

```

1  function Set-VMPowerState {
2      [CmdletBinding()]
3      Param(
4          [Parameter(Mandatory = $True)]
5          [ValidateNotNullOrEmpty()]
6          [string]$vCenter
7      ,
8          [Parameter(Mandatory = $True)]
9          [ValidateNotNullOrEmpty()]
10         [string]$VMName
11     ,
12         [Parameter(Mandatory = $True)]
13         [ValidateNotNullOrEmpty()]
14         [ValidateSet('PowerOn','PowerOff','Restart','KILL')]
15         [string]$PowerState
16     )
17
18     Begin {
19         Write-Log -LogString "Start : $((Get-PSCallStack)[0].Command)" -LogLevel Output
20         -LogObject $VMDeployLogObject -ForegroundColor DarkGray
21     }
22
23     Process {
24         ### Get Current PowerState
25         ###-----
26         $CurrentPowerState = (Get-VM -Name $VMName).PowerState
27         if($DeveloperMode){
28             Write-Host "Current Power State : " $CurrentPowerState -ForegroundColor Cyan
29         }
30         ### Set VM Power State
31         ###-----
32         Write-Host "Setting PowerState : " $PowerState -ForegroundColor Cyan
33         Switch ($PowerState) {
34             PowerOn {
35                 if($CurrentPowerState -ne "PoweredOn") {
36                     try {
37                         VMware.VimAutomation.Core\Start-VM -VM $VMName -Server $vCenter
38                         -Confirm:$false | Out-Null
39                         Start-Sleep -Seconds 30
40                     }
41                     catch {
42                         $ErrMsg = "ERROR: " + $((Get-PSCallStack)[0].Command) + "`n`r"
43                         + $global:Error[0].Exception.Message
44                         Write-Log -LogString $ErrMsg -LogLevel Warning -LogObject
45                         $VMDeployLogObject
46                     }
47                 }
48             }
49             else {
50                 $ErrMsg = "VM $VMName is already $CurrentPowerState"
51                 Write-Log -LogString $ErrMsg -LogLevel Warning -LogObject
52                 $VMDeployLogObject
53             }
54         }
55
56         PowerOff {
57             if($CurrentPowerState -ne "PoweredOff") {
58                 try {
59                     VMware.VimAutomation.Core\Stop-VM -VM $VMName -Server $vCenter
60                     -Confirm:$false | Out-Null
61                     Start-Sleep -Seconds 30
62                 }
63                 catch {
64                     $ErrMsg = "ERROR: " + $((Get-PSCallStack)[0].Command) + "`n`r"
65                     + $global:Error[0].Exception.Message
66                     Write-Log -LogString $ErrMsg -LogLevel Warning -LogObject
67                     $VMDeployLogObject
68                 }
69             }
70             else {
71                 $ErrMsg = "VM $VMName is already $CurrentPowerState"
72                 Write-Log -LogString $ErrMsg -LogLevel Warning -LogObject
73             }
74         }
75     }
76 }

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62         $VMDeployLogObject
63     }
64     Restart {
65         if($CurrentPowerState -ne "PoweredOff") {
66             try {
67                 VMware.VimAutomation.Core\Restart-VM -VM $VMName -Server
68                 $vCenter -Confirm:$false | Out-Null
69                 Start-Sleep -Seconds 60
70             }
71             catch {
72                 $ErrMsg = "ERROR: " + $((Get-PSCallStack)[0].Command) + "`n`r"
73                 + $global:Error[0].Exception.Message
74                 Write-Log -LogString $ErrMsg -LogLevel Warning -LogObject
75                 $VMDeployLogObject
76             }
77         }
78         else {
79             $ErrMsg = "VM $VMName is already $CurrentPowerState"
80             Write-Log -LogString $ErrMsg -LogLevel Warning -LogObject
81             $VMDeployLogObject
82         }
83     }
84     KILL {
85         if($CurrentPowerState -ne "PoweredOff") {
86             try {
87                 VMware.VimAutomation.Core\Stop-VM -VM $VMName -Server $vCenter
88                 -Confirm:$false -KILL | Out-Null
89                 Start-Sleep -Seconds 30
90             }
91             catch {
92                 $ErrMsg = "ERROR: " + $((Get-PSCallStack)[0].Command) + "`n`r"
93                 + $global:Error[0].Exception.Message
94                 Write-Log -LogString $ErrMsg -LogLevel Warning -LogObject
95                 $VMDeployLogObject
96             }
97         }
98         else {
99             $ErrMsg = "VM $VMName is already $CurrentPowerState"
100             Write-Log -LogString $ErrMsg -LogLevel Warning -LogObject
101             $VMDeployLogObject
102         }
103     }
104 }
105 ### Get New PowerState
106 ###-----
107 $NewPowerState = (Get-VM -Name $VMName).PowerState
108 if($DeveloperMode){
109     Write-Host "New Power State      : " $NewPowerState -ForegroundColor Cyan
110 }
111 End {
112     if($DeveloperMode){Write-Log -LogString "End      :
113     $((Get-PSCallStack)[0].Command)" -LogLevel Output -LogObject $VMDeployLogObject
114     -ForegroundColor DarkGray}
115 }
116 }

```