



# INTEGRATION PACK FOR AZURE DEVOPS

*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 **Keverion\_Integration\_Pack\_for\_Azure\_DevOps\_2.0**

For System Center 2022 and later, you must use the 64-bit version of the integration pack, which has the name **Keverion\_IP\_Azure\_DevOps\_x64\_2.0**

## Release Notes

Version 2.0

May 2023

# Introduction

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The **Integration Pack for Azure DevOps** is an add-in for Microsoft System Center Orchestrator that enables you to build runbooks to automate tasks in **Azure DevOps**.

*The integration pack includes the following activities:*

- Add Attachment
- Create Work Item
- Create Work Item (Custom)
- Delete Attachment
- Delete Work Item
- Get Attachment
- Get Project
- Get Work Item
- Monitor Work Item
- Save Attachment
- Update Work Item
- Update Work Item (Custom)

**Important:** The Keverion Integration Pack for Azure DevOps was formally named the Integration Pack for Azure DevOps and TFS. The integration pack was renamed to emphasize that it only supports Azure DevOps and no longer supports Microsoft TFS.

## System Requirements

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The Integration Pack for Azure DevOps requires the following software to be installed and configured before you deploy the integration. For more information about installing and configuring Orchestrator and Azure DevOps please refer to the respective product documentation.

### *Keverion\_Integration\_Pack\_for\_Azure\_DevOps (32-bit)*

- Microsoft System Center Orchestrator 2016, 2019
- Microsoft .NET Framework 4.7.2

### *Keverion\_IP\_Azure\_DevOps\_x64 (64-bit)*

- Microsoft System Center Orchestrator 2022
- Microsoft .NET Framework 4.7.2

\* Please see [Keverion.com/orchestrator](https://keverion.com/orchestrator) for the latest Orchestrator support information.

*The following versions of Azure DevOps are supported:*

- Azure DevOps Server 2022
- Azure DevOps Server 2020
- Azure DevOps Online

**IMPORTANT:** This version of the integration pack introduces breaking changes in the configuration options. If you are upgrading to this version, make sure to update your configuration options as indicated in **Configuring the Integration Pack** section of the User Guide.

**IMPORTANT:** This version of the integration pack **does not support Microsoft TFS 2017 and 2018**. If you are building runbooks for TFS 2017 or 2018, you should not upgrade to this version, and instead use Keverion Integration Pack for Azure DevOps and TFS 1.6.

## 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.

### *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 Keverion 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 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 2.0

- Added new 64-bit product version with support for System Center Orchestrator 2022.
- Added support for Azure DevOps Server 2022.
- **Dropped support for Microsoft TFS 2017 and 2018.**
- Renamed from the **Kelverion Integration Pack for Azure DevOps and TFS** to **Kelverion Integration Pack for Azure DevOps**.
- The integration pack is now using .NET Framework 4.7.2.
- Dropped support for TLS 1.0 and 1.1.
- Fixed issue where Numeric and DateTime output types were published as strings.  
**IMPORTANT:** If you are upgrading to this version, you may have to update your existing runbooks. This change may affect published data and the way link conditions are evaluated for affected fields.
- Added new configuration property **Personal Access Token** for specifying the personal access token of the user that Orchestrator will use to connect to Azure DevOps.  
**IMPORTANT:** This is a breaking change in the configuration options. If you are upgrading to this version, make sure to update your configuration options as indicated in **Configuring the Integration Pack** section of the User Guide.
- Added configuration property **Skip Certificate Validation**. This applies only when connecting to the server over HTTPS. The default value for this property is **False**.  
**IMPORTANT:** This is a breaking change, and integration pack activities may fail after the upgrade, if you are using the integration pack with an on-premises Azure DevOps Server that is configured with a self-signed certificate, or if the server name configured in the integration pack options is not listed on the server certificate. Ensure that the server is

configured with a valid certificate signed by a valid certificate authority and that the server name configured in the integration pack options 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 and set **Skip Certificate Validation** to **True**.

**IMPORTANT:** Azure DevOps Online environments should not be affected by this change and should have **Skip Certificate Validation** to **False**, which is the default setting.

## Version 1.6

- Added support for Azure DevOps Server 2020
- **Dropped support for Microsoft TFS 2015.**
- Renamed from the **Kelverion Integration Pack for Microsoft TFS** to **Kelverion Integration Pack for Azure DevOps and TFS**.

## Version 1.53

- Adds Area Path and Iteration Path fields to Create Work Item, Update Work Item.
- Adds special custom configuration support for Area Path and Iteration Path to Create Work Item (Custom) and Update Work Item (Custom).

## Version 1.5

- Adds Get Project Activity allows the user to retrieve project details.

## Version 1.41

- Performance improvements to Get Work Item and Monitor Work Item.

## Version 1.4

- Adds Create Work Item (Custom) and Update Work Item (Custom) activities that allow the user to define their own field configuration files. These two new activities do not offer any design time discovery.

## Version 1.3

- Updated Kelverion.Management.dll
- New end user license agreement.

## Version 1.2

- Improved compatibility and added support for Microsoft Team Foundation Server 2015.
- The integration pack now deploys the required TFS client libraries. A TFS client installation is no longer required.

## Version 1.11

- Fixed issue with GUID filters.

## Version 1.1

- General update to improve logging and diagnostics.

## Version 1.0

- Initial release.