

## 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.

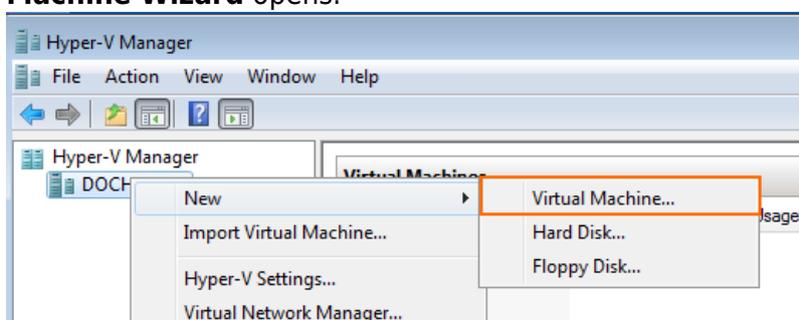
### Before You Begin

- 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.

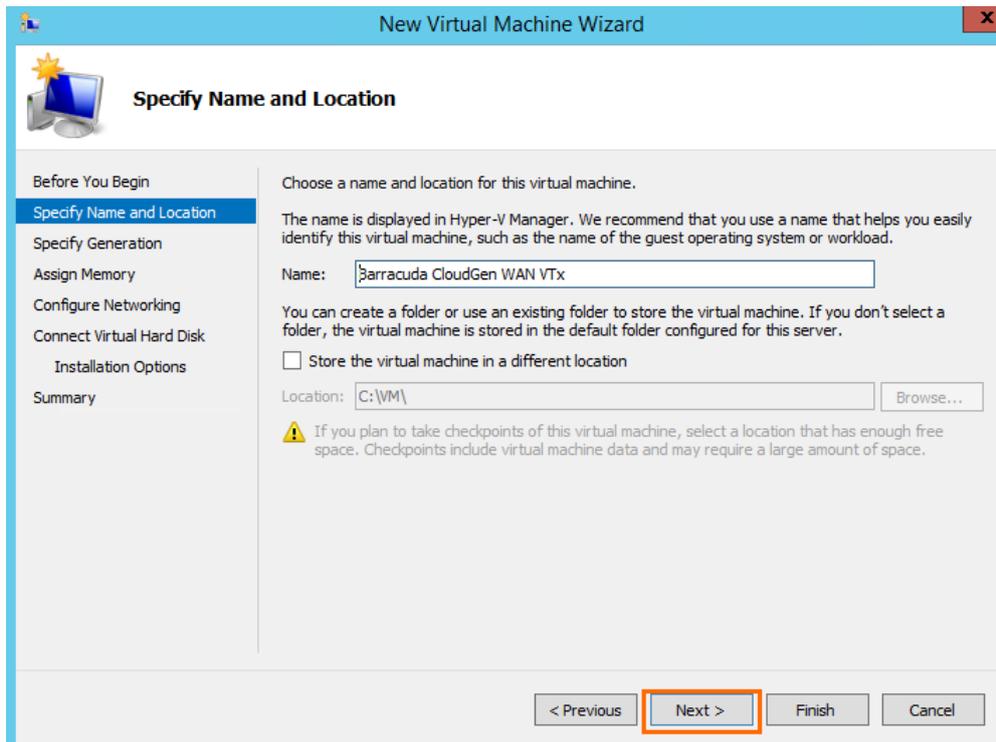
### Step 1. Create a New Virtual Machine

