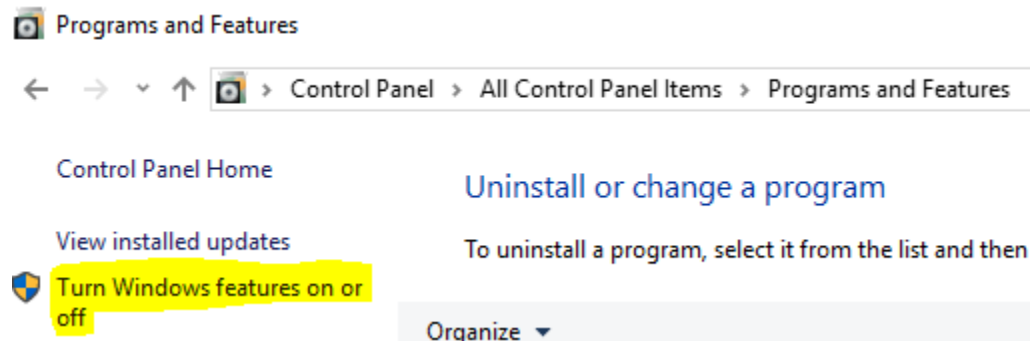
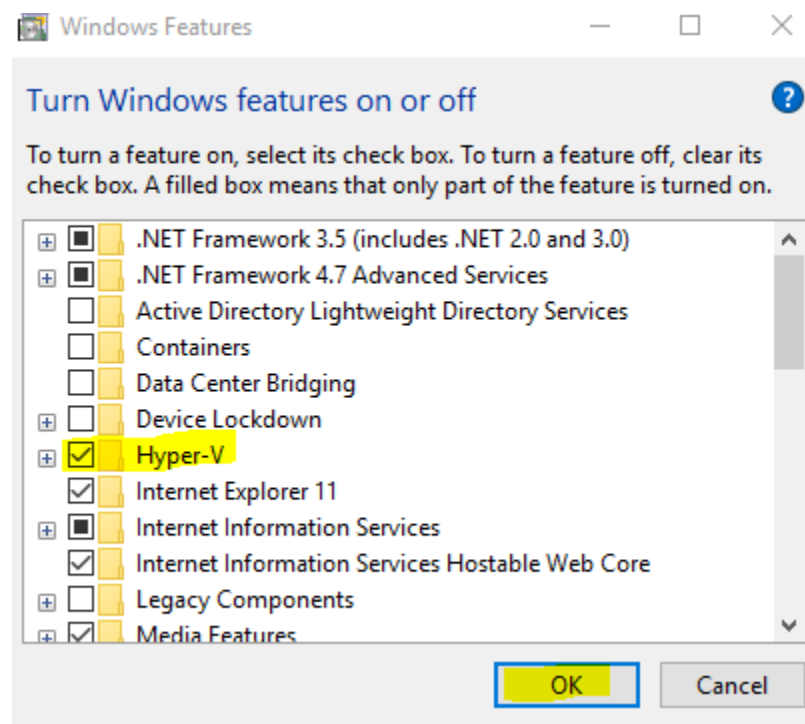


