VxRail API PowerShell Modules

User's Guide

Abstract

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

May 2023

H18049

Revisions

Date	Description
May 2023	Updated documentation reference
August 2020	Updated documentation reference
November 2019	Initial release

Table of contents

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 included 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 is available at the Developer Portal: https://developer.dell.com/apis/5538/versions/7.0.420/docs/Introduction.md contains definitions and examples of all VxRail APIs.

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

1. 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
PS C:\WINDOWS\system32> Get-Module

ModuleType Version    Name                                ExportedCommands
---------- -------    ----                                ----------------
Manifest   3.1.0.0    Microsoft.PowerShell.Management     {Add-Computer, Add-Content, Checkpoint-Computer, Clear-Con...
Manifest   3.1.0.0    Microsoft.PowerShell.Utility        {Add-Member, Add-Type, Clear-Variable, Compare-Object...}
Script     1.2        PSReadline                          {Get-PSReadlineKeyHandler, Get-PSReadlineOption, Remove-PS...
Manifest   1.0.0.0    VxRail.API
Script     1.0.0.0    VxRail.API.Common
Manifest   1.0.0.0    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`
3. When prompted with “*Will remove all VxRail modules, do you want to proceed?”*, type **Y** or **y**.

```
PS C:\lily\Build-76B0031BCD-20191015162244> cd ..\ps550\
PS C:\lily\ps550> .\install.ps1
PowerShell major version:  5
.Net Framework version:  4.6.1
.Net Framework version:  4.5.1
Will remove all VxRail modules, do you want to proceed?
[Y or N] then press [Enter]:: y
Yes, continue executing script.
C:\Users\Administrator.WIN-7INVKAB99EJ\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1
PS C:\lily\ps550> _
```

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
```

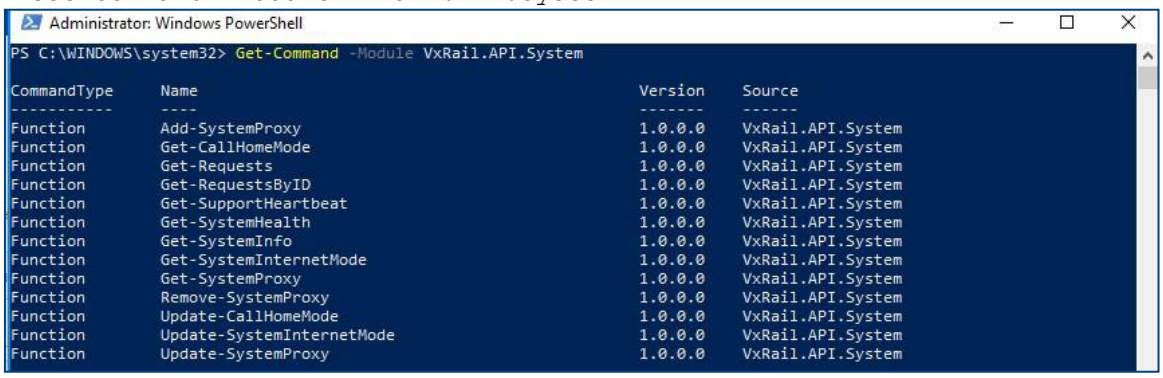

Figure 3 **Get command**

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>
```

