



# Integration Pack for VMware vSphere

*For Microsoft System Center Orchestrator*

For System Center 2016 and 2019, you must use the 32-bit version of the integration pack, which has the name **Kelverion\_Integration\_Pack\_for\_VMware\_vSphere\_4.0**

For System Center 2022 and later, you must use the 64-bit version of the integration pack, which has the name **Kelverion\_IP\_VMware\_vSphere\_x64\_4.0**

## Release Notes

Version 4.0

January 2023

# Introduction

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The **Integration Pack for VMware vSphere** is an add-on for System Center Orchestrator that enables you to build runbooks to automate tasks in VMware vSphere vCenter. The integration pack provides the following activities:

- Add VM Device
- Create VM
- Create VM From Template
- Delete VM
- Get Custom Attribute
- Get vSphere Object
- Move VM
- Restart VM
- Run vROps Script
- Run vSphere Script
- Set Custom Attribute
- Start VM
- Stop VM
- Suspend VM
- Update VM

## System Requirements

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The Integration Pack for VMware vSphere requires the following software to be installed and configured prior to implementing the integration. For more information about installing and configuring Orchestrator and VMware vSphere, refer to the respective product documentation.

### *Kelverion\_Integration\_Pack\_for\_VMware\_vSphere (32-bit)*

- Microsoft System Center Orchestrator 2016, 2019
- Microsoft .NET Framework 4.7.2
- VMware vSphere vCenter 6.7, 7.0, 8.0

### *Kelverion\_IP\_VMware\_vSphere\_x64 (64-bit)*

- Microsoft System Center Orchestrator 2022
- Microsoft .NET Framework 4.7.2
- VMware vSphere vCenter 6.7, 7.0, 8.0

## System Requirements for Run PowerCLI Script

The integration pack can also be used for running PowerCLI scripts in your VMware environments. The following software must be installed and configured:

- Windows PowerShell 5.1
- Windows Remote Management (WinRM)
- VMware PowerCLI 12.0.0, 13.0.0 (64-bit)

# Registering and Deploying the Integration Pack

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After you download the integration pack, you register the integration pack file with the Orchestrator management server, and then deploy it to Runbook Servers and computers that have the Runbook Designer installed.

**IMPORTANT:** Ensure that you are deploying the correct version of the Integration Pack.

- For System Center 2016 and 2019, you must use the 32-bit version of the integration pack, which has the name **Kelverion\_Integration\_Pack\_for\_VMware\_vSphere**
- For System Center 2022 and later, you must use the 64-bit version of the integration pack, which has the name **Kelverion\_IP\_VMware\_vSphere\_x64**

*To register the integration pack:*

1. On the management server, copy the **.OIP** file for the integration pack to a local hard drive or network share.
2. Confirm that the file is not set to **Read Only** to prevent unregistering the integration pack later.
3. Start the **Deployment Manager**.
4. In the navigation pane of the Deployment Manager, expand **Orchestrator Management Server**, right-click **Integration Packs** to select **Register IP with the Orchestrator Management Server**. The **Integration Pack Registration Wizard** opens.
5. Click **Next**.
6. In the **Select Integration Packs or Hotfixes** dialog box, click **Add**.
7. Locate the **.OIP** file that you copied locally from step 1, click **Open** and then click **Next**.
8. In the **Completing the Integration Pack Wizard** dialog box, click **Finish**.
9. On the **End User Agreement** dialog box, read the Kelverion License Terms, and then click **Accept**.
10. The **Log Entries** pane displays a confirmation message when the integration pack is successfully registered.

*To deploy the integration pack:*

1. In the navigation pane of the **Deployment Manager**, right-click **Integration Packs**, click **Deploy IP to Runbook Server** or **Runbook Designer**.
2. Select the integration pack that you want to deploy, and then click **Next**.
3. Enter the name of the runbook server or computers with the Runbook Designer installed, on which you want to deploy the integration pack, click **Add**, and then click **Next**.
4. Continue to add additional runbook servers and computers running the Runbook Designer, on which you want to deploy the integration pack. Click **Next**.

5. In the **Installation Options** dialog box, configure the following settings.
6. To choose a time to deploy the integration pack, select the **Schedule installation** check box, and then select the time and date from the **Perform installation** list.
7. Click one of the following:
  - a. **Stop all running runbooks before installing the integration pack** to stop all running runbooks before deploying the integration pack.
  - b. **Install the Integration Packs without stopping the running Runbooks** to install the integration pack without stopping any running runbooks.
8. Click **Next**.
9. In the **Completing Integration Pack Deployment Wizard** dialog box, Click **Finish**.
10. When the integration pack is deployed, the **Log Entries** pane displays a confirmation message.

## Version History

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### Version 4.0

- Added new 64-bit product version with support for System Center Orchestrator 2022.
- The integration pack is now using .Net Framework 4.7.2.
- Verified integration pack with VMware PowerCLI 13.0.0.
- Added support for vSphere vCenter 8.0.

### Version 3.3

- Added support for multiple server configurations for the VMware vSphere Configuration options type.
- Added support for multiple server configurations for the VMware vSphere Script Configuration options type.
- Added support for multiple server configurations for the VMware vROps Script Configuration options type.

### Version 3.2

- Added support for vSphere vCenter 7.0.
- TLS 1.0 and 1.1 are no longer supported.

### Version 3.1

- Added new activity Run vSphere Script for running PowerCLI scripts in vSphere/vCenter.
- Added new activity Run vROps Script for running PowerCLI scripts in vRealize Operation Manager.

## Version 3.0

- Added new activity *Get Custom Attribute* for retrieving global and non-global custom attribute values for VMs and hosts.
- The integration pack no longer requires VMware PowerCLI to be installed on the Orchestrator machine. The integration pack now deploys all necessary dependencies when installed.
- Fixed issues with accessing nested vSphere object properties.
- Fixed an issue with *Get vSphere Object - Resource Pool* activity, it now accepts a virtual App as the Resource Pool (MOR).
- Added support for Distributed Virtual Port Group in *Update VM*, *Add VM Device* and *Create VM* activities.
- Extended filter operators supported by server-side filters.
- Introduced new Configuration Option property **Skip Certificate Validation** to specify if the IP should be validating the server certificate.

**Note that the default value for this property is False and that IP activities may fail after the upgrade, if you were using a self-signed certificate, or if the specified *vSphere* Server name was not listed on the certificate. Ensure that the server is configured with a valid certificate signed by a valid certificate authority and that the specified *vSphere* Server name is listed on the certificate. Alternately, for a secure network environment when working with a trusted server, you may choose not to validate the server certificate.**

## Version 2.0

- Changed *Set Custom Attribute* activity so that it can now set global attributes.
- The *Create VM From Template* activity now provides optional properties for specifying disk provisioning.
- Added new activity *Add VM Device* for adding a new disk drive, CD/DVD drive or network card to an existing VM.
- Added new activity *Move VM* for moving an existing VM to another folder, resource pool, datastore, host or datacenter.
- Added support for TLS 1.2.

## Version 1.10

- The *Get vSphere Object* activity now supports *Compute Resource* and *Cluster Compute Resource*.
- Added new activity *Set Custom Attribute* for setting VM or host custom attribute values.

## Version 1.00

- Initial version