## Hyper-V Setup Lab 3

### Hyper-V Installation

- 1. Make sure you are able to run via the ExecutionPolicy
  - 1. In PowerShell, as Admin, run:

PS> Get-ExecutionPolicy

Hopefully you see RemoteSigned, that'll be sufficient

- 2. Let's enable the Optional Feature
  - 1. PS> Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All -NoRestart

PS C:\Windows\System32> Enable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V -All -NoRestart WARNING: Restart is suppressed because NoRestart is specified.

Path : Online : Tru

RestartNeeded : True

#### Hyper-V Installation

- 3. Does not install management tools (hypervisor only)
  - 1. PS> Install-WindowsFeature RSAT-Hyper-V-Tools -IncludeAllSubFeature
- 4. Any chance we want to do a cluster? If so, we need things for that too...
  - 1. PS> Install-WindowsFeature RSAT-Clustering -IncludeAllSubFeature
- 5. Perhaps we want to allow multiple paths to file storage
  - 1. PS> Install-WindowsFeature Multipath-IO
- 6. Now let's let this all take effect...
  - 1. PS> Restart-Computer

# Hyper-V installation

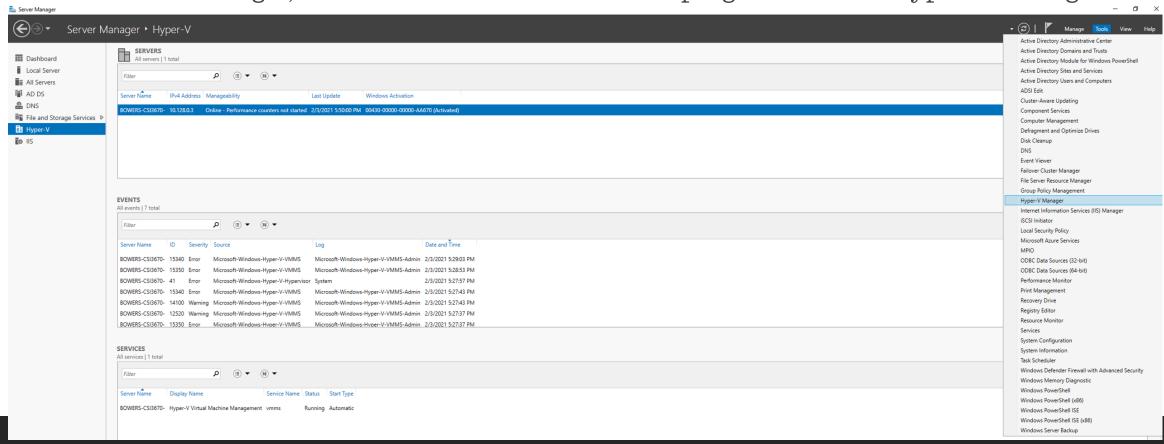
Let's look up what we can do now...

PS> 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-VMPmemController	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

### Hyper-V installation

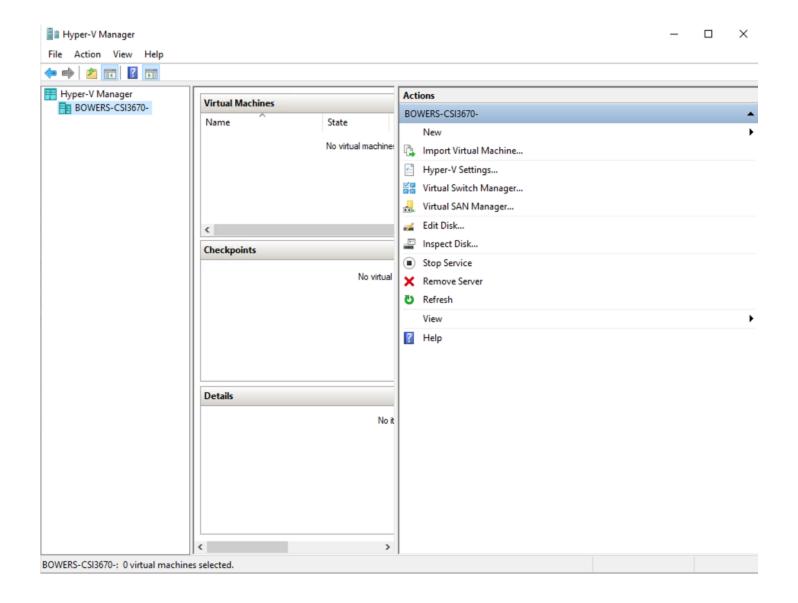
In Server Manager, click on the Tools menu in the top right and select Hyper-V Manager.



## Hyper-V installation

In Hyper-V Manager, click on server in left pane

Click New → Virtual Machine



### Hyper-V removal

Simply unroll commands (run the opposite in reverse order)

- PS> Remove-WindowsFeature Multipath-IO
- PS> Remove-WindowsFeature RSAT-Clustering
- PS> Remove-WindowsFeature RSAT-Hyper-V-Tools
- PS> Disable-WindowsOptionalFeature -Online -FeatureName Microsoft-Hyper-V
- PS> Restart-Computer
  - The Disable-WindowsOptionalFeature step may ask you to restart the computer first, if so, type y and hit Enter and skip the Restart-Computer step