

User's Guide

VxRail API PowerShell Modules

User's Guide

Abstract

The VxRail PowerShell modules enable you to manage VxRail using PowerShell cmdlets.

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Revisions

Date	Description
Aug 2024	Added credential description
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1 About VxRail PowerShell Modules

Starting with VxRail 4.7.300, you can manage VxRail using PowerShell cmdlets. Each public API has a corresponding PowerShell cmdlet in the VxRail PowerShell modules. You can activate VxRail APIs using PowerShell (5.0) after you install the VxRail.API PowerShell modules.

This guide contains information specific to PowerShell only. The *VxRail API User Guide* includes definitions and examples of all VxRail APIs and is available at the <u>Developer Portal</u>.

All VxRail API calls must be performed with a VxRail Manager account or an account with higher permissions.

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VxRail API PowerShell Modules

2 How to install the VxRail API modules

You can install the modules using either of the following methods:

- Import the modules manually using the standard PowerShell commands. For more information, see section, 2.1.
- Import the modules using the installer. For more information, see section 2.2.

2.1 Using standard PowerShell commands

- Extract the module contents to the following directory: C:\Program Files\WindowsPowerShell\Modules.
- 2. To import the module, run the following command from PowerShell:

```
Import-module VxRail.API
```

3. To confirm that the module has imported successfully, run the following command:

```
Get-Module
```

Modules with name containing "VxRail.API" should be listed as shown in Figure 1.

```
PS C:\WINDOWS\system32> Import-Module VxRail.API
 S C:\WINDOWS\system32> Get-Module
ModuleType Version
                         Name
                                                                    ExportedCommands
                                                                   {Add-Computer, Add-Content, Checkpoint-Computer, Clear-Con... {Add-Member, Add-Type, Clear-Variable, Compare-Object...} {Get-PSReadlineKeyHandler, Get-PSReadlineOption, Remove-PS...
Manifest
            3.1.0.0
                         Microsoft.PowerShell.Management
Manifest 3.1.0.0
                         Microsoft.PowerShell.Utility
Script
                         PSReadline
Manifest 1.0.0.0
                         VxRail.API
                         VxRail.API.Common
Script
 anifest
                         VxRail.API.System
                                                                    {Add-SystemProxy, Get-CallHomeMode, Get-Requests, Get-Requ..
```

Figure 1 Importing the PowerShell cmdlet

For PowerShell documentation, see https://docs.microsoft.com/en-us/powershell/scripting/developer/module/installing-a-powershell-module?view=powershell-6

2.2 Using the installer

- 1. Extract the modules into a folder.
- 2. Go to that folder and type . \install.ps1
- When prompted with "Will remove all VxRail modules, do you want to proceed?", type Y or y.

Figure 2 Using the installer

3 PowerShell cmdlets

Commands are available for the following modules:

- VxRail.API.Cluster
- VxRail.API.LCM
- VxRail.API.Support
- VxRail.API.Certificate
- VxRail.API.Chassis
- VxRail.API.Disk
- VxRail.API.Host
- VxRail.API.Telemetry
- VxRail.API.VC
- VxRail.API.System
- VxRail.API.SatelliteNode

Following is an example of listing the commands for the VxRail.API.System module:

```
Get-Command -Module VxRail.API.System
 Mac Administrator: Windows PowerShell
                                                                                                                                                 X
PS C:\WINDOWS\system32> Get-Command -Module VxRail.API.System
CommandType
                                                                                       Version
                                                                                                     Source
                    Name
                    Add-SystemProxy
Get-CallHomeMode
                                                                                                     VxRail.API.System
VxRail.API.System
Function
                                                                                       1.0.0.0
Function
                                                                                                     VxRail.API.System
VxRail.API.System
VxRail.API.System
Function
                    Get-Requests
                                                                                       1.0.0.0
                    Get-RequestsByID
Get-SupportHeartbeat
                                                                                       1.0.0.0
Function
Function
                                                                                                     VxRail.API.System
VxRail.API.System
VxRail.API.System
Function
                    Get-SystemHealth
                                                                                        1.0.0.0
                                                                                       1.0.0.0
Function
                    Get-SystemInfo
                    Get-SystemInternetMode
Function
                                                                                                     VxRail.API.System
VxRail.API.System
VxRail.API.System
                    Get-SystemProxy
                    Remove-SystemProxy
Update-CallHomeMode
Function
                                                                                        1.0.0.0
                                                                                        1.0.0.0
Function
                                                                                                     VxRail.API.System
VxRail.API.System
                     Update-SystemInternetMode
Function
                    Update-SystemProxy
                                                                                       1.0.0.0
```

Figure 3 Get command

To list all the commands available for all modules, run:

```
Get-Command -Module VxRail.API.*
```

To show help information for a command, run:

Get-Help < Command Name >

```
Administrator: Windows PowerShell

PS C:\WINDOWS\system32> Get-Help Get-SystemInfo

NAME
    Get-SystemInfo

SYNOPSIS
    Get-SystemInfo retrieves VxRail Manager system information.

SYNTAX
    Get-SystemInfo [-Server] <String> [-Username] <String> [-Password] <String> [-Format] [<CommonParameters>]

DESCRIPTION
    Get-SystemInfo retrieves VxRail Manager system information.

RELATED LINKS

REMARKS
    To see the examples, type: "get-help Get-SystemInfo -examples".
    For more information, type: "get-help Get-SystemInfo -detailed".
```

Figure 4 Get help.

Internal Use - Confidential

For technical information, type: "get-help Get-SystemInfo -full".

3.1 Command examples

Following is an example of running a command:

Get-SystemInfo -Server <VxRail_IP> -Username <username> -Password <password>

Figure 5 Command example

Following is an example of running a command with the format flag:

Get-SystemInfo -Server <VxRail_IP> -Username <username> -Password <password>
-Format

Figure 6 Formatted command

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You can access command results from a variable:

```
$systemInfo = Get-SystemInfo -Server <server_ip> -Username <username> -
Password <password>
$systemInfo.version
$systemInfo.health
 $systemInfo.cluster type
 $systemInfo.description
        Mac Administrator: Windows PowerShell
    PS C:\WINDOWS\system32> $systemInfo = Get-SystemInfo -Server -Username -User
```

Figure 7 Using variable

S C:\WINDOWS\system32>

A API Documentation

VxRail RESTful API documentation is available onboard your VxRail Appliance in software versions 4.7.300 and later. To access onboard API documentation, enter the following address in a web browser: https://<VxM_IP>/rest/vxm/api-doc.html

The base URL for the VxRail API: https://<VxM IP>/rest/vxm/. The base URL is for a single VxRail cluster only. <VxM IP> is the network IP address of the VxRail Appliance.

For customer-supplied VMware vCenter Server with multiple clusters, each cluster has its distinct base URL.

The *VxRail API User Guide* includes definitions and examples of all VxRail APIs and is available at the <u>Developer Portal</u>.