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

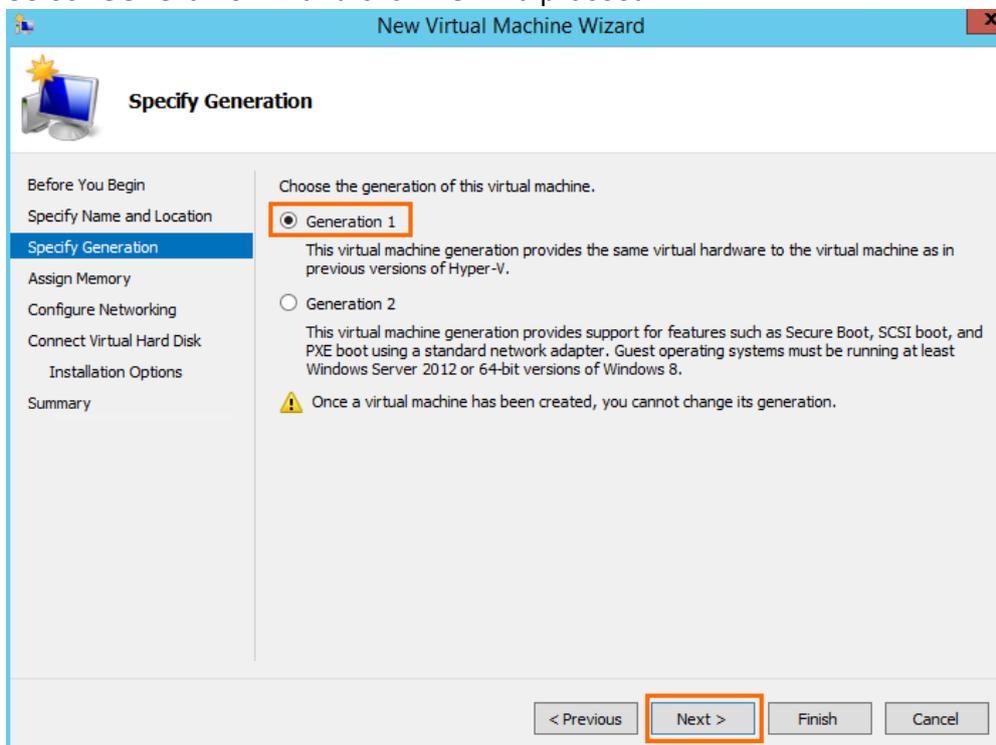
1. Launch Hyper-V Manager.
2. Right-click on your Hyper-V server and select **New > Virtual Machine**. The **New Virtual Machine Wizard** opens.



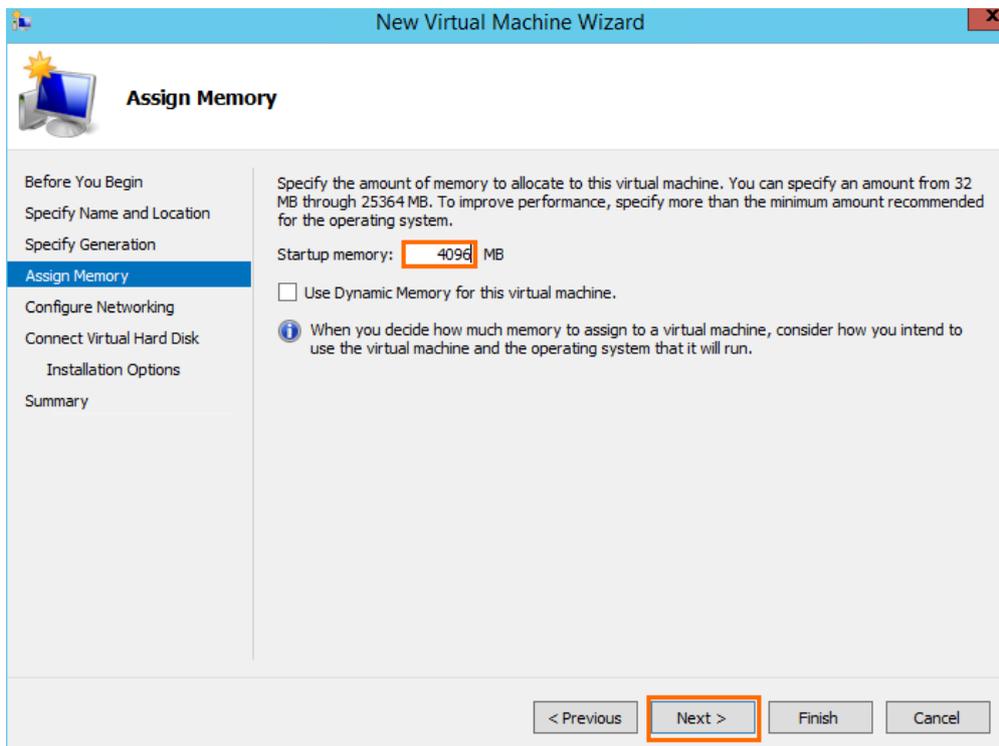
3. Enter the **Name**. E.g., Barracuda SecureEdge VTx and click **Next** to proceed.