# Installing Hyper-V



Control Panel > Program and Features > Turn Features on or off

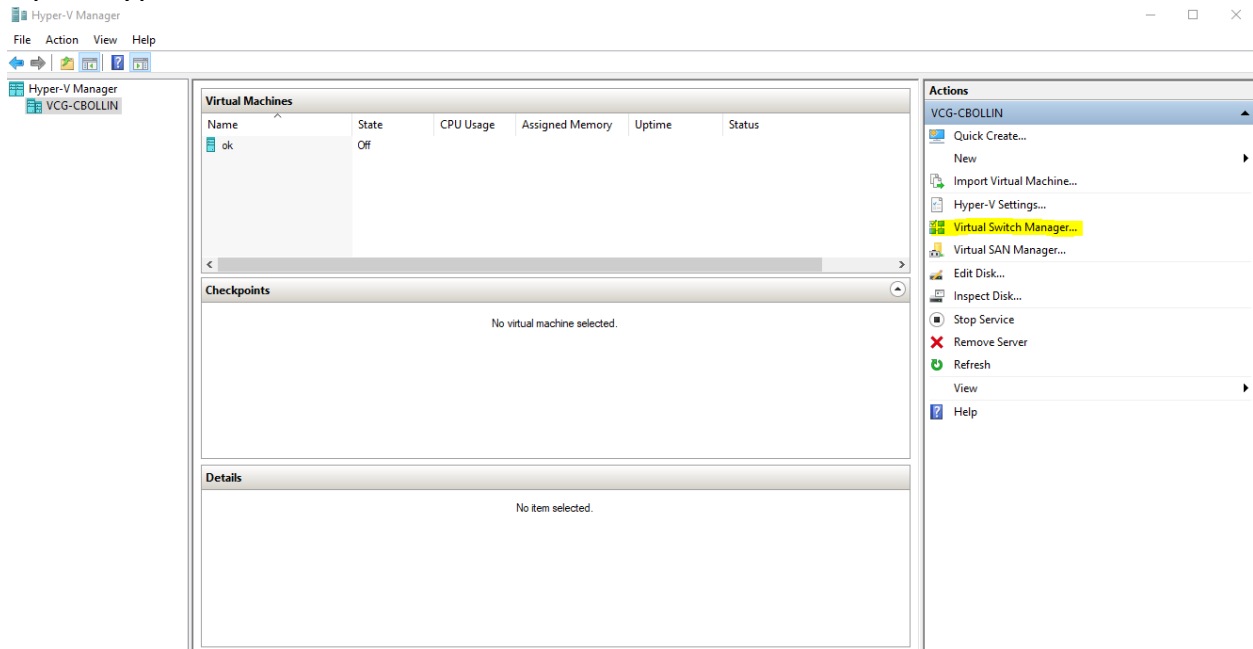


Select Hyper-V box and click OK

Restart your computer.

- Note: If you encounter issues, you might not have virtualization turned on for your processor you will have to go into BIOS and turn that on.

