

# Installing Hortonworks Sandbox – on Hyper-V

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## Getting Ready to install on Windows using Hyper-V

Use this section to prepare for your installation.

### Pre-Requisites

- Ensure that you have installed and enabled Microsoft Hyper-V on your Windows 8 or Windows Server 2012 system. See <http://windows.microsoft.com/en-us/windows-8/hyper-v-run-virtual-machines> for details on enabling this feature.
- Ensure your hardware is 64bit (x64 processor)
- Enable BIOS Hardware Virtualization Assists
  - For Intel processors: Intel VT-x and Execute Disable (XD)
  - For AMD processors: AMD-V and No Execute (NX)
- The correct virtual appliance file for your environment. Download them from <http://hortonworks.com/sandbox>.
- Extract Hortonworks Hyper-V Virtual machine archive to the local file system.

### Introduction

The following contains a list of steps required for starting the Hortonworks Sandbox on Hyper-V. Although the instructions outline exact steps and illustrations for Windows 8, instructions are similar for Windows Server 2012.

## Installing Hortonworks Sandbox – on Hyper-V

1. Create a new Virtual Switch.
  - a. Start Hyper-V and create a private network for the Sandbox to connect to and allow access to the Internet. Select “Virtual Switch Manager...” from the Action menu in Hyper-V (see Figure 1).

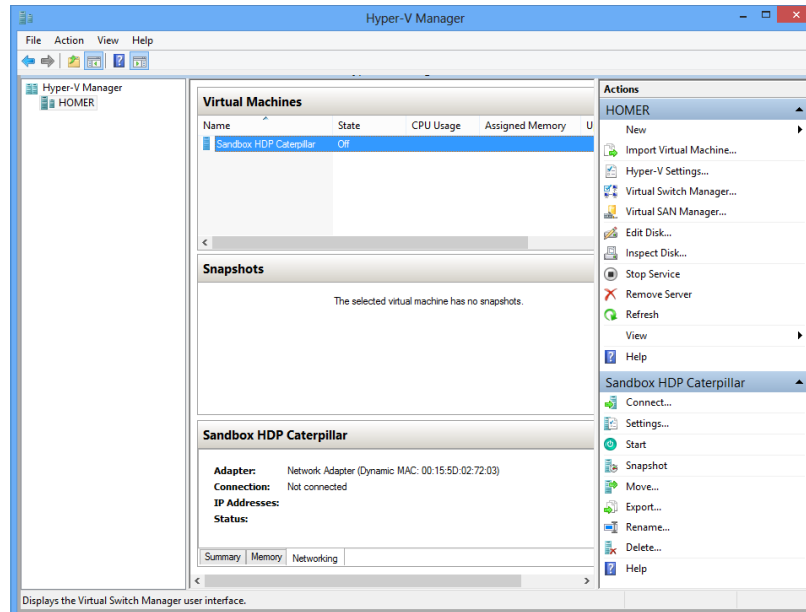


Figure 1: Virtual Switch Manager

- b. Select Internal from the selection box (see Figure 2).

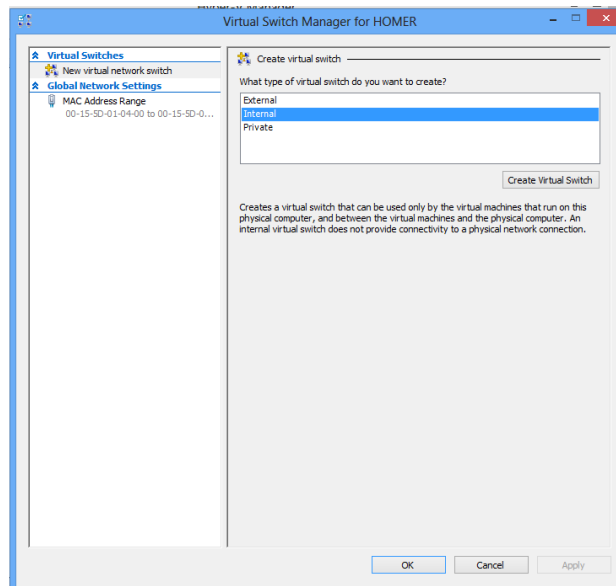


Figure 2: Create Virtual Switch

- c. Provide a name for the virtual switch being created, i.e. “Sandbox Network” and an optional description in the notes section (see Figure 3).

