```powershell
## Disabling_Enabling_VAAI_on_vSphere.ps1
## build 1.00
## Eric Krejci
## ekrejci.wordpress.com
## Twitter - @ekrejci
## on error stop the script
$erroractionpreference = "Stop"
$Username = "DOMAIN\USERNAME"
$Password = read-host "Enter Password" -assecurestring

### declare your vcenter

$vCenterserver = "vcenter.fqdn"

### connect to the vCenter
Connect-VIServer -Server $vCenterserver -user $Username -Password
([Runtime.InteropServices.Marshal]::PtrToStringAuto([Runtime.InteropService
s.Marshal]::SecureStringToBSTR($password)))


## here set 1 to activate or 0 to deactivate
$ActiveValue = 0

## in this example we just set 1 ESX but you can simply specify a whole
group by using for example: get-vmhost -location (get-vmcluster
%clustername%)
$ESXs = "vSphere.fqdn"

foreach ($ESX in $ESXs) {

$ESXHost = Get-VMHost -Name $ESX
$ESXHostView = Get-View -Id $ESXHost.id

## we check if the host is in maintenance mode to avoid any risks when
performing the actions. if you don't want to set the maintenance mode, the
script ends.

if ($ESXHostView.Runtime.InMaintenanceMode -eq "True") {
  $ESXHostView.Name + " is already in maintenance mode"
  }
else {
if ("Y" -eq ((Read-Host "Your ESX is not in maintenance! Do you want to set
now? Enter Y or N").ToUpper())) {

   Set-VMHost -VMHost $ESXHost -State Maintenance

  } else {

  "exit"
  exit

  }

}

## get the advanced options for the current host
$optMgr = Get-View -Id $ESXHostView.ConfigManager.AdvancedOption

## Block Zero
$tgtkey = "DataMover.HardwareAcceleratedInit"
$optMgr = Get-View -Id $ESXHostView.ConfigManager.AdvancedOption
```

```powershell
$optarr = @()
$option = New-Object VMware.Vim.OptionValue
$option.key = $tgtkey
$option.value = [Int64]$ActiveValue
$optarr += $option
$optMgr.UpdateOptions($optarr)

## Full Copy
$tgtkey = "DataMover.HardwareAcceleratedMove"
$optarr = @()
$option = New-Object VMware.Vim.OptionValue
$option.key = $tgtkey
$option.value = [Int64]$ActiveValue
$optarr += $option
$optMgr.UpdateOptions($optarr)

## Hardware Assisted Locking
$tgtkey = "VMFS3.HardwareAcceleratedLocking"
$optarr = @()
$option = New-Object VMware.Vim.OptionValue
$option.key = $tgtkey
$option.value = [Int64]$ActiveValue
$optarr += $option
$optMgr.UpdateOptions($optarr)

## I strongly recommended to reboot after having enabled/disabled to VAAI
if ("Y" -eq ((Read-Host "Do you want to restart the ESX Server? Enter Y or
N").ToUpper())) {
  "Rebooting the ESX Server"

   $ESXHostView.RebootHost($false)

   "End of configure ESX server " + $ESX

  }
}

"Finish"

Disconnect-VIServer -Server $vCenterserver -Confirm:$false
```