Tags updation through powerhshell:

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# 1.Update Tag for single VM Using Power Shell:

Step1: Sign in to your Azure account.

Connect-AzAccount

Step2: Define the resource group name.

$resourceGroupName = "test"

Step 3: Define the VM name you want to update the tag for

$vmName = "YourVMName"

Step4: Define the tag key you want to update.

$tagKey = "Dept"

Step5: Define the new tag value.

$newTagValue = "Operations"

Step6: Get the specified VM in the resource group.

$vm = Get-AzVM -ResourceGroupName $resourceGroupName -Name $vmName

Step7: Update Tag for VM.

if ($vm.Tags.ContainsKey($tagKey)) {

# Update the value of the tag with the new value

$vm.Tags[$tagKey] = $newTagValue

# Update the VM with the modified tags

Update-AzVM -ResourceGroupName $resourceGroupName -VM $vm

} else {

Write-Output "The specified tag key '$tagKey' doesn't exist for the VM."

}

# 2.Update Tag for Multiple VMs Using Power Shell:

Step1: Sign in to your Azure account.

Connect-AzAccount

Step2: Define the resource group name.

$resourceGroupName = "test"

Step3: Define the list of VM names or resource IDs.

$vmNames = @(  
    "abc1”,  
    "abc2"  
)

Step4: Define Tag key you want to update:

$tagKey = "Dept"

Step5: Define the new tag value.

$newTagValue = "ITSG"

Step6: Update Tag for VM.

foreach ($vmName in $vmNames) {  
    # Get the VM by name  
    $vm = Get-AzVM -ResourceGroupName $resourceGroupName -Name $vmName

    if ($vm.Tags.ContainsKey($tagKey)) {  
        # Update the value of the tag with the new value  
        $vm.Tags[$tagKey] = $newTagValue  
  
        # Update the VM with the modified tags  
        Update-AzVM -ResourceGroupName $resourceGroupName -VM $vm  
    }  
    else {  
        Write-Host "VM '$vmName' does not have a tag with key '$tagKey'."  
    }  
}

# 3.Update multi-Tags for Multiple VMs Using Power Shell:

Step1: Sign in to your Azure account.

Connect-AzAccount

Step2: Define the resource group name.

$resourceGroupName = "test"

Step3: Define the list of VM names or resource IDs.

$vmNames = @(  
    "abc1",  
    "abc2"  
    # Add more VM names or resource IDs as needed  
)

Step4: Define the new tags (tag key-value pairs)

$newTags = @{

"Dept" = "Marketing"

"Environment" = "Production"

# Add more tag key-value pairs as needed

}

Step5: Update Tags.

foreach ($vmName in $vmNames) {

# Get the VM by name

$vm = Get-AzVM -ResourceGroupName $resourceGroupName -Name $vmName

# Check if the VM exists

if ($vm) {

# Loop through each tag key-value pair in $newTags

foreach ($tagKey in $newTags.Keys) {

# Update the value of the tag with the new value

$vm.Tags[$tagKey] = $newTags[$tagKey]

}

# Update the VM with the modified tags

Update-AzVM -ResourceGroupName $resourceGroupName -VM $vm

}

else {

Write-Host "VM '$vmName' not found in resource group '$resourceGroupName'."

}

}

# 4.Update multi-Tags for Multiple VMs,NICs and Disks Using Power Shell:

Step1: Sign in to your Azure account.

Connect-AzAccount

Step2: Define the resource group name.

$resourceGroupName = "test"

Step3: Define the list of VM names or resource IDs.

$vmNames = @(  
    "abc1",  
    "abc2"  
    # Add more VM names or resource IDs as needed  
)

Step4: Define the list of Disks associated with VMs.

$disks = @(

"abc2\_OsDisk\_1\_bbd72be77ecb4772a8f43ba230c73740",

"abc1\_OsDisk\_1\_0cce6036495b4ced86cc0d26f2e28da0"

# Add more disk IDs as needed

)

Step5: Define the list of NICs associated with VMs.

$interfaceNames = @("abc1523\_z1", "abc2764\_z1")

Step4: Define the new tags (tag key-value pairs)

$newTags = @{

"Dept" = "Operations"

"Environment" = "Dev"

# Add more tag key-value pairs as needed

}

Step5: Update Tags.

foreach ($vmName in $vmNames) {

$vm = Get-AzVM -ResourceGroupName $resourceGroupName -Name $vmName -ErrorAction SilentlyContinue

if ($vm) {

$existingTags = $vm.Tags

foreach ($key in $newTags.Keys) {

$existingTags[$key] = $newTags[$key]

}

Set-AzResource -ResourceId $vm.Id -Tag $existingTags -Force

Write-Output "Tags updated for VM '$vmName'."

} else {

Write-Output "VM '$vmName' not found."

}

}

foreach ($interfaceName in $interfaceNames) {

$interface = Get-AzNetworkInterface -Name $interfaceName -ResourceGroupName $resourceGroupName -ErrorAction SilentlyContinue

if ($interface) {

$resourceId = $interface.Id

$existingTags = Get-AzResource -ResourceId $resourceId -ExpandProperties | Select-Object -ExpandProperty Tags

foreach ($key in $newTags.Keys) {

$existingTags[$key] = $newTags[$key]

}

Set-AzResource -ResourceId $resourceId -Tag $existingTags -Force

Write-Output "Tags updated for network interface '$interfaceName'."

} else {

Write-Output "Network interface '$interfaceName' not found."

}

}

foreach ($diskName in $disks) {

$disk = Get-AzDisk -ResourceGroupName $resourceGroupName -Name $diskName -ErrorAction SilentlyContinue

if ($disk) {

$existingTags = $disk.Tags

foreach ($key in $newTags.Keys) {

$existingTags[$key] = $newTags[$key]

}

Set-AzResource -ResourceId $disk.Id -Tag $existingTags -Force

Write-Output "Tags updated for disk '$diskName'."

} else {

Write-Output "Disk '$diskName' not found."

}

}