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

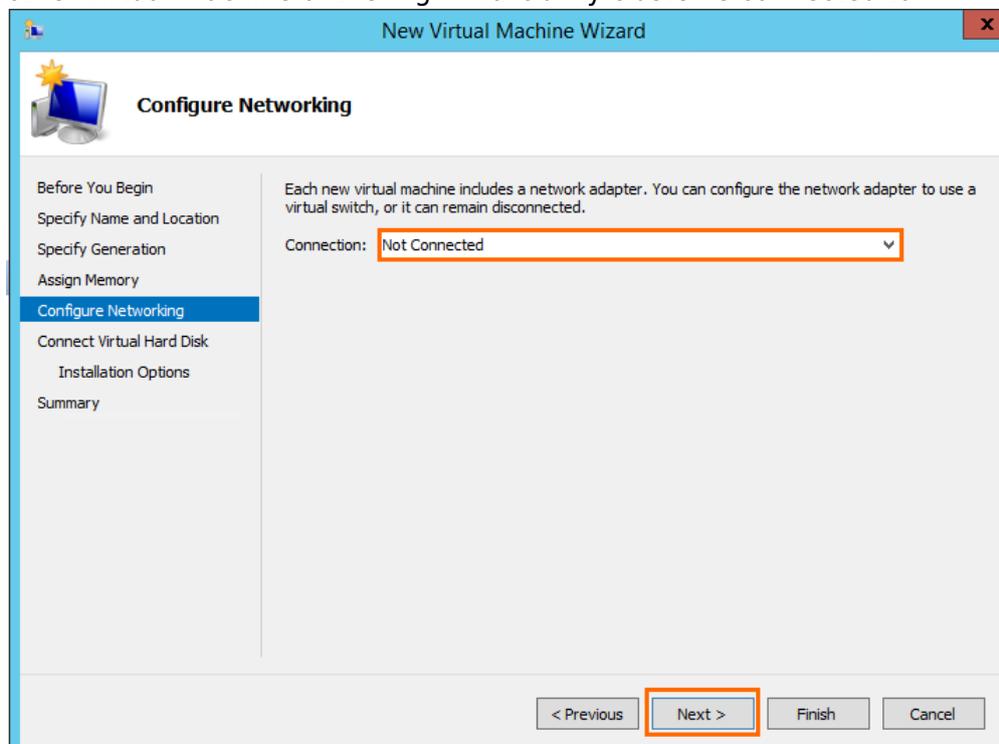


6. Enter the amount of **memory** in MB. E.g., 4096. For information regarding the sizing of your CPU, disk, and RAM, see [Virtual Systems \(VTx\) Deployment](#).



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.

