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Chapter 1

Creating a Skybox Virtual Appliance on VMware

This document describes how to implement the Skybox Virtual Appliance on VMware.

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Minimal requirements

The following are the minimal requirements for creating a Skybox Virtual Appliance on VMware.

<table>
<thead>
<tr>
<th></th>
<th>Pilots</th>
<th>Deployments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Disk</td>
<td>80 GB</td>
<td>200 GB</td>
</tr>
<tr>
<td>Memory</td>
<td>8 GB</td>
<td>32 GB (including 16 GB of reserved memory that must be allocated)</td>
</tr>
<tr>
<td>CPU</td>
<td>Virtual sockets: 2</td>
<td>Virtual sockets: 2</td>
</tr>
<tr>
<td></td>
<td>Cores per socket: 1</td>
<td>Cores per socket: 1</td>
</tr>
<tr>
<td>Network interfaces</td>
<td>1</td>
<td>2</td>
</tr>
</tbody>
</table>

Creating a new virtual machine

The following instructions explain how to create a new virtual machine to use for the Skybox Virtual Appliance.
To create a new virtual machine

1. Right-click the host and select **New Virtual Machine**.
2. On the Configuration page, select **Typical**.
3. On the Name and Location page, in the Name field, type a unique name for the Virtual Appliance machine.

![Configuration page](image1)

**Figure 1: Create new Virtual Machine - Configuration page**

![Name and Location page](image2)

**Figure 2: Create New Virtual Machine - Name and Location page**
4 On the Storage page, select the storage destination (datastore) for the virtual machine files.

![Create New Virtual Machine - Storage page](image)

**Figure 3: Create New Virtual Machine - Storage page**

5 On the Guest Operating System page:
   a) In the **Guest Operating System** field, select **Linux**.
b) In the Version field, select Other 2.6.x Linux (64bit).

On the Network page:

a) In the How many NICs do you want to connect field, select 1.
b) Make sure that **Connect at Power On** is selected for NIC1.

![Figure 5: Create New Virtual Machine - Network page](image)

7 On the Create a Disk page:
   a) Make sure that the **Datastore** field contains the name of the storage unit specified on the Storage page.
   
   b) In the **Virtual Disk Size** field, select **80 GB** for a pilot or **200 GB** for a deployment.
c) Make sure that the **Thick Provision Lazy Zeroed** option is selected.

![Create New Virtual Machine - Create a Disk page](image)

*Figure 6: Create New Virtual Machine - Create a Disk page*
On the Ready to Complete page, select *Edit the virtual machine settings before completion*; click *Continue.*

Figure 7: Create New Virtual Machine - Ready to Complete page
On the Hardware tab, make sure that:

- **Memory** is set to **8 GB** for pilots or **32 GB** for deployments.

![Figure 8: Virtual Machine Properties - Hardware tab](image)
10 For deployments, on the Resources tab, reserve a minimum of 16 GB memory.

![Figure 9: Virtual Machine Properties - Resources tab](image)

11 On the Hardware tab:
   a) Make sure that CPUs is set to 2.
   b) Select CPUs in the list, and then set:
      - Number of virtual sockets to 2
- Number of cores per socket to 1

Figure 10: Virtual Machine Properties - Hardware tab: CPUs
12 On the Options tab, select **Boot Options** in the list; make sure **Force BIOS Setup** is selected.

![Virtual Machine Properties - Options tab](image)

**Figure 11: Virtual Machine Properties - Options tab**

13 Click **OK**.

14 Turn on the machine.

   The BIOS setup utility is displayed.

15 On the Boot tab of the BIOS setup utility, change the boot order so that **CD ROM Drive** is at the top.

16 Press **F10** to save the settings and exit the setup utility.

17 Depending on where you chose to store the files, select either **Connect to ISO image on local disk** or **Connect to ISO image on a datastore**, and then select the file.

18 Restart the machine (press **Alt-Ctrl-Insert**).

19 When the Skybox Linux Installation Menu appears, select **Skybox Appliance Installation**.

   **Note:** The restore process takes approximately 20 minutes.

20 Restart the machine.
Installing VMware tools

For best results, you should install VMware tools (right-click the Virtual Appliance machine and select Guest > Install/Update VMware tools).

Figure 12: Install VMware tools