

## How to Deploy a SecureEdge VTx on Hyper-V

<https://campus.barracuda.com/doc/98223582/>

The Barracuda SecureEdge VTx appliance is available as a Generation-1 virtual machine for your Microsoft Hyper-V hypervisor. Before deploying the Barracuda SecureEdge VTx appliance, verify that the host system meets the minimum storage requirements and review the resource recommendations for the production system. Deploying the firewall as a Generation-2 VM on Hyper-V is currently not supported.

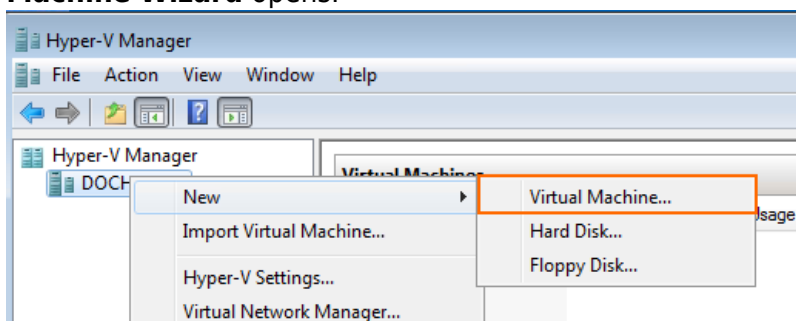
### Before You Begin

- For information regarding the sizing of your CPU, disk, and RAM, see [Virtual Systems \(VTx\) Deployment](#).
- Download the Barracuda SecureEdge VTx appliance VHD virtual disk image from the [Barracuda Download Portal](#).
- Copy the VHD virtual disk image to the Microsoft Hyper-V server.
- Make sure the Hyper-V virtual machine uses a static MAC address on the network interface 1. This lets you move the VM later without invalidating your license.

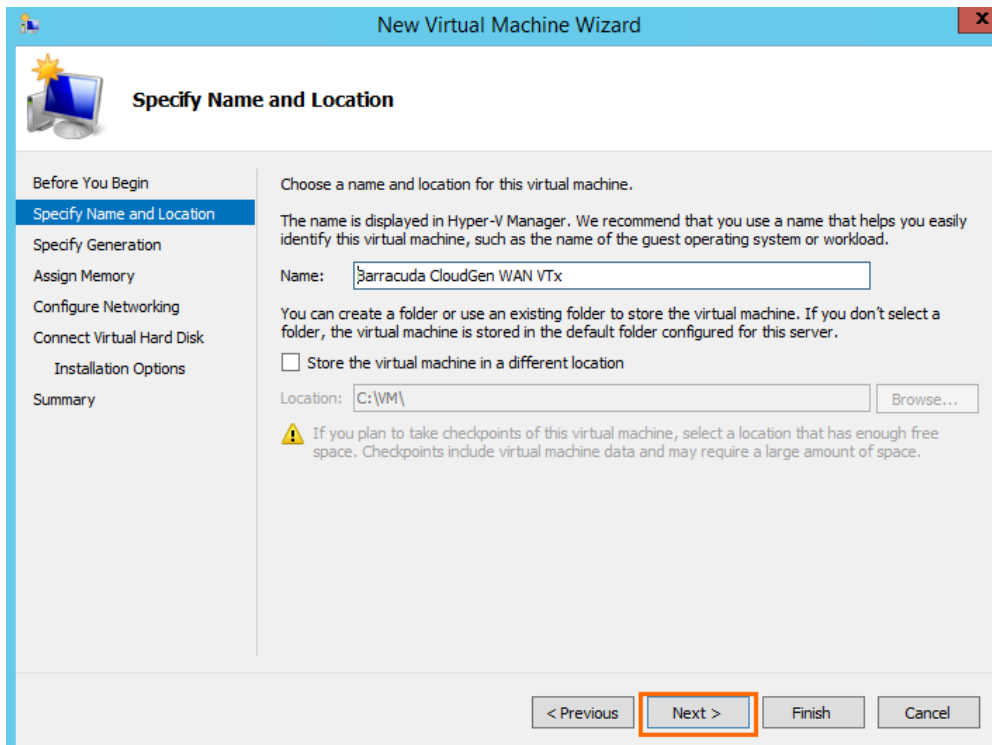
### Step 1. Create a New Virtual Machine

Create a virtual machine using the sizing recommendations for your model of the Barracuda SecureEdge VTx appliance.