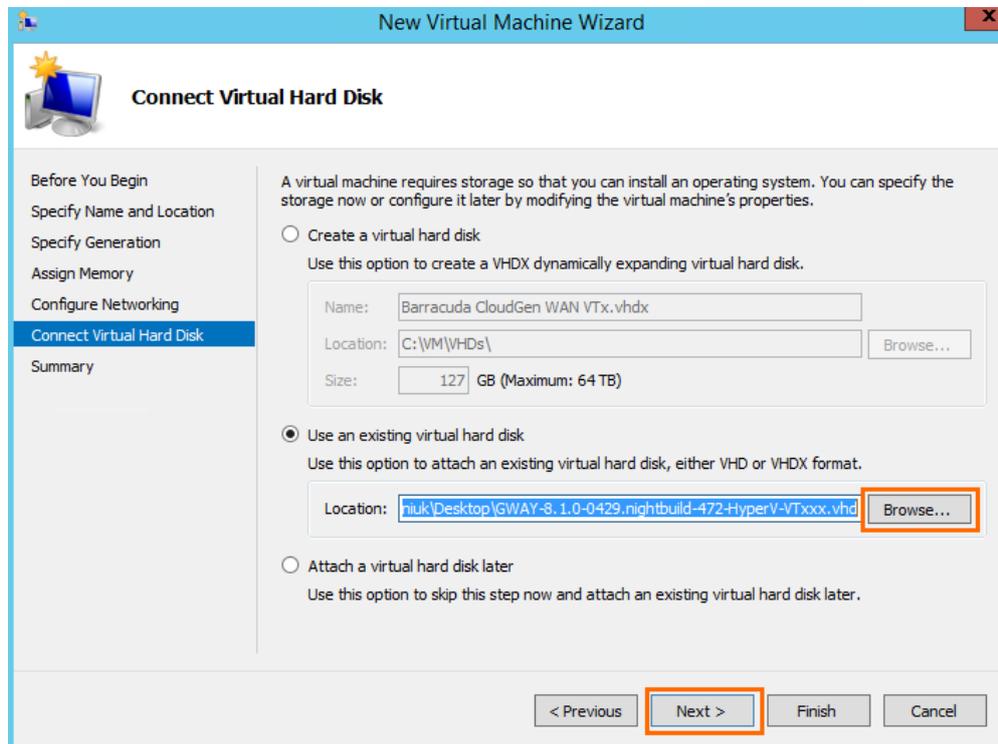


9. Click **Next**.

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

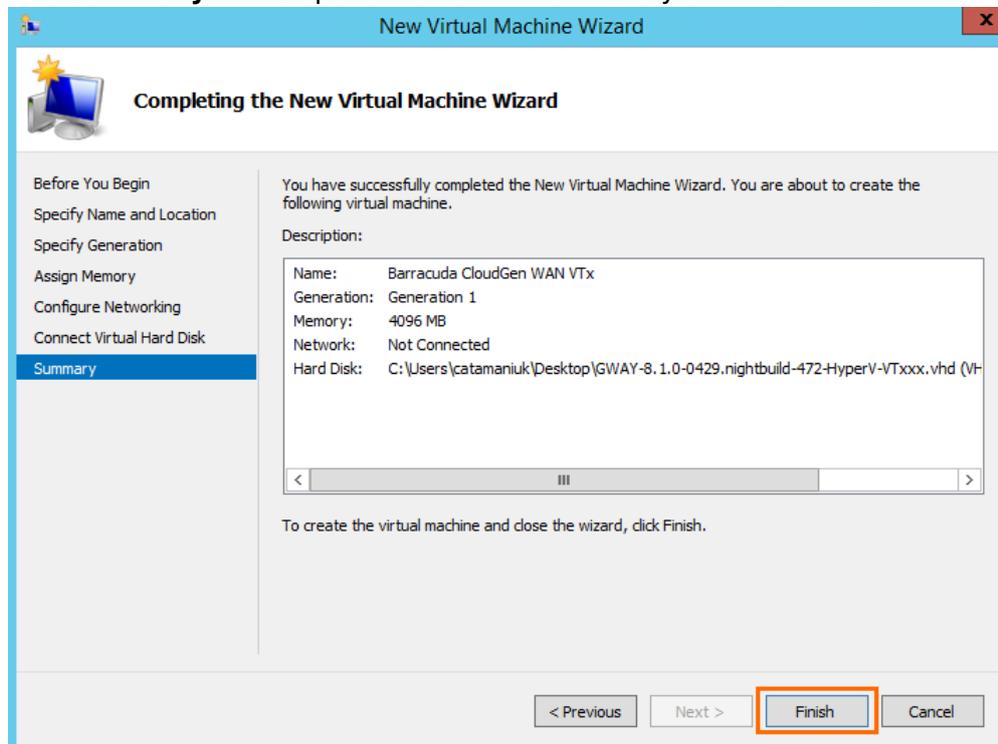
11. Select **Use an existing virtual hard disk** and click **Browse** to specify the **Location** of the

VHD file downloaded earlier.



