Relativity Dev VM Running Chef Script Documentation

[April 3, 2018]

Table of Contents

1 Requirements

- CPU cores: 4 cores
- RAM: 12GB
- Storage: 140GB
- Licenses
  - Windows Server 2012 R2
  - Relativity
- Windows 10 Pro with Hyper-V features enabled.
- Windows Admin account.
- Internet connection

2 Downloads

- List of files needed for running the Vagrant/Chef recipes.
  - Relativity installer
  - Invariant installer

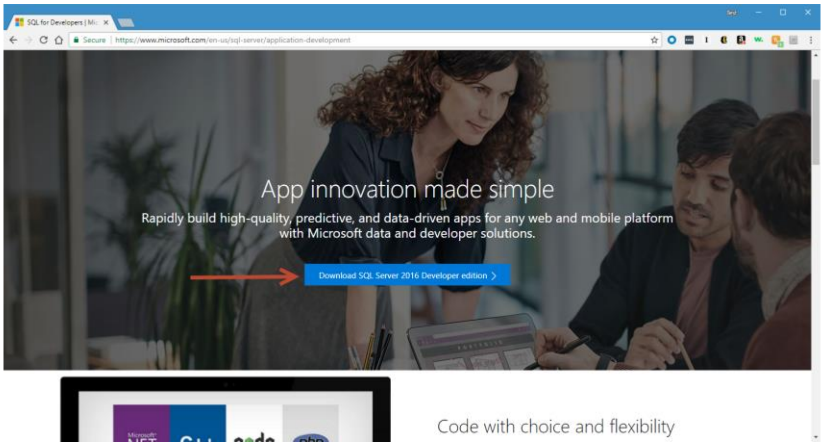
  - Secret Store
  - Datagrid
  - SQL Server 2016 Developer Edition
  - Service Bus Defect Windows update
  - Visual Studio Code text editor
  - MS Office Professional Plus 2010
  - MS Works Converter
  - Lotus Notes
  - Jungum

2.1.1 Relativity installation

- Please contact support@relativity.com to get the installer files for the following:
  - Relativity
  - Invariant
  - Secret Store
  - Datagrid

2.1.2 SQL Server 2016 Developer Edition

- You can download it at this link - https://www.microsoft.com/en-us/sql-server/application-development


SQL for Developers | Mi
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https://www.microsoft.com/en-us/sql-server/application-development
Download SQL Server 2016 Developer edition ›

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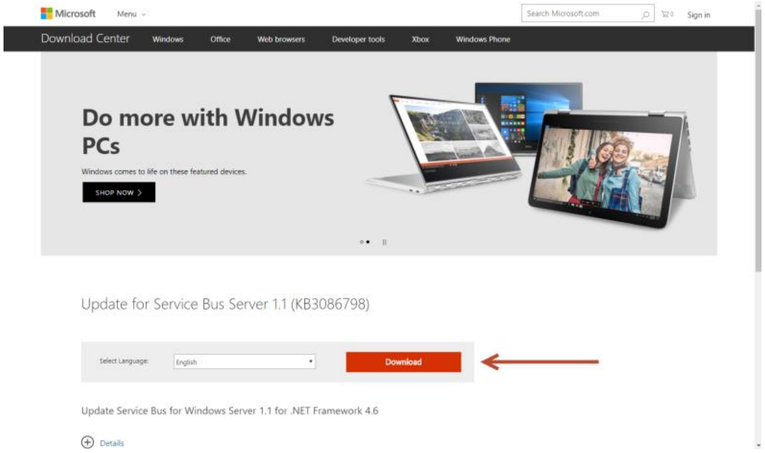
2.1.3 Service Bus 1.1 Defect Windows Update

- You can download it at this link - https://www.microsoft.com/en-us/download/details.aspx?id=49496



Do more with Windows PCs

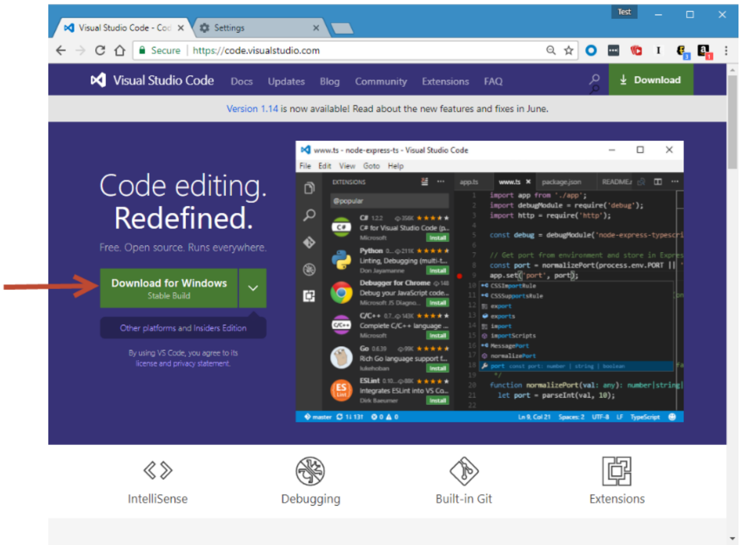
Windows comes to life on these featured devices.

Update for Service Bus Server 1.1 (KB3086798)

Update Service Bus for Windows Server 1.1 for .NET Framework 4.6

2.1.4 Install Visual Studio Code text editor

- Download and Install Visual Studio Code from this link Visual Studio Code



Version 1.14 is now available! Read about the new features and fixes in June.

Code editing. Redefined.

Free. Open source. Runs everywhere.

By using VS Code, you agree to its license and privacy statement.

```
import app from './app';
import debugModule = require('debug');
import http = require('http');

const debug = debugModule('node-express-typescri

// Get port from environment and store in Expre
const port = normalizePort(process.env.PORT ||
app.set('port', port);
```

3 Setup Workstation

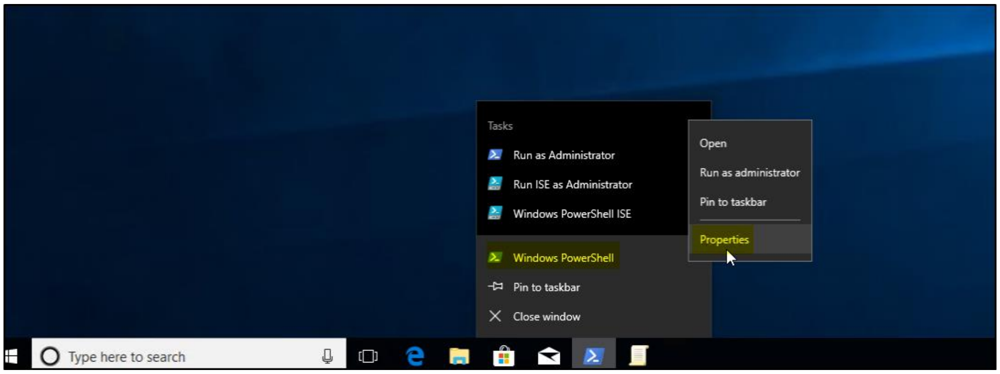
- It’s important that you run the below steps in order.

3.1 Login

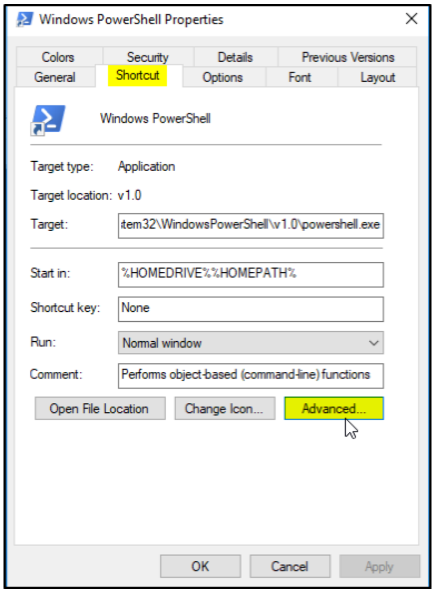
- Login into your workstation with a Windows Administrator account.

3.2 Setup PowerShell

- Let’s configure PowerShell to always open as an Administrator.
- Pin **PowerShell** to your Task Bar
- Right click on **Windows PowerShell** then **Properties**



- Find the tab called **Shortcut**, then **Advanced**, then **Run As Administrator**



Windows PowerShell

Target type: Application

Target location: v1.0

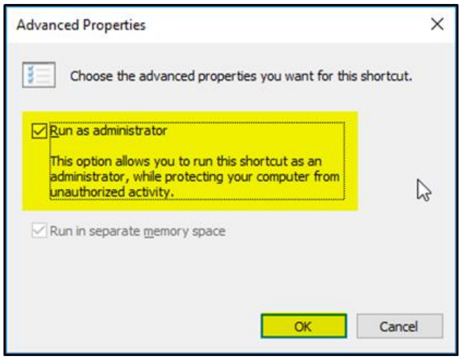
Target: item32\WindowsPowerShell\v1.0\powershell.exe

Start in: %HOMEDRIVE%%HOMEPATH%

Shortcut key: None

Run: Normal window

Comment: Performs object-based (command-line) functions



Choose the advanced properties you want for this shortcut.

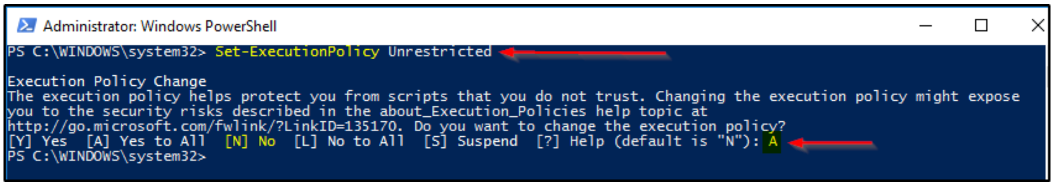
☑ Run as administrator

This option allows you to run this shortcut as an administrator, while protecting your computer from unauthorized activity.

☑ Run in separate memory space

- Open a PowerShell window (should be opening as an Administrator now) and run the following command:

```
Set-ExecutionPolicy Unrestricted
```

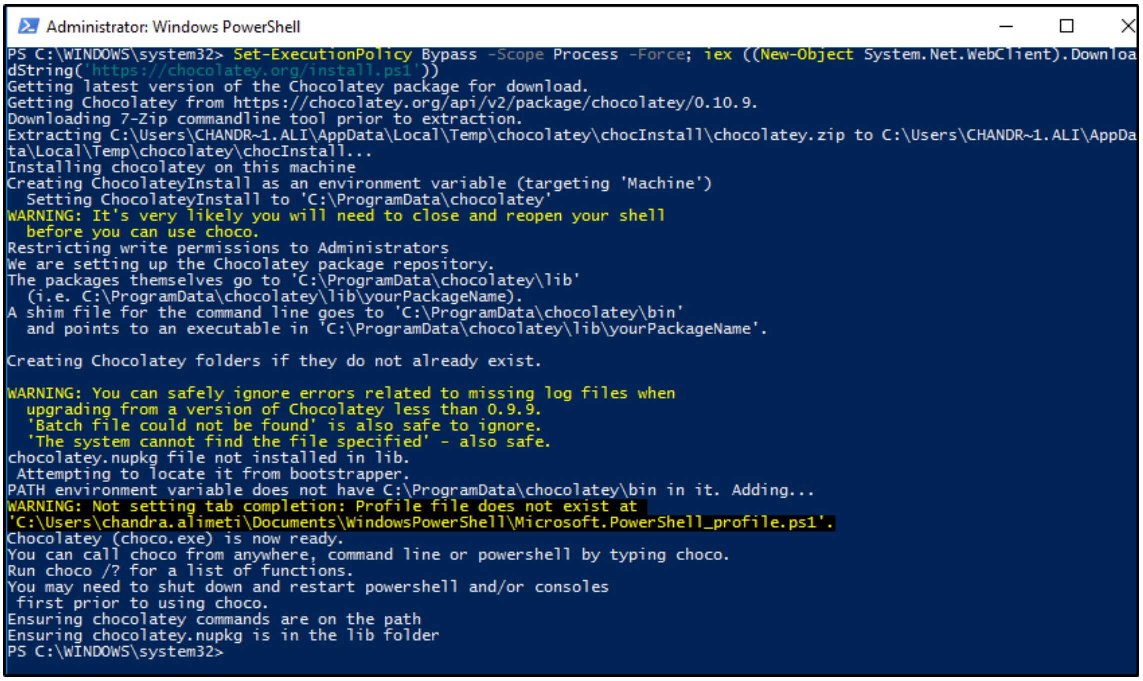


```
PS C:\WINDOWS\system32> Set-ExecutionPolicy Unrestricted

Execution Policy Change
The execution policy helps protect you from scripts that you do not trust. Changing the execution policy might expose
you to the security risks described in the about_Execution_Policies help topic at
http://go.microsoft.com/fwlink/?LinkID=135170. Do you want to change the execution policy?
[Y] Yes  [A] Yes to All  [N] No  [L] No to All  [S] Suspend  [?] Help (default is "N"): A
PS C:\WINDOWS\system32>
```