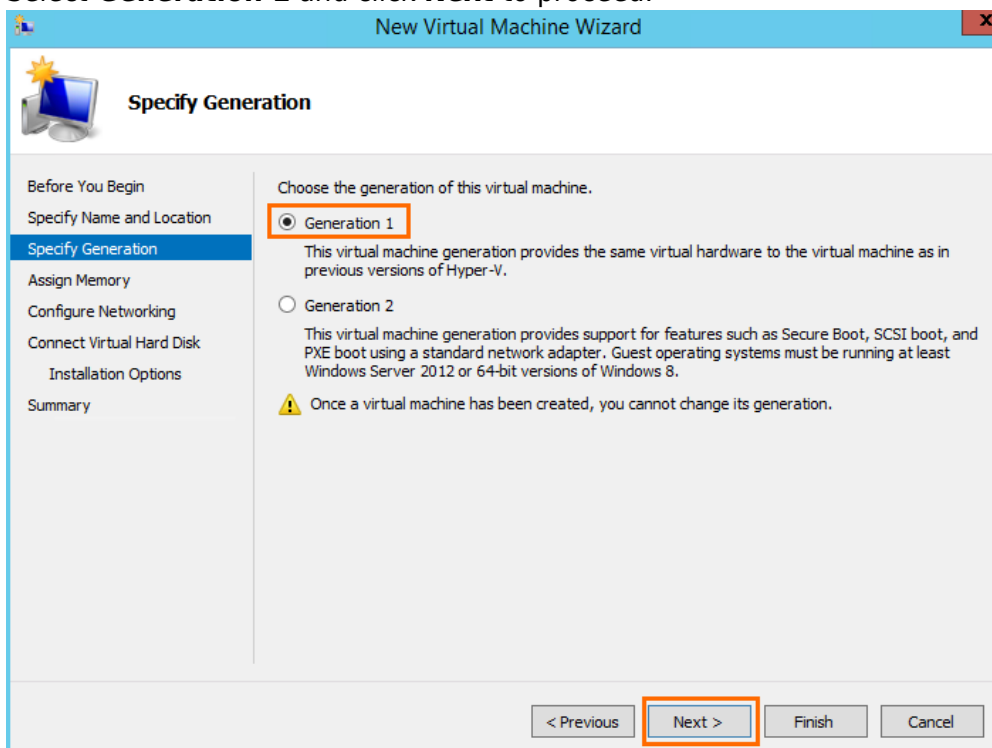
1. Launch Hyper-V Manager.
2. Right-click on your Hyper-V server and select **New > Virtual Machine**. The **New Virtual Machine Wizard** opens.



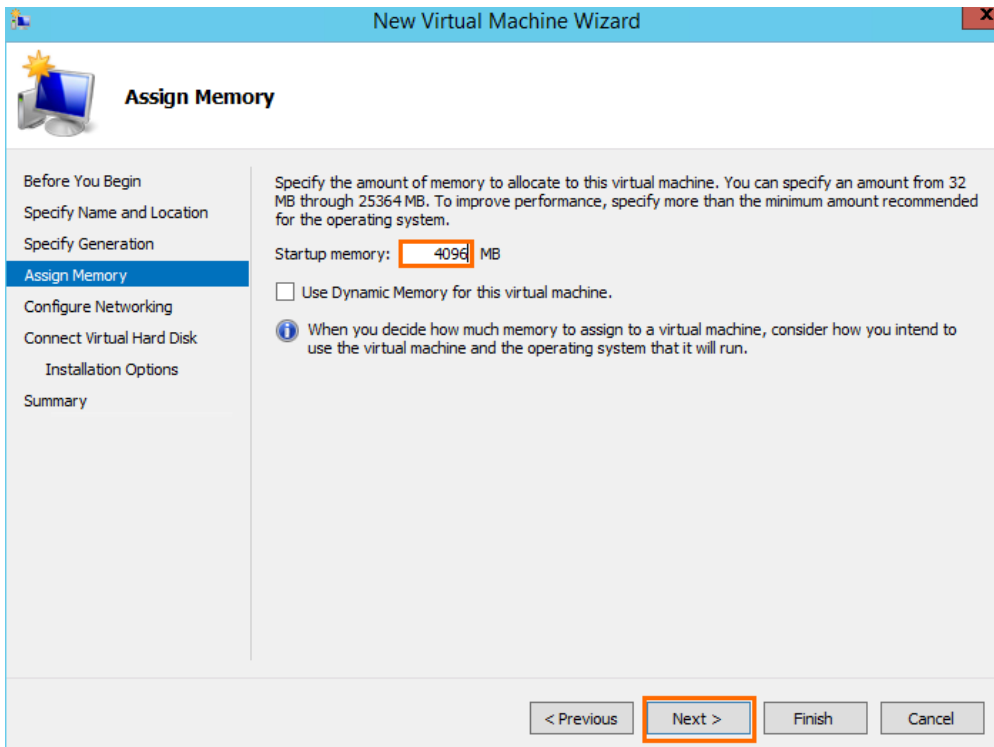
3. Enter the **Name**. E.g., Barracuda SecureEdge VTx and click **Next** to proceed.