12. Click **Next**.

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

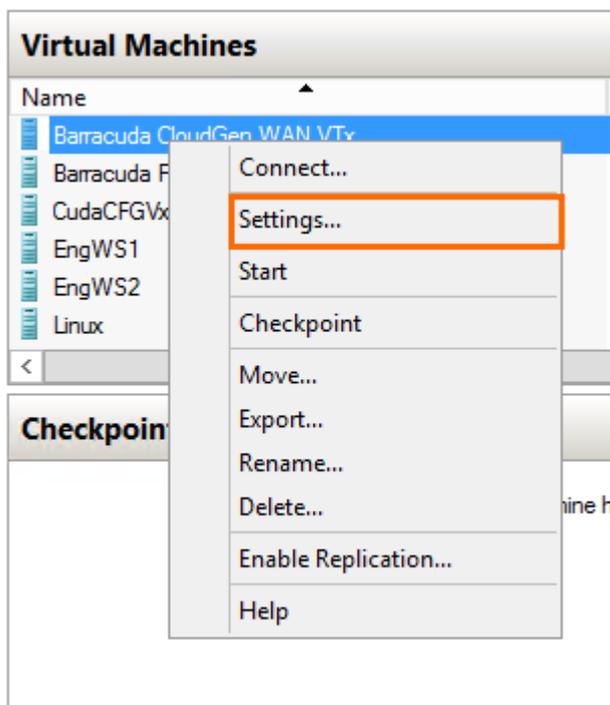


Do not start the virtual machine at this point.

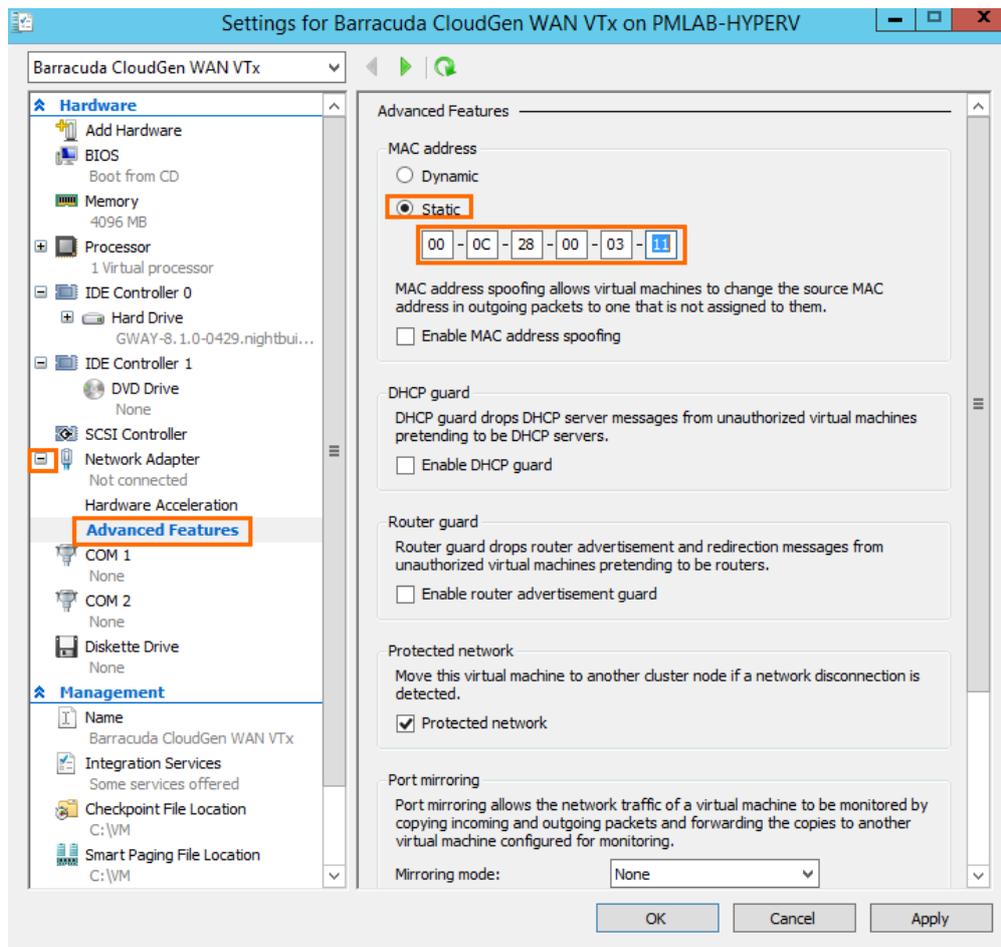
## Step 2. Networking of the Virtual Machine

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](#).

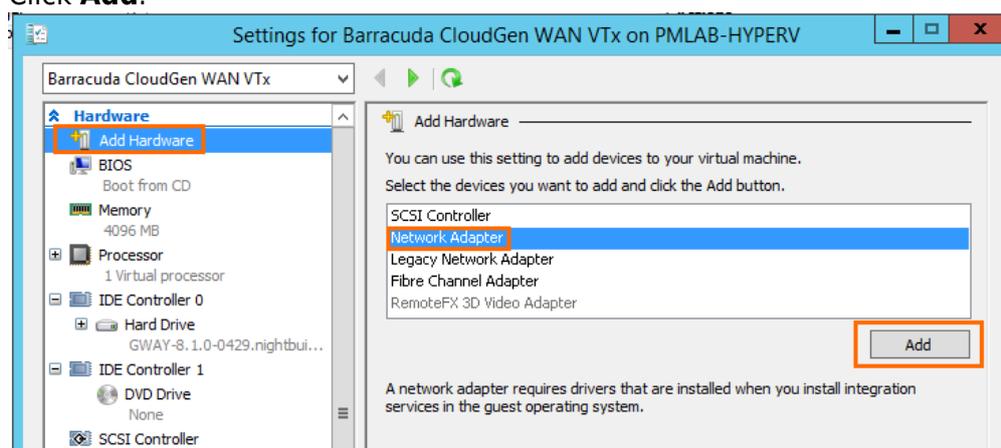
1. Launch Hyper-V Manager.
2. Right-click on your virtual machine deployed in Step 1.
3. Click **Settings**.



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.



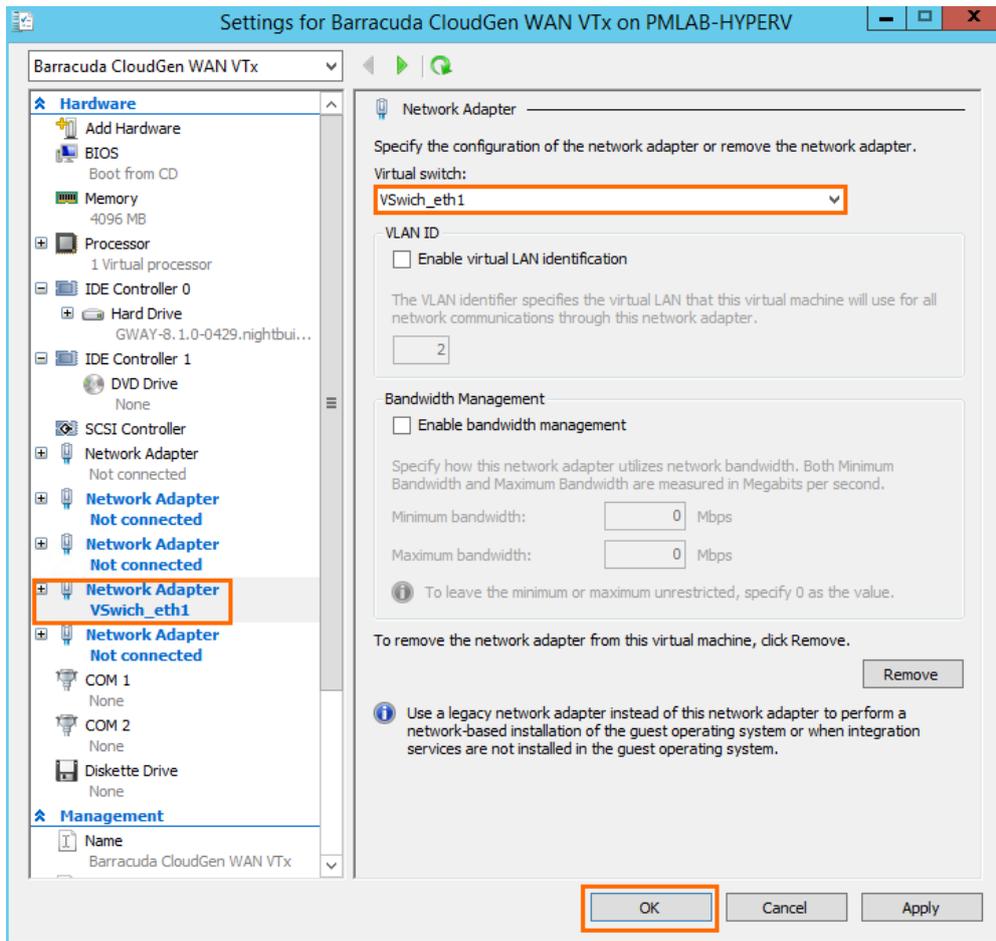
8. Click **Add Hardware**.
9. Select **Network Adapter**.
10. Click **Add**.