3.3 Install Chocolatey

- Run the following command in PowerShell window.

```
Set-ExecutionPolicy Bypass -Scope Process -Force; iex ((New-Object
System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))
```

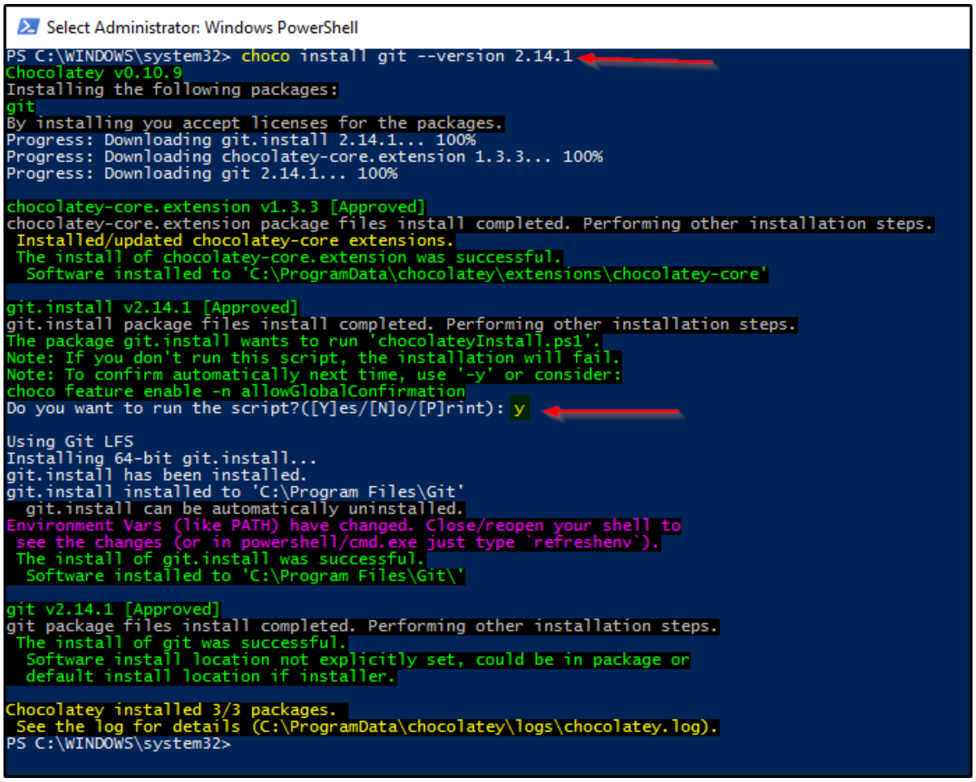


```
PS C:\WINDOWS\system32> Set-ExecutionPolicy Bypass -Scope Process -Force; iex ((New-Object System.Net.WebClient).Downloa
dString('https://chocolatey.org/install.ps1'))
Getting latest version of the Chocolatey package for download.
Getting Chocolatey from https://chocolatey.org/api/v2/package/chocolatey/0.10.9.
Downloading 7-Zip commandline tool prior to extraction.
Extracting C:\Users\CHANDR~1.ALI\AppData\Local\Temp\chocolatey\chocInstall\chocolatey.zip to C:\Users\CHANDR~1.ALI\AppDa
ta\Local\Temp\chocolatey\chocInstall...
Installing chocolatey on this machine
Creating ChocolateyInstall as an environment variable (targeting 'Machine')
  Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'
WARNING: It's very likely you will need to close and reopen your shell
  before you can use choco.
Restricting write permissions to Administrators
We are setting up the Chocolatey package repository.
The packages themselves go to 'C:\ProgramData\chocolatey\lib'
  (i.e. C:\ProgramData\chocolatey\lib\yourPackageName).
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin'
  and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.

Creating Chocolatey folders if they do not already exist.

WARNING: You can safely ignore errors related to missing log files when
  upgrading from a version of Chocolatey less than 0.9.9.
  'Batch file could not be found' is also safe to ignore.
  'The system cannot find the file specified' - also safe.
chocolatey.nupkg file not installed in lib.
 Attempting to locate it from bootstrapper.
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...
WARNING: Not setting tab completion: Profile file does not exist at
'C:\Users\chandra.alimeti\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey (choco.exe) is now ready.
You can call choco from anywhere, command line or powershell by typing choco.
Run choco /? for a list of functions.
You may need to shut down and restart powershell and/or consoles
 first prior to using choco.
Ensuring chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder
PS C:\WINDOWS\system32>
```

3.4 Install GIT Version 2.14.1

- Run the following command in PowerShell window.

```
choco install git --version 2.14.1
```

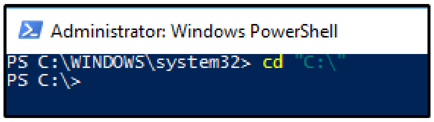


```
PS C:\WINDOWS\system32> choco install git --version 2.14.1
Chocolatey v0.10.9
Installing the following packages:
git
By installing you accept licenses for the packages.
Progress: Downloading git.install 2.14.1... 100%
Progress: Downloading chocolatey-core.extension 1.3.3... 100%
Progress: Downloading git 2.14.1... 100%

chocolatey-core.extension v1.3.3 [Approved]
chocolatey-core.extension package files install completed. Performing other installation steps.
 Installed/updated chocolatey-core extensions.
 The install of chocolatey-core.extension was successful.
  Software installed to 'C:\ProgramData\chocolatey\extensions\chocolatey-core'

git.install v2.14.1 [Approved]
git.install package files install completed. Performing other installation steps.
The package git.install wants to run 'chocolateyInstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[N]o/[P]rint): y

Using Git LFS
Installing 64-bit git.install...
git.install has been installed.
git.install installed to 'C:\Program Files\Git'
  git.install can be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
 see the changes (or in powershell/cmd.exe just type `refreshenv`).
 The install of git.install was successful.
  Software installed to 'C:\Program Files\Git\'

git v2.14.1 [Approved]
git package files install completed. Performing other installation steps.
 The install of git was successful.
  Software install location not explicitly set, could be in package or
  default install location if installer.

Chocolatey installed 3/3 packages.
 See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
PS C:\WINDOWS\system32>
```

3.5 Clone Dev VM repository from Github

- Run the follo
- wing command in PowerShell window.

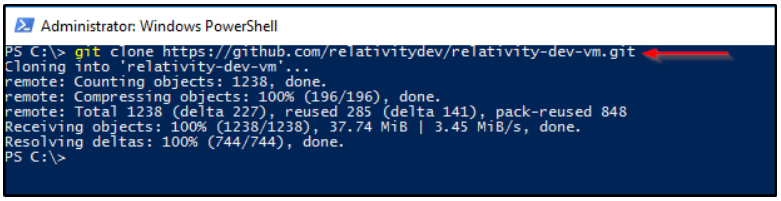
cd "C:\"



```
PS C:\WINDOWS\system32> cd "C:\"
PS C:\>
```

- Run the following command in PowerShell window.

git clone https://github.com/relativitydev/relativity-dev-vm.git

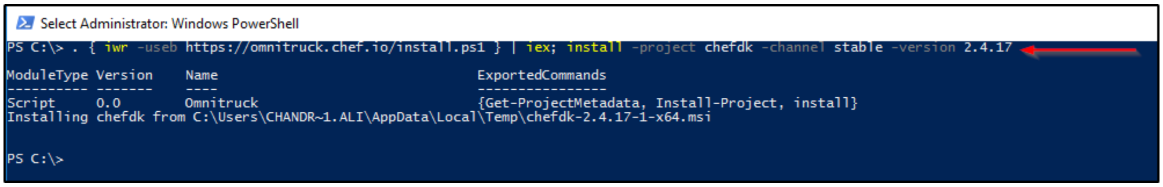


```
PS C:\> git clone https://github.com/relativitydev/relativity-dev-vm.git
Cloning into 'relativity-dev-vm'...
remote: Counting objects: 1238, done.
remote: Compressing objects: 100% (196/196), done.
remote: Total 1238 (delta 227), reused 285 (delta 141), pack-reused 848
Receiving objects: 100% (1238/1238), 37.74 MiB | 3.45 MiB/s, done.
Resolving deltas: 100% (744/744), done.
PS C:\>
```

3.6 Install Chef Development Kit Version 2.4.17

- Run the following command in PowerShell window.

```
. { iwr -useb https://omnitruck.chef.io/install.ps1 } | iex; install -project chefdk -channel stable -version 2.4.17
```

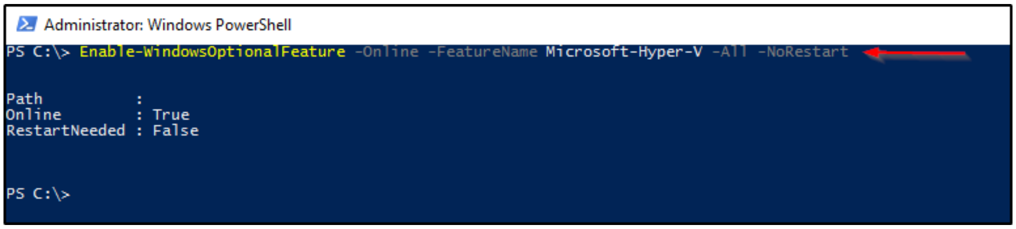


```
PS C:\> . { iwr -useb https://omnitruck.chef.io/install.ps1 } | iex; install -project chefdk -channel stable -version 2.4.17

ModuleType Version    Name                                ExportedCommands
---------- -------    ----                                ----------------
Script     0.0        Omnitruck                           {Get-ProjectMetadata, Install-Project, install}
Installing chefdk from C:\Users\CHANDR~1.ALI\AppData\Local\Temp\chefdk-2.4.17-1-x64.msi

PS C:\>
```

3.7 Enable the Hyper-V Windows feature

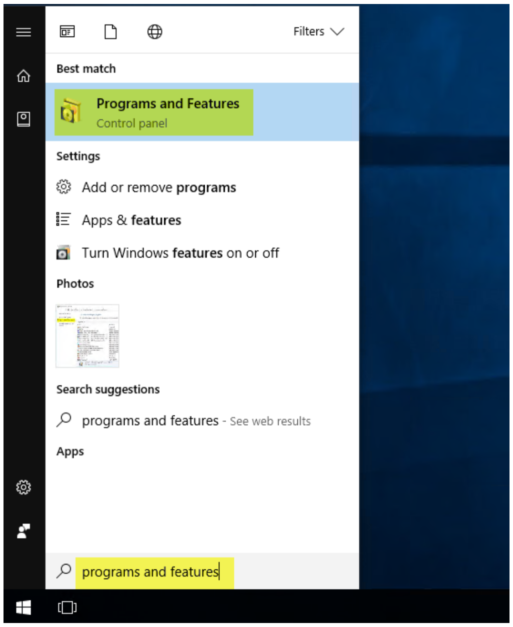
- Run the following command in PowerShell window.

```
Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All -NoRestart
```