4. The **Specify Generation** blade opens.
5. Select **Generation 1** and click **Next** to proceed.



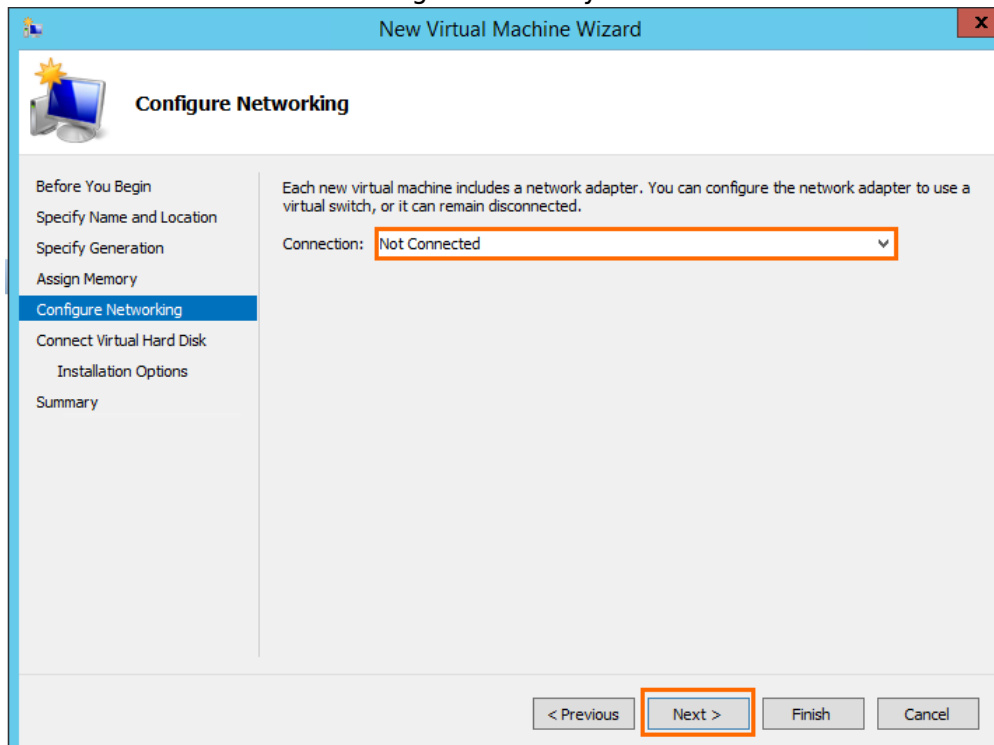
6. Enter the amount of **memory** in MB. E.g., 4096. For information regarding the sizing of your CPU, disk, and RAM, see [Virtual Systems \(VTx\) Deployment](#).



The screenshot shows the 'Assign Memory' step of the 'New Virtual Machine Wizard'. The left sidebar contains a list of steps: 'Before You Begin', 'Specify Name and Location', 'Specify Generation', 'Assign Memory' (highlighted), 'Configure Networking', 'Connect Virtual Hard Disk', 'Installation Options', and 'Summary'. The main area has a title 'Assign Memory' with a computer icon. Below the title, it says 'Specify the amount of memory to allocate to this virtual machine. You can specify an amount from 32 MB through 25364 MB. To improve performance, specify more than the minimum amount recommended for the operating system.' The 'Startup memory' is set to '4096 MB'. There is an unchecked checkbox for 'Use Dynamic Memory for this virtual machine.' and an information icon with text: 'When you decide how much memory to assign to a virtual machine, consider how you intend to use the virtual machine and the operating system that it will run.' At the bottom, there are buttons: '< Previous', 'Next >' (highlighted), 'Finish', and 'Cancel'.

7. Click **Next**.

8. The **Configure Networking** blade opens. Select **Not Connected** from the **Connection** drop down-menu. If you are using High Availability, select the virtual switch where only port 1 of the other virtual machine of the High Availability cluster is connected to.



