

Windows Scripts

For windows 2019

Sahar Garmsiri

MICROSOFT LEARN

-DHCP

assign a static IP address to the DHCP server

```
New-NetIPAddress -IPAddress 10.0.0.3 -InterfaceAlias "Ethernet" -DefaultGateway 10.0.0.1  
-AddressFamily IPv4 -PrefixLength 24
```

```
Set-DnsClientServerAddress -InterfaceAlias "Ethernet" -ServerAddresses 10.0.0.2
```

ReName Computer # (Optional)

```
Rename-Computer "DHCP1"
```

```
Restart-Computer
```

Join the computer to the domain

```
Add-Computer -DomainName test.com -Restart
```

Install DHCP

```
Install-WindowsFeature -Name DHCP -IncludeManagementTools
```

Create DHCP security groups

```
netsh dhcp add securitygroups
```

```
Restart-Service dhcpserver
```

Authorize the DHCP server in Active Directory # (Optional)

```
Add-DhcpServerInDC -DnsName DHCP1.test.com -IPAddress 10.0.0.3
```

(To verify that the DHCP server is authorized in Active Directory:)

```
Get-DhcpServerInDC
```

IPAddress	DnsName
-----------	---------

10.0.0.3	DHCP1.test.com
----------	----------------

Set server level DNS dynamic update configuration settings # (Optional)

```
Set-DhcpServerV4DnsSetting -ComputerName "DHCP1.test.com" -  
DynamicUpdates "Always" -DeleteDnsRRonLeaseExpiry $True
```

(You can use the following command to configure the credentials that the DHCP server uses to register or unregister client records on a DNS server:)

```
$Credential = Get-Credential
```

```
Set-DhcpServerDnsCredential -Credential $Credential -ComputerName  
"DHCP1.corp.contoso.com"
```

Configure the Scope

```
Add-DhcpServerV4Scope -name "Corpnet" -StartRange 10.0.0.1 -EndRange 10.0.0.254  
-SubnetMask 255.255.255.0 -State Active
```

```
Add-DhcpServerV4ExclusionRange -ScopeID 10.0.0.0 -StartRange 10.0.0.1 -EndRange  
10.0.0.15
```

```
Set-DhcpServerV4OptionValue -OptionID 3 -Value 10.0.0.1 -ScopeID 10.0.0.0 -ComputerName  
DHCP1.test.com
```

```
Set-DhcpServerV4OptionValue -DnsDomain test.com -DnsServer 10.0.0.2
```

Get a List Of Scops

```
Get-DhcpServerV4Scope
```

How Client Receive IP From DHCP # (?)

```
Ipconfig / Release
```

```
Ipconfig /ReNew
```

```
Ipconfig \All
```

-DHCP FailOvering

Create an active-passive failover relationship

This example creates a hot standby, or active-passive, failover relationship between the DHCP server services that runs on the computers named `dhcpserver.contoso.com` and `dhcpserver2.contoso.com` with the scopes `10.10.10.0` and `10.20.20.0` present on the DHCP server service that runs on the computer named `dhcpserver.contoso.com` added to the failover relationship. These scopes will be created on the partner DHCP server service that runs on the computer named `dhcpserver2.contoso.com` as part of the failover relationship creation. The DHCP server service that runs on the computer named `dhcpserver.contoso.com` will be the standby DHCP server service and the DHCP server service that runs on the computer named `dhcpserver2.contoso.com` will be the active DHCP server service in the failover relationship.

```
Add-DhcpServerv4Failover -ComputerName "dhcpserver.contoso.com" -Name "SFO-SIN-Failover" -PartnerServer "dhcpserver2.contoso.com" -ServerRole Standby -ScopeId 10.10.10.0,10.20.20.0
```

create an active-active failover relationship with specified load balance amount

```
Add-DhcpServerv4Failover -ComputerName "dhcpserver.contoso.com" -Name "SFO-SIN-Failover" -PartnerServer "dhcpserver2.contoso.com" -ScopeId 10.10.10.0,10.20.20.0 -LoadBalancePercent 70 -MaxClientLeadTime 2:00:00 -AutoStateTransition $True -StateSwitchInterval 2:00:00
```

-ADDS

Install ADDS

install-windowsfeature AD-Domain-Services -IncludeAllFeature -IncludeManegmentTools