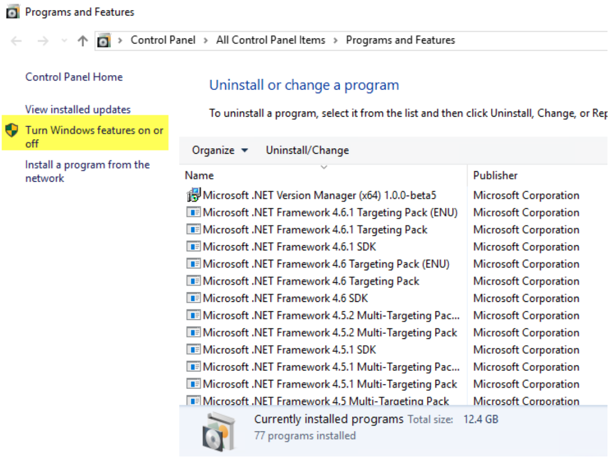


```
PS C:\> Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All -NoRestart


Path          :
Online        : True
RestartNeeded : False



PS C:\>
```

- **Restart your workstation.**
- Verify Windows Hyper-V feature installation
    - Once your workstation finished restart, Go to **Programs and Features**



    - Click on **Turn Windows features on or off**


Programs and Features
Control Panel › All Control Panel Items › Programs and Features
Control Panel Home
View installed updates
Turn Windows features on or off
Install a program from the network
Organize ▾
Uninstall/Change

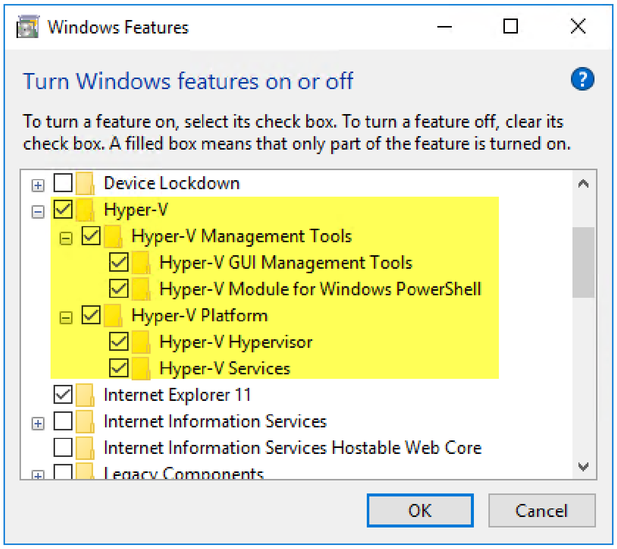
Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change, or Rep

Name	Publisher
Microsoft .NET Version Manager (x64) 1.0.0-beta5	Microsoft Corporation
Microsoft .NET Framework 4.6.1 Targeting Pack (ENU)	Microsoft Corporation
Microsoft .NET Framework 4.6.1 Targeting Pack	Microsoft Corporation
Microsoft .NET Framework 4.6.1 SDK	Microsoft Corporation
Microsoft .NET Framework 4.6 Targeting Pack (ENU)	Microsoft Corporation
Microsoft .NET Framework 4.6 Targeting Pack	Microsoft Corporation
Microsoft .NET Framework 4.6 SDK	Microsoft Corporation
Microsoft .NET Framework 4.5.2 Multi-Targeting Pac...	Microsoft Corporation
Microsoft .NET Framework 4.5.2 Multi-Targeting Pack	Microsoft Corporation
Microsoft .NET Framework 4.5.1 SDK	Microsoft Corporation
Microsoft .NET Framework 4.5.1 Multi-Targeting Pac...	Microsoft Corporation
Microsoft .NET Framework 4.5.1 Multi-Targeting Pack	Microsoft Corporation
Microsoft .NET Framework 4.5 Multi-Targeting Pack	Microsoft Corporation

Currently installed programs Total size: 12.4 GB
77 programs installed

- Verify if Hyper-V is checked as shown in the below screenshot



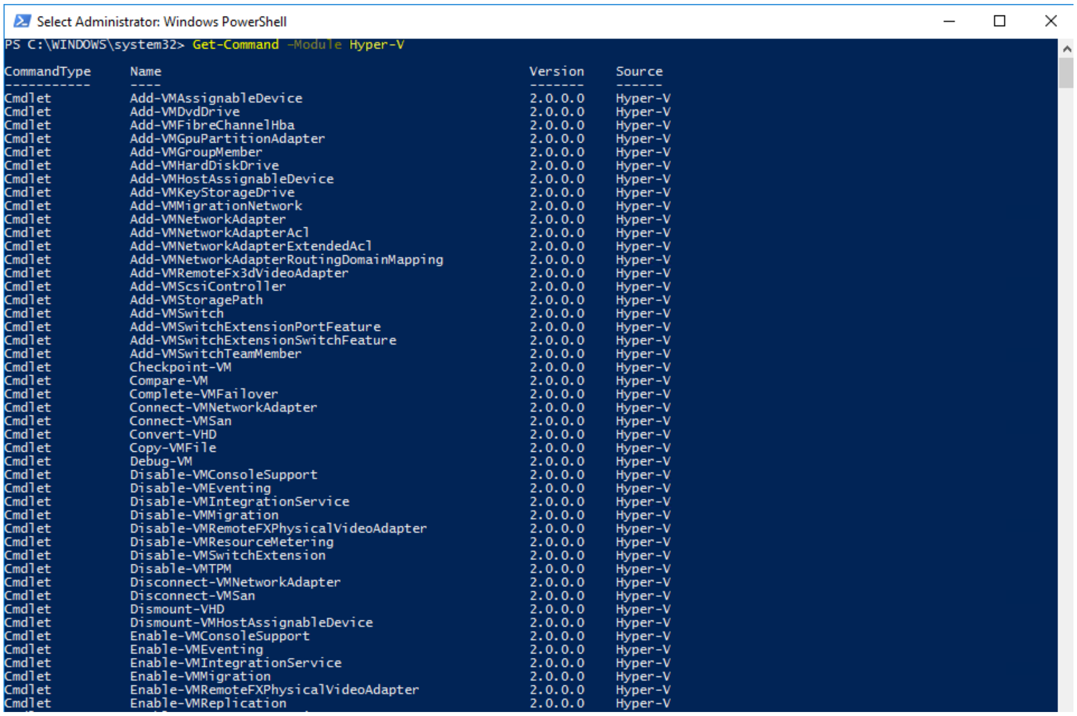
Turn Windows features on or off

To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.

- □ Device Lockdown
- ☑ Hyper-V
  - ☑ Hyper-V Management Tools
    - ☑ Hyper-V GUI Management Tools
    - ☑ Hyper-V Module for Windows PowerShell
  - ☑ Hyper-V Platform
    - ☑ Hyper-V Hypervisor
    - ☑ Hyper-V Services
- ☑ Internet Explorer 11
- □ Internet Information Services
- □ Internet Information Services Hostable Web Core
- □ Legacy Components

- You can also verify Hyper-V installation via PowerShell
  - Run the following command in PowerShell window. You should see results as shown in the below screenshot.

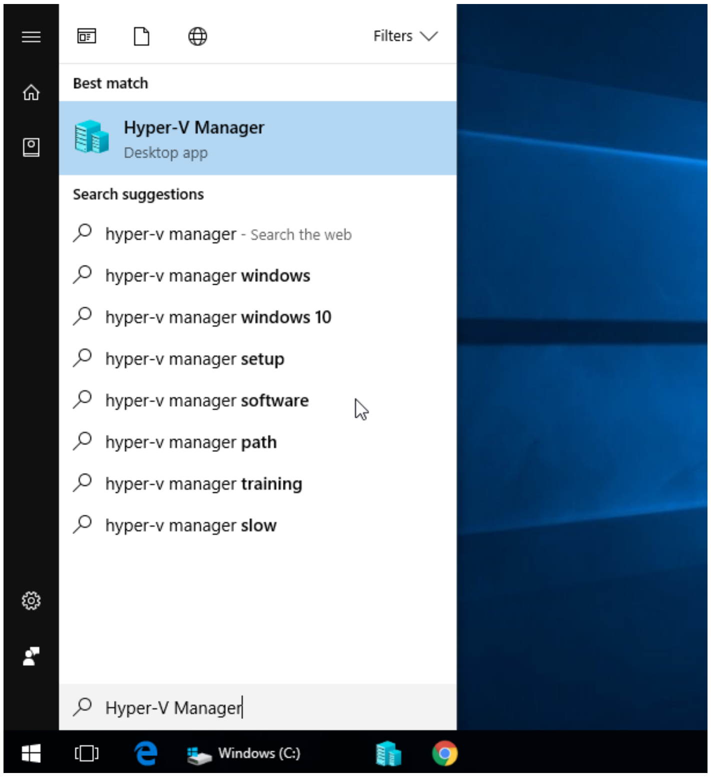
```
Get-Command –Module Hyper-V
```



```
PS C:\WINDOWS\system32> Get-Command -Module Hyper-V

CommandType     Name                                               Version    Source
-----------     ----                                               -------    ------
Cmdlet          Add-VMAssignableDevice                             2.0.0.0    Hyper-V
Cmdlet          Add-VMDvdDrive                                     2.0.0.0    Hyper-V
Cmdlet          Add-VMFibreChannelHba                              2.0.0.0    Hyper-V
Cmdlet          Add-VMGpuPartitionAdapter                          2.0.0.0    Hyper-V
Cmdlet          Add-VMGroupMember                                  2.0.0.0    Hyper-V
Cmdlet          Add-VMHardDiskDrive                                2.0.0.0    Hyper-V
Cmdlet          Add-VMHostAssignableDevice                         2.0.0.0    Hyper-V
Cmdlet          Add-VMKeyStorageDrive                              2.0.0.0    Hyper-V
Cmdlet          Add-VMMigrationNetwork                             2.0.0.0    Hyper-V
Cmdlet          Add-VMNetworkAdapter                               2.0.0.0    Hyper-V
Cmdlet          Add-VMNetworkAdapterAcl                            2.0.0.0    Hyper-V
Cmdlet          Add-VMNetworkAdapterExtendedAcl                    2.0.0.0    Hyper-V
Cmdlet          Add-VMNetworkAdapterRoutingDomainMapping           2.0.0.0    Hyper-V
Cmdlet          Add-VMRemoteFx3dVideoAdapter                       2.0.0.0    Hyper-V
Cmdlet          Add-VMScsiController                               2.0.0.0    Hyper-V
Cmdlet          Add-VMStoragePath                                  2.0.0.0    Hyper-V
Cmdlet          Add-VMSwitch                                       2.0.0.0    Hyper-V
Cmdlet          Add-VMSwitchExtensionPortFeature                   2.0.0.0    Hyper-V
Cmdlet          Add-VMSwitchExtensionSwitchFeature                 2.0.0.0    Hyper-V
Cmdlet          Add-VMSwitchTeamMember                             2.0.0.0    Hyper-V
Cmdlet          Checkpoint-VM                                      2.0.0.0    Hyper-V
Cmdlet          Compare-VM                                         2.0.0.0    Hyper-V
Cmdlet          Complete-VMFailover                                2.0.0.0    Hyper-V
Cmdlet          Connect-VMNetworkAdapter                           2.0.0.0    Hyper-V
Cmdlet          Connect-VMSan                                      2.0.0.0    Hyper-V
Cmdlet          Convert-VHD                                        2.0.0.0    Hyper-V
Cmdlet          Copy-VMFile                                        2.0.0.0    Hyper-V
Cmdlet          Debug-VM                                           2.0.0.0    Hyper-V
Cmdlet          Disable-VMConsoleSupport                           2.0.0.0    Hyper-V
Cmdlet          Disable-VMEventing                                 2.0.0.0    Hyper-V
Cmdlet          Disable-VMIntegrationService                       2.0.0.0    Hyper-V
Cmdlet          Disable-VMMigration                                2.0.0.0    Hyper-V
Cmdlet          Disable-VMRemoteFXPhysicalVideoAdapter             2.0.0.0    Hyper-V
Cmdlet          Disable-VMResourceMetering                         2.0.0.0    Hyper-V
Cmdlet          Disable-VMSwitchExtension                          2.0.0.0    Hyper-V
Cmdlet          Disable-VMTPM                                      2.0.0.0    Hyper-V
Cmdlet          Disconnect-VMNetworkAdapter                        2.0.0.0    Hyper-V
Cmdlet          Disconnect-VMSan                                   2.0.0.0    Hyper-V
Cmdlet          Dismount-VHD                                       2.0.0.0    Hyper-V
Cmdlet          Dismount-VMHostAssignableDevice                    2.0.0.0    Hyper-V
Cmdlet          Enable-VMConsoleSupport                            2.0.0.0    Hyper-V
Cmdlet          Enable-VMEventing                                  2.0.0.0    Hyper-V
Cmdlet          Enable-VMIntegrationService                        2.0.0.0    Hyper-V
Cmdlet          Enable-VMMigration                                 2.0.0.0    Hyper-V
Cmdlet          Enable-VMRemoteFXPhysicalVideoAdapter              2.0.0.0    Hyper-V
Cmdlet          Enable-VMReplication                               2.0.0.0    Hyper-V
```