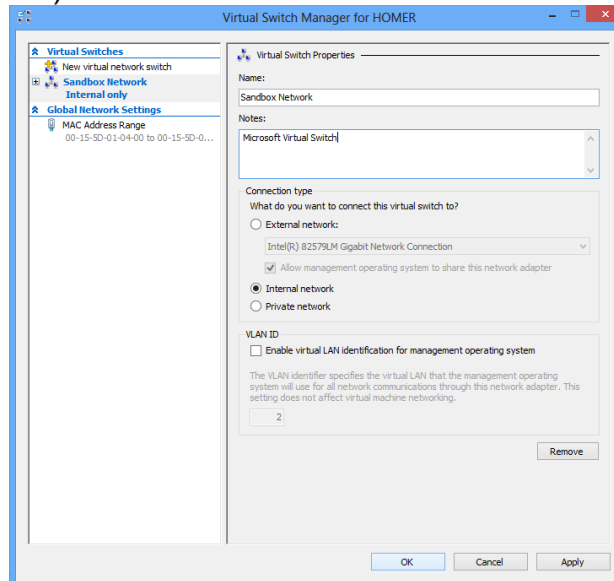


Figure 3: Name the Virtual Switch

2. Turn on Internet Connection Sharing.  
a. Open Network and Sharing Center (see Figure 4).

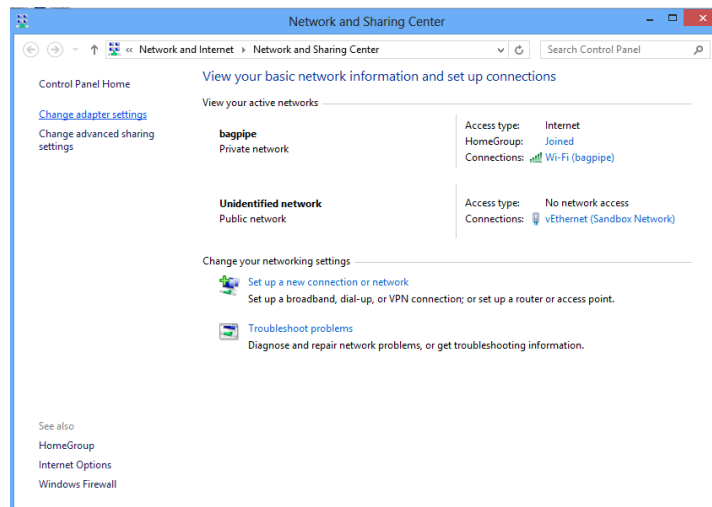


Figure 4: Network Sharing Center

- b. Click on the Connection link for your existing network to bring up the General properties tab, select the Properties tab to bring up the Network properties dialog and select the sharing tab. In this tab you should select the first option to enable other network users to connect through this active connection (see Figure 5).

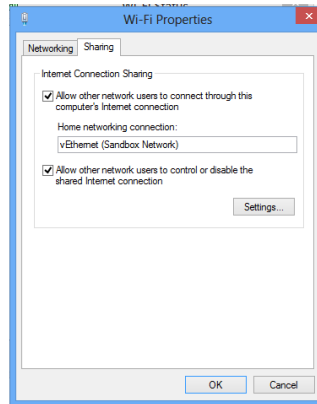


Figure 5: Sharing Tab of Network properties

3. Configure IP Address for Sandbox Network
  - a. Go back to Network Sharing Center (Figure 4) and select vEthernet (Sandbox Network). This bring up the dialog in Figure 6.

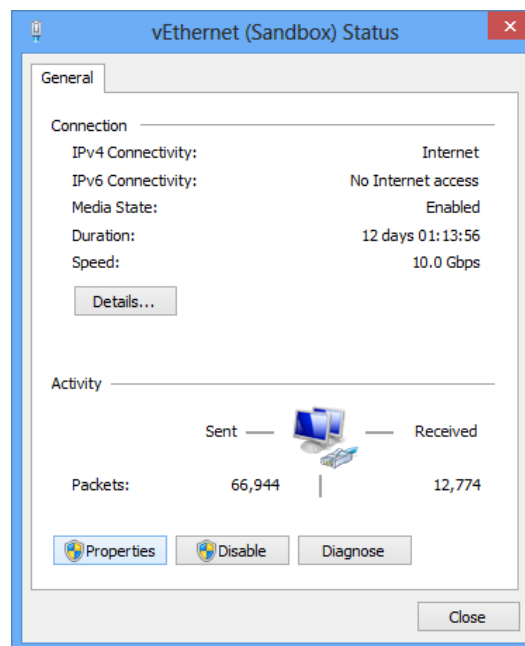


Figure 6: vEthernet (Sandbox) Status

- b. Select properties to bring up dialog in Figure 7.

