Joining Virtual Machine to Active Directory On First Boot Up

# Sign-in with Azure account credentials

Login-AzureRmAccount

# Select your Azure Subscription.

$subscriptionId =

(Get-AzureRmSubscription |

Out-GridView `

-Title "Select an Azure Subscription ..." `

-PassThru).SubscriptionId

Select-AzureRmSubscription `

-SubscriptionId $subscriptionId

## Global Variables

$ResourceGroupName = "firstjoin"

$location = "Southeastasia"

# Storage

$storageName = "firstjoinstg"

# Network

$nicname = "firstjoinnic"

#$subnetName ="firstjoinsubnet"

#$vnetName = "firstjoinvnet"

#$vnetAddressPrefix = "10.0.0.0/24"

$vnetSubnetAddressPrefix = "10.1.0.0/27"

$publicIPName = "firstjoinpip"

$allocationmethod='static' #dynamic

$DomainNameLabel='firstjoinarg'

## Compute

$vmName = "firstjoinvm"

$computerName = "firstjoincomp"

$vmSize = "Standard\_DS1\_V2"

$osDiskName = $vmName + "osDisk"

$osdiskuriname='firstaosdisk.vhd'

$blobPath = "vhds/srcosDisk.vhd"

#credentials

$adminUsername = 'G7CRAdmin'

$adminPassword = '2Nuts&4Bolts'

########################################

#SOURCE STORAGE ACCOUNT VARIABLES

$SourceRGName='Len\_Test'

$srcUri = "https://shareacc.blob.core.windows.net/system/Microsoft.Compute/Images/testingvmcnt/NewImg-osDisk.7f4be8cb-8de1-430b-8743-1cb426e5ab18.vhd"

$srcStorageAccount = "shareacc"

########################################

#DESTINATION STORAGE ACCOUNT VARIABLES (information of newly created storage account)

$destRGName = $ResourceGroupName

#Destination storage account name

$destStorageAccount = $storageName

#Destination container name

$containerName = "firstjoincnt"

#Destinationblobname

$DestBlob = "firstjoin.vhd"

########################################################

#Create New Resource Group

New-AzureRmResourceGroup -Name $ResourceGroupName -Location $location

#Create New Storage

$storageAcc = New-AzureRmStorageAccount -ResourceGroupName $ResourceGroupName -Name $storageName -SkuName "Standard\_LRS" -Kind "Storage" -Location $location

### Source Storage Account Key ###

$srcStorageKey = (Get-AzureRmStorageAccountkey -ResourceGroupName $SourceRGName -Name $srcStorageAccount).Value[0]

### Target Storage Account key###

$destStorageKey = (Get-AzureRmStorageAccountkey -ResourceGroupName $destRGName -Name $destStorageAccount).Value[0]

### Create the source storage account context ###

$srcContext = New-AzureStorageContext -StorageAccountName $srcStorageAccount `

-StorageAccountKey $srcStorageKey

### Create the destination storage account context ###

$destContext = New-AzureStorageContext -StorageAccountName $destStorageAccount `

-StorageAccountKey $destStorageKey

### Create the container on the destination ###

New-AzureStorageContainer -Name $containerName -Context $destContext

### Start the asynchronous copy - specify the source authentication with -SrcContext ###

$blob1 = Start-AzureStorageBlobCopy -srcUri $srcUri `

-SrcContext $srcContext `

-DestContainer $containerName `

-DestBlob $DestBlob `

-DestContext $destContext

### Retrieve the current status of the blob copy operation ###

$status = $blob1 | Get-AzureStorageBlobCopyState

### Print out status ###

$status

### Loop until complete ###

While($status.Status -eq "Pending"){

$status = $blob1 | Get-AzureStorageBlobCopyState

Start-Sleep 10

### Print out status ###

$status

}

########################################################

$nsg =Get-AzureRmNetworkSecurityGroup -ResourceGroupName 'Len\_Test' -Name 'Lentest-nsg'

#Create a virtual network

$vnet = get-AzureRmVirtualNetwork -Name 'Len\_Test-vnet' -ResourceGroupName 'Len\_Test'

$vnet= Set-AzureRmVirtualNetworkSubnetConfig -VirtualNetwork $vnet -Name 'default' -AddressPrefix $vnetSubnetAddressPrefix -NetworkSecurityGroup $NSG

#Save the new VNet settings to Azure.srcsubnet

Set-AzureRmVirtualNetwork -VirtualNetwork $vnet

#Create a public IP address and network interface

$pip = New-AzureRmPublicIpAddress -Name $publicIPName -ResourceGroupName $ResourceGroupName -Location $location -AllocationMethod $allocationmethod -DomainNameLabel $DomainNameLabel

$nic =

New-AzureRmNetworkInterface -Name $nicname -ResourceGroupName $ResourceGroupName -Location $location -SubnetId $vnet.Subnets[0].Id -PublicIpAddressId $pip.Id

$nic = Get-AzureRmNetworkInterface -ResourceGroupName $ResourceGroupName -Name $nicname

$nic.NetworkSecurityGroup = $nsg

$nic.DnsSettings.DnsServers = "172.16.6.4","8.8.8.8"

Set-AzureRmNetworkInterface -NetworkInterface $nic

########################################################

#Create a virtual machine

#The password must be at 12-123 characters long and have at least one lower case character, one upper case character, one number, and one special character.

$cred = New-Object PSCredential $adminUsername, ($adminPassword | ConvertTo-SecureString -AsPlainText -Force)

$vm = New-AzureRmVMConfig -VMName $vmName -VMSize $vmSize

$vm = Set-AzureRmVMOperatingSystem -VM $vm -Windows -ComputerName $computerName -Credential $cred -ProvisionVMAgent -EnableAutoUpdate

$vm = Add-AzureRmVMNetworkInterface -VM $vm -Id $nic.Id

#Create New Os Disk uri

$osDiskUri = "https://$destStorageAccount.blob.core.windows.net/$containerName/$osdiskuriname"

#Image URI you can Find Storage group --> Blob --> System -->Microsoft.Compute -->Images --> your container Name --> vhd name given while capture VM.

$imageUri = "https://$destStorageAccount.blob.core.windows.net/$containerName/$DestBlob"

$vm = Set-AzureRmVMOSDisk -VM $vm -Name $osDiskName -VhdUri $osDiskUri -CreateOption FromImage -SourceImageUri $imageUri -Caching ReadWrite -Windows

#running below command you can see your VM attached parameters.

$vm

#Create the new VM

New-AzureRmVM -ResourceGroupName $ResourceGroupName -Location $location -VM $vm

#Wait time which is 10seconds

Start-Sleep -s 10

#Adding an VMAccess agent with below credentials

$userName = "g7admin"

$pwd = "P@ssw0rd@123"

$SettingsString = '{"UserName":"' + $userName + '"}';

$ProtectedSettingsString = '{"Password":"' + $pwd + '"}';

Set-AzureRmVMExtension -Location $location -ResourceGroup $ResourceGroupName -VM $vmName -ExtensionType "VMAccessAgent" -ExtensionName "VMAccess" -Publisher "Microsoft.Compute" -Version "2.0" -SettingString $SettingsString -ProtectedSettingString $ProtectedSettingsString

#Wait time which is 10seconds

Start-Sleep -s 10

# Join VM to domain

$Extensionname="JoinAD"

$Domainname='HELLO.com'

#Domain Login credentials

$Domainloginname='Hello\g7cradmin'

$Domainloginpwd='2Nuts&4Bolts'

Set-AzureRmVMExtension -ResourceGroupName $ResourceGroupName -VMName $vmName -Name $Extensionname -Publisher "Microsoft.Compute" -ExtensionType "JsonADDomainExtension" -TypeHandlerVersion "1.0" -Location $location -Settings @{ "Name" = $Domainname;"User" = $Domainloginname; "Restart" = "true"; "Options" = 3} -ProtectedSettings @{"Password" = $Domainloginpwd}