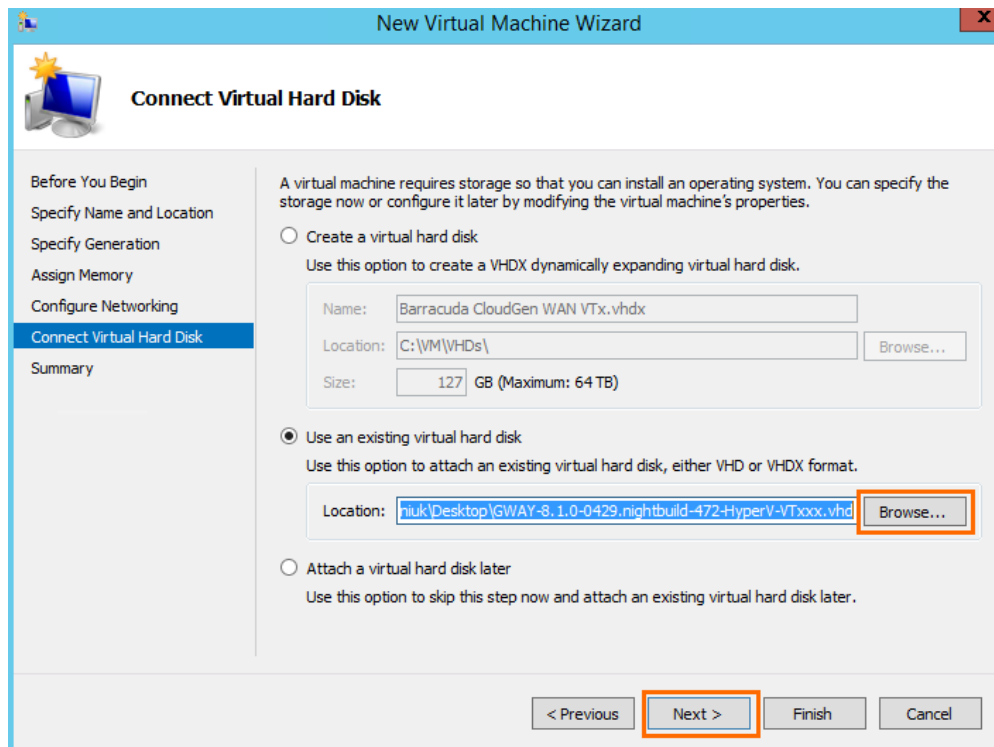
The screenshot shows the 'Configure Networking' step of the 'New Virtual Machine Wizard'. The left sidebar is the same as the previous screen, but 'Configure Networking' is now highlighted. The main area has a title 'Configure Networking' with a computer icon. Below the title, it says 'Each new virtual machine includes a network adapter. You can configure the network adapter to use a virtual switch, or it can remain disconnected.' The 'Connection' dropdown menu is set to 'Not Connected'. At the bottom, there are buttons: '< Previous', 'Next >' (highlighted), 'Finish', and 'Cancel'.

9. Click **Next**.

10. The **Connect Virtual Hard Disk** blade opens.

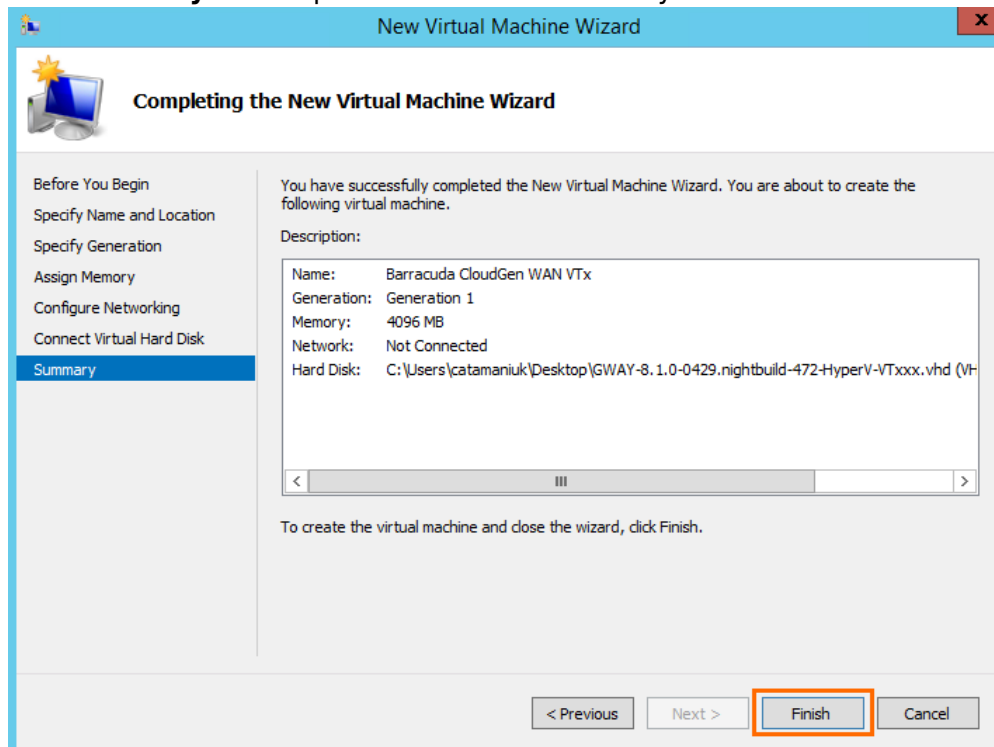
11. Select **Use an existing virtual hard disk** and click **Browse** to specify the **Location** of the

VHD file downloaded earlier.



