

# How to enable or disable Windows features on Windows 10

You need to turn on some programs and features that are included with Windows such as Internet Information Services to be able to use them. Some features are enabled by default, you can turn them off if not in use.

You need to turn on some programs and features that are included with Windows such as Internet Information Services to be able to use them. Some features are enabled by default, you can turn them off if not in use.

Turning off the feature does not mean uninstalling it from the PC or reducing the amount of hard disk space used. After turning off a feature, you can turn it on whenever you want. This article will show you how to enable or disable the Windows feature on Windows 10.

**Note:** You need to be logged in as an administrator to enable or disable Windows features.

If Windows Features are blank, check and make sure the Windows Modules Installer service is turned on and set to **Automatic** .

## Instructions to enable and disable Windows features

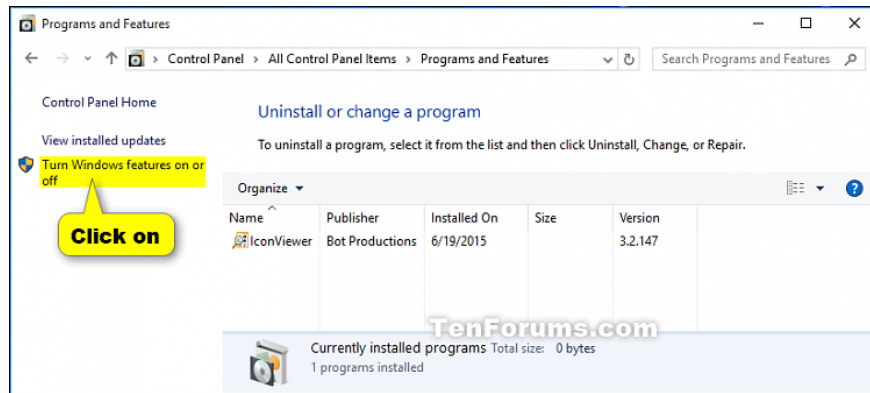
1. Turn off or turn on the Windows feature from Windows Features
2. Turn on the Windows feature in PowerShell
3. Turn off the Windows feature in PowerShell
4. Turn on the Windows feature in the Command Prompt
5. Turn off the Windows feature in the Command Prompt

## 1. Turn off or turn on the Windows feature from Windows Features

**Step 1** . Open Control Panel and click on **Programs and Features** icon.

**Step 2** . Click the **Turn Windows features on or off link** on the left.

**Note:** This will open the **C: WindowsSystem32OptionalFeatures.exe** file.



**Step 3** . If you receive a UAC message, click **Yes** .

**Step 4** . Turn on or off the Windows feature you want and click on **OK** when finished.

**Note** : Some Windows features are grouped together by folders and some folders contain subfolders with additional features.

When you see the square in the box, it means you turn on the feature in the main folder but not all the features in its subdirectory.

When you see a checkmark in the box, the feature in the main folder and all subfolders are enabled.

## Turn Windows features on or off ?

To turn a feature on, select its check box. To turn a feature off, clear its check box. A filled box means that only part of the feature is turned on.

- .NET Framework 3.5 (includes .NET 2.0 and 3.0)
- .NET Framework 4.6 Advanced Services**
  - ASP.NET 4.6
  - WCF Services
    - HTTP Activation
    - Message Queuing (MSMQ) Activation
    - Named Pipe Activation
    - TCP Activation
    - TCP Port Sharing
  - Active Directory Lightweight Directory Services
  - Data Center Bridging
  - Embedded Boot Experience
  - Embedded Logon
  - Embedded Shell Launcher
- Hyper-V
- Internet Explorer 11
- Internet Information Services
  - Internet Information Services Hostable Web Core
- Keyboard Filter
- Legacy Components
- Media Features
- Microsoft Message Queue (MSMQ) Server
- Microsoft Print to PDF
- MultiPoint Connector
- Print and Document Services
  - Internet Printing Client
  - LPD Print Service
  - LPR Port Monitor
  - Scan Management
  - Windows Fax and Scan
- RAS Connection Manager Administration Kit (CMAK)
- Remote Differential Compression API Support
- RIP Listener
- Simple Network Management Protocol (SNMP)
- Simple TCPIP services (i.e. echo, daytime etc)
- SMB 1.0/CIFS File Sharing Support
- Telnet Client
- TFTP Client
- Unified Write Filter
- Windows Identity Foundation 3.5
- Windows PowerShell 2.0
- Windows Process Activation Service
- Windows TIFF IFilter
- Work Folders Client
- XPS Services
- XPS Viewer

