Using a Network with DHCP

If the Internet connection of the virtual appliance is secured by a firewall, verify that SSL Inspection is disabled between the Barracuda CloudGen WAN appliance and the Internet.

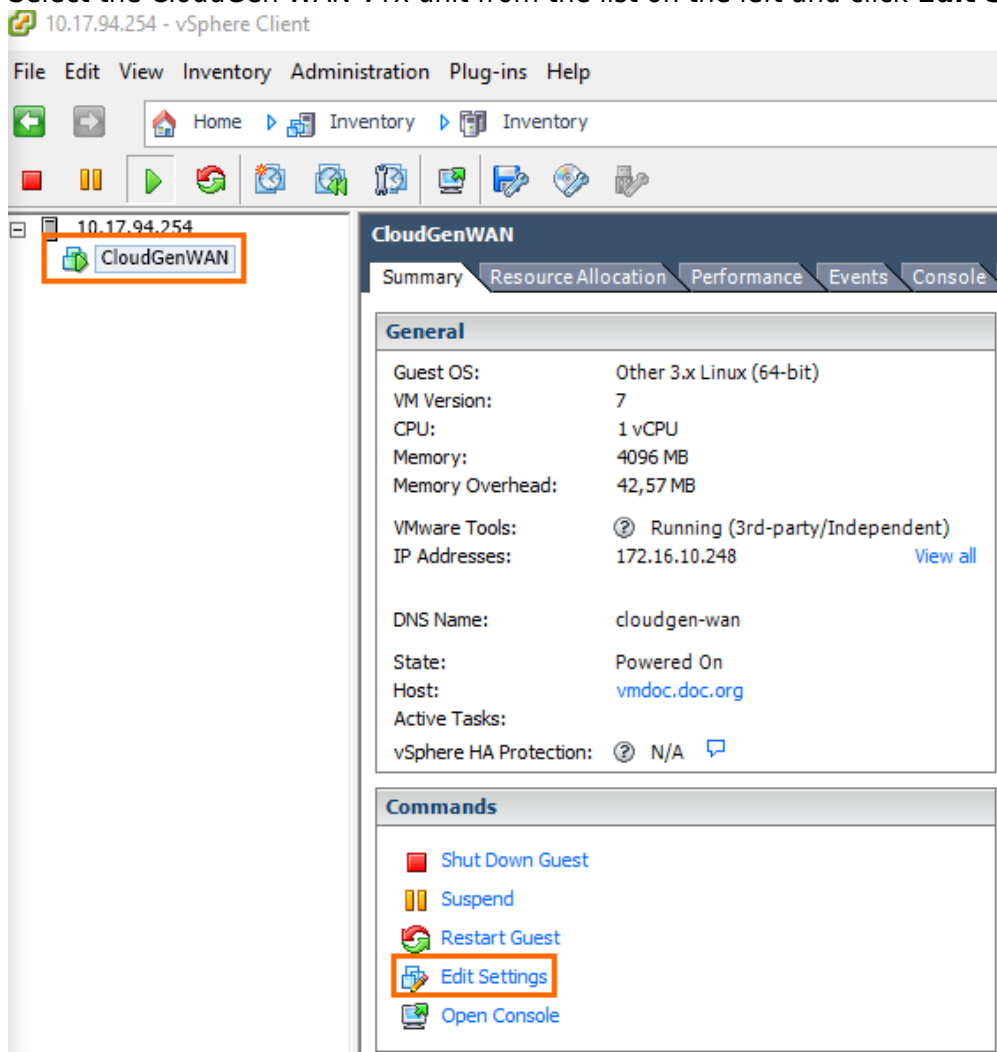
Due to a kernel level problem, the port numbers are not the same numbers as the network adapter numbers, and since the NICs are assigned on the VM side, port numbering can vary. In

the default 5 port configuration, the port labels correspond with the following adapters:

Port Number	Network Adapter	Network Adapter ESX 7.03 (Latest Version)	Notes
P1	1	4	High Availability
P2	5	1	
P3	2	5	
P4	3	2	DHCP
P5	4	3	

