Installing BCM: How do I run Bright under MS Windows Server Hyper-V (Windows Server 2008/R2)?

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This article walks you through an install of Bright under Microsoft Hyper-V (Windows Server 2008/R2). It assumes you are picking up and installing Bright with RHEL6u3 as a base distribution. But it should work pretty much the same for other Red Hat derivatives, such as CentOS.

Install Bright Under Hyper-V

1. Open Hyper-V Manager: Click Start, point to Administrative Tools, and then click Hyper-V Manager.

2. Create a new virtual machine where you will install Bright: In the Actions menu, click New, and then click Virtual Machine.

3. Specify the Bright installation media like this: Right-click the virtual machine that you created, and then click Settings. In IDE Controller, select one of the following:

- An image file in ISO format that contains the files required for installation
- A physical CD/DVD drive that contains the installation media

4. Turn on the virtual machine: Right-click the virtual machine that you created, and then click Connect.

5. Begin installing Bright as described in section 2.3 "Head Node Installation: Bare Metal Method" in the Administrator Manual.

6. When prompted, restart the virtual machine and complete any first-boot configuration tasks.

Important Considerations

1. Networking
There are two type of network adapters, "Legacy Network Adapter" and (non-legacy) "Network Adapter". The legacy network adapter works without installing a virtual machine driver because the driver is already available on most operating systems. It emulates a physical network adapter, multiport DEC 21140 10/100TX 100 MB. Also, it supports network-based installations via PXE. The legacy network adapter is not supported in the 64-bit edition of Windows Server 2003 or the Windows XP Professional x64 Edition.

Note
Unless a legacy network adapter was added during the virtual machine's initial configuration, the virtual machine will not have any network support.

2. Supporting new hardware

If the "Linux Integration Services for Hyper-V" drivers, freely available from Microsoft, are built and installed, then you can user the Hyper-V manager to:

- add a non-legacy network adapter
- add the IDE storage controllers
- add the SCSI storage controllers.

The integration services can improve speed and functionality. However, this procedure is non-trivial because Microsoft only supports certain guest operating systems.

Install Linux Integration Services Version 3.4

1. Log on to the virtual machine.

2. In Hyper-V Manager, configure LinuxICv34.ISO as a virtual CD/DVD drive on the virtual machine. The exact name will depend on the version of the Linux Integration Services.

3. Once configured, the LinuxICv34.ISO should appear mounted under /media/CDROM if automount is enabled. If automount is not enabled, use the following command to mount the ISO file:

```
# mount /dev/cdrom /media
```

4. Change to the directory relevant to your distribution:
For RHEL / CentOS 6.0, 6.1, 6.2:
```
# cd /media/CDROM/RHEL6012
```

For RHEL / CentOS 6.3:
```
# cd /media/CDROM/RHEL63
```

5. Run the following command to install the Hyper-V-specific (or "synthetic") drivers. A reboot is required after installation.

For RHEL / CentOS 6.0, 6.1, 6.2, 6.3:
```
# ./install.sh
```

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Troubleshoot

Issue: the installer doesn't recognize any hard drives

Resoulution:

Switch to console using Alt+Ctrl+F2 and load the following kernel modules:

hv_netvsc
hv_storvsc
hv_utils
hv_vmbus
hid-hyperv

When you reach the layout selection page for the disks you might still see an undefined message but you can ignore it. The disks will be detected properly and you can specify a custom layout XML schema to match your needs.

References

1. Readme of Linux Integration Services 3.4 for Hyper-V

Links
Linux Integration Services for Hyper-V:
http://www.microsoft.com/en-us/download/details.aspx?id=34603

Supported Linux operating systems:

https://technet.microsoft.com/library/dn531030.aspx

Windows server 2008/R2 drivers:

https://www.microsoft.com/en-in/download/details.aspx?id=11674

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