12. Click **Next**.

13. The **Summary** blade opens. Review the summary and click **Finish**.

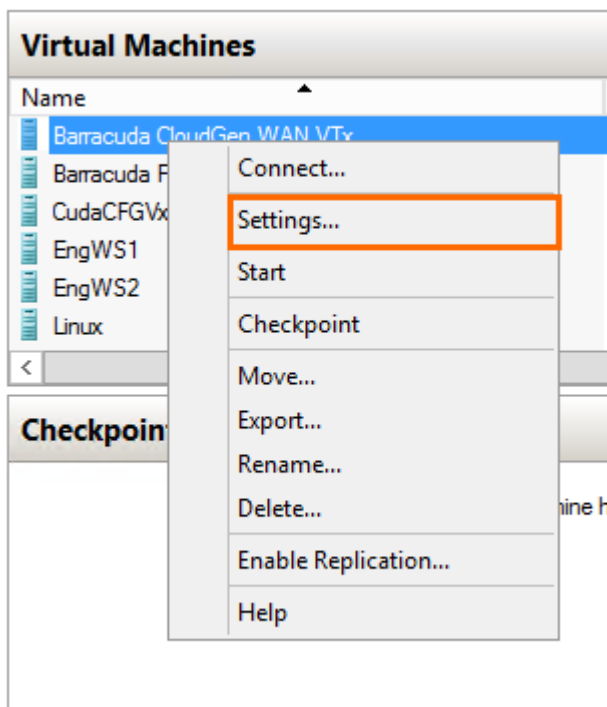


Do not start the virtual machine at this point.

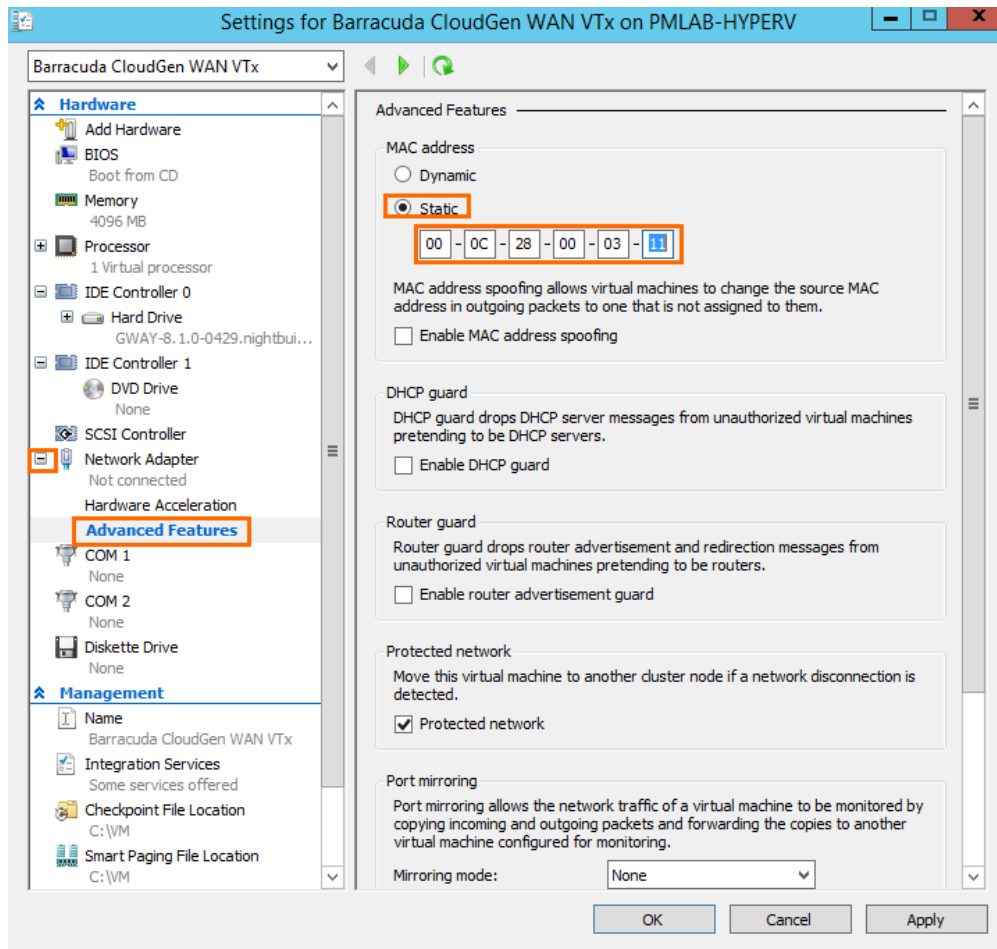
## Step 2. Networking of the Virtual Machine

By default, Barracuda SecureEdge appliances use 5 network interfaces. Therefore, 4 network interfaces must be added and connected according to the configuration you applied in the [How to Create a T/VT Site Configuration in Barracuda SecureEdge](#).