3.8 Setup Hyper-V Virtual Switch

- Open the **Hyper-V Manager** application.



Best match

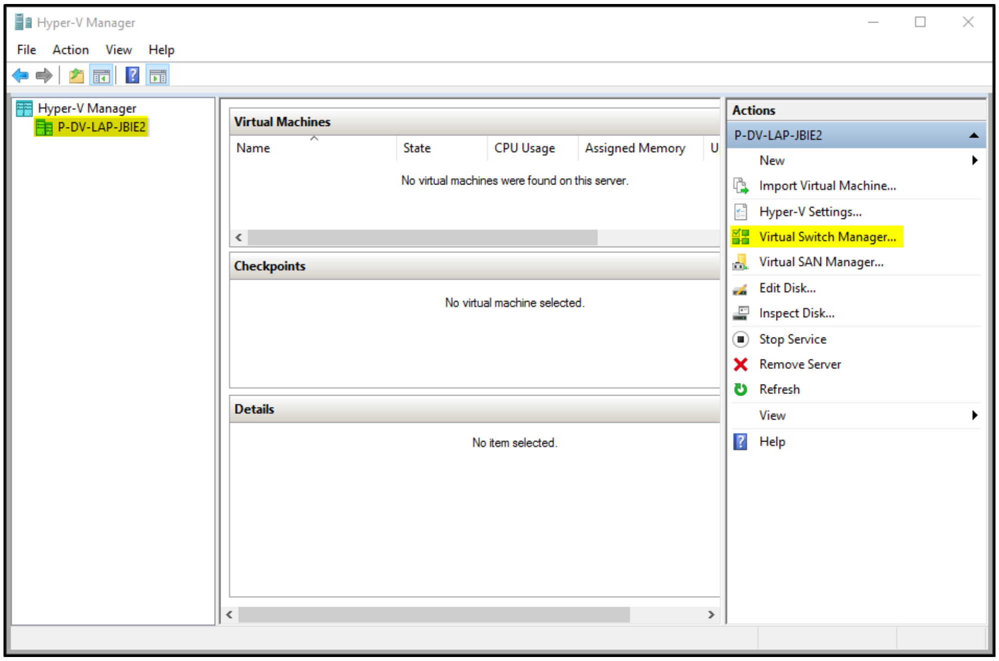
Hyper-V Manager
Desktop app

Search suggestions

hyper-v manager - Search the web
hyper-v manager **windows**
hyper-v manager **windows 10**
hyper-v manager **setup**
hyper-v manager **software**
hyper-v manager **path**
hyper-v manager **training**
hyper-v manager **slow**

Hyper-V Manager

- Make sure you have an **External Virtual Switch** which lets you access your VM from your local machine.
  - Select your local machine from the left pane.
  - In the Actions pane located in **Hyper-V Manager**, click on the **Virtual Switch Manager** link, see screenshot below.

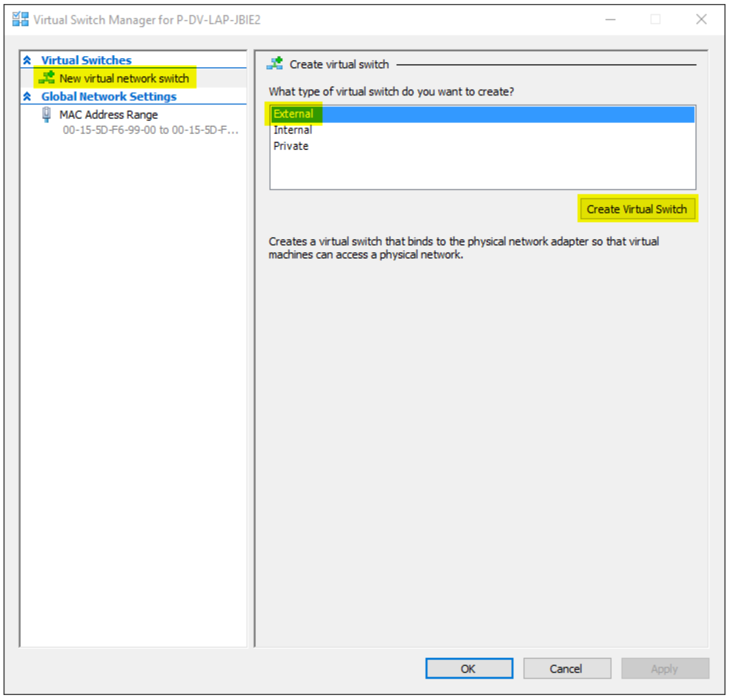


No virtual machines were found on this server.

No virtual machine selected.

No item selected.

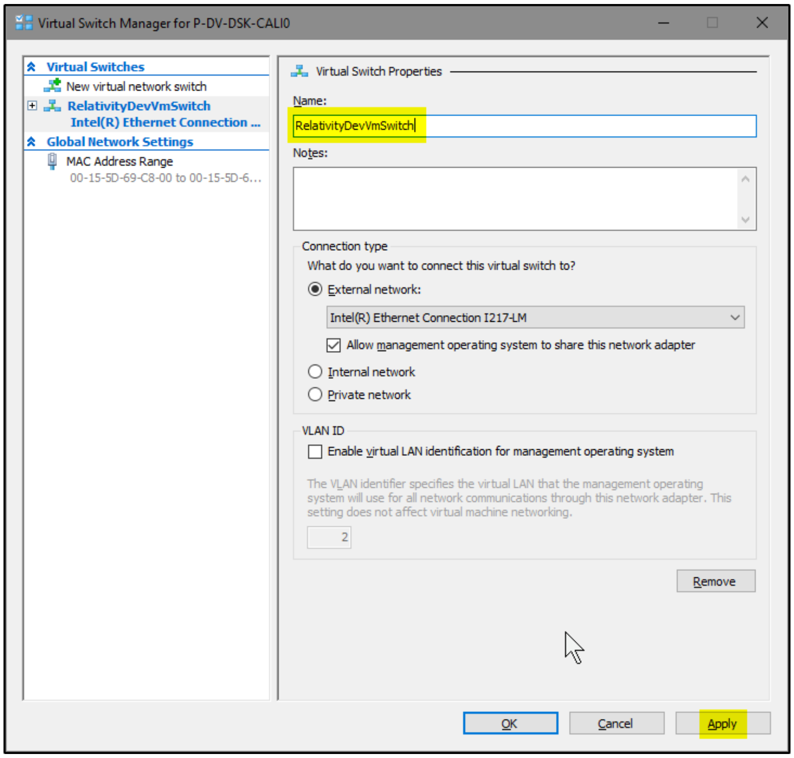
- If you don’t already have an external network switch please click the **New virtual network switch** link under **Virtual Switches**. Select **External** for the type of switch and click on the **Create Virtual Switch** button.



What type of virtual switch do you want to create?

Creates a virtual switch that binds to the physical network adapter so that virtual machines can access a physical network.

- Provide a friendly name for the new switch (For example: **RelativityDevVmSwitch**) and click **Apply** button.



Virtual Switch Manager for P-DV-DSK-CALI0
Virtual Switches
New virtual network switch
RelativityDevVmSwitch
Intel(R) Ethernet Connection ...
Global Network Settings
MAC Address Range
00-15-5D-69-C8-00 to 00-15-5D-6...
Virtual Switch Properties

Name: RelativityDevVmSwitch

Notes:

Connection type

What do you want to connect this virtual switch to?

● External network:

Intel(R) Ethernet Connection I217-LM

☑ Allow management operating system to share this network adapter

○ Internal network

○ Private network

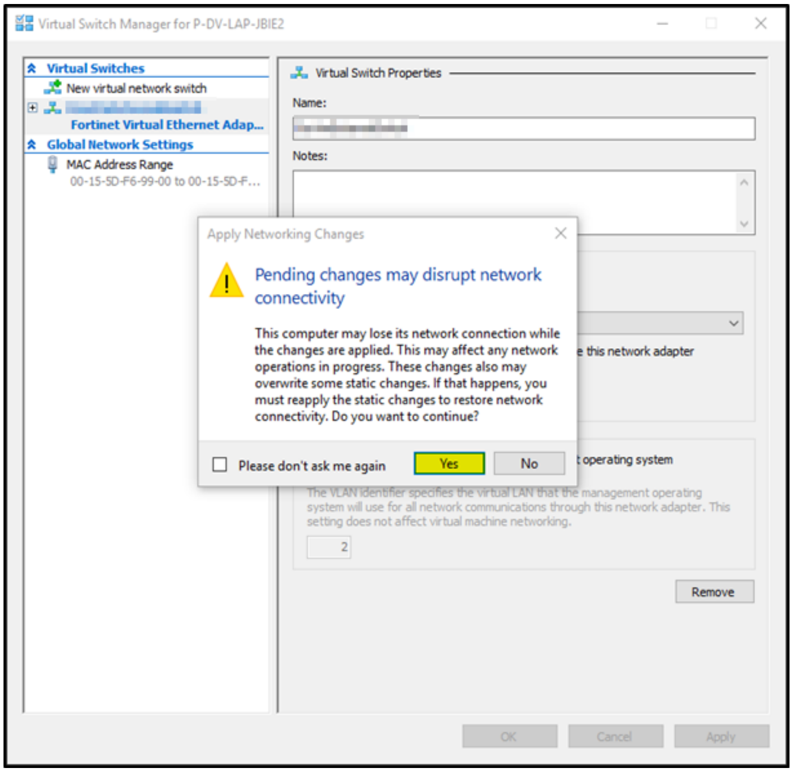
VLAN ID

☐ Enable virtual LAN identification for management operating system

The VLAN identifier specifies the virtual LAN that the management operating system will use for all network communications through this network adapter. This setting does not affect virtual machine networking.

