Windows Advanced PS

Update help van PS

Update-Help

# Converteren van fat naar NTFS

Convert d: /fs:ntfs

# Aanmaken van map of bestand

New-Item -ItemType Directory -Path 'C:\' -Name 'Nieuwe map'

New-Item -ItemType File -Path 'C:\' -Name 'Nieuwe file'

# Permissies op bestand of file

$folder = 'C:\Nieuwe map'

$acl = Get-Acl $folder

$acl.SetOwner([System.Security.Principal.NTAccount] $env:USERNAME) #user die ingelogd is & script uitvoerd owner van de map mapken

$acl.SetAccessRuleProtection($true,$false) #true = protected, false = geen overerving

$ar = New-Object System.Security.AccessControl.FileSystemAccessRule("Jonas", "Fullcontrol", "Allow") #user, opties zie screenshot , allow of deny

$acl.SetAccessRule($ar)

$ar2 = New-Object System.Security.AccessControl.FileSystemAccessRule("Administrator", "Fullcontrol", "Allow")

$acl.AddAccessRule($ar2)

Set-Acl $folder $acl | Out-Null

Table

Description automatically generated

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# Map Delen

New-SmbShare -Name 'share' -Path 'C:\Nieuwe map' -FullAccess 'Administrators' `

-ChangeAccess 'Backup Operators' `

-ReadAccess Users `

-Description "Gedeelde Map"

# Netwerk delen

netsh advfirewall firewall set rule group="Network Discovery" new enable=Yes #aan

netsh advfirewall firewall set rule group="Network Discovery" new enable=No #uit

# koppelen aan een gedeelde map

net use z: “[\\SRV1\Gedeelde](file:///\\SRV1\Gedeelde) map” # een share toevoegen

net use \* /delete # verwijder al de gekoppelde shares

# Opzetten Active Directory (Nieuwe forest)

Zorg eerst voor een statisch IP adres!!

Install-WindowsFeature -Name AD-Domain-Services

$password = ConvertTo-SecureString "Pxl-2021" -AsPlainText -Force

Install-ADDSForest -CreateDnsDelegation:$false `

-DatabasePath 'C:\Windows\NTDS' `

-DomainMode WinThreshold `

-DomainName 'vermesen.local' `

-DomainNetbiosName 'VERMESEN' `

-ForestMode WinThreshold `

-InstallDns:$true `

-LogPath 'C:\Windows\NTDS' `

-NoRebootOnCompletion:$false `

-SafeModeAdministratorPassword $password `

-SysvolPath 'C:\Windows\SYSVOL' `

-Force:$true

Add-WindowsCapability -Online -Name Rsat.ActiveDirectory.DS-LDS.Tools~~~~0.0.1.0

# Wijzig functional level

Set-ADForestMode -Identity "VERMESEN.local" -ForestMode Windows2012Forest

Set-ADDomainMode -Identity "VERMESEN.local" -DomainMode Windows2012Domain

# Users toevoegen

New-ADUser `

-Name "Kevin Sapp" `

-GivenName "Kevin" `

-Surname "Sapp" `

-SamAccountName "kesapp-test" `

-AccountPassword (Read-Host -AsSecureString "Input User Password") `

-ChangePasswordAtLogon $True `

-Company "Code Duet" `

-Title "CEO" `

-State "California" `

-City "San Francisco" `

-Description "Test Account Creation" `

-EmployeeNumber "45" `

-Department "Engineering" `

-DisplayName "Kevin Sapp (Test)" `

-Country "us" `

-PostalCode "940001" `

-Enabled $True

Remove-ADUser kesapp-test

# Groepen

New-ADGroup "Group Name"

Remove-ADGroup -Identity "Group Name"

Add-AdGroupMember -Identity "Group Name" -Members B.Jackson #ADD Users

Remove-ADGroupMember -Identity "Group Name" -Members J.Robinson #Remove Users

# DNS

Reverselookup zone

Add-DnsServerPrimaryZone -NetworkId "192.168.112.0/24" -ReplicationScope Forest

Remove-DnsServerZone -Name "112.168.192.in-addr.arpa"

Add record in forward lookupzone

Add-DnsServerResourceRecordA -Name "Client01" -ZoneName vermesen.local -IPv4Address 192.168.112.140

Remove-DnsServerResourceRecord -ZoneName vermesen.local -Name "Client01" -RRType A

Testen van netwerk en resolv

Test-NetConnection -ComputerName google.be

Al de DNS records

Resolve-DnsName -Type ALL -Name google.be -Server 8.8.8.8

Forwarder instellen

Add-DnsServerForwarder -IPAddress 4.2.2.1 `-ComputerName hoofdserver1.pxl.local

Herstarten

restart-service -Name DNS

maken van nieuwe zone

Add-DnsServerPrimaryZone -Name 'testing.lan' `

-ComputerName 'hoofdserver1.pxl.local' `

-ReplicationScope 'Domain' `

-DynamicUpdate 'Secure' `

-PassThru

Maken van secondary zone

Add-DnsServerSecondaryZone -Name testing3.lan `

-ComputerName hoofdserver2.pxl.local `

-MasterServers 192.168.112.128 `

-ZoneFile 'testing3.lan.dns'

Zone transfer

Start-DnsServerZoneTransfer -ComputerName hoofdserver1.pxl.local `

-ZoneName testing3.lan `

-FullTransfer

Check of transfer is gelukt

Get-DnsServerZone -Name testing3.lan -ComputerName hoofdserver2.pxl.local

Convert zone to AD-integrated

Add-DnsServerPrimaryZone -Name 'testing4.lan' `

-ComputerName 'hoofdserver1.pxl.local' `

-ZoneFile 'testing4.lan.dns' `

-PassThru

ConvertTo-DnsServerPrimaryZone -ComputerName hoofdserver1.pxl.local `

-Name testing4.lan `

-ReplicationScope Domain `

-PassThru `

-Verbose `

-Force

Delete DNS ZONE

Remove-DnsServerZone -Name 'testing4.lan' -ComputerName hoofdserver1 -Verbose

# DHCP

Install-WindowsFeature -Name DHCP -IncludeManagementTools

Authorize

Add-DhcpServerInDC -IPAddress 192.168.112.128 -DnsName hoofdserver1.pxl.local

info

Get-DhcpServerv4Statistics -ComputerName hoofdserver1

Get-Service -ComputerName hoofdserver1 -Name DHCPServer

Scope toevoegen

Add-DhcpServerV4Scope -Name "DHCP Scope" -StartRange 192.168.112.150 -EndRange 192.168.112.200 -SubnetMask 255.255.255.0 -State Active

Set-DhcpServerV4OptionValue -DnsServer 192.168.112.138 -Router 192.168.112.2

Set-DhcpServerv4Scope -ScopeId 192.168.112.0 -LeaseDuration 1.00:00:00

Add-DhcpServerv4Reservation -ScopeId 192.168.112.0 -IPAddress 192.168.112.165 -ClientId "00-0C-29-3A-0F-95" -Description "Reservation for client"

Remove Scope

Remove-DhcpServerv4Scope -ScopeId 192.168.112.0 -Force