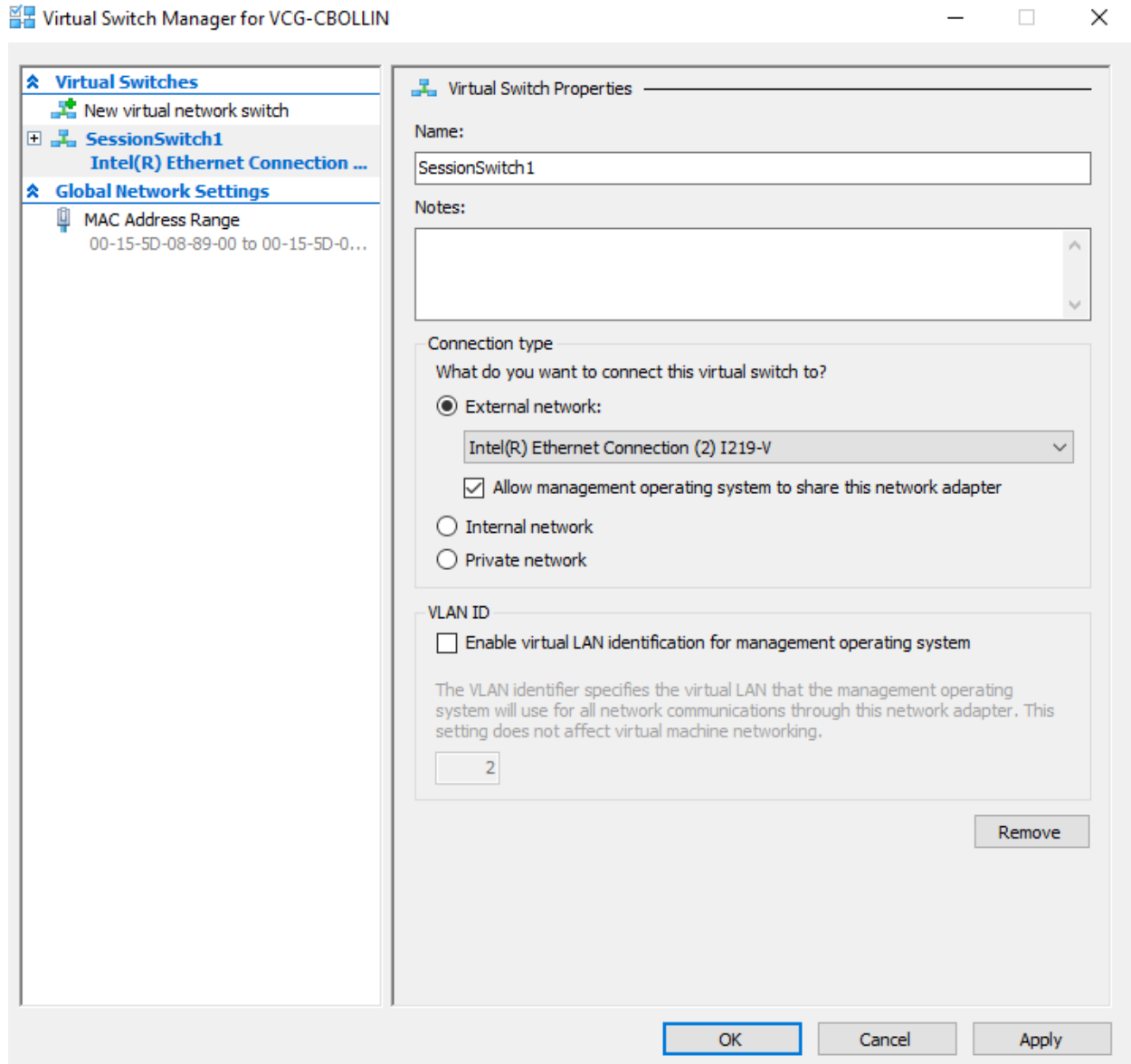
# Open Hyper-V



Click Virtual Switch Manager

Select External

Select Create Virtual Switch

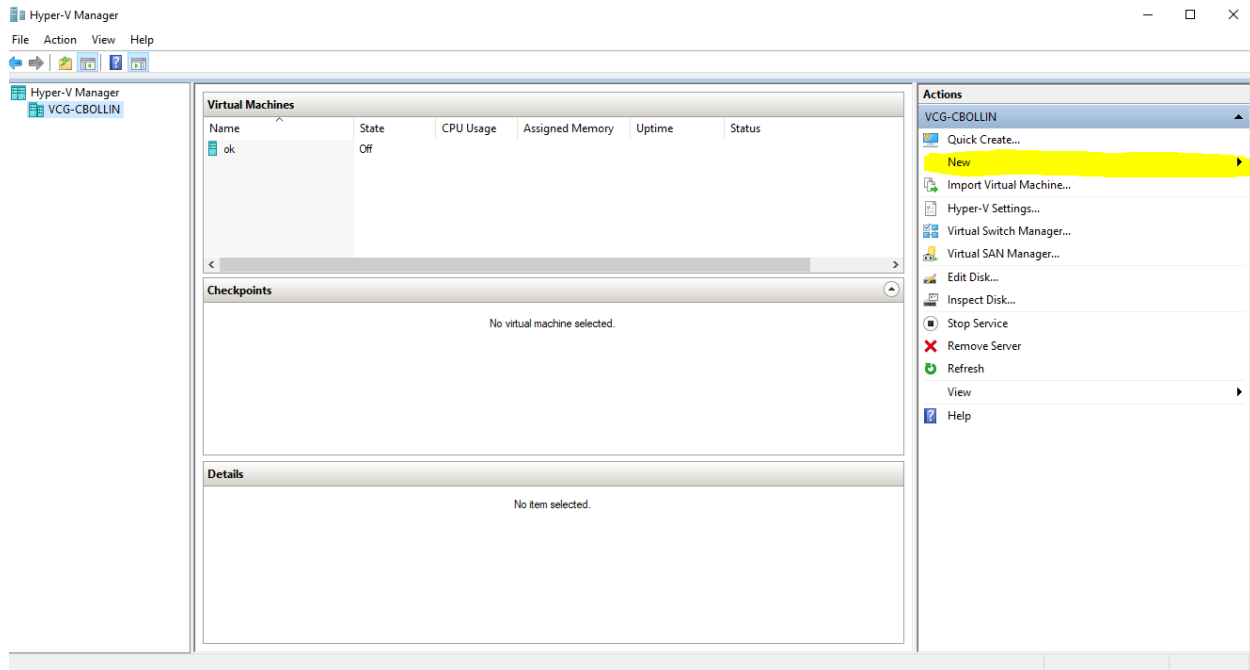


Add your Session Name and any notes you like. External Network will be up to you as well.

Click Apply.

Click OK to Apply Network Changes.

# Creating the Virtual Hard Drive (HOL Specific)



Select New > Hard Disc

Click Next

Select VHD (**NOT VHDX**)

Click Next

Select Fixed Size

Click Next

Name VHD

Click Next

Set your VHD Size: We strongly recommend 40GB and no larger than 64GB. Please leave 4-8GB of free space depending on the size of your content.