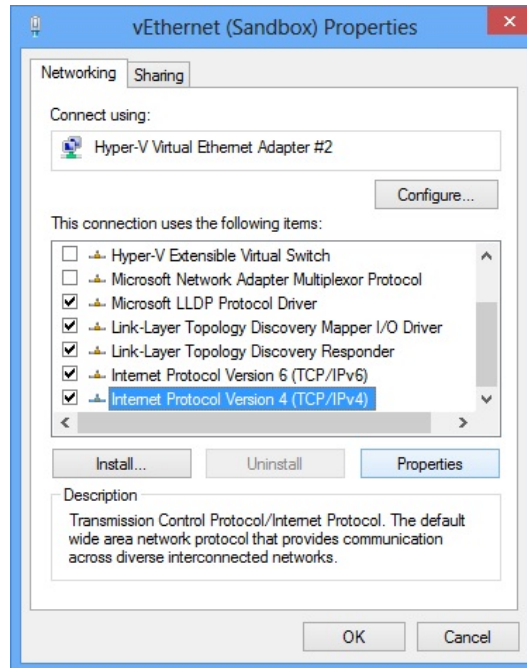


Figure 7: vEthernet (Sandbox) Properties

- c. Select Internet Protocol Version 4 (TCP/IP/IPv4) and select Properties, which brings up the dialog seen in Figure 8. Specify the settings:
  - i. 192.168.56.1 for IP Address
  - ii. 255.255.255.0 for Subnet Mask

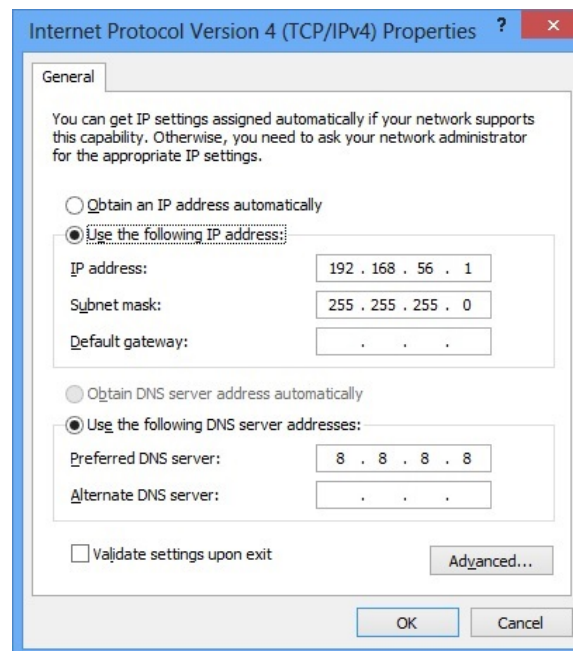


Figure 8: Internet Protocol Version 4 General

- d. Click OK to accept the changes.
4. Import Sandbox Hyper-V Virtual Machine
    - a. Select “Import Virtual Machine” from the Actions section (see Figure 9). Note, this can also be accomplished by right-clicking on the host name and selecting “Import Virtual Machine”.

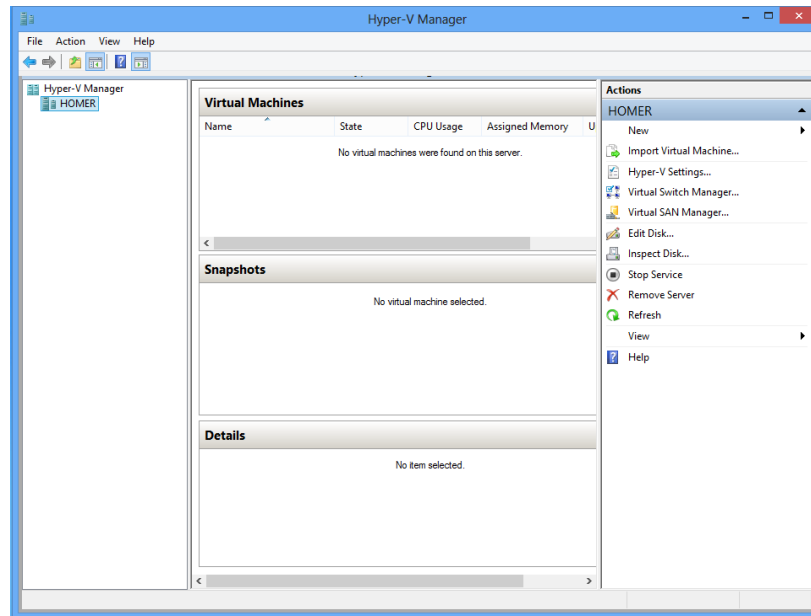


Figure 9: Import Virtual Machine

- b. Navigate through the first set of screens in the import wizard until you see the screen in Figure 10.

