```powershell
## Qla2xxx_option_vmware_KB_2014323.ps1
## options dedicated to Qlogic CNAs and vSphere 5 issue -> VMware kb:
http://kb.vmware.com/kb/2014323
## 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"

### declare the name of the target DataCenter

$TargetDCName = "DC-NAME"

### declare the name of the target Cluster

$TargetClusterName = "Cluster-Name"

### create an empty array to store the modified hosts

$AppliedESXs = @()

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


## retrieve the vSphere in the target cluster with powerstate -> PoweredOn
AND vSphere version equal or larger to 5

$TargetESXs = get-vmhost -Location (Get-Cluster -Name $TargetClusterName -
Location (Get-Datacenter -Name $TargetDCName )) | where {($_.powerstate -eq
"PoweredOn") -and ($_.Version -ge "5")}


foreach ($TargetESX in $TargetESXs ) {

$TargetESX.name

## 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 ($TargetESX.ConnectionState -eq "Maintenance") {
  $TargetESX.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 $TargetESX -State Maintenance

      } else {

      "exit"
```

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        exit

        }
  }

## uncomment the following to print the name, driver and model of the
current vSphere's VMHBAs

#Get-VMHostHba -VMHost $TargetESX |  %{"Name: " + $_.name + "; driver: " +
$_.driver + "; Model: " +$_.model}

## retreive every VMHBA of the server with model "*10 GbE FCoE to PCI
Express CNA*" and using the driver "qla2xxx"

$TargetESXHBAs = Get-VMHostHba -VMHost $TargetESX |  where {($_.driver -eq
"qla2xxx") -and ($_.model -like "*10 GbE FCoE to PCI Express CNA*") }

## if we have corresponding Qlogic CNAs then we apply the option described
in the VMware KB.

    if ($TargetESXHBAs -ne $null ) {

        ## getting the module "qla2xxx" from the current vSphere

        $qla2xxx = Get-VMHostModule -VMHost $TargetESX -Name "qla2xxx"

        ## setting the module "qla2xxx" with the good option

        $qla2xxx | Set-VMHostModule -Options "ql2xenablemsix=0"

        $AppliedESXs += $TargetESX

    }

}

## you must reboot to have the setting applied. if you don't want to do it
now, don't forget to reboot the hosts later.


if ("Y" -eq ((Read-Host "Do you want to restart the ESX Servers? Enter Y or
N").ToUpper())) {
  "Rebooting the ESX Server"


foreach ($AppliedESX in $AppliedESXs ) {

$AppliedESXView = Get-View -Id $AppliedESX.id

   $AppliedESXView.RebootHost($false)

   "End of configure ESX server " + $AppliedESX

   }
 }

"Finished"

Disconnect-VIServer -Confirm:$false
```