

# PowerShell Breaking Changes

## Technical Note

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#1 Load Balancer in Price/Performance, 360 Central, 360 Vision, Chef, Chef (and design), Chef Habitat, Chef Infra, Code Can (and design), Compliance at Velocity, Corticon, Corticon.js, DataDirect (and design), DataDirect Cloud, DataDirect Connect, DataDirect Connect64, DataDirect XML Converters, DataDirect XQuery, DataRPM, Defrag This, Deliver More Than Expected, DevReach (and design), Driving Network Visibility, Flowmon, Inspec, Ipswitch, iMacros, K (stylized), Kemp, Kemp (and design), Kendo UI, Kinvey, LoadMaster, MessageWay, MOVEit, NativeChat, OpenEdge, Powered by Chef, Powered by Progress, Progress, Progress Software Developers Network, SequeLink, Sitefinity (and Design), Sitefinity, Sitefinity (and design), Sitefinity Insight, SpeedScript, Stylized Design (Arrow/3D Box logo), Stylized Design (C Chef logo), Stylized Design of Samurai, TeamPulse, Telerik, Telerik (and design), Test Studio, WebSpeed, WhatsConfigured, WhatsConnected, WhatsUp, and WS_FTP are registered trademarks of Progress Software Corporation or one of its affiliates or subsidiaries in the U.S. and/or other countries.

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# 1 Introduction

In version v7.2.39.0.334 of the Kemp PowerShell module, a number of improvements were made. This included:

- Improving the output of the commands
- Renaming a number of commands to ensure the naming convention adheres to Microsoft guidelines. Refer to the following Microsoft page for further information on the guidelines: https://msdn.microsoft.com/en-us/library/ms714657(v=vs.85).aspx
- Improvements to parameter values, such as changing some parameter value inputs from integer to string to better match the values in the LoadMaster Web User Interface (WUI)

As a result of these changes, the new version of the PowerShell module is not backwards compatible and scripts written for a version before v7.2.39.0.344 may not function correctly.

To check what version of the Kemp PowerShell module you are using, run the following command:

```
Get-Module Kemp.LoadBalancer.Powershell
```

## 1.1 Document Purpose

This document outlines some of the major changes made to the PowerShell module. Being aware of these changes can help if you need to update any scripts written for older Kemp PowerShell modules.

For further details on the Kemp PowerShell module, refer to the **PowerShell Interface Description** document on the Kemp documentation page.

## 1.2 Intended Audience

This document is intended to assist any users who may have written scripts for an older version of the Kemp PowerShell module and now need to update these scripts to reflect a newer module version.


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# 2 Object Structure

Before version 7.2.39.0.334 of the Kemp PowerShell wrapper, the output format did not have a defined standard - each commandlet had variable structure and output.

In the 7.2.39.0.344 version of the wrapper, improvements were made to the output structure. All commands (except **Test-LmServerConnection**) return a PowerShell object with the following structure:

> The **Test-LmServerConnection** command returns **True** if the LoadMaster is reachable by the API, **False** if not (or if the API interface is disabled on the LoadMaster).

- ReturnCode (integer)
- Response (string)
- Data (PowerShell object, if any)

> As a result of the new object structure, the current Kemp PowerShell wrapper is not compatible with scripts written based on an older version of the Kemp PowerShell wrapper (before version 7.2.39.0.344).

The possible values for the ReturnCode field are:

- 200: The command completed successfully
- 4xx/500: The command ended with an error. The error code depends on the error type.

The possible values for the Response field are:

- Command successfully executed
- Description of the error when the command fails, for example **Unknown parameter value lmversion**.

The Data field contains the response, if any. The structure of this field depends on the command. The elements of this field can be accessed using the “dot” notation. If the command fails, this field is empty.

Example 1: Retreive the installed LoadMaster firmware version:


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```
$lma = Get-LmParameter -Param version -LoadBalancer 172.21.59.189 -SubjectCN
user1
$lma | Format-List
ReturnCode : 200
Response   : Command successfully executed.
Data       : @{version=7.2.39.0}

$lma.Data.version
7.2.39.0
```

Example 2: Retreive the available licenses for a specific Order ID:

```
$licDet = Get-LicenseType -KempId jbloggs@kemptechnologies.com -Password
ExamplePassword -LoadBalancer 172.21.59.85 -Credential bal -OrderId
Example20170517
$licDet | Format-List
ReturnCode : 200
Response   : Command successfully executed.
Data       : @{License=System.Object[]}