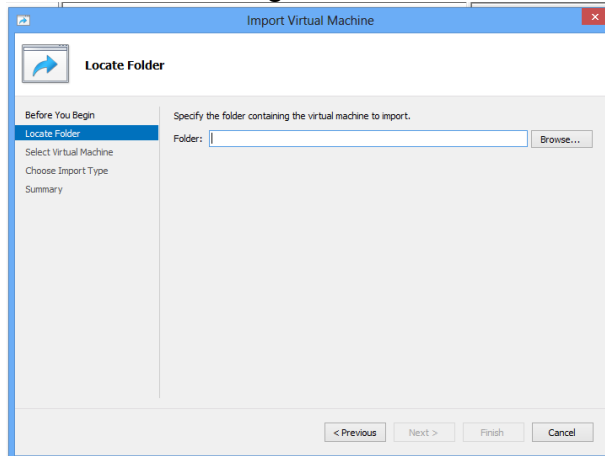


Figure 10: Import Virtual Machine

- c. Find the location where the Sandbox archive was extracted on the local file system and select the top-level folder of the archive (see Figure 11).

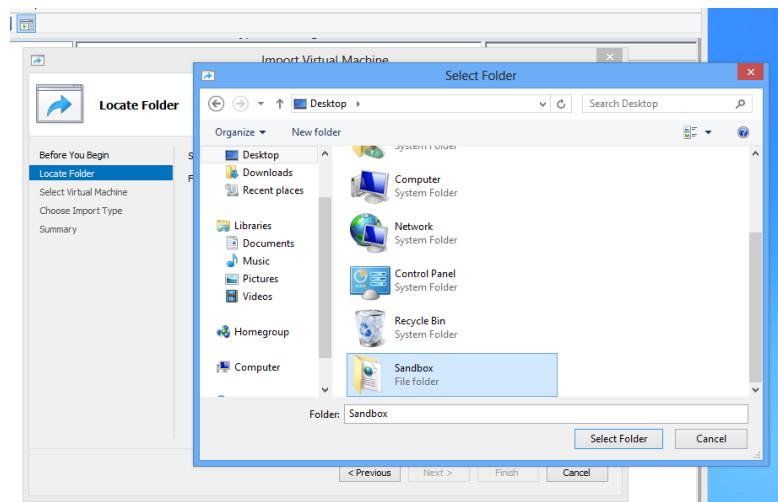


Figure 11: Select Virtual Machine Folder

- d. Hyper-V will analyze the folder select and display the following dialog (see Figure 12).

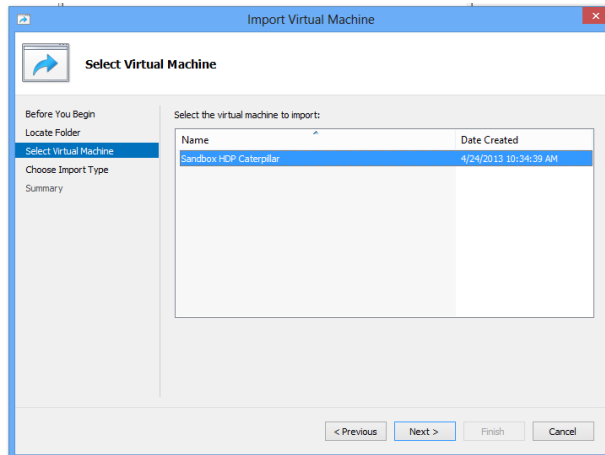


Figure 12: Select Virtual Machine

- e. Choose Import Type as follows (see Figure 13)