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.

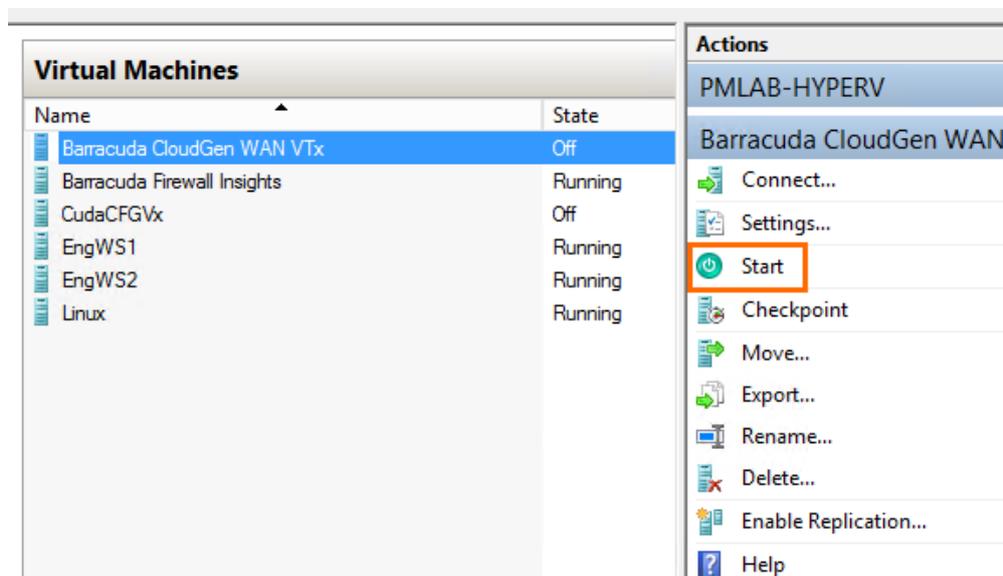


14. Connect the other network adapters according to the configuration created in [How to Create a T/MT Site Configuration in Barracuda SecureEdge](#).
15. Click **OK**.

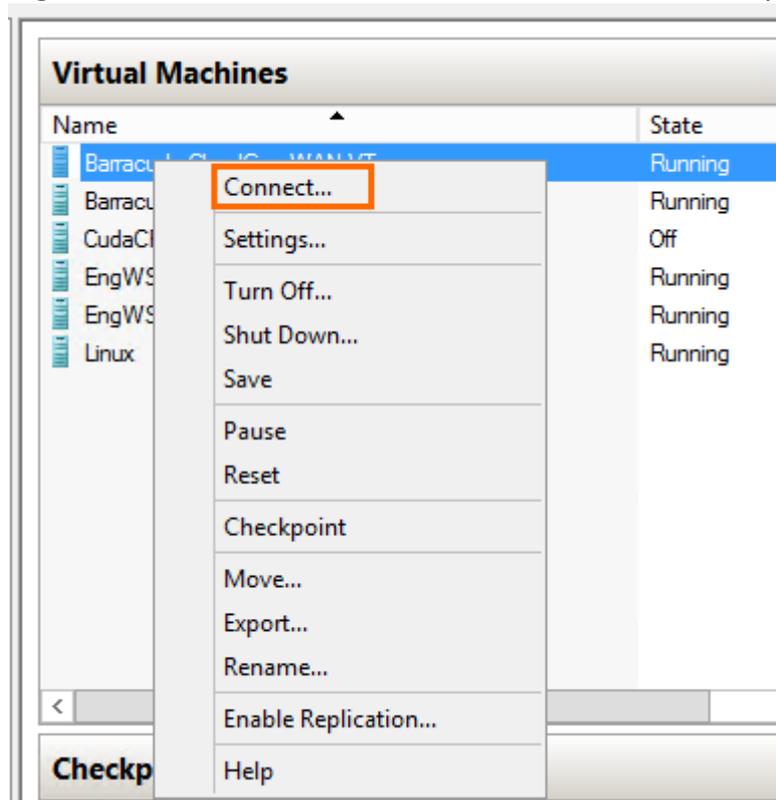
You can start the virtual machine now.