$licDet.Data.License
id            : 0632b88b577c71591798268bcd4e01132f082309
name          : VLM-5000 ESP GEO with Basic 2 Years
available     : 1
description   : VLM-5000 ESP GEO with Basic 2 Years
tethered      : False
LicenseStatus : Permanent License
BuyMoreAt     : https://www.kemptechnologies.com/buy-me-now?KempID=
jbloggs@kemptechnologies.com
id            : fc488d991cffb7a5958625427d6bfb0b3edc008e
name          : VLM-5000 WAF GEO with Basic 3 Years
available     : 1
description   : VLM-5000 WAF GEO with Basic 3 Years
tethered      : False
LicenseStatus : Permanent License
BuyMoreAt     : https://www.kemptechnologies.com/buy-me-now?KempID=
jbloggs@kemptechnologies.com
name          : VLM-5000 with Enterprise Plus subscription
available     : 1
tethered      : 0
```


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```
id            : 3eb92178611573946b422cf8d0df69d04c07fede
LicenseStatus : Temp License
description   : VLM-5000 with Enterprise Plus subscription
BuyMoreAt     : https://www.kemptechnologies.com/buy-me-now?KempID=
jbloggs@kemptechnologies.com
```

In the above example, the **$licDet.Data.License** is an array and each single element of the array can be accessed using the "[]" notation. For example, to access the field name of the second element of the previous array we have to use the following notation: **$licDet.Data.License[1].name**. The index of the array starts from 0. The NULL object is returned if we try to access a non-existing element.

The benefits of the structure of the command answers are:

- It is easy to check for success/error (ReturnCode)
- There is a short description (Response)
- The Data field returns a PowerShell object when successful and null when there is an error

## 2.1 Errors

If the error is a functional one (for example using the wrong credentials, parameter value or LoadMaster IP address) the cmdlet returns a PowerShell object, as described, with a ReturnCode containing the code of the error and with Response containing the description of the error that has occurred.

For example: Try to get the firmware version installed on the LoadMaster using an invalid certificate (installed in the Windows machine but not belonging to any user inside the LoadMaster):

```
$lma = Get-LmParameter -Param version -LoadBalancer 172.21.59.85 -SubjectCN
user1
$lma

ReturnCode Response                                                  Data
---------- --------                                                  ----
       401 The remote server returned an error: (401) Unauthorized.
```

If the error is due to a wrong/missing mandatory input, the cmdlet throws an exception. These types of errors do not return a ReturnCode because an exception has been thrown. The execution of the command is halted.

For example: Get the firmware version installed on the LoadMaster using a certificate not installed in the Windows machine:

```
$lma = Get-LmParameter -Param version -LoadBalancer 172.21.59.189 `
                                                    -SubjectCN
invalidcertificate
```


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```
ERROR: Can't find a certificate with "invalidcertificate" as CN in the default
Cert:\CurrentUser\My store.

At
C:\Users\ExampleUser\Work\Kemp.LoadBalancer.Powershell\Kemp.LoadBalancer.Powershell.psm1:
273 char:5

+                 Throw $errStr

+                 ~~~~~~~~~~~~~

    + CategoryInfo          : OperationStopped: (ERROR: Can't fi...tUser\My
store.:String) [], RuntimeException

    + FullyQualifiedErrorId : ERROR: Can't find a certificate with "invalidcertificate"
as CN in the default Cert:\CurrentUser\My store.
```

For example: Get the firmware version installed on the LoadMaster without credentials/certificate:

```
$lma = Get-LmParameter -Param version -LoadBalancer 172.21.59.189

ERROR: login method param is empty. Credentials or SubjectCN must be specified.

At
C:\Users\ExampleUser\Work\Kemp.LoadBalancer.Powershell\Kemp.LoadBalancer.Powershell.psm1:
244 char:3

+         Throw $errStr

+         ~~~~~~~~~~~~

    + CategoryInfo          : OperationStopped: (ERROR: login me...t be
specified.:String) [], RuntimeException

