

# Kelverion Integration Module for Web Automation

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*Version 2.2*

*Release Notes*

*Updated: October 2019*

## Introduction

The integration module includes the following cmdlets:

- Add-WebCookie
- Clear-WebCookie
- Clear-WebElement
- Clear-WebElementSelection
- Close-WebAlert
- CloseWebPage
- Get-WebCookie
- Get-WebElement
- Get-WebElementOption
- Get-WebElementSelection
- Invoke-WebElementClick
- Invoke-WebScript
- New-WebBrowser
- New-WebScreenShot
- Open-WebPage
- Read-WebAlertText
- Read-WebElementAttribute
- Read-WebElementCssProperty
- Remove-WebBrowser
- Remove-WebCookie
- Send-WebAlertCredential
- Send-WebAlertKeys
- Send-WebElementKeys
- Set-WebElementSearchTimeout
- Set-WebElementSelection
- Set-WebFrame
- Set-WebPageLoadTimeout
- Set-WebTarget
- Step-WebPageBack
- Step-WebPageForward
- Submit-WebElement
- Update-WebPage

## System Requirements

The Integration Module for Web Automation requires the following software to be installed and configured prior to implementing the integration.

- Kelverion Runbook Studio 3.3
- Microsoft .NET Framework 4.6.2
- Microsoft Internet Explorer or Google Chrome browsers.

The Integration Module for Web Automation supports Azure Automation and Service Management Automation (SMA) platforms:

- Azure Automation requirements:
  - Azure Automation account
  - Hybrid Worker Group with at least one Hybrid Worker
- SMA requirements:
  - System Center 2016 SMA
  - At least one Automation Worker

## Installing the Integration Module from PowerShell Gallery

You can install the Integration Module directly from the PowerShell Gallery to your Azure Automation Account and Hybrid Workers. If you want to build runbooks in Keverion Runbook Studio using the integration module you must also install it on your Runbook Studio host system.

### To install the Integration Module for Runbook Studio:

1. Confirm you have the latest PowerShellGet module. See online documentation for more information: <https://www.powershellgallery.com/>
2. Start a PowerShell window as Administrator and run the command:  
`Install-Module -Name Keverion.WebAutomation`

### To install the Integration Module in Azure Automation:

1. Go to the PowerShell Gallery URL:  
<https://www.powershellgallery.com/packages/Keverion.WebAutomation/> and click **Keverion.WebAutomation**
2. Click the button “**Deploy to Azure Automation**” and you will be redirected to the Microsoft Azure portal.
3. Select your Automation account and click **OK** to upload the module.

### To install the Integration Module on a Hybrid Worker:

1. Confirm you have the latest PowerShellGet module on your Hybrid Worker computer. See online documentation for more information:  
<https://www.powershellgallery.com/>
2. Start a PowerShell window as Administrator and run the command:

```
Install-Module -Name Keverion.WebAutomation
```

## Installing the Integration Module Manually

After download the integration module, you must upload it to your Portal and Worker hosts. If you want to build runbooks in Keverion Runbook Studio using the integration module you must also install it on your Runbook Studio host system.

### To install the Integration Module for Runbook Studio:

1. Copy the **Keverion.WebAutomation.zip** to your computer.
2. Right click on the file and select properties. Unblock the file if it is blocked.
3. Unzip the **Keverion.WebAutomation.zip** file.
4. Copy the **Keverion.WebAutomation** folder to a location in the  
%PsModulePath% path.

### To install the Integration Module in Azure Automation Portal:

1. Go to your automation account and select **Assets**.
2. In **Assets** select **Modules**.
3. In **Modules** select **Add a module**.
4. In **Upload File** field, select the **Keverion.WebAutomation.zip**.
5. Select **OK** to upload the module.

### To install the Integration Module on a Hybrid Worker:

1. In the Keverion Runbook Studio or Microsoft Azure portal:
  - a. Create an Runbook with the following PowerShell: **\$Env:PSModulePath**.
  - b. Test this runbook on the Hybrid Worker and record the output for use in Step 5.
2. Copy the **Keverion.WebAutomation.zip** to your Hybrid Worker computer.
3. Right click on the file and select properties. Unblock the file if it is blocked.
4. Unzip the **Keverion.WebAutomation.zip** file.
5. Copy the **Keverion.WebAutomation** folder to a location in the path returned in Step 1b.

Note: The Hybrid Worker uses its own unique value for `%PSModulePath%`, and will differ from that of the system.

#### To install the Integration Module in SMA 2016:

1. Go to your Service Management Portal and select **Automation**.
2. In Automation select **Assets**, and then at the bottom select **Import Module**.
3. In the Import Integration Module dialog, select **Browse for file...** and select the **Kelverion.WebAutomation.zip**.
4. Select the Complete **checkmark** to upload the module.

#### To install the Integration Module on an SMA Automation Worker:

1. In the Service Management Portal:
  - a. Create an Runbook with the following PowerShell: `$Env:PSModulePath`.
  - b. Test this runbook on an Automation Worker and record the output for use in Step 5.
2. Copy the **Kelverion.WebAutomation.zip** to your Automation Worker computer.
3. Right click on the file and select properties. Unblock the file if it is blocked.
4. Unzip the **Kelverion.WebAutomation.zip** file.
5. Copy the **Kelverion.WebAutomation** folder to a location in the path returned in Step 1b.

Note: The Automation Worker uses its own unique value for `%PSModulePath%` and may differ from that of the system.

## Licensing the Integration Module

After you install the integration module you must provide a valid Keverion license before running any runbooks that contain activities from the integration module. For more information on licensing Keverion integration modules please refer to the Keverion Management Server 1.0 User's Guide.

### To deploy the integration module license file:

1. On the Hybrid Worker host system(s) where you deployed the Integration Module, open Windows Explorer.
2. Navigate to %ProgramFiles(x86)%
3. Create the folder 'Keverion Automation\Licenses'.
4. Copy the .KAL license file to the 'Keverion Automation\Licenses' folder.
5. Repeat for each Hybrid Worker where you deployed the Integration Module.

## Change History

### Version 2.2

- Updated product description to emphasize that the Integration Module must be deployed to a hybrid worker.
- Replaced *Chrome* and *InternetExplore* switch parameters in the New-WebBrowser cmdlet with a more explicit and extensible *BrowserType* parameter. For example,

```
New-WebBrowser -Chrome
```

Is now:

```
New-WebBrowser -BrowserType Chrome
```

## Known Issues

- The Send-WebAlertKeys command does not work with Chrome browsers.