2.4 Configuring Networking

* Assigning a Basic IP Configuration
  + If necessary, Import-Module NetAdapter
  + Query Available Adapters
    - Get-NetAdapter
    - Returns Name (Alias) as well as ifIndex #
    - ifIndex is used in a number of commands
  + There are multiple ways to reference a specific adapter - -Name "Local Network" - -InterfaceIndex 12 - -InterfaceAlias "Local Network"
  + When Working with Adapaters...
    - New-\* Creates something new
    - Set-\* Modifies an existing configuration
  + Enable / Disable DHCP
    - Get-NetAdapter -Name "Local Network" | Set-NetIPInterface -DHCP Disabled
  + Assign a Static IP (IPv4)
    - Method #1: Get-NetAdapter -Name "Local Network" | New-NetIPAddress -AddressFamily IPv4 IPAddress 192.168.29.3 -PrefixLength 24 -Type Unicast -DefaultGateway 192.168.29.2
    - Method #2: New-NetIPAddress -InterfaceIndex 12 -AddressFamily IPv4 -IPAddress 192.168.29.3 -PrefixLength 24 -Type Unicast -DefaultGateway 192.168.29.2
    - Method #3: New-NetIPAddress -InterfaceAlias "Local Network" -AddressFamily IPv4 -IPAddress 192.168.29.3 -PrefixLength 24 -Type Unicast -DefaultGateway 192.168.29.2
  + Assign a Static IP (IPv6)
    - New-NetIPAddress -InterfaceIndex 12 -IPAddress 2001:0db8::3 -PrefixLength 64 -DefaultGateway 2001:0db8::2
  + Assign Name Server
    - Set-DnsClientServerAddress -InterfaceAlias "Local Network" -ServerAddresses 192.168.29.3,8.8.8.8