2

- ○ If you get a warning message (see screenshot below), please click the **Yes** button.



Virtual Switch Manager for P-DV-LAP-JBIE2
Virtual Switches
New virtual network switch

[redacted]

Fortinet Virtual Ethernet Adap...
Global Network Settings
MAC Address Range
00-15-5D-F6-99-00 to 00-15-5D-F...
Virtual Switch Properties

Name: [redacted]

Notes:

Apply Networking Changes

Pending changes may disrupt network connectivity

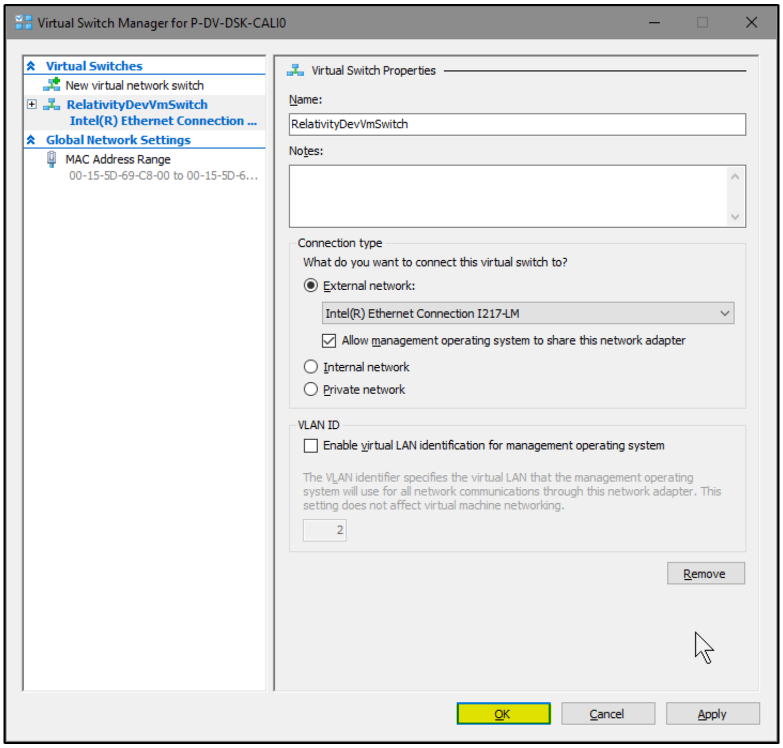
This computer may lose its network connection while the changes are applied. This may affect any network operations in progress. These changes also may overwrite some static changes. If that happens, you must reapply the static changes to restore network connectivity. Do you want to continue?

☐ Please don't ask me again

The VLAN identifier specifies the virtual LAN that the management operating system will use for all network communications through this network adapter. This setting does not affect virtual machine networking.

2

- ○ Next click the **OK** button to create your new virtual switch.


Virtual Switch Manager for P-DV-DSK-CALI0

Virtual Switches
New virtual network switch
RelativityDevVmSwitch
Intel(R) Ethernet Connection ...
Global Network Settings
MAC Address Range
00-15-5D-69-C8-00 to 00-15-5D-6...
Virtual Switch Properties

Name: RelativityDevVmSwitch

Notes:

Connection type

What do you want to connect this virtual switch to?

● External network:

Intel(R) Ethernet Connection I217-LM

☑ Allow management operating system to share this network adapter

○ Internal network

○ Private network

VLAN ID

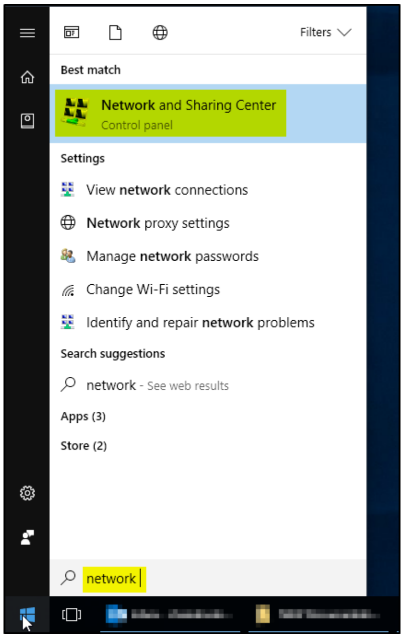
□ Enable virtual LAN identification for management operating system

The VLAN identifier specifies the virtual LAN that the management operating system will use for all network communications through this network adapter. This setting does not affect virtual machine networking.

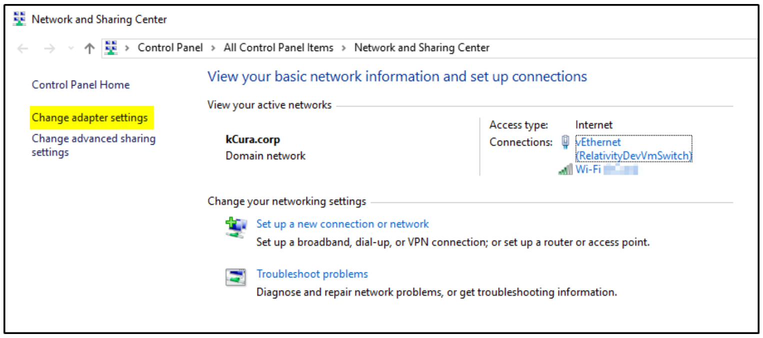
2

3.9 Share Internet Connection

- Sharing the internet connection of your workstation with the Dev VM will make it easy to access it.
- Open **Network and Sharing Center** application on your workstation.



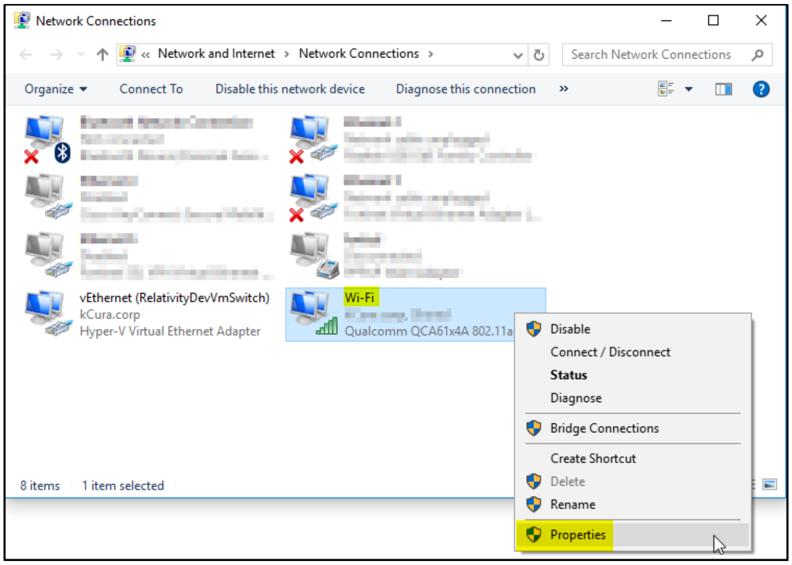
- Click on **Change adapter settings** link on the left pane.


Network and Sharing Center
Control Panel > All Control Panel Items > Network and Sharing Center
Control Panel Home
Change adapter settings
Change advanced sharing settings
View your basic network information and set up connections
View your active networks
kCura.corp
Domain network
Access type: Internet
Connections: vEthernet (RelativityDevVmSwitch)
Wi-Fi
Change your networking settings
Set up a new connection or network
Troubleshoot problems

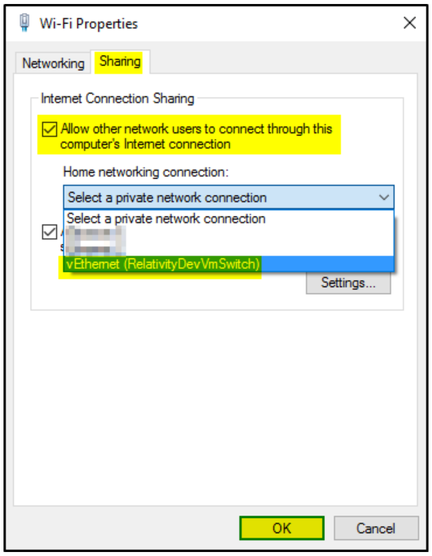
Set up a broadband, dial-up, or VPN connection; or set up a router or access point.

Diagnose and repair network problems, or get troubleshooting information.

- Right click on the Network connection which has the internet access and select **Properties**.



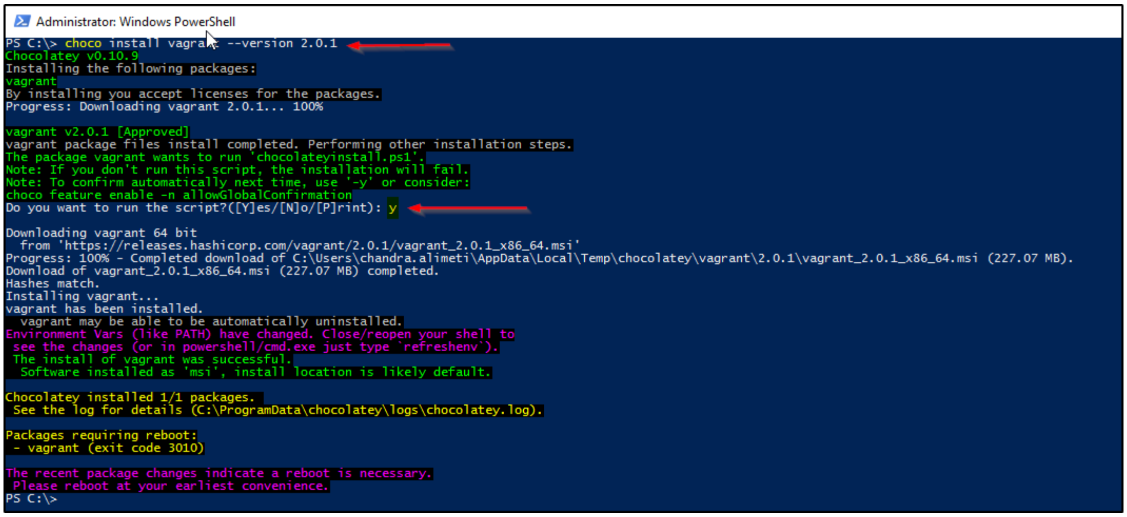
- Select **Sharing** tab, select the checkbox for **Allow other network users to connect through this computer's Internet connection** option. From the dropdown, select the virtual switch you created for Dev VM and click OK.