Click Next

Finish

# Creating Virtual Machine

New > Virtual Machine

Click Next

Name the VM

Click Next

Generation 1

Click Next

You pick what ram size you want to allocate locally to this. 4096MB is a good baseline.

Turn off Dynamic Memory.

Click Next

Choose the Virtual Switch you created here. (If you do not want internet access leave it Not Connected)

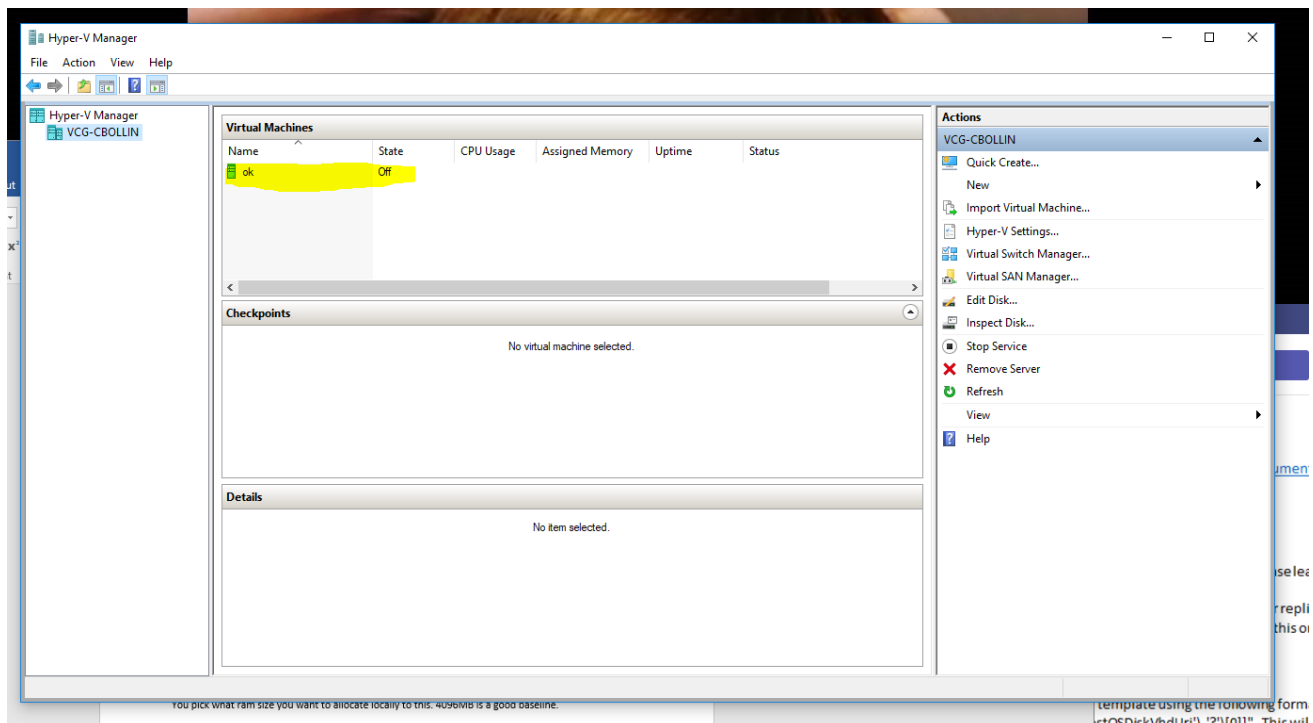
Click Next

Click Use Existing Virtual Hard Disk

Navigate to the one you created

Click Next

Finish



You should now see your VM.

Right Click the VM

Click Settings

Click Processor

One Physical core on your machine equals 4 virtual processors. Generally, you can make this number 4.

If you want to change the Switch you may do that under Network Adapter.

Click the DVD Drive

Click Image File

Browse and link to a Windows 10 Evaluation – You may download this from your MSDN account.

<https://www.microsoft.com/en-us/evalcenter/evaluate-windows-10-enterprise>

Click Apply, OK

You should now see your VM in Hyper-V Manager

## Starting your VM

Double Click the VM in Hyper-V Manager

Select Custom: Install Windows Only

Click through Windows prompts until you reach Sign in

It is recommended you are connected to the internet and allow Windows to fully update.

