Learn Discover Product documentation Development languages Topics Sign in

Windows Server Get started Failover clustering Management Identity and access Networking Troubleshooting Related products

Filter by title

msg
msiexec
msinfo32
mstsc
nbtstat
netcfg
net print
netsh
netstat
nfsadmin
nfsshare
nfsstat
nlbmgr
nslookup
ntbackup
ntcmdprompt
ntfrsutl
openfiles
pagefileconfig
path
pathping
pause
pbadmin
pentnt
perfmon
ping
pktmon
pnpunattend
pnputil
popd
powershell
powershell ise
print
prncnfg
prndrvr
prnjobs
prnmngr
prnport

Download PDF

Learn / Windows Server /

msiexec

Article • 02/03/2023 • 9 contributors •

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

Feedback

In this article

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.
/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 *ecmus* and REINSTALL to *ALL*. 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
```

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

Feedback

Was this page helpful? Yes No