# **2.1 Add/Remove Roles and Features**

* Role and Feature management is provided by the Server Manager PowerShell module
* The module is installed by default, but not loaded
* NOTE: The PowerShell cmdlets refer to Roles, Features and Role Services as "Features"
* To add a Role/Feature:
  1. Launch PowerShell as an Administrator
  2. Load the Server Manager module  
     Import-Module Servermanager
  3. Query the current status of the role/feature  
     Get-WindowsFeature  
     Get-WindowsFeature -Name <name>  
     Get-WindowsFeature | Where-Object { $\_.InstallState -EQ "Installed"}  
     Get-WindowsFeature | Where Installed  
     Get-WindowsFeature | Where InstallState -NE Installed
  4. Install the role/feature  
     Add-WindowsFeature <name>  
     Add-WindowsFeature Telnet-Client  
     Add-WindowsFeature Hyper-V,DNS,DHCP -restart
  5. Verify installation status  
     Get-WindowsFeature -Name <name>
* To remove a Role/Feature
  1. Launch PowerShell as an Administrator
  2. Load the Server Manager module
  3. Query the current status of the role/feature
  4. Remove the role/feature  
     Remove-WindowsFeature <name>  
     Remove-WindowsFeature Telnet-Client  
     Remove-WindowsFeature Hyper-V,DNS,DHCP -restart
  5. Verify installation status
* NOTE: Attempting to install a feature that is already present will not have any affect.