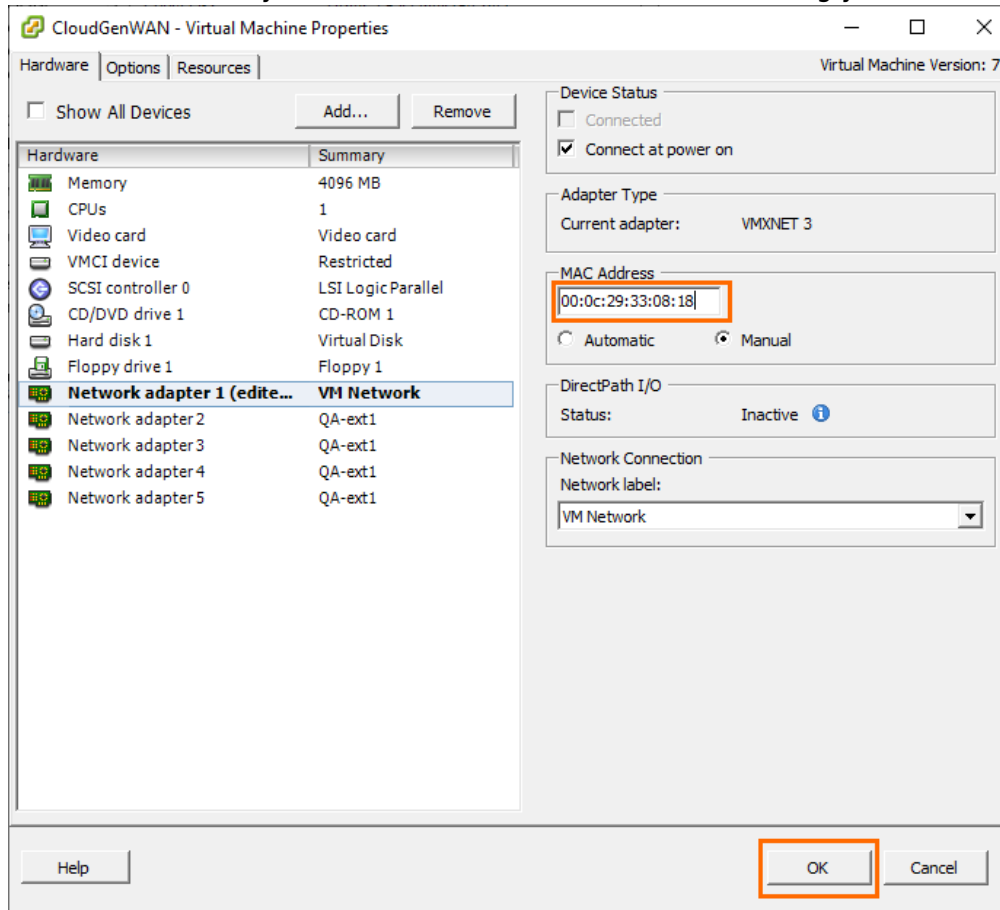
If you use more than 5 network interfaces, verify the network mapping using the MAC address.

1. Connect to your VMware hypervisor using the vSphere client.
2. Select the CloudGen WAN VTx unit from the list on the left and click **Edit Settings**.



3. Click **Network Adapter 3** and verify that port 4 of your virtual machine it is connected to a network with Internet connection using DHCP.

- Click **Network Adapter 1** and assign a manual MAC address to the first virtual network interface. This lets you move the VM later without invalidating your license.

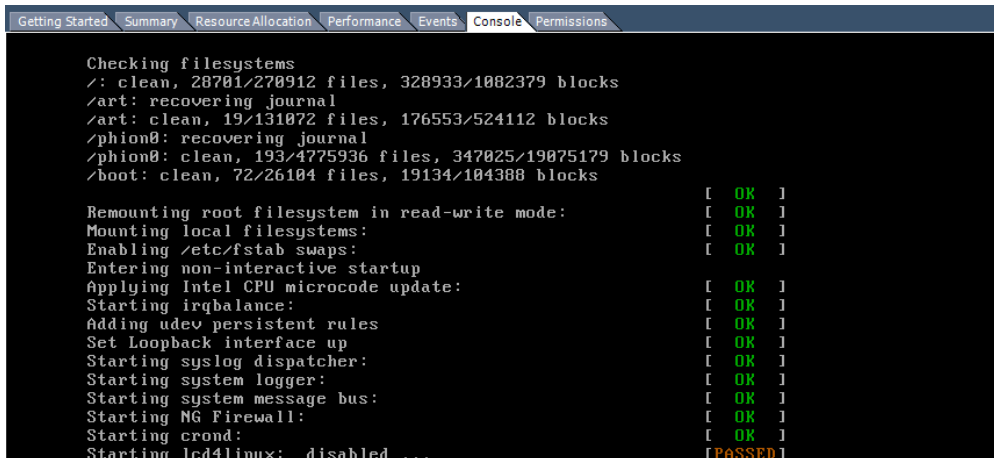


- Click **OK** to save your changes.