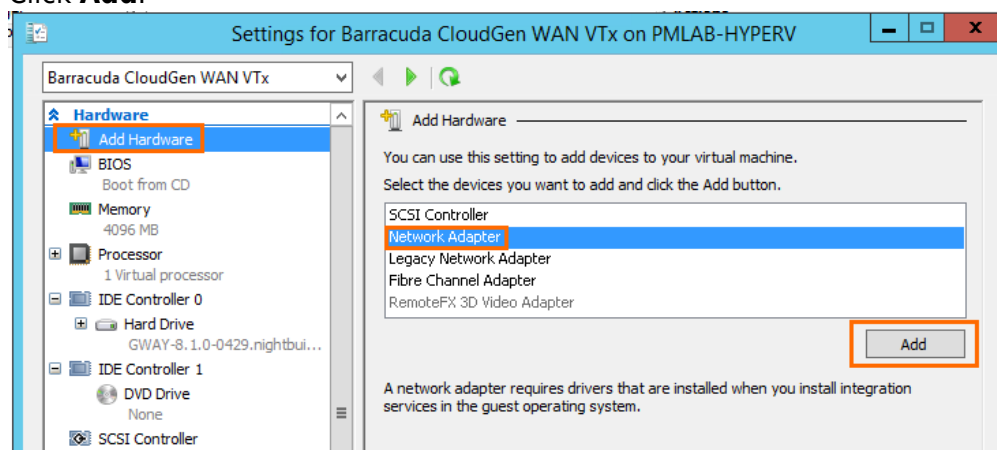
1. Launch Hyper-V Manager.
2. Right-click on your virtual machine deployed in Step 1.
3. Click **Settings**.



4. Click on the first **Network Adapter** entry.
5. Click + next to the first **Network Adapter** entry.
6. Click **Advanced Features**.
7. In the MAC address section, select **Static** and enter a MAC address. This lets you move the VM later without invalidating your license.



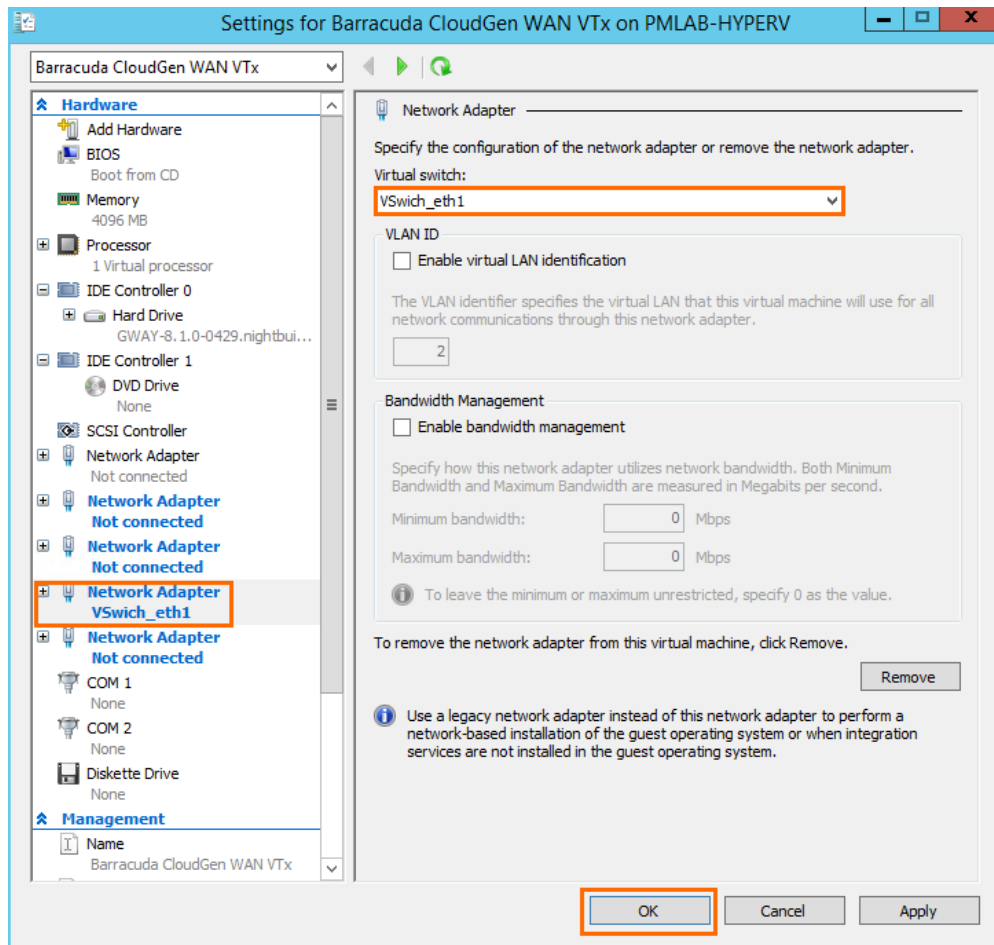
8. Click **Add Hardware**.
9. Select **Network Adapter**.
10. Click **Add**.