### 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.

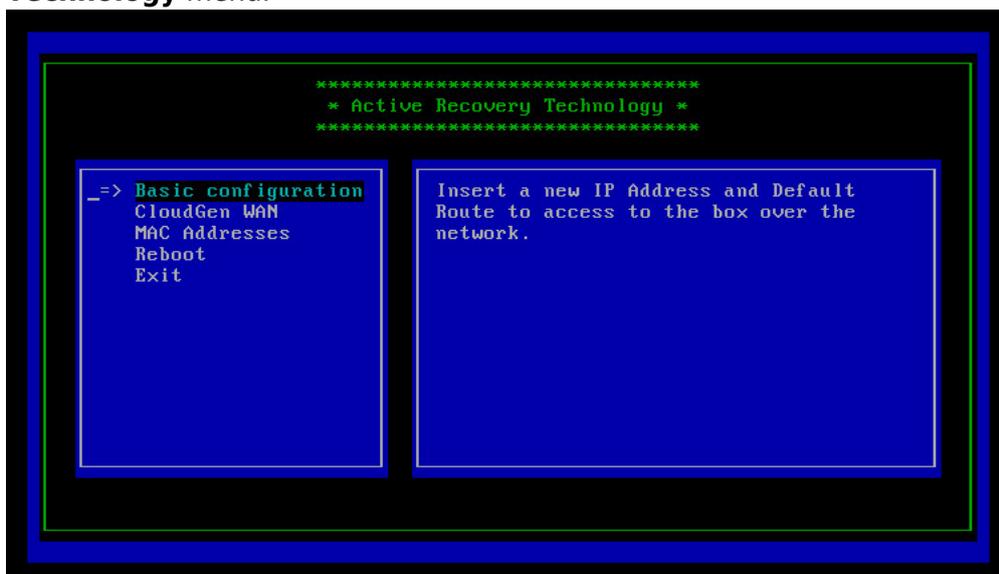


The Barracuda SecureEdge VTx unit boots.

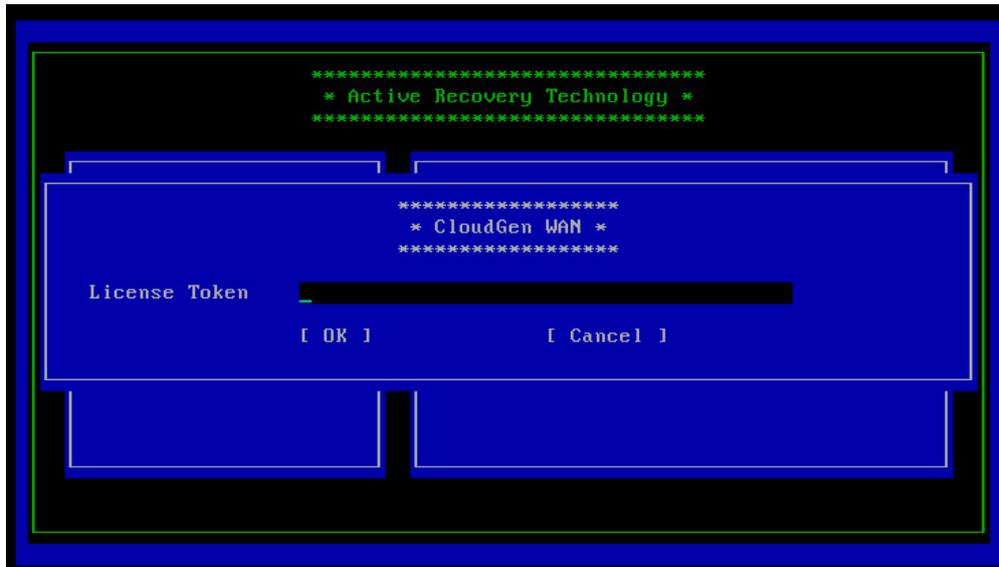
```
Checking filesystems
/: clean, 28701/270912 files, 328933/1082379 blocks
/art: recovering journal
/art: clean, 19/131072 files, 176553/524112 blocks
/phion0: recovering journal
/phion0: clean, 193/4775936 files, 347025/19075179 blocks
/boot: clean, 72/26104 files, 19134/104388 blocks

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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