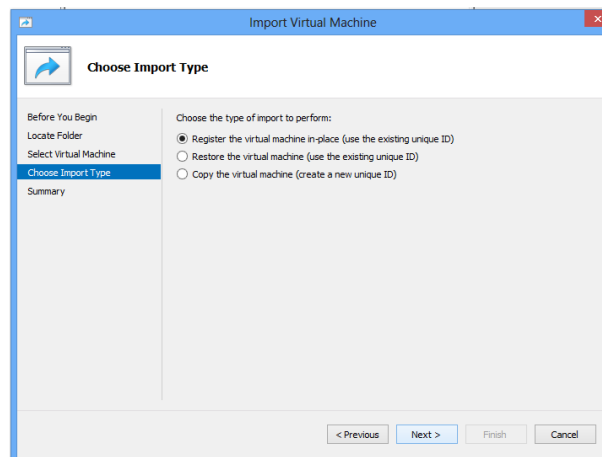


Figure 13: Choose Import Type



- f. At this point, the Virtual Machine just imported should be displayed in Hyper-V (See Figure 14)

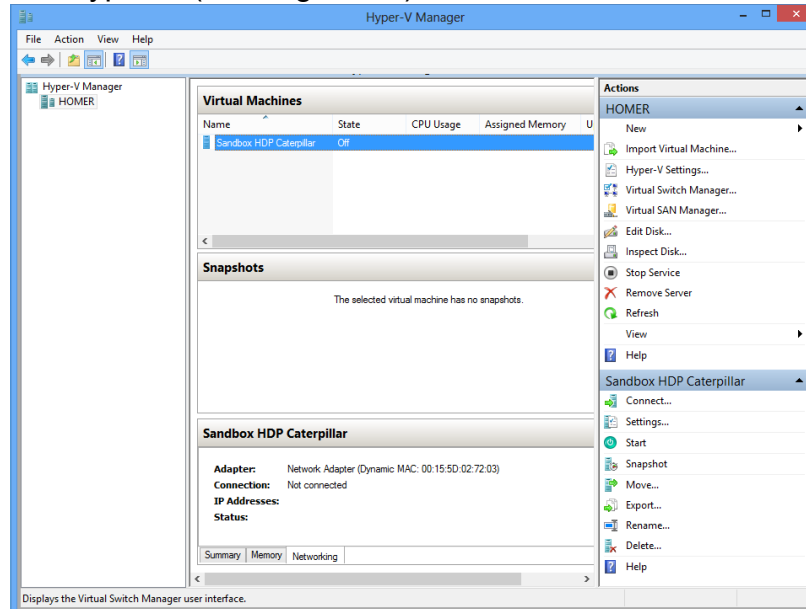


Figure 14: Newly Imported Virtual Machine

## 5. Configure Sandbox Network

- a. Select “Setting...” and Network Adapter for the Sandbox. For the Virtual Switch, select the “Sandbox Network” you created in step 1 above. If there are multiple virtual switches to choose from, make sure that you select the correct one; refer to step 1.

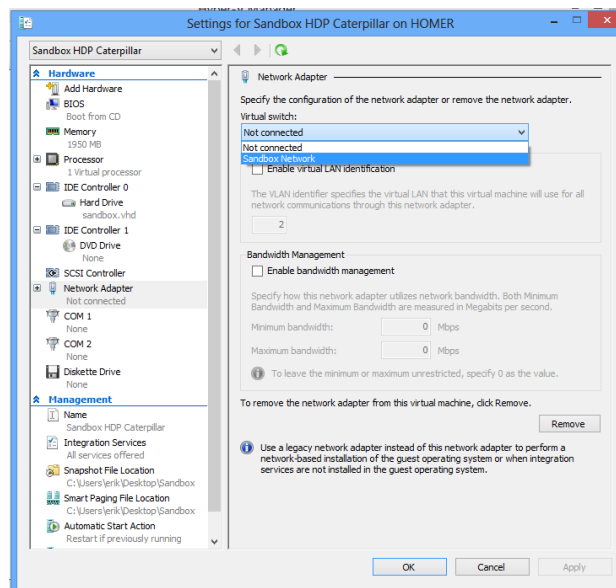


Figure 15: Select Virtual Switch for Sandbox

6. Start the Sandbox
  - a. Select “Start” by right clicking on the Sandbox Virtual Machine or click start from the Actions section.
  - b. Connect the to the Sandbox to expose the console. This is accomplished by select “Connect...” from the Sandbox Actions section or by right-clicking on the Sandbox Virtual Machine.
  - c. Make note of the IP address that is displayed in the Sandbox console. You will this IP address in order to connect to the Sandbox Web Interface