11. Repeat Step 8 to Step 10 until you have 5 network adapters configured.
12. Click on the entry of the 4th network adapter.

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

13. From the **Virtual switch** drop-down menu, select a network with Internet connection using DHCP.

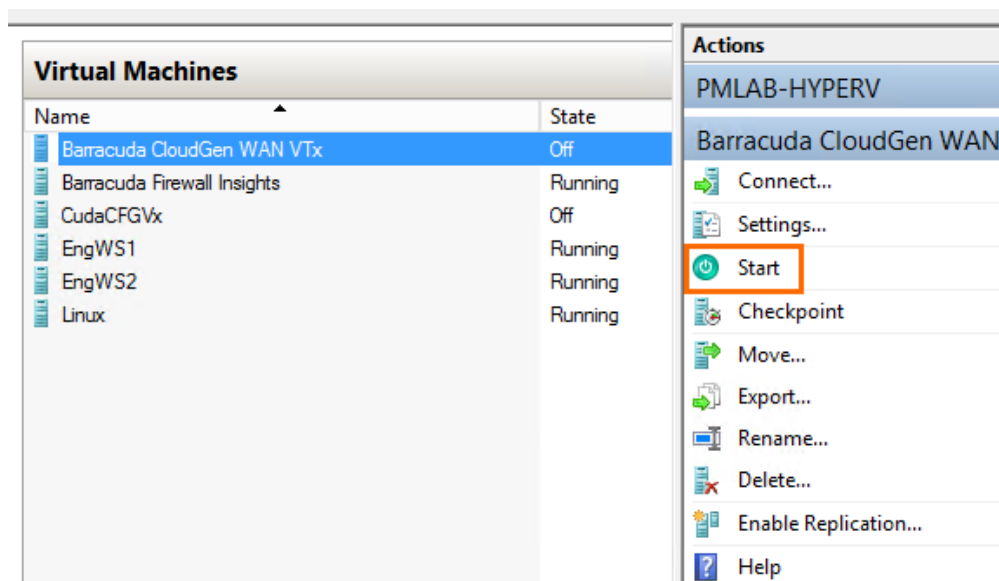


14. Connect the other network adapters according to the configuration created in [How to Create a T/VT Site Configuration in Barracuda SecureEdge](#).
15. Click **OK**.

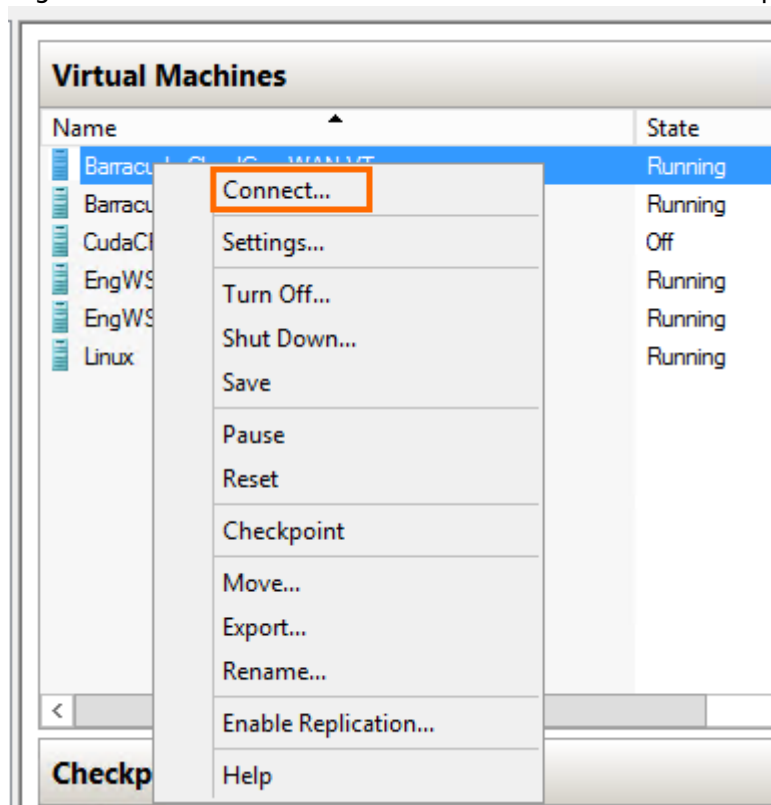
You can start the virtual machine now.