Sign in with a local account and password

Click through the remainder of the prompts

Click Start

Type in Powershell, Right Click Windows Powershell and Run as Administrator

Type the following: Enable-PSRemoting –Force

Type the following: Restart-Service WinRM

Type the following: Set-Item wsman:\localhost\client\trustedhosts –Value ‘\*’

Type Y

To validate it is installed and running correctly.

Copy your computers name:

Open Folder Explorer

Right Click This PC

Click Properties

Click Advanced System Settings

Click Computer Name Tab

Copy Full Computer Name

Type the following into powershell: Test-WSMan TheNameOfYourComputerHere

You should see the following

```
wsmanid      : http://schemas.dmtf.org/wbem/wsmn/identity/1/wsmnidentity.xsd
ProtocolVersion : http://schemas.dmtf.org/wbem/wsmn/1/wsmn.xsd
ProductVendor  : Microsoft Corporation
ProductVersion : OS: 0.0.0 SP: 0.0 Stack: 3.0
```

To ensure the VM is working properly follow these steps

The following steps will show you where to find the information for the script at the end.

Click Start

Open Computer Management

Local Users and Groups tab

Users folder

Here you will see the info for \$Username 'YourNameHere' (login name)

In powershell type: ipconfig

IPv4 Address (something like 10.10.8.42) is your \$ComputerName

Password is the password you entered to log into the VM.

Run the following script in PowerShell with your information added.

*Note: the following code you can double click, save to your desktop as .txt copy this and paste it into your VM for easier access.*



```
$Username = 'YourNameHere';  
$Password = 'YourPasswordHere';  
$ComputerName = 'YourComputerHere';  
$Script = {'Hello me' | Out-File 'c:\test.txt'};  
$SecurePassWord = ConvertTo-SecureString -AsPlainText $Password -Force;  
$Cred = New-Object -TypeName "System.Management.Automation.PSCredential" -ArgumentList  
$Username, $SecurePassWord;  
$Session = New-PSSession -ComputerName $ComputerName -credential $Cred;  
$Job = Invoke-Command -Session $Session -Scriptblock $Script;  
Remove-PSSession -Session $Session
```

If it works, you should find a text file in your C: drive.

Now we must change the execution policies on the Virtual Machine.

In powershell type the following: Get-ExecutionPolicy | Select \*

Now run the following 1 by 1 in powershell and select Y when prompted:

Set-ExecutionPolicy –ExecutionPolicy Bypass –Scope LocalMachine

Set-ExecutionPolicy –ExecutionPolicy Bypass –Scope Process

Set-ExecutionPolicy –ExecutionPolicy Bypass –Scope CurrentUser

Open file explorer

Right Click This PC

Click Properties

Click Remote Settings

Click Allow remote connections to this computer

Uncheck the checkbox below this

Click Apply

Click OK

Right Click the taskbar at the bottom of the screen (black bar on the bottom of the window) and select Task Manager

*You may need to select More Details*

Click Services

Find Windows Update

Right Click this and select Open Services

Find Windows Update

Right Click this, Select Properties

Set Startup Type to Disabled

Click Stop

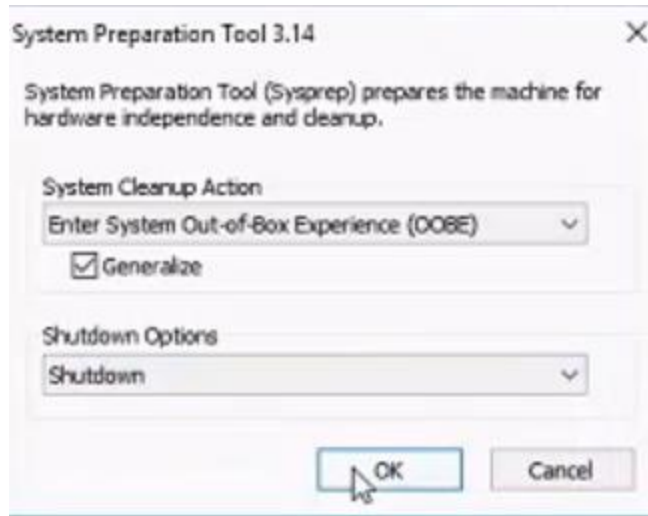
Click Apply

Click OK

## **Sys Prepping the Machine**

Hold Windows key and press R

Type sysprep and press OK



Make sure generalize is selected

Click OK

Your VHD is now complete.

Your image will now need replicated via the HOL replication system.