Wi-Fi Properties
Networking
Sharing
Internet Connection Sharing
☑ Allow other network users to connect through this computer's Internet connection
Home networking connection:
Select a private network connection
Select a private network connection
vEthernet (RelativityDevVmSwitch)
☑
Settings...
OK
Cancel

3.10 Install Vagrant Version 2.0.1

- Run the following command in PowerShell window.

choco install vagrant --version 2.0.1



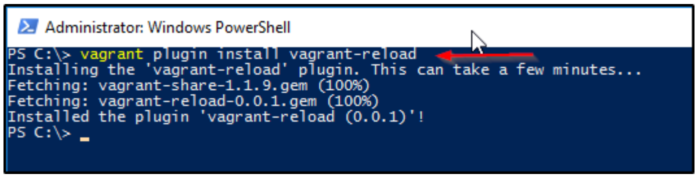
```
PS C:\> choco install vagrant --version 2.0.1
Chocolatey v0.10.9
Installing the following packages:
vagrant
By installing you accept licenses for the packages.
Progress: Downloading vagrant 2.0.1... 100%

vagrant v2.0.1 [Approved]
vagrant package files install completed. Performing other installation steps.
The package vagrant wants to run 'chocolateyinstall.ps1'.
Note: If you don't run this script, the installation will fail.
Note: To confirm automatically next time, use '-y' or consider:
choco feature enable -n allowGlobalConfirmation
Do you want to run the script?([Y]es/[N]o/[P]rint): y

Downloading vagrant 64 bit
  from 'https://releases.hashicorp.com/vagrant/2.0.1/vagrant_2.0.1_x86_64.msi'
Progress: 100% - Completed download of C:\Users\chandra.alimeti\AppData\Local\Temp\chocolatey\vagrant\2.0.1\vagrant_2.0.1_x86_64.msi (227.07 MB).
Download of vagrant_2.0.1_x86_64.msi (227.07 MB) completed.
Hashes match.
Installing vagrant...
vagrant has been installed.
  vagrant may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
 see the changes (or in powershell/cmd.exe just type `refreshenv`).
 The install of vagrant was successful.
  Software installed as 'msi', install location is likely default.

Chocolatey installed 1/1 packages.
 See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

Packages requiring reboot:
 - vagrant (exit code 3010)

The recent package changes indicate a reboot is necessary.
 Please reboot at your earliest convenience.
PS C:\>
```

- **Restart your workstation.**

3.11 Install Vagrant Reboot plugin

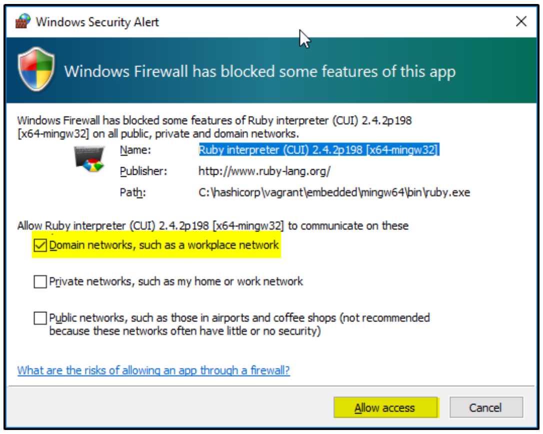
- Run the following command in PowerShell window.

vagrant plugin install vagrant-reload



```
PS C:\> vagrant plugin install vagrant-reload
Installing the 'vagrant-reload' plugin. This can take a few minutes...
Fetching: vagrant-share-1.1.9.gem (100%)
Fetching: vagrant-reload-0.0.1.gem (100%)
Installed the plugin 'vagrant-reload (0.0.1)'!
PS C:\> _
```

- If you see a popup, select **Allow access** as shown in below screenshot.t



Windows Firewall has blocked some features of Ruby interpreter (CUI) 2.4.2p198 [x64-mingw32] on all public, private and domain networks.

Name: Ruby interpreter (CUI) 2.4.2p198 [x64-mingw32]

Publisher: http://www.ruby-lang.org/

Path: C:\hashicorp\vagrant\embedded\mingw64\bin\ruby.exe

Allow Ruby interpreter (CUI) 2.4.2p198 [x64-mingw32] to communicate on these

☑ Domain networks, such as a workplace network

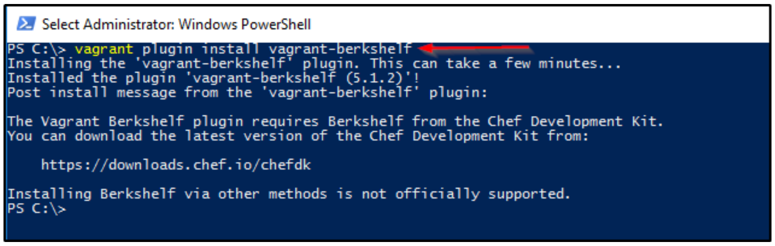
□ Private networks, such as my home or work network

□ Public networks, such as those in airports and coffee shops (not recommended because these networks often have little or no security)

3.12 Install Vagrant berkshelf plugin

- Run the following command in PowerShell window.

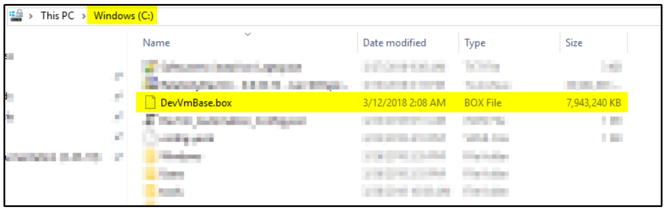
vagrant plugin install vagrant-berkshelf



```
PS C:\> vagrant plugin install vagrant-berkshelf
Installing the 'vagrant-berkshelf' plugin. This can take a few minutes...
Installed the plugin 'vagrant-berkshelf (5.1.2)'!
Post install message from the 'vagrant-berkshelf' plugin:

The Vagrant Berkshelf plugin requires Berkshelf from the Chef Development Kit.
You can download the latest version of the Chef Development Kit from:

    https://downloads.chef.io/chefdk

Installing Berkshelf via other methods is not officially supported.
PS C:\>
```

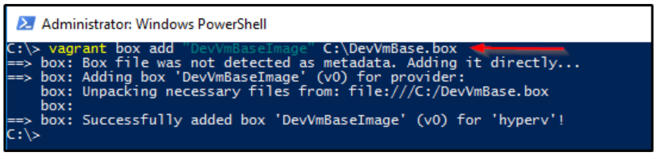
3.13 Add Dev VM Windows Base machine to Vagrant boxes list

- Follow the instructions provided in a different document to create a Windows Base machine. This Windows Base image is needed to run the Vagrant/Chef scripts.
- Once you have the Windows Base box image ready, copy it to your C drive.



- Next we need to add the Windows Base box image to the Vagrant boxes list. Run the following command in PowerShell window.

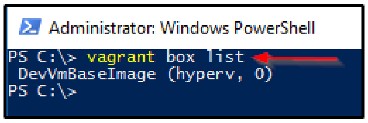
vagrant box add "DevVmBaseImage" C:\DevVmBase.box



```
C:\> vagrant box add "DevVmBaseImage" C:\DevVmBase.box
==> box: Box file was not detected as metadata. Adding it directly...
==> box: Adding box 'DevVmBaseImage' (v0) for provider:
    box: Unpacking necessary files from: file:///C:/DevVmBase.box
    box:
==> box: Successfully added box 'DevVmBaseImage' (v0) for 'hyperv'!
C:\>
```

- Confirm the vagrant box was successfully added. Run the following command in PowerShell window.

vagrant box list



```
PS C:\> vagrant box list
 DevVmBaseImage (hyperv, 0)
PS C:\>
```

4 Create New Dev VM

- It’s important that you run the below steps in order.

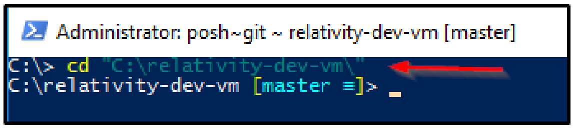
4.1 Login

- Login into your workstation with a Windows Administrator account.

4.2 Navigate to the Dev VM GIT repository

- Run the following command in PowerShell window.

cd "C:\relativity-dev-vm\"

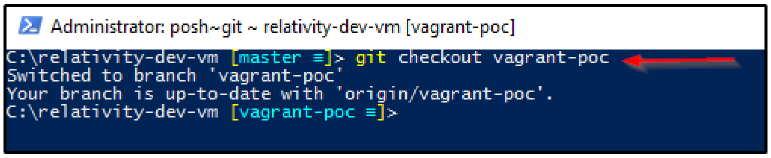


```
C:\> cd "C:\relativity-dev-vm\"
C:\relativity-dev-vm [master ≡]> _
```

4.3 Switch to vagrant-poc branch

- Run the following command in PowerShell window.

git checkout vagrant-poc

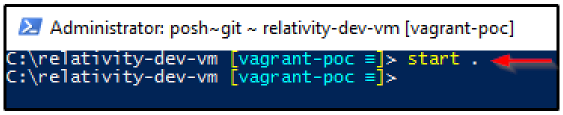


```
C:\relativity-dev-vm [master ≡]> git checkout vagrant-poc
Switched to branch 'vagrant-poc'
Your branch is up-to-date with 'origin/vagrant-poc'.
C:\relativity-dev-vm [vagrant-poc ≡]>
```

4.4 Copy the config.yaml file required for Dev VM

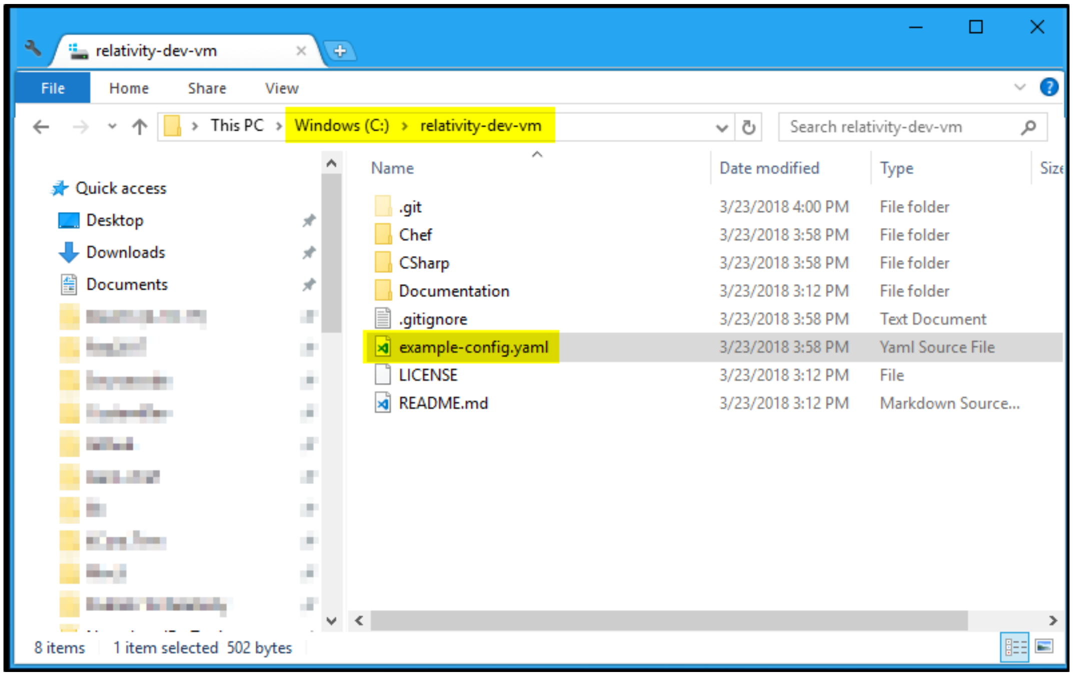
- Run the following command in PowerShell window.

start .



