Relativity Dev VM
Create Windows Base Machine
Documentation
[April 3, 2018]

Table of Contents

1 Instructions

1. Create the following folders on host machine
    a. **S:\Hyper-V**
    b. **S:\ISO**
2. Download **Windows Server 2012 R2** ISO file at this link - http://care.dlservice.microsoft.com/dl/download/6/2/A/62A76ABB-9990-4EFC-A4FE-C7D698DAEB96/9600.17050.WINBLUE_REFRESH.140317-1640_X64FRE_SERVER_EVAL_EN-US-IR3_SSS_X64FREE_EN-US_DV9.ISO
3. Copy the downloaded ISO file to **S:\ISO** folder
4. Enable Hyper-V on the host machine.
5. Create an **External Hyper-V Virtual Switch** on the host machine. Name the switch as **RelativityDevVmSwitch.**
6. Set **PowerShell** to always open with '**Run as Administrator**' permissions.
7. Run the following commands in PowerShell

```
$vm = New-VM -Name DevVmBase -MemoryStartupBytes 12GB -NewVHDPath "S:\Hyper-V\DevVmBase\Virtual Hard Disks\DevVmBase.vhdx" -NewVHDSizeBytes 120GB -Path "S:\Hyper-V" -SwitchName RelativityDevVmSwitch
```

```
$vm | Add-VMDvdDrive -Path "S:\ISO\9600.17050.WINBLUE_REFRESH.140317-1640_X64FRE_SERVER_EVAL_EN-US-IR3_SSS_X64FREE_EN-US_DV9.ISO"
```

```
$vm | Set-VM -AutomaticStartAction StartIfRunning -AutomaticStopAction ShutDown
```

```
$vm | Start-VM
```

8. Choose the **Windows Server 2012 R2 Standard Evaluation (Server with a GUI)** option for windows installation.
9. Eject the OS disk.
10. Change Computer Name to **DevVmBase**.
11. Share the host machine internet connection with the VM. (share it to **RelativityDevVmSwitch**)
12. Run the following command in PowerShell

```
Set-ExecutionPolicy Unrestricted
```

13. Install **PowerShell 5**
    a. Download and install Win8.1AndW2K12R2-KB3191564-x64.msu file at this link - https://docs.microsoft.com/en-us/powershell/wmf/5.1/install-configure
    b. Restart VM.
14. Install **.NET 4.6.2**

    a. Download and install - https://www.microsoft.com/en-us/download/details.aspx?id=53344
    b. Restart VM.
15. Delete Install files from the **Downloads** and **Recycle Bin** folders.
16. Setup **WinRM**
    a. Run the following commands in PowerShell

```
Get-NetFirewallPortFilter | ?{$_.LocalPort -eq 5985 } | Get-NetFirewallRule | ?{ $_.Direction -eq "Inbound" -and $_.Profile -eq "Public" -and $_.Action -eq "Allow"} | Set-NetFirewallRule -RemoteAddress "Any"

winrm quickconfig -q

winrm set winrm/config/winrs '@{MaxMemoryPerShellMB="512"}'

winrm set winrm/config '@{MaxTimeoutms="1800000"}'

winrm set winrm/config/service '@{AllowUnencrypted="true"}'

winrm set winrm/config/service/auth '@{Basic="true"}'

Start-Service WinRM

set-service WinRM -StartupType Automatic
```

17. Remove **IPV6** for the **Ethernet** Network Adapter.
18. In **Server Manager** application
    a. Turn off **Firewall** (for Domain, Private and Public profiles)
    b. Enable **Remote Desktop** connections
    c. Turn **IE Enhanced Security Configuration** Off. (for Administrators and Users)
    d. Change **Windows Time zone** to your local Time zone.
19. Change **User Account Control** settings to **Never Notify**.
20. **Windows Updates**
    a. Turn on Automatic Updates.
    b. Install all available updates