    + FullyQualifiedErrorId : ERROR: login method param is empty. Credentials or
SubjectCN must be specified.
```

The connection drops if more than 30 calls are performed in less than 3 seconds over all API interfaces.


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# 3 Deprecated Cmdlets and Replacements

A number of commands have been deprecated and replaced with new commands with different names. Refer to the sections below for a list of deprecated cmdlets and replacements.

## 3.1 Template Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| ExportVSTemplate | Export-VSTemplate |
| UploadTemplate | Install-Template |
| DeleteTemplate | Remove-Template |
| ListTemplates | Get-Template |

## 3.2 Logging Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Get-EmailOption | Get-LogEmailConfiguration |
| Set-EmailOption | Set-LogEmailConfiguration |
| Get-SyslogOption | Get-LogSyslogConfiguration |
| Set-SyslogOption | Set-LogSyslogConfiguration |
| Get-Statistics | Get-LogStatistics |

## 3.3 SSO Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| UploadRSAConfigurationFile | Install-SSORSAConfigurationFile |


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| | |
|---|---|
| UploadRSANodeSecretAndPassword | Install-SSORSANodeSecretAndPassword |
| FlushSsoCache | Clear-SSOCache |

## 3.4 Network Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| ListIfconfig | Get-LmNetworkInterface |
| Get-NetworkOptions | Get-NetworkConfiguration |
| Set-NetworkOptions | Set-NetworkConfiguration |
| Get-DNSConfiguration | Get-NetworkDNSConfiguration |
| Set-DNSConfiguration | Set-NetworkDNSConfiguration |
| Update-LmDNSCache | Update-NetworkDNSCache |
| Get-SNMPOption | Get-NetworkSNMPConfiguration |
| Set-SNMPOption | Set-NetworkSNMPConfiguration |
| Get-Interface | Get-NetworkInterface |
| Set-Interface | Set-NetworkInterface |
| Add-InterfaceAddress | New-NetworkInterfaceAdditionalAddress |
| Remove-InterfaceAddress | Remove-NetworkInterfaceAdditionalAddress |
| Get-Route | Get-NetworkRoute |
| New-Route | New-NetworkRoute |
| Remove-Route | Remove-NetworkRoute |
| Register-BondedInterface | Register-NetworkBondedInterface |
| Unregister-BondedInterface | Unregister-NetworkBondedInterface |
| Add-BondedInterface | New-NetworkBondedInterface |
| Remove-BondedInterface | Remove-NetworkBondedInterface |
| Add-Vlan | New-NetworkVLAN |


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| | |
|---|---|
| Remove-Vlan | Remove-NetworkVLAN |
| Add-VxLan | New-NetworkVxLAN |
| Remove-VxLan | Remove-NetworkVxLAN |

## 3.5 Application Delivery Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| New-VirtualService | New-AdcVirtualService |
| Get-VirtualService | Get-AdcVirtualService |
| Set-VirtualService | Set-AdcVirtualService |
| Remove-VirtualService | Remove-AdcVirtualService |
| New-RealServer | New-AdcRealServer |
| Remove-RealServer | Remove-AdcRealServer |
| Set-RealServer | Set-AdcRealServer |
| Get-RealServer | Get-AdcRealServer |
| Enable-RealServer | Enable-AdcRealServer |
| Disable-RealServer | Disable-AdcRealServer |
| Remove-AdcVirtualServerRule | Remove-AdcVirtualServiceRule |
| Remove-VirtualServerRule | Remove-AdcVirtualServiceRule |
| New-RealServerRule | New-AdcRealServerRule |
| Remove-RealServerRule | Remove-AdcRealServerRule |
| New-Rule | New-AdcContentRule |
| Remove-Rule | Remove-AdcContentRule |
| Set-Rule | Set-AdcContentRule |
| Get-Rule | Get-AdcContentRule |
| Get-L7Configuration | Get-AdcL7Configuration |


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| | |
|---|---|
| Set-L7Configuration | Set-AdcL7Configuration |
| Get-LogSplitInterval | Get-AdcL7LogInsightSplitConfiguration |
| Set-LogSplitInterval | Set-AdcL7LogInsightSplitConfiguration |
| Get-ServiceHealth | Get-AdcServiceHealth |
| Set-ServiceHealth | Set-AdcServiceHealth |
| Add-NoCompressExtension | New-AdcHttpCompressionException |
| Remove-NoCompressExtension | Remove-AdcServiceHealth |
| Add-NoCacheExtension | New-AdcHttpCacheException |
| Remove-NoCacheExtension | Remove-AdcHttpCacheException |