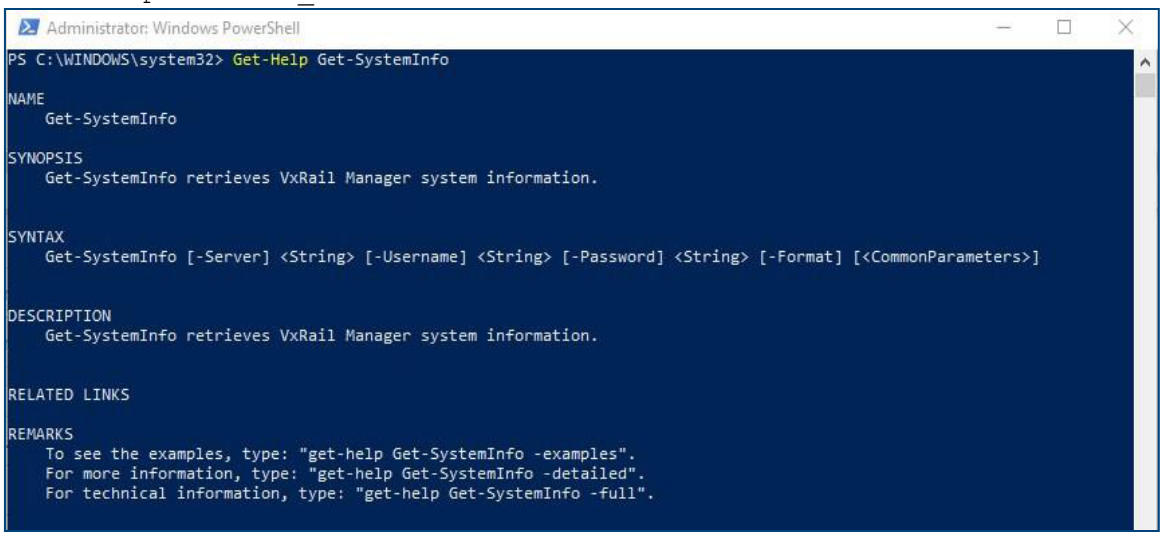

Figure 4 **Get help.**

3.1 Command examples

Following is an example of running a command:

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

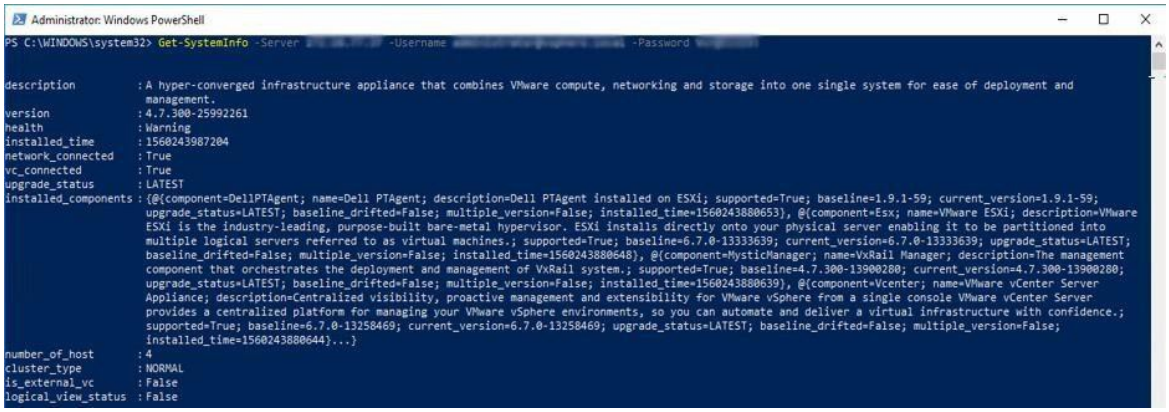

Figure 5 **Command example**

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

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

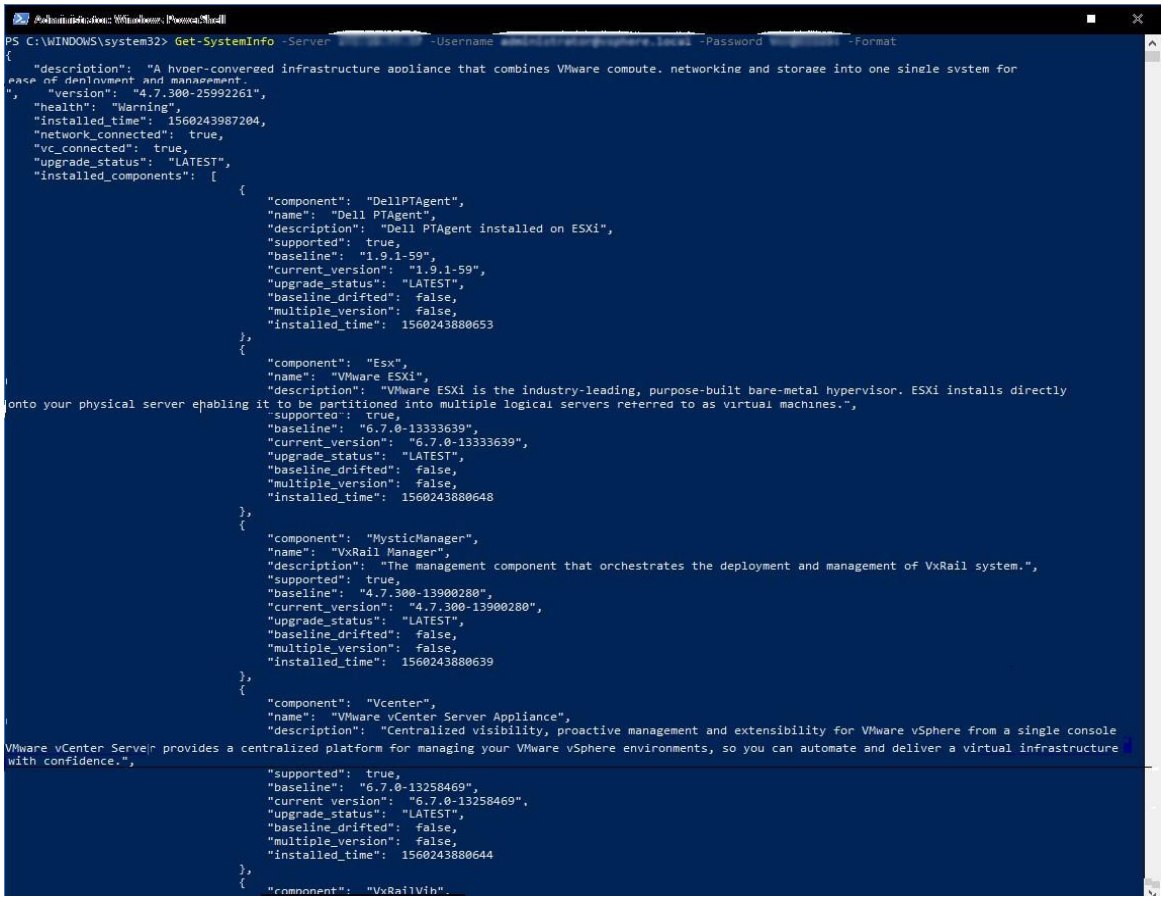

Figure 6 **Formatted command**

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
```

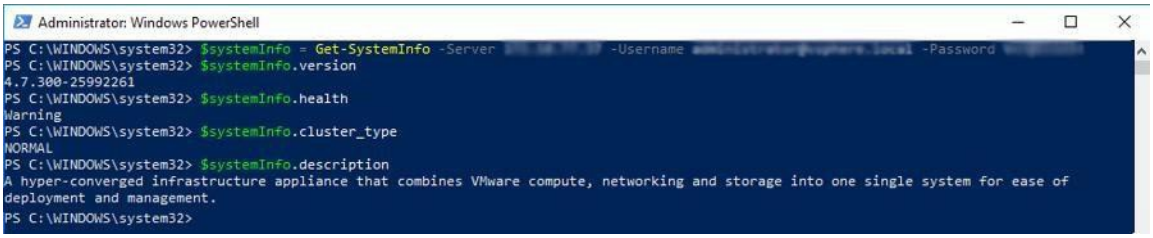

Figure 7 **Using variable**

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 own distinct base URL.

The VxRail API User Guide is available at the Developer Portal: https://developer.dell.com/apis/5538/versions/7.0.420/docs/Introduction.md contains definitions and examples of all VxRail APIs.