You can start the virtual machine now.

Step 3. Enter the License Token

- Start the VM and click the **Console** tab of the virtual machine. The Barracuda CloudGen WAN VTx unit boots.



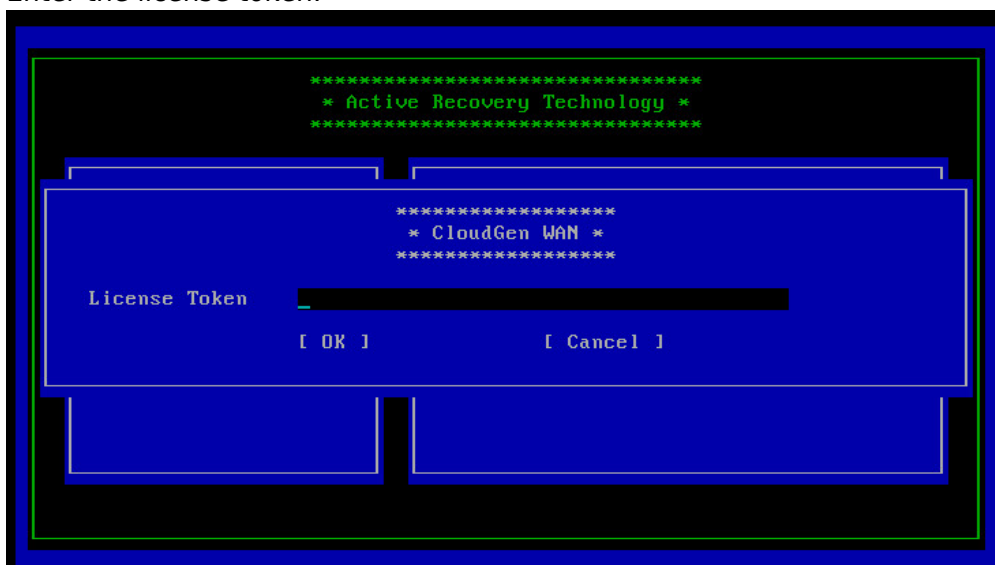
```
Getting Started Summary Resource Allocation Performance Events Console Permissions
Checking filesystems
/: clean, 28701/270912 files, 328933/1082379 blocks
/art: recovering journal
/art: clean, 19/131072 files, 176553/524112 blocks
/phion0: recovering journal
/phion0: clean, 193/4775936 files, 347025/19075179 blocks
/boot: clean, 72/26104 files, 19134/104388 blocks

Remounting root filesystem in read-write mode: [ OK ]
Mounting local filesystems: [ OK ]
Enabling /etc/fstab swaps: [ OK ]
Entering non-interactive startup
Applying Intel CPU microcode update: [ OK ]
Starting irqbalance: [ OK ]
Adding udev persistent rules [ OK ]
Set Loopback interface up [ OK ]
Starting syslog dispatcher: [ OK ]
Starting system logger: [ OK ]
Starting system message bus: [ OK ]
Starting NG Firewall: [ OK ]
Starting crond: [ OK ]
Starting lcd4linux: disabled ... [PASSED]
```

2. For a basic configuration, the CloudGen WAN unit launches the **Active Recovery Technology** menu.



3. Select **CloudGen WAN** with the arrow keys and press Enter.
4. Enter the license token:



5. Select **OK** with the arrow keys and press Enter.
6. The appliance connects to the CloudGen WAN service and applies the configuration set in [How to Create a T/VT Site Configuration in Barracuda CloudGen WAN](#).

Figures

1. Deploy_Template.png
2. browse.png
3. name.png
4. resourcepool.png
5. datastore.png
6. format.png
7. Network_Mapping.png
8. summry.png
9. selectvm.png
10. mac.png
11. virtual-boot.png
12. art_basic1.png
13. token.png

© Barracuda Networks Inc., 2024 The information contained within this document is confidential and proprietary to Barracuda Networks Inc. No portion of this document may be copied, distributed, publicized or used for other than internal documentary purposes without the written consent of an official representative of Barracuda Networks Inc. All specifications are subject to change without notice. Barracuda Networks Inc. assumes no responsibility for any inaccuracies in this document. Barracuda Networks Inc. reserves the right to change, modify, transfer, or otherwise revise this publication without notice.