| Get-AdaptiveCheck | Get-AdcAdaptiveHealthCheck |
| Set-AdaptiveCheck | Set-AdcAdaptiveHealthCheck |
| VSAddWafRule | New-AdcVsWafRule |
| VSRemoveWafRule | Remove-AdcVsWafRule |
| VSListWafRuleIds | Get-AdcVsWafRule |

## 3.6 Security Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Set-AdminAccess | Set-SecAdminAccess |
| Get-WUIAuth | Get-SecWuiAuthentication |
| Set-WUIAuth | Set-SecWuiAuthentication |
| Get-WUISetting | Get-SecAdminWuiConfiguration |
| Set-WUISetting | Set-SecAdminWuiConfiguration |
| UserSetSystemPassword | Set-SecSystemUserPassword |
| UserSetPermissions | Set-SecUserPermission |
| UserChangeLocalPassword | Set-SecUserPassword |


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## 3.7 System Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Initialize-LoadBalancer | Initialize-LmConnectionParameters |
| Test-ServerConnection | Test-LmServerConnection |

## 3.8 Get/Set Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Get-AllParameters | Get-LmAllParameters |
| Get-Parameter | Get-LmParameter |
| Set-Parameter | Set-LmParameter |

## 3.9 TLS Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| New-Certificate | New-TlsCertificate |
| ListCert | Get-TlsCertificate |
| Remove-Certificate | Remove-TlsCertificate |
| Backup-Certificate | Backup-TlsCertificate |
| Restore-Certificate | Restore-TlsCertificate |
| New-IntermediateCertificate | New-TlsIntermediateCertificate |
| Remove-IntermediateCertificate | Remove-TlsIntermediateCertificate |
| GetCipherset | Get-TlsCipherSet |
| ModifyCipherset | Set-TlsCipherSet |
| DelCipherset | Remove-TlsCipherSet |
| HSMShow | Get-TlsHSM |


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| | |
|---|---|
| HSMConfigure | Set-TlsHSM |
| HSMGenerateClientCert | New-TlsHSMClientCert |
| HSMUploadCACert | Set-TlsHSMCACert |

## 3.10 Web Application Firewall (WAF) Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| ListWafRules | Get-WafRules |
| AddWafCustomData | New-WafCustomRuleData |
| DownloadWafCustomData | Export-WafCustomRuleData |
| DelWafCustomData | Uninstall-WafCustomRuleData |
| AddWafCustomRule | New-WafCustomRuleSet |
| DelWafCustomRule | Uninstall-WafCustomRuleSet |
| DownloadWafCustomRule | Export-WafCustomRuleSet |
| EnableWafRemoteLogging | Enable-WafRemoteLogging |
| DisableWafRemoteLogging | Disable-WafRemoteLogging |
| ListWafAuditFiles | Get-WafAuditFiles |
| DownloadWafAuditLog | Export-WafAuditLog |
| GetWafChangeLog | Export-WafChangeLog |
| ManInstallWafRules | Install-WafRulesDatabase |
| DownloadWafRules | Update-WafRulesDatabase |
| GetWafSettings | Get-WafRulesAutoUpdateConfiguration |


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## 3.11 GEO Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| AddFQDN | New-GeoFQDN |
| Add-GeoFQDN | New-GeoFQDN |
| DeleteFQDN | Remove-GeoFQDN |
| ListFQDNs | Get-GeoFQDN |
| ModifyFQDN | Set-GeoFQDN |
| AddCluster | New-GeoCluster |
| DeleteCluster | Remove-GeoCluster |
| ShowCluster | Get-GeoCluster |
| ModifyCluster | Set-GeoCluster |
| ClusterChangeLocation | Set-GeoClusterCoordinates |
| AddMap | New-GeoFQDNSiteAddress |
| DeleteMap | Remove-GeoFQDNSiteAddress |
| ModifyMap | Set-GeoFQDNSiteAddress |
| ChangeCheckerAddr | Set-GeoFQDNSiteCheckerAddress |
| AddCountry | Set-GeoFQDNSiteCountry |
| RemoveCountry | Remove-GeoFQDNSiteCountry |
| ChangeMapLocation | Set-GeoFQDNSiteCoordinates |
| AddCustomLocation | New-GeoCustomLocation |
| DeleteCustomLocation | Remove-GeoCustomLocation |
| ListCustomLocation | Get-GeoCustomLocation |
| EditCustomLocation | Set-GeoCustomLocation |
| AddIP | New-GeoIpRange |
| DeleteIP | Remove-GeoIpRange |
| ShowIP | Get-GeoIpRange |


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| | |
|---|---|
| ListIPs | Get-GeoIpRange |
| ModifyIPLocation | Set-GeoIPRangeCoordinates |
| DeleteIPLocation | Remove-GeoIPRangeCoordinates |
| AddIPCountry | Set-GeoIPRangeCountry |
| RemoveIPCountryCustom | Remove-GeoIPRangeCountry |
| Remove-GeoIPRangeCustomLocation | Remove-GeoIPRangeCountry |