### Step 3. Enter the License Token

1. Select the virtual machine created in Step 1 and click **Start**.



2. Right-click in the virtual machine and click **Connect** to open the console of the virtual machine.



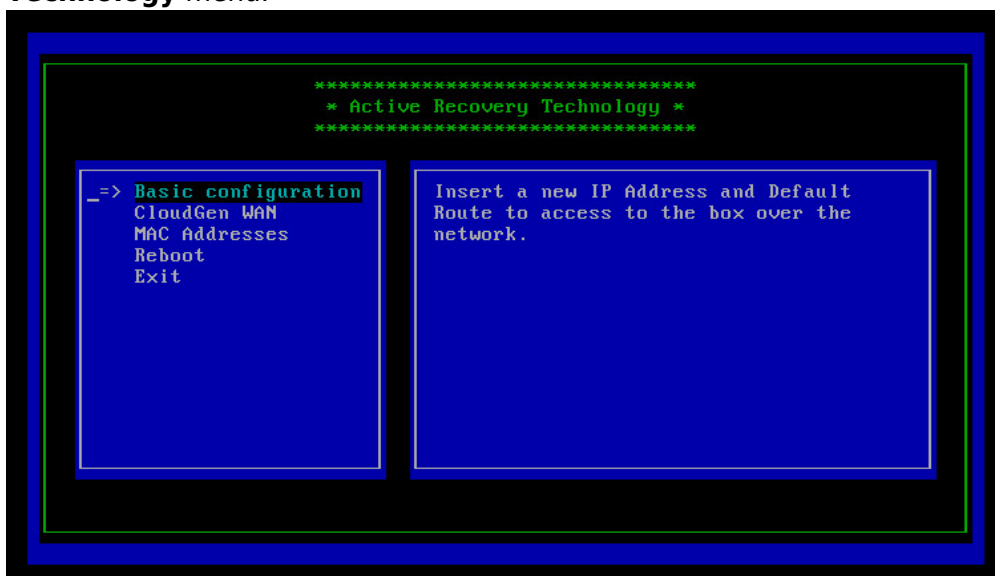
The Barracuda SecureEdge VTx unit boots.



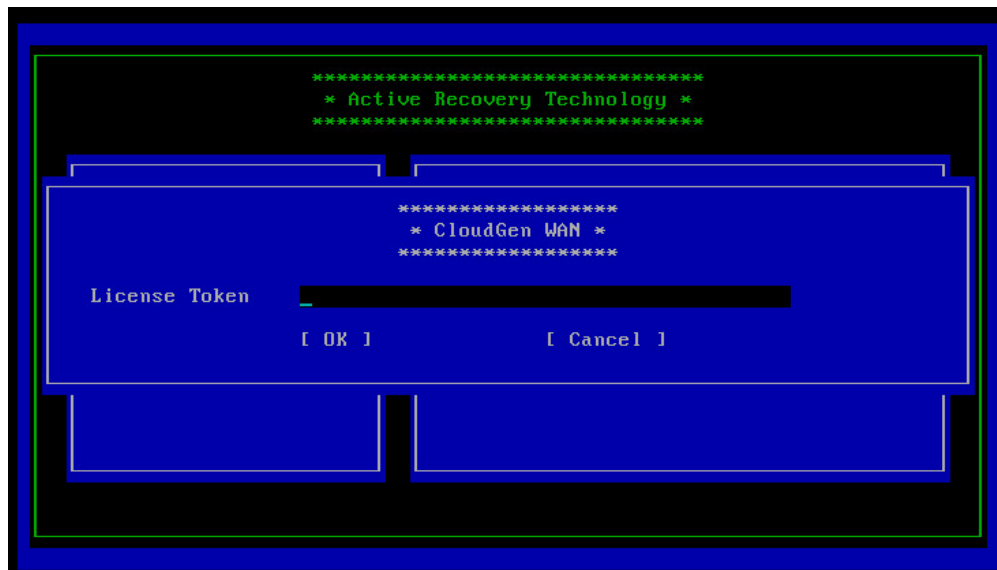
```
Checking filesystems
/: clean, 28701/270912 files, 328933/1082379 blocks
/art: recovering journal
/art: clean, 19/131072 files, 176553/524112 blocks
/phion0: recovering journal
/phion0: clean, 193/4775936 files, 347025/19075179 blocks
/boot: clean, 72/26104 files, 19134/104388 blocks

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]
```

3. For a basic configuration, the SecureEdge unit launches the **Active Recovery Technology** menu.



4. Select **SecureEdge** with the arrow keys and press Enter.  
5. Enter the license token:



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

## Figures

1. hyperV00.png
2. name.png
3. generations.png
4. memory.png
5. network1.png
6. hdd.png
7. summary.png
8. settings.png
9. static\_mac1.png
10. add\_nic.png
11. nics.png
12. start.png
13. connect.png
14. virtual-boot.png
15. art\_basic1.png
16. token.png

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