```
# Step 1: General Setup
function Set-PageFile {
 # RAM in System (MB)
    ## Size of D:\ (MB)
    $ram = (Get-ComputerInfo).CsPhyicallyInstalledMemory / 1KB ## Calculates the total server memory in MB
    $SAPPageFile = $ram * 1.5 ## Requirements for SAP is 1.5 of total server memory
    $diskSize = (Get-Volume -DriveLetter D).Size / 1MB
    if ($SAPPageFile -gt $diskSize) {
      Write-Host "Temporary Disk is less than calculated Page File size" -ForegroundColor Yellow
    }
    $Pagefile = Get-WmiObject Win32 PagefileSetting | Where-Object {$ .name -eq "D:\pagefile.sys"}
    $Pagefile.InitialSize = $SAPPageFile / 2
    $Pagefile.MaximumSize = $SAPPageFile
    $Pagefile.put()
Write-Host "Setting Page File..." -ForegroundColor Green
Set-PageFile
Write-Host "Setting timezone to Copenhagen timezone..." -ForegroundColor Green
Set-TimeZone -name "Romance Standard Time"
Write-Host "Allowing traffic through the Windows Firewall Domain Profile..." -ForegroundColor Green
Set-NetFirewallProfile -Name Domain -DefaultInboundAction Allow
Write-Host "Changing the DVD drive to B:\..." -ForegroundColor Green
$cd = $NULL
$cd = Get-WMIObject -Class Win32 CDROMDrive -ComputerName $env:COMPUTERNAME -ErrorAction Stop
if ($cd.Drive -eq "E:")
 Write-Output "Changing CD Drive letter from E: to B:"
 Set-WmiInstance -InputObject ( Get-WmiObject -Class Win32 volume -Filter "DriveLetter = 'E:'" ) -Arguments @{DriveLetter='B:'}
# Step 2: Network
# Rework this into getting the IP configuration from IMDS and assigning the IPs that way through.
$logicalIPs = '10.193.28.104'
$logicalHostNames = "sapqb3cs01", "sapqb3cs01.vestas.net"
#Get-ItemProperty -Path 'HKLM:\System\CurrentControlSet\Control\Lsa\MSV1_0' -Name "BackConnectionHostNames"
#$logicalHostNames = "sapqb3cs02", "sapqb3cs02.vestas.net"
#Set-ItemProperty -Path 'HKLM:\System\CurrentControlSet\Control\Lsa\MSV1 0' -Name "BackConnectionHostNames" -Value $logicalHostNames
\\$ \text{sinterface} = \text{Get-NetAdapter} \mid ?\\\\ \text{sume-match'Ethernet*'-and} \\\\ \text{sunterfaceDescription-match'Microsoft Hyper-V Network Adapter*'} \\
$PrimaryIP = (Get-NetIPAddress -InterfaceIndex $interface.ifIndex | ?{$_.AddressFamily -eq 'IPv4'}}.IPAddress
$defaultGateway = ((Get-NetIPConfiguration -InterfaceIndex $interface.ifIndex).IPv4DefaultGateway).nextHop
Set-NetIPInterface -InterfaceIndex $interface.ifIndex -Dhcp Disabled
if (($defaultGateway -eq '10.192.96.1') -or ($defaultGateway -eq '10.71.48.1') -or ($defaultGateway -eq '10.193.28.1')) {
New-NetIPAddress -InterfaceIndex $interface.ifIndex -AddressFamily IPv4 -IPAddress $PrimaryIP -PrefixLength 23 -DefaultGateway $defaultGateway
foreach ($IPs in $logicalIPs) {
New-NetIPAddress -InterfaceIndex $interface.ifIndex -AddressFamily IPv4 -IPAddress $IPs -PrefixLength 23 -SkipAsSource $true
New-NetIPAddress -InterfaceIndex $interface.ifIndex -AddressFamily IPv4 -IPAddress $PrimaryIP -PrefixLength 24 -DefaultGateway $defaultGateway
foreach ($IPs in $logicalIPs) {
New-NetIPAddress -InterfaceIndex $interface.ifIndex -AddressFamily IPv4 -IPAddress $IPs -PrefixLength 24 -SkipAsSource $true
```

} }

Set-DnsClientServerAddress -InterfaceIndex \$interface.ifIndex -ServerAddresses "10.0.10.80", "10.0.10.81" -PassThru

Configure IP addresses for Logical Host Names, those should always be set to SkipAsSource

Change the values here based on the number of Logical Host Names defined

New-ItemProperty -Path 'HKLM:\System\CurrentControlSet\Control\Lsa\MSV1_0' -Name "BackConnectionHostNames" -Value \$logicalHostNames -PropertyType MultiString New-ItemProperty -Path 'HKLM:\SYSTEM\CurrentControlSet\Services\lanmanserver\parameters' -Name "DisableStrictNameChecking" -Value "1" -PropertyType DWord

