1. **Configure the server IP address**

To get the adapter alias and index

Syntax: Get-NetAdapter

To disable DHCP on the adapter, use the following command.

Syntax: Set-NetIPInterface -InterfaceAlias “NIC1” -DHCP Disabled -PassThru

Please change the part in green as needed

Set the static IPv4 address

Syntax:

New-NetIPAddress `

-AddressFamily IPv4 `

-InterfaceAlias “10 Network” `

-IPAddress 192.168.1.1 `

-PrefixLength 24 `

-DefaultGateway 192.168.1.1

Please change the part in green as needed

Set the DNS server addresses

The last part of setting a fixed IP address is to set the DNS server addresses. Because your first domain controller in the new forest should also be your DNS server.

Syntax:

Set-DnsClientServerAddress `

-InterfaceAlias “10 Network” `

-ServerAddresses 192.168.1.1

Please change the part in green as needed

1. **Set the server name**

Before you actually deploy your new forest, you should set the name of your domain controller to match your naming convention. Changing the name of a computer causes a reboot, which is why you should delay that change until after all the IP address setting is done.

Syntax: Rename-Computer -NewName dc-01 -Restart -Force -PassThru

Please change part in green as needed

1. **Install active directory domain services**

Before you can promote the server to be a domain controller, you need to install the Active Directory Domain Services role on the server

Syntax: Install-WindowsFeature -Name AD-Domain-Services -IncludeManagementTools

1. **Create the forest**
2. Test the forest creation

To confirm if we have all necessary prerequisites, it is a good practice to use the appropriate test cmdlet to verify the environment.

Syntax: Test-ADDSForestInstallation

1. Deploy the first domain controller and forest

At this point, you’ve configured your server, added the necessary Windows PowerShell modules and the Windows Server roles, and tested your environment. All is ready to do the actual initial deployment of your first domain controller and root AD DS forest.

Syntax:

Install-ADDSForest `

-NoGlobalCatalog:$false `

-InstallDns:$true `

-CreateDnsDelegation:$false `

-CriticalReplicationOnly:$false `

-DatabasePath "C:\Windows\NTDS" `

-LogPath "C:\Windows\NTDS" `

-SysvolPath "C:\Windows\SYSVOL" `

-DomainName "test1.com" `

-NoRebootOnCompletion:$false

-SiteName "Default-First-Site-Name" `

-Force:$true

e. Reboot the server to complete the process and check if we have all features installed