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# msiexec

Article • 02/03/2023 • 9 contributors •

Applies Windows Server 2025, Windows Server 2022, Windows Server 2019, Windows Server 2016, Windows 11, Windows 10, Azure Stack HCI, versions 23H2 and 22H2

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Provides the means to install, modify, and perform operations on Windows Installer from the command line.

# Install options

Set the install type for launching an installation package.

## Syntax



Copy

```
msiexec.exe [/i][/a][/j{u|m|g|t}]/x <path_to_package>
```

## Parameters



Expand table


Parameter	Description
/i	Specifies normal installation.
/a	Specifies administrative installation.
/ju	Advertise the product to the current user.

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/jm	Advertise the product to all users.
/j/g	Specifies the language identifier used by the advertised package.
/j/t	Applies transform to the advertised package.
/x	Uninstalls the package.
<path_to_package>	Specifies the location and name of the installation package file.

## Examples

To install a package named *example.msi* from the C: drive, using a normal installation process, type:

 Copy

```
msiexec.exe /i "C:\example.msi"
```

## Display options


You can configure what a user sees during the installation process, based on your target environment. For example, if you're distributing a package to all clients for manual installation, there should be a full UI. However, if you're deploying a package using Group Policy, which requires no user interaction, there should be no UI involved.

## Syntax

 Copy

```
msiexec.exe /i <path_to_package> [/quiet][/passive][/q{n|b|r|f}]
```

## Parameters

 Expand table

Parameter	Description
<path_to_package>	Specifies the location and name of the installation package file.
/quiet	Specifies quiet mode, which means there's no user interaction required.
/passive	Specifies unattended mode, which means the installation only shows a progress bar.
/qn	Specifies there's no UI during the installation process.
/qn+	Specifies there's no UI during the installation process, except for a final dialog box at the end.
/qb	Specifies there's a basic UI during the installation process.
/qb+	Specifies there's a basic UI during the installation process, including a final dialog box at the end.
/qr	Specifies a reduced UI experience during the installation process.
/qf	Specifies a full UI experience during the installation process.

## Remarks

- The modal box isn't shown if the installation is cancelled by the user. You can use **qb+!** or **qb!+** to hide the **CANCEL** button.

## Examples

To install package *C:\example.msi*, using a normal installation process and no UI, type:

Copy

```
msiexec.exe /i "C:\example.msi" /qn
```

## Restart options

If your installation package overwrites files or attempts to change files that are in use, a reboot might be required before the installation completes.

## Syntax

Copy

```
msiexec.exe /i <path_to_package> [/norestart][/promptrestart][/forcerestart]
```

## Parameters

Expand table

Parameter	Description
<path_to_package>	Specifies the location and name of the installation package file.
/norestart	Stops the device from restarting after the installation completes.
/promptrestart	Prompts the user if a reboot is required.
/forcerestart	Restarts the device after the installation completes.

## Examples

To install package *C:\example.msi*, using a normal installation process with no reboot at the end, type:

Copy

```
msiexec.exe /i "C:\example.msi" /norestart
```

## Logging options

If you need to debug your installation package, you can set the parameters to create a log file with specific information.

## Syntax

Copy

```
msiexec.exe [/i][/x] <path_to_package> [/L{i|w|e|a|r|u|c|m|o|p|v|x+|!|*}] <path_
```

# Parameters

 Expand table

Parameter	Description
/i	Specifies normal installation.
/x	Uninstalls the package.
<path_to_package>	Specifies the location and name of the installation package file.
/li	Turns on logging and includes status messages in the output log file.
/lw	Turns on logging and includes non-fatal warnings in the output log file.
/le	Turns on logging and includes all error messages in the output log file.
/la	Turns on logging and includes information about when an action started in the output log file.
/lr	Turns on logging and includes action-specific records in the output log file.
/lu	Turns on logging and includes user request information in the output log file.
/lc	Turns on logging and includes the initial UI parameters in the output log file.
/lm	Turns on logging and includes out-of-memory or fatal exit information in the output log file.
/lo	Turns on logging and includes out-of-disk-space messages in the output log file.
/lp	Turns on logging and includes terminal properties in the output log file.
/lv	Turns on logging and includes verbose output in the output log file.
/lx	Turns on logging and includes extra debugging information in the output log file.
/l+	Turns on logging and appends the information to an existing log file.
/l!	Turns on logging and flushes each line to the log file.
/l*	Turns on logging and logs all information, except verbose information (/lv) or extra debugging information (/lx).
<path_to_logfile>	Specifies the location and name for the output log file.

# Examples

To install package *C:\example.msi*, using a normal installation process with all logging information provided, including verbose output, and storing the output log file at *C:\package.log*, type:

 Copy

```
msiexec.exe /i "C:\example.msi" /L*V "C:\package.log"
```

# Update options

You can apply or remove updates using an installation package.

# Syntax

 Copy

```
msiexec.exe [/p][/update][/uninstall[/package<product_code_of_package>]] <path_t
```

## Parameters

 Expand table

Parameter	Description
/p	Installs a patch. If you're installing silently, you must also set the REINSTALLMODE property to <i>ecmus</i> and REINSTALL to <i>ALL</i> . Otherwise, the patch only updates the MSI cached on the target device.
/update	Install patches option. If you're applying multiple updates, you must separate them using a semi-colon (;).
/package	Installs or configures a product.

## Examples

 Copy

```
msiexec.exe /p "C:\MyPatch.msp"  
msiexec.exe /p "C:\MyPatch.msp" /qb REINSTALLMODE="ecmus" REINSTALL="ALL"  
msiexec.exe /update "C:\MyPatch.msp"
```

 Copy

```
msiexec.exe /uninstall {1BCBF52C-CD1B-454D-AEF7-852F73967318} /package {AAD3D77A-439F-4140-BE79-7447690693E8}
```

Where the first GUID is the patch GUID, and the second one is the MSI product code to which the patch was applied.

## Repair options


You can use this command to repair an installed package.

## Syntax

 Copy

```
msiexec.exe [/f{p|o|e|d|c|a|u|m|s|v}] <product_code>
```

## Parameters

 Expand table

Parameter	Description
/fp	Repairs the package if a file is missing.
/fo	Repairs the package if a file is missing, or if an older version is installed.
/fe	Repairs the package if file is missing, or if an equal or older version is installed.
/fd	Repairs the package if file is missing, or if a different version is installed.
/fc	Repairs the package if file is missing, or if checksum does not match the calculated value.
/fa	Forces all files to be reinstalled.
/fu	Repairs all the required user-specific registry entries.
/fm	Repairs all the required computer-specific registry entries.
/fs	Repairs all existing shortcuts.

/fv	Runs from source and re-caches the local package.
-----	---

## Examples

To force all files to be reinstalled based on the MSI product code to be repaired, *{AAD3D77A-7476-469F-ADF4-04424124E91D}*, type:

Copy

```
msiexec.exe /fa {AAD3D77A-7476-469F-ADF4-04424124E91D}
```

## Set public properties

You can set public properties through this command. For information about the available properties and how to set them, see [Public Properties](#).

## Related links

- [Command-Line Syntax Key](#)
- [Msiexec.exe Command-Line Options](#)
- [Standard Installer Command-Line Options](#)

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