| RemoveIPCountry | Remove-GeoIPRangeCountry |
| AddIPCountryCustom | Set-GeoIPRangeCustomLocation |
| ListMiscParameters | Get-GeoMiscParameter |
| ModifyMiscParameters | Set-GeoMiscParameter |
| LocationDataUpdate | Update-GeoDatabase |
| EnableGEO | Enable-LmGeoPack |
| DisableGEO | Disable-LmGeoPack |
| IsGEOEnabled | Test-LmGeoEnabled |

## 3.12 Backup Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Backup-LoadBalancer | Backup-LmConfiguration |
| Restore-LoadBalancer | Restore-LmConfiguration |
| Get-BackupOption | Get-LmBackupConfiguration |
| Set-BackupOption | Set-LmBackupConfiguration |

## 3.13 VPN Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|


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| | |
|---|---|
| CreateVpnConnection | New-LmVpnConnection |
| DeleteVpnConnection | Remove-LmVpnConnection |
| ListVpns | Get-LmVpnConnection |
| SetVpnAddrs | Set-LmVpnAddrs |
| SetVpnLocalIp | Set-LmVpnLocalIp |
| SetVpnLocalSubnets | Set-LmVpnLocalSubnet |
| SetVpnRemoteSubnets | Set-LmVpnRemoteSubnet |
| SetVpnSecret | Set-LmVpnSecret |
| StartVpnConnection | Start-LmVpnConnection |
| StopVpnConnection | Stop-LmVpnConnection |
| StartIkeDaemon | Start-LmVpnIkeDaemon |
| StopIkeDaemon | Stop-LmVpnIkeDaemon |
| StatusIkeDaemon | Get-LmVpnIkeDaemonStatus |
| SetVpnPfsEnable | Set-LmVpnPfsEnable |
| SetVpnPfsDisable | Set-LmVpnPfsDisable |

## 3.14 Add-on Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| UploadAddon | Install-LmAddon |
| DeleteAddon | Remove-LmAddon |
| ListAddons | Get-LmAddOn |

## 3.15 Patch Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|


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| | |
|---|---|
| Install-Patch | Install-LmPatch |
| Restore-Patch | Uninstall-LmPatch |
| Restart-LoadBalancer | Restart-Lm |

## 3.16 Date/Time Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Get-DateTimeOption | Get-LmDateTimeConfiguration |
| Set-DateTimeOption | Set-LmDateTimeConfiguration |

## 3.17 SDN Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| AddSDNController | New-SdnController |
| DeleteSDNController | Remove-SdnController |
| ModifySDNController | Set-SdnController |
| GetSDNController | Get-SdnController |

## 3.18 Application Front End (AFE) Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Get-AFEConfiguration | Get-LmAFEConfiguration |
| Set-AFEConfiguration | Set-LmAFEConfiguration |
| Update-IDSRule | Update-AFEIDSRules |


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## 3.19 Connection Limit Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| AfeClientLimitList | Get-LmIPConnectionLimit |
| AfeClientLimitAdd | New-LmIPConnectionLimit |
| AfeClientLimitDelete | New-LmIPConnectionLimit |

## 3.20 High Availability (HA) Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Get-HAOption | Get-LmHAConfiguration |
| Set-HAOption | Set-LmHAConfiguration |
| Set-AzureHAMode | Set-LmAzureHAMode |
| Get-AzureHAOption | Get-LmAzureHAConfiguration |
| Set-AzureHAOption | Set-LmAzureHAConfiguration |
| Set-AwsHAMode | Set-LmAwsHAMode |
| Get-AwsHAOption | Get-LmAwsHAConfiguration |
| Set-AwsHAOption | Set-LmAwsHAConfiguration |

## 3.21 Diagnostic Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| Get-DebugOption | Get-LmDebugConfiguration |
| Set-DebugOption | Set-LmDebugConfiguration |
| DoTcpDump | Trace-TcpTraffic |


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## 3.22 Cluster Cmdlets

| Deprecated cmdlet | Replacement cmdlet |
|---|---|
| NMClusterStatus | Get-ClusterStatus |
| NMClusterCreate | New-Cluster |
| NMAddNode | New-ClusterNode |
| NMJoinCluster | Join-Cluster |
| NMEnableNode | Enable-ClusterNode |
| NMDisableNode | Disable-ClusterNode |
| NMDeleteNode | Remove-ClusterNode |


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# References

Unless otherwise specified, the following documents can be found at http://www.kemptechnologies.com/documentation.

**PowerShell, Interface Description**


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# Last Updated Date

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