 $\#Computer\HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Control\Lsa\MSV1_0$


```
# Step 3
# Disk Config for SQL DB
# Get-PhysicalDisk -canPool $true | ft DeviceId, Size, PhysicalLocation -a
disk = @(
#disk1
[pscustomobject]@{
driveLetter = 'E';
storagePoolName = 'SQL_BIN';
driveName = 'SQL_BIN';
deviceID = '2';
sqlDisk = 'True'
#disk2
[pscustomobject]@{
driveLetter = 'G';
storagePoolName = 'MsSQLlog';
driveName = 'MsSQLlog';
deviceID = '5';
sqlDisk = 'True'
#disk3
[pscustomobject]@{
driveLetter = 'H';
storagePoolName = 'MsSQLtemp';
driveName = 'MsSQLtemp';
deviceID = '6';
sqlDisk = 'True'
}
foreach($d in $disk)
if ($d.sqlDisk -eq 'True'){
$disks = Get-PhysicalDisk -CanPool $true -DeviceNumber $d.deviceID
New-StoragePool -FriendlyName $d.storagePoolName -PhysicalDisks $disks -ResiliencySettingNameDefault Simple -
StorageSubSystemFriendlyName "Windows Storage*" -ProvisioningTypeDefault Fixed |
New-VirtualDisk -FriendlyName $d.storagePoolName -UseMaximumSize -ResiliencySettingName Simple |
Initialize-Disk -PartitionStyle GPT -PassThru |
New-Partition -DriveLetter $d.driveLetter -UseMaximumSize |
Format-Volume -NewFileSystemLabel $d.driveName -AllocationUnitSize 65536 -UseLargeFRS
else
$disks = Get-PhysicalDisk -CanPool $true -DeviceNumber $d.deviceID
New-StoragePool -FriendlyName $d.storagePoolName -PhysicalDisks $disks -ResiliencySettingNameDefault Simple -
StorageSubSystemFriendlyName "Windows Storage*" - ProvisioningTypeDefault Fixed |
New-VirtualDisk -FriendlyName $d.storagePoolName -UseMaximumSize -ResiliencySettingName Simple |
Initialize-Disk -PartitionStyle GPT -PassThru |
New-Partition -DriveLetter $d.driveLetter -UseMaximumSize |
Format-Volume -NewFileSystemLabel $d.driveName
}
#Disk config for disk pool
$storagePoolName = "MsSQLData"
$driveLetter = "F"
#Get-PhysicalDisk -CanPool $true | where{($_.DeviceId -eq '3') -or ($_.DeviceId -eq '4')}
$disks = Get-PhysicalDisk -CanPool $true | where{($_.DeviceId -eq '3') -or ($_.DeviceId -eq '4')}
New-StoragePool -FriendlyName $storagePoolName -PhysicalDisks $disks -ResiliencySettingNameDefault Simple -
StorageSubSystemFriendlyName "Windows Storage*" -ProvisioningTypeDefault Fixed |
```

```
New-Partition -DriveLetter $driveLetter -UseMaximumSize |
Format-Volume -NewFileSystemLabel $storagePoolName -AllocationUnitSize 65536 -UseLargeFRS
# Step 3
# Disk Config for app server
$VolumeName = "Local Disk E_Data"
$storagePoolName = "SAP Application"
$disks = Get-PhysicalDisk -CanPool $true
New-StoragePool -FriendlyName $storagePoolName -PhysicalDisks $disks -ResiliencySettingNameDefault Simple -StorageSubSystemFriendlyName "Windows Storage*" -
ProvisioningTypeDefault Fixed |
New-VirtualDisk -FriendlyName $storagePoolName -UseMaximumSize -ResiliencySettingName Simple |
Initialize-Disk -PartitionStyle GPT -PassThru |
New-Partition - DriveLetter E - UseMaximumSize |
Format-Volume -NewFileSystemLabel $VolumeName
---Check Disk Details
Get-PhysicalDisk -canPool $true | select DeviceId, @{n='LUN';e={$...PhysicalLocation.Split(":")
[4]}}, @{n='Size(Gb)';e={[int]($_.Size/1GB)}}
----Pang validate ng disk stripping
$virtualDisks = Get-VirtualDisk
foreach ($vDisk in $virtualDisks) {
  \scriptstyle number of Columns = \ vDisk.number of Columns
  $volumes = $vDisk | Get-Disk | Get-Partition | Get-Volume
  [PSCustomObject]@{
    FriendlyName = $volumes.FileSystemLabel
    DriveLetter = $volumes.DriveLetter
    StripingColumns = $numberofColumns
}
move-clustergroup "available storage" -node azsapqcs22 -wait 0
move-clustergroup "available storage" -node azsapqcs21 -wait 0
Tier1-SRV-ADM-azsapq
SAP QE1 GlobalAdmin; SAP SMD GlobalAdmin
Deploy IaC Build
  1. az login
  2. az account set --subscription "vestas-sap-ea-westeurope-prd-01"
  3. az deployment sub create --template-file C:\Users\RENZ\Documents\Vestas\SQL\Test\template.json --location
     "westeurope" --confirm
```

New-VirtualDisk -FriendlyName \$storagePoolName -UseMaximumSize -ResiliencySettingName Simple |

Initialize-Disk -PartitionStyle GPT -PassThru |