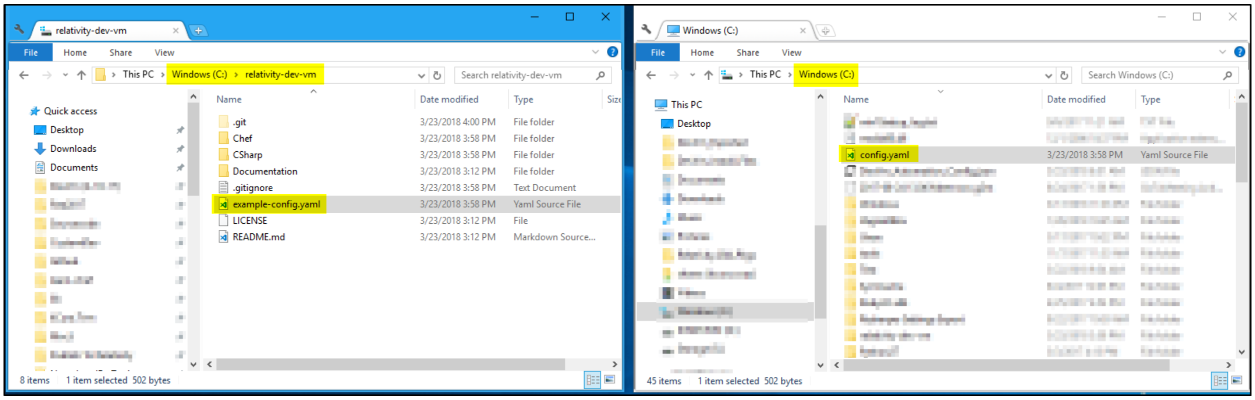
```
C:\relativity-dev-vm [vagrant-poc ≡]> start .
C:\relativity-dev-vm [vagrant-poc ≡]>
```

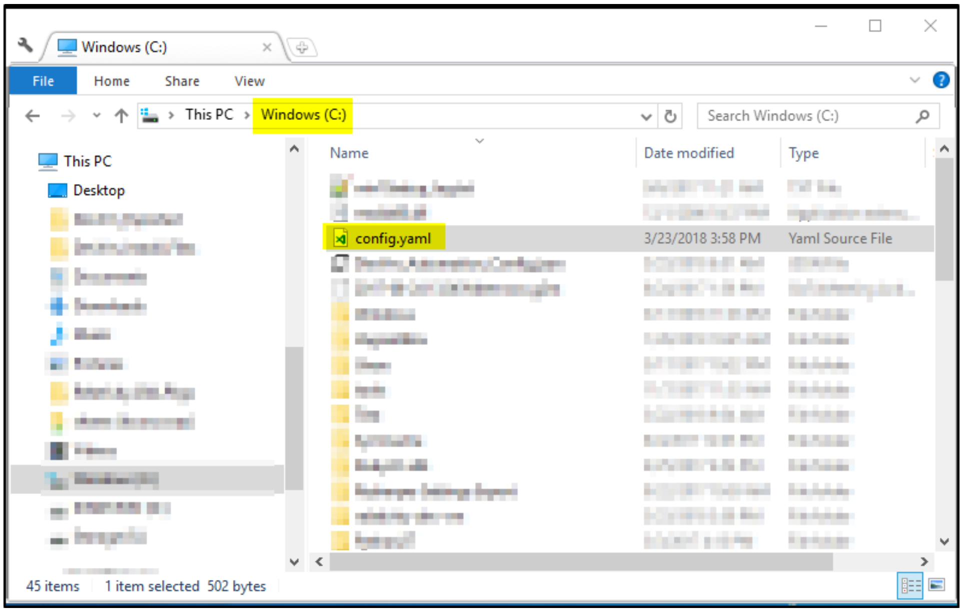
- This opens the current folder in Windows Explorer.



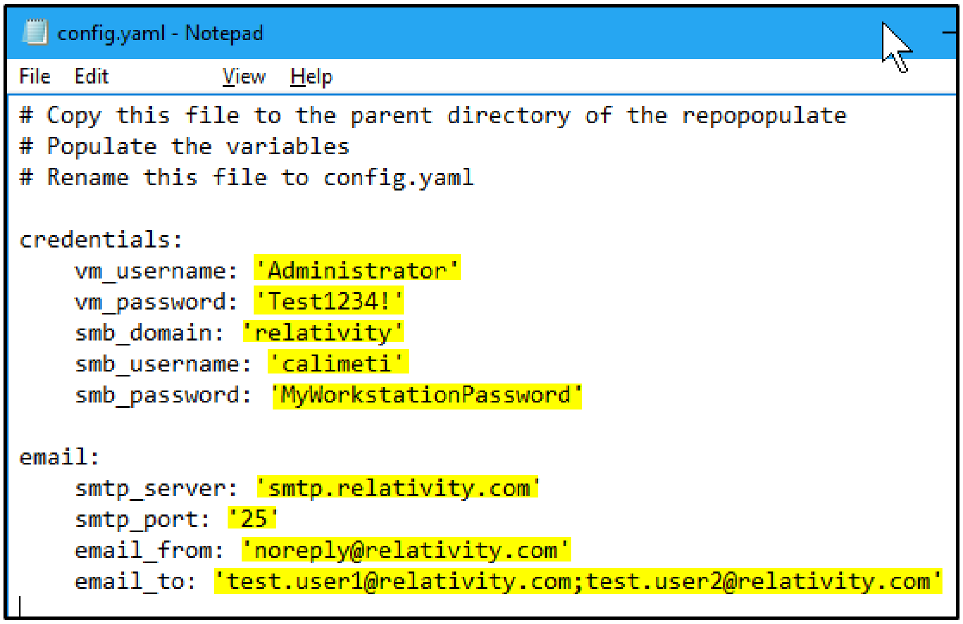
Name	Date modified	Type	Size
.git	3/23/2018 4:00 PM	File folder	
Chef	3/23/2018 3:58 PM	File folder	
CSharp	3/23/2018 3:58 PM	File folder	
Documentation	3/23/2018 3:12 PM	File folder	
.gitignore	3/23/2018 3:58 PM	Text Document	
example-config.yaml	3/23/2018 3:58 PM	Yaml Source File	
LICENSE	3/23/2018 3:12 PM	File	
README.md	3/23/2018 3:12 PM	Markdown Source...	

- Copy the **example-config.yaml** file from **C:\relativity-dev-vm** folder to **C drive** and rename it to **config.yaml**.





- Open the **config.yaml** file from **C drive** in Notepad.



```
# Copy this file to the parent directory of the repopopulate
# Populate the variables
# Rename this file to config.yaml

credentials:
    vm_username: 'Administrator'
    vm_password: 'Test1234!'
    smb_domain: 'relativity'
    smb_username: 'calimeti'
    smb_password: 'MyWorkstationPassword'

email:
    smtp_server: 'smtp.relativity.com'
    smtp_port: '25'
    email_from: 'noreply@relativity.com'
    email_to: 'test.user1@relativity.com;test.user2@relativity.com'
```

- Update the properties in the **config.yaml** file. Please find below a brief description of each property.
    - **vm_username**: Windows Admin username of the Dev VM.
    - **vm_password**: Windows Admin password of the Dev VM.
    - **smb_domain**: Domain of your workstation. If your workstation is not part of a domain, use your workstation computer name.
    - **smb_username**: Windows Admin username of your workstation.

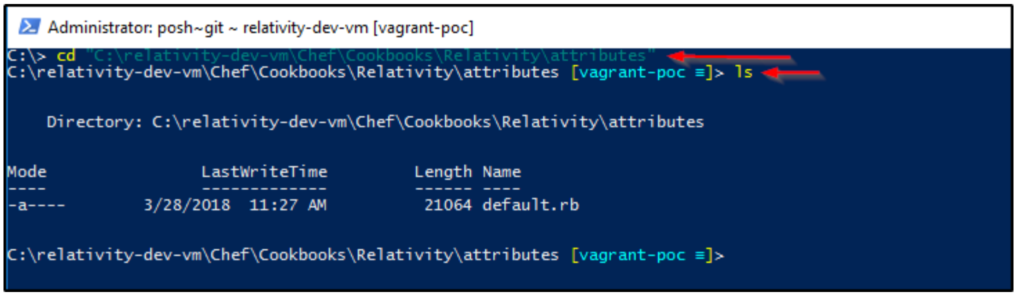
  - **smb_password**: Windows Admin password of your workstation.
  - **smtp_server**, **smtp_port**, **email_from**, **email_to** will be values for the email server on your domain. These values will be used to send the report of the Smoke tests run after the Dev VM creation.

- Save the changes to the **config.yaml** file.

4.5 Update Configuration file

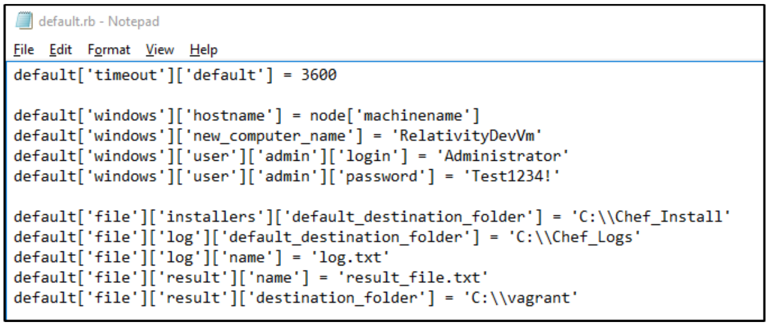
- Navigate to the configuration file directory. Run the following command in PowerShell window.

```
cd "C:\relativity-dev-vm\Chef\Cookbooks\Relativity\attributes"
```



```
C:\> cd "C:\relativity-dev-vm\Chef\Cookbooks\Relativity\attributes"
C:\relativity-dev-vm\Chef\Cookbooks\Relativity\attributes [vagrant-poc ≡]> ls


    Directory: C:\relativity-dev-vm\Chef\Cookbooks\Relativity\attributes


Mode                LastWriteTime         Length Name
----                -------------         ------ ----
-a----        3/28/2018  11:27 AM          21064 default.rb


C:\relativity-dev-vm\Chef\Cookbooks\Relativity\attributes [vagrant-poc ≡]>
```

- The directory contains one file name **default.rb**.
- Open the **default.rb** file and update the necessary properties.



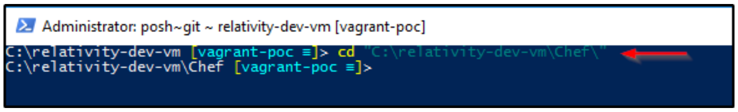
```
default['timeout']['default'] = 3600

default['windows']['hostname'] = node['machinename']
default['windows']['new_computer_name'] = 'RelativityDevVm'
default['windows']['user']['admin']['login'] = 'Administrator'
default['windows']['user']['admin']['password'] = 'Test1234!'

default['file']['installers']['default_destination_folder'] = 'C:\\Chef_Install'
default['file']['log']['default_destination_folder'] = 'C:\\Chef_Logs'
default['file']['log']['name'] = 'log.txt'
default['file']['result']['name'] = 'result_file.txt'
default['file']['result']['destination_folder'] = 'C:\\vagrant'
```

4.6 Run the Dev VM Creation script

4.6.1 Navigate to the Dev VM GIT repository

- Run the following command in PowerShell window.

```
cd "C:\relativity-dev-vm\Chef\"
```

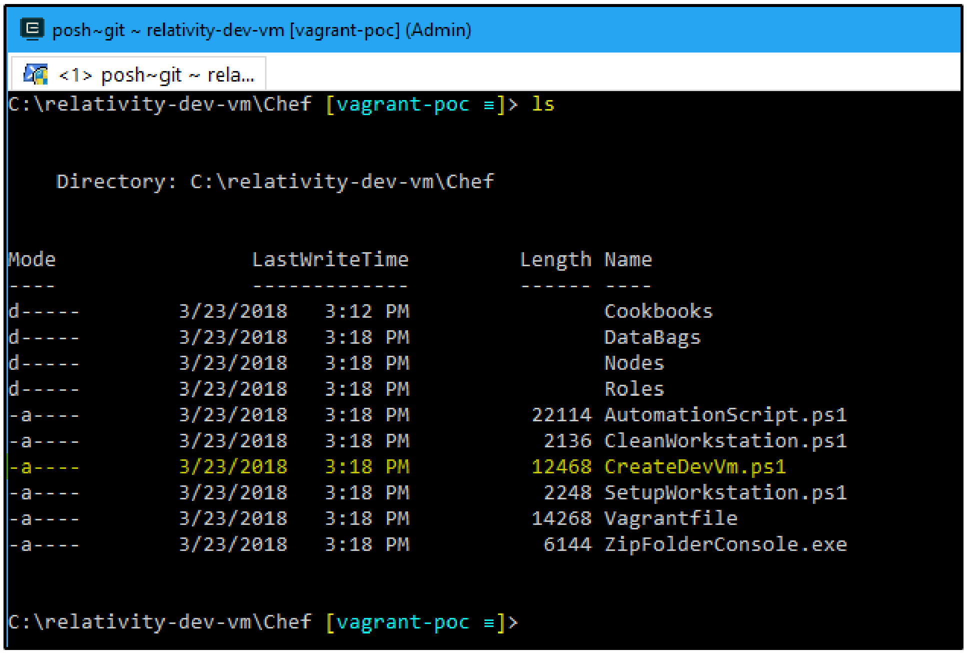


```
C:\relativity-dev-vm [vagrant-poc ≡]> cd "C:\relativity-dev-vm\Chef\"
C:\relativity-dev-vm\Chef [vagrant-poc ≡]>
```

