Microsoft Ignite

Nov 19–22, 2024

Register now ›

✕

Version

Windows 11 and Windows Server 2022 PowerShell ⌄

🔍 Search

⊕ ✎ ⋮

Disable-WindowsOptionalFeature

Reference   ♡ Feedback

Module: DISM

In this article

Syntax

Description

Examples

Parameters

Show 3 more

Disables a feature in a Windows image.

Syntax

```PowerShell                                              ⧉ Copy
Disable-WindowsOptionalFeature
      -FeatureName <String[]>
      [-PackageName <String>]
      [-Remove]
      [-NoRestart]
      [-Online]
      [-WindowsDirectory <String>]
      [-SystemDrive <String>]
      [-LogPath <String>]
      [-ScratchDirectory <String>]
      [-LogLevel <LogLevel>]
      [<CommonParameters>]
```

```PowerShell                                              ⧉ Copy
Disable-WindowsOptionalFeature
      -FeatureName <String[]>
      [-PackageName <String>]
      [-Remove]
      [-NoRestart]
      -Path <String>
      [-WindowsDirectory <String>]
      [-SystemDrive <String>]
      [-LogPath <String>]
      [-ScratchDirectory <String>]
```

```
              [-LogLevel <LogLevel>]
              [<CommonParameters>]
```

Description

The **Disable-WindowsOptionalFeature** cmdlet disables or removes an optional feature in a Windows image.

Use the *Online* parameter to specify the running operating system on your local computer, or use the *Path* parameter to specify the location of a mounted Windows image.

The *PackageName* parameter specifies the package that the feature is a component of. This parameter is optional when the package is the Windows Foundation package.

The *FeatureName* parameter specifies the feature to remove. You can specify more than one feature in the same package. Separate feature names with a comma.

The *Remove* parameter removes the files for an optional feature without removing the feature's manifest from the image. You can use *Remove* to reduce the disk space that is used by a Windows image. After the image has been installed, you can restore the feature at any time from a remote source such as Windows Update or a network share. For more information about Features on Demand, see Configure a Windows Repair Source⧉ in the TechNet Library.

Examples

Example 1: Disable an optional feature

PowerShell	Copy

```
PS C:\> Disable-WindowsOptionalFeature -Online -FeatureName "Hearts"
```

This command disables an optional feature, Hearts, from the running Windows operating system.

Example 2: Disable a feature in an image

PowerShell	Copy

```
PS C:\> Disable-WindowsOptionalFeature -Path "c:\offline" -FeatureName "Calc" -P
```

This command disables the optional feature, Calc, in the specified package in the Windows image that is mounted to c:\offline. It also removes all of the files except the manifest file, which reduces the size of the Windows image. The feature can be restored with the **Enable-WindowsOptionalFeature** cmdlet or by using Features on Demand at any time after the image is deployed.

Parameters

-FeatureName

Specifies the name of the feature to be disabled. Feature names are case sensitive if you are servicing a Windows image other than Windows® 8 or a later version. You can use Get-WindowsOptionalFeature to find the name of the feature in the image.

Expand table

Type:	String[]
Position:	Named
Default value:	None
Required:	True
Accept pipeline input:	True
Accept wildcard characters:	False

-LogLevel

Specifies the maximum output level shown in the logs. The default log level is 3. The accepted values are as follows:

- 1 = Errors only
- 2 = Errors and warnings
- 3 = Errors, warnings, and information
- 4 = All of the information listed previously, plus debug output

⛶ **Expand table**

Type:	LogLevel
Aliases:	LL
Accepted values:	Errors, Warnings, WarningsInfo
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-LogPath

Specifies the full path and file name to log to. If not set, the default is `%WINDIR%\Logs\Dism\dism.log`. In Windows PE, the default directory is the RAMDISK scratch space which can be as low as 32 MB. The log file will automatically be archived. The archived log file will be saved with .bak appended to the file name and a new log file will be generated. Each time the log file is archived the .bak file will be overwritten. When using a network share that is not joined to a domain, use the net use command together with domain credentials to set access permissions before you set the log path for the DISM log.

⛶ **Expand table**

Type:	String
Aliases:	LP
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-NoRestart

Suppresses reboot. If a reboot is not required, this command does nothing. This option will keep the application from prompting for a restart or keep it from restarting automatically.

⛶ **Expand table**

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Online

Specifies that the action is to be taken on the operating system that is currently running on the local computer.

⛶ **Expand table**

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	True
Accept pipeline input:	True
Accept wildcard characters:	False

-PackageName

Specifies the name of a package in the Windows image.

⛶ **Expand table**

Type:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-Path

Specifies the full path to the root directory of the offline Windows image that you will service. If the directory named Windows is not a subdirectory of the root directory, *WindowsDirectory* must be specified.

⛶ **Expand table**

Type:	String
Position:	Named
Default value:	None

Required:	True
Accept pipeline input:	True
Accept wildcard characters:	False

-Remove

Removes the files for an optional feature without removing the feature's manifest from the image. You can use *Remove* to reduce the disk space that is used by a Windows image. After the image has been installed, you can restore the feature at any time from a remote source such as Windows Update or a network share.

Remove can only be used when servicing an image contain Windows 8 or Windows Server 2012 or a later version.

> ① **Note**
>
> Starting with Windows 10, the payload is not removed from Windows 10 devices in order to support Push-Button Reset. However, the payload is removed from editions of Windows Server.

⌐⌐ **Expand table**

Type:	SwitchParameter
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-ScratchDirectory

Specifies a temporary directory that will be used when extracting files for use during servicing. The directory must exist locally. If not specified, the `\Windows\%Temp%` directory will be used, with a subdirectory name of a randomly generated hexadecimal value for each run of DISM. Items in the scratch directory are deleted after each operation. You should not use a network share location as a scratch directory to expand a package (.cab or .msu file) for installation. The directory used for extracting files for temporary usage during servicing should be a local directory.

⌐⌐ **Expand table**

Type:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-SystemDrive

Specifies the path to the location of the BootMgr files. This is necessary only when the BootMgr files are located on a partition other than the one that you are running the

command from. Use -SystemDrive to service an installed Windows image from a Windows PE environment.

⛶ Expand table

Type:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

-WindowsDirectory

Specifies the path to the Windows directory relative to the image path. This cannot be the full path to the Windows directory; it should be a relative path. If not specified, the default is the Windows directory in the root of the offline image directory.

⛶ Expand table

Type:	String
Position:	Named
Default value:	None
Required:	False
Accept pipeline input:	True
Accept wildcard characters:	False

Inputs

String[]

Microsoft.Dism.Commands.ImageObject

Microsoft.Dism.Commands.BasicFeatureObject

Microsoft.Dism.Commands.AdvancedFeatureObject

Outputs

Microsoft.Dism.Commands.ImageObject

Related Links

- Enable-WindowsOptionalFeature
- Get-WindowsOptionalFeature
- Remove-WindowsPackage

Feedback

Was this page helpful?   👍 Yes   👎 No

Provide product feedback ⧉

🌐 English (United States)   ✅❌ Your Privacy Choices   ☼ Theme ⌄

Manage cookies   Previous Versions   Blog ⧉   Contribute   Privacy ⧉   Terms of Use   Trademarks ⧉   © Microsoft 2024