# newTag.ps1

#Important!!!

#You must run this script once or you'll gonna open 2 connection to VIServer.

#You can select and run only part of this script as weel, skipping connection parameters, once it's already connected to VIServer.

#region Global Variables

$rootFolder = "<pathToCSVFile\>"

$vcenterAddr = "<VcenterAddress>"

$userName = "administrator@vsphere.local"

$password = 'SB01#srv@1'

$csvInfo = $rootFolder + "<file.csv>"

#endregion

#region connection parameters

Connect-VIServer -Server $vcenterAddr -Protocol https -User $userName -Password $password

$CMDBInfo = Import-CSV $csvInfo

#endregion

#region search vm and creates a category if doesn't exist

ForEach ($item in $CMDBInfo)

{

$Name = $item.Name

$Category = $item.Category

$Tag = $item.Tag

Try

{

$GetVMTagCat = Get-TagCategory -Name $Category -ErrorAction Stop

Write-Host "TagCategory $GetVMTagCat found"

}

Catch

{

Write-Host "TagCategory you entered not found, adding $Category as a Category"

New-TagCategory -Name $Category

Write-Host "Now, let's add a new Tag under TagCategory:" $Category

New-Tag -Name $Tag -Category $Category

}

}

#endregion

#region creating a tag if not or replacing tag for a new one

ForEach ($item in $CMDBInfo)

{

$Name = $item.Name

$Category = $item.Category

$Tag = $item.Tag

Try

{

$GetVMTag = Get-Tag -Name $Tag -ErrorAction Stop

Write-Host "Tag $GetVMTag found"

}

Catch

{

Write-Host "Tag not found, adding as a NewTag"

#New-TagCategory -Name $Category

Write-Host "Now, let's add a new Tag under TagCategory:" $Category

New-Tag -Name $Tag -Category $Category

}

Write-Host ".... Assigning $Tag in Category $Category to $Name "

$vm = Get-VM -Name $Name

Get-TagAssignment -Entity $vm | where{$\_.Tag.Category.Name -eq "$Category"} | Remove-TagAssignment -Confirm:$false

New-TagAssignment -Entity $vm -Tag $Tag

}

#endregion