4.6.2 List all the files in Chef folder

- Run the following command in PowerShell window.

```
ls
```



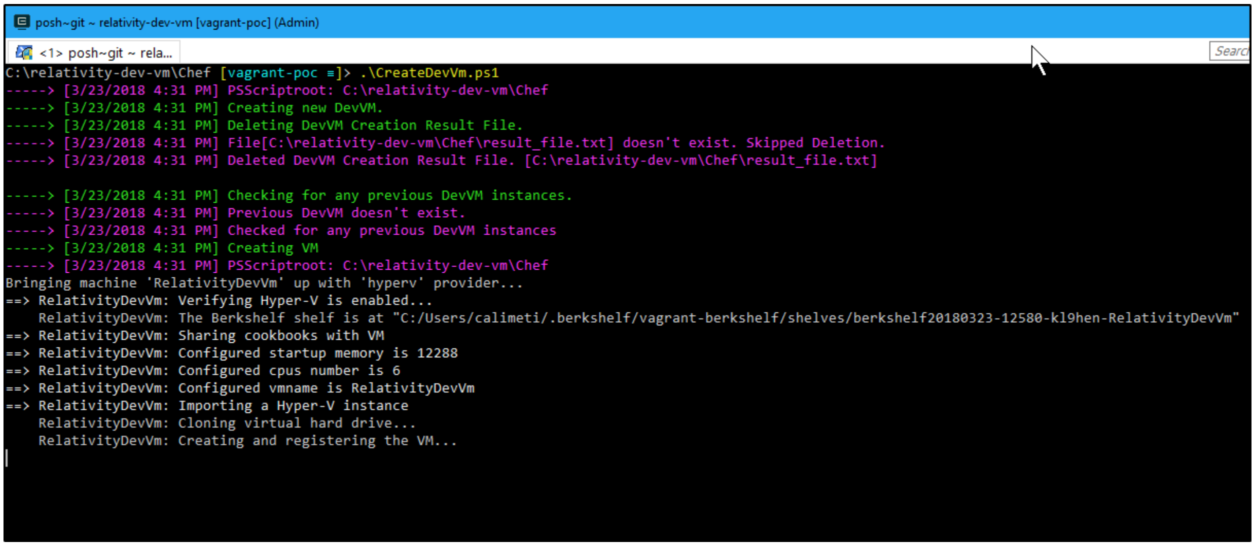
```
C:\relativity-dev-vm\Chef [vagrant-poc ≡]> ls


    Directory: C:\relativity-dev-vm\Chef


Mode                LastWriteTime         Length Name
----                -------------         ------ ----
d-----        3/23/2018   3:12 PM                Cookbooks
d-----        3/23/2018   3:18 PM                DataBags
d-----        3/23/2018   3:18 PM                Nodes
d-----        3/23/2018   3:18 PM                Roles
-a----        3/23/2018   3:18 PM          22114 AutomationScript.ps1
-a----        3/23/2018   3:18 PM           2136 CleanWorkstation.ps1
-a----        3/23/2018   3:18 PM          12468 CreateDevVm.ps1
-a----        3/23/2018   3:18 PM           2248 SetupWorkstation.ps1
-a----        3/23/2018   3:18 PM          14268 Vagrantfile
-a----        3/23/2018   3:18 PM           6144 ZipFolderConsole.exe


C:\relativity-dev-vm\Chef [vagrant-poc ≡]>
```

- **CreateDevVm.ps1** PowerShell script has the code to create a new Dev VM.

4.6.3 Run the Creation script

- Run the following command in PowerShell window.

```
.\CreateDevVm.ps1
```



```
C:\relativity-dev-vm\Chef [vagrant-poc ≡]> .\CreateDevVm.ps1
-----> [3/23/2018 4:31 PM] PSScriptroot: C:\relativity-dev-vm\Chef
-----> [3/23/2018 4:31 PM] Creating new DevVM.
-----> [3/23/2018 4:31 PM] Deleting DevVM Creation Result File.
-----> [3/23/2018 4:31 PM] File[C:\relativity-dev-vm\Chef\result_file.txt] doesn't exist. Skipped Deletion.
-----> [3/23/2018 4:31 PM] Deleted DevVM Creation Result File. [C:\relativity-dev-vm\Chef\result_file.txt]

-----> [3/23/2018 4:31 PM] Checking for any previous DevVM instances.
-----> [3/23/2018 4:31 PM] Previous DevVM doesn't exist.
-----> [3/23/2018 4:31 PM] Checked for any previous DevVM instances
-----> [3/23/2018 4:31 PM] Creating VM
-----> [3/23/2018 4:31 PM] PSScriptroot: C:\relativity-dev-vm\Chef
Bringing machine 'RelativityDevVm' up with 'hyperv' provider...
==> RelativityDevVm: Verifying Hyper-V is enabled...
    RelativityDevVm: The Berkshelf shelf is at "C:/Users/calimeti/.berkshelf/vagrant-berkshelf/shelves/berkshelf20180323-12580-kl9hen-RelativityDevVm"
==> RelativityDevVm: Sharing cookbooks with VM
==> RelativityDevVm: Configured startup memory is 12288
==> RelativityDevVm: Configured cpus number is 6
==> RelativityDevVm: Configured vmname is RelativityDevVm
==> RelativityDevVm: Importing a Hyper-V instance
    RelativityDevVm: Cloning virtual hard drive...
    RelativityDevVm: Creating and registering the VM...
```

- Once the script finishes execution successfully, you should be able to see a

5 Clean Workstation

- It’s important that you run the below steps in order.

5.1 Login

- Login into your workstation with a Windows Administrator account.

5.2 Remove Vagrant Box Image

- Run the following command in PowerShell window.

```
vagrant box remove "DevVmBaseImage" –force
```

5.3 Uninstall Vagrant berkshelf plugin

- Run the following command in PowerShell window.

```
vagrant plugin uninstall vagrant-berkshelf
```

5.4 Uninstall Vagrant reload plugin

- Run the following command in PowerShell window.

```
vagrant plugin uninstall vagrant-reload
```

5.5 Uninstall Vagrant

- Run the following command in PowerShell window.

```
choco uninstall vagrant –force
```

5.6 Uninstall Chocolatey

- Run the following command in PowerShell window.

```
Remove-Item -Recurse -Force "$env:ChocolateyInstall"
```

- Run the following command in PowerShell window.

```
[System.Text.RegularExpressions.Regex]::Replace([Microsoft.Win32.Registry]::CurrentUser.OpenSubKey
('Environment').GetValue('PATH', '',
[Microsoft.Win32.RegistryValueOptions]::DoNotExpandEnvironmentNames).ToString(),
[System.Text.RegularExpressions.Regex]::Escape("$env:ChocolateyInstall\bin") + '(?>;)?', '',
[System.Text.RegularExpressions.RegexOptions]::IgnoreCase) | % {[System.Environment]::SetEnvironmentVariable('PATH', $_, 'User')}
```

- Run the following command in PowerShell window.

```
[System.Text.RegularExpressions.Regex]::Replace([Microsoft.Win32.Registry]::LocalMachine.OpenSubKey('SYSTEM\CurrentControlSet\Control\Session Manager\Environment\').GetValue('PATH', '', [Microsoft.Win32.RegistryValueOptions]::DoNotExpandEnvironmentNames).ToString(), [System.Text.RegularExpressions.Regex]::Escape("$env:ChocolateyInstall\bin") + '(?>;)?', '', [System.Text.RegularExpressions.RegexOptions]::IgnoreCase) | % {[System.Environment]::SetEnvironmentVariable('PATH', $_, 'Machine')}
```

- Run the following command in PowerShell window.

```
if ($env:ChocolateyBinRoot -ne '' -and $env:ChocolateyBinRoot -ne $null) { Remove-Item -Recurse -Force "$env:ChocolateyBinRoot"  }
```

- Run the following command in PowerShell window.

```
if ($env:ChocolateyToolsRoot -ne '' -and $env:ChocolateyToolsRoot -ne $null) { Remove-Item -Recurse -Force "$env:ChocolateyToolsRoot"  }
```

- Run the following command in PowerShell window.

```
[System.Environment]::SetEnvironmentVariable("ChocolateyBinRoot", $null, 'User')
```

- Run the following command in PowerShell window.

```
[System.Environment]::SetEnvironmentVariable("ChocolateyToolsLocation", $null, 'User')
```

5.7 Remove Hyper-V Virtual Switch

- Run the following command in PowerShell window.

```
Remove-VMSwitch "RelativityDevVmSwitch" -Force
```

5.8 Uninstall Hyper-V

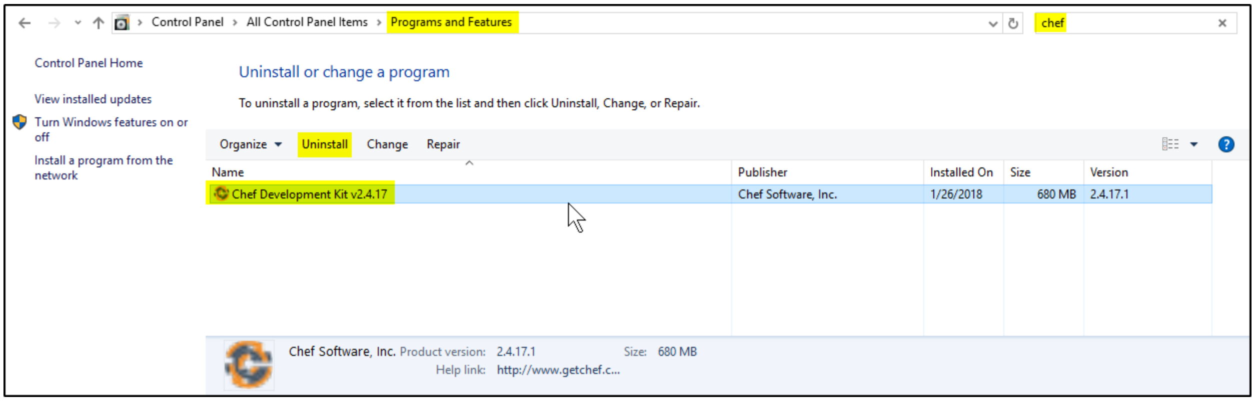
- Run the following command in PowerShell window.

```
Disable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -NoRestart
```

- **Restart your workstation.**

5.9 Uninstall Chef Development Kit

- Open **Programs and Features** application.
- Search for **Chef Development Kit**, select it and click Uninstall.


Control Panel › All Control Panel Items › Programs and Features
chef
Control Panel Home
View installed updates
Turn Windows features on or off
Install a program from the network
Organize
Uninstall
Change
Repair

Uninstall or change a program

To uninstall a program, select it from the list and then click Uninstall, Change, or Repair.

Name	Publisher	Installed On	Size	Version
Chef Development Kit v2.4.17	Chef Software, Inc.	1/26/2018	680 MB	2.4.17.1

Chef Software, Inc. Product version: 2.4.17.1 Size: 680 MB
Help link: http://www.getchef.c...