(Where Did We Found?:) `get-windowsfeature /more`

Import-Module ADDSDeployment

Promote Server as DC

Get-command install-ad*

Command	Description
Add-ADDSTestDomainControllerAccount	Install read only domain controller
Install-ADDSDomain	Install first domain controller in a child or tree domain
Install-ADDSDomainController	Install additional domain controller in domain
Install-ADDSTestForest	Install first domain controller in new forest
Test-ADDSDomainControllerInstallation	Verify prerequisites to install additional domain controller in domain
Test-ADDSDomainControllerUninstallation	Uninstall AD services from server
Test-ADDSDomainInstallation	Verify prerequisites to install first domain controller in a child or tree domain
Test-ADDSTestForestInstallation	Install first domain controller in new forest
Test-ADDSTestDomainControllerAccountCreation	Verify prerequisites to install read only domain controller
Uninstall-ADDSDomainController	Uninstall the domain controller from server

Config ADDS

Get -help `install-ADDSDomainController` (to see the Switches)

`Install-ADDSTestForest` -CreateDnsDelegation:\$false -DatabasePath "C:\Windows\NTDS"

-DomainMode "Win2019" -DomainName "test.com"

-DomainNetbiosName "TEST.COM" -ForestMode "Win2016" -InstallDns:\$true

-LogPath "C:\Windows\NTDS" -NoRebootOnCompletion:\$false

-SysvolPath "C:\Windows\SYSVOL" -Force:\$true

-RAID-5

Cmd

DiskPart

List Disk

(if any of the disk that you needs are offline, tune it to online by selecting it:)

Select Disk **3**

Online Disk

Attribite Disk Clear Readonly

Convert Dynamic

List Disk

List Volume

Select Volume **3**

Creat Volume Raide Disk= **3,4,5**

Assighn Letter=**V**

Exit

Format **V**: /q /FS:NTFS

Y

RAID-5

DiskPart

List Volume

-Creat & Share Folder

Creat Folder

```
New-Item -Path "C:\\" -Name "Temp" -ItemType Directory
```

Verify Existing

```
if (Test-Path -Path C:\Path\To\Folder) {  
    Write-Host "Folder already exists".  
}  
else {  
    Write-Host "Folder does not exist". }  
}
```

Sharing Folder

Powershell

```
New-SmbShare -Name NomDuPartage -Path "V:\WSC\" -FullAccess "Contoso\Administrator"
```

Verify Sharing

Get-SmbShare

Access the UNC path ([\\Server\Shared](#))

#Create an encrypted SMB share#

```
New-SmbShare -Name "Data" -Path "J:\Data" -EncryptData $True
```

#Create an SMB share with Multiple Permissions#

```
$Parameters=@ = {  
    Name = 'VMSFiles'  
    Path = 'C:\ClusterStorage\Volume1\VMFiles'  
    ChangeAccess = 'CONTOSO\Finance Users','CONTOSO\HR Users'  
    FullAccess = 'Administrators'  
}  
New-SmbShare @Parameters
```

-File Server

Create a hard limit quota

```
New-FsrmQuota -Path "C:\Shares" -Description "limit usage to 1 GB." -Size 1GB
```

#Change the size limit of a quota#

```
Set-FsrmQuota -Path "C:\Shares" -Description "limit usage to 1.5 GB" -Size 1.5GB
```

Create a quota based on a quota template

```
New-FsrmQuota -Path "C:\Shares" -Description "limit usage to 100 MB based on template." -Template "100 MB Limit"
```

#Change the size limit of all quotas that are derived from a quota template#

```
Set-FsrmQuotaTemplate "1GB limit" -Description "limit usage to 1.5 GB." -Size 1.5GB -UpdateDerived
```

Create a file group

This command creates a file group named "Non-HTML text files". The command indicates that files that end in txt or ml are included in the file group, and that files that end in .html are not included in the file group.

```
New-FsrmFileGroup -Name "Non-HTML text files" -IncludePattern @("*.txt", "*.ml") -ExcludePattern "*.html"
```

Create a file screen exception

```
New-FsrmFileScreenException -Path "C:\Share1-IncludeGroup" -IncludeGroup "Non-HTML text files"
```