**Step 5** . You will be notified to restart the computer to complete the turn off or turn on the feature.

## 2. Turn on the Windows feature in PowerShell

**Step 1** . Open PowerShell as admin.

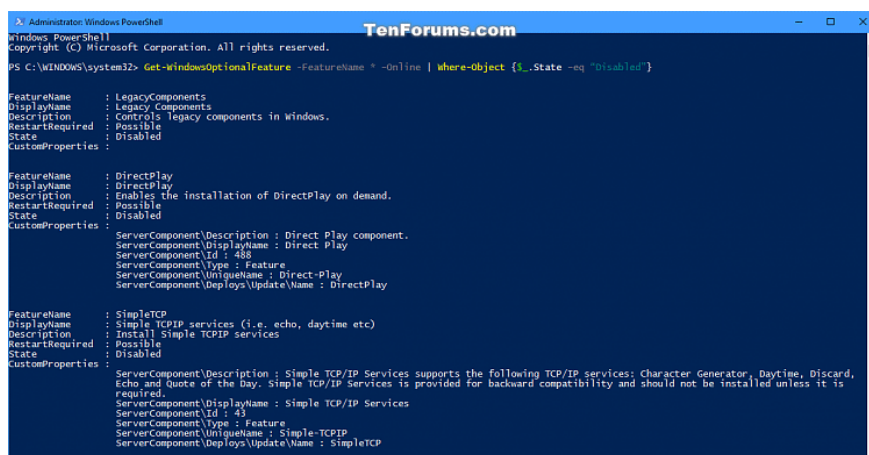
**Step 2** . Type the command below you want to use into PowerShell and press **Enter** . Note **FeatureName** (for example, Internet-Explorer-Optional-amd64) for the disabled Windows feature that you want to enable.

Incomplete information:

```
Get-WindowsOptionalFeature -Online | Where-Object {$_.State -eq 'Disabled'}
```

Or with full information:

```
Get-WindowsOptionalFeature -FeatureName * -Online | Where-Object {$_.State -eq 'D
```



```
Administrator: Windows PowerShell
Windows PowerShell
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PS C:\WINDOWS\system32> Get-WindowsOptionalFeature -FeatureName * -Online | Where-Object {$_.State -eq "Disabled"}

FeatureName      : LegacyComponents
DisplayName      : Legacy Components
Description      : Controls legacy components in windows.
RestartRequired : Possible
State            : Disabled
CustomProperties :

FeatureName      : DirectPlay
DisplayName      : DirectPlay
Description      : Enables the installation of DirectPlay on demand.
RestartRequired : Possible
State            : Disabled
CustomProperties : ServerComponent\Description : Direct Play component.
                  ServerComponent\DisplayName : Direct Play
                  ServerComponent\Id : 488
                  ServerComponent\Type : Feature
                  ServerComponent\UniqueName : Direct-Play
                  ServerComponent\DeploysUpdateName : DirectPlay

FeatureName      : SimpleTCP
DisplayName      : Simple TCP/IP services (i.e. echo, daytime etc)
Description      : Install Simple TCP/IP services
RestartRequired : Possible
State            : Disabled
CustomProperties : ServerComponent\Description : Simple TCP/IP Services supports the following TCP/IP services: Character Generator, Daytime, Discard,
                  Echo and Quote of the Day. Simple TCP/IP Services is provided for backward compatibility and should not be installed unless it is
                  required.
                  ServerComponent\DisplayName : Simple TCP/IP Services
                  ServerComponent\Id : 43
                  ServerComponent\Type : Feature
                  ServerComponent\UniqueName : Simple-TCP/IP
                  ServerComponent\DeploysUpdateName : SimpleTCP
```

**Step 3** . Type the following command into PowerShell and press **Enter** .

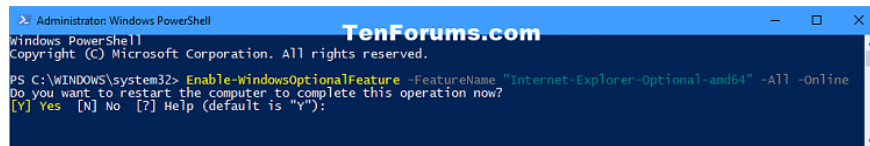
```
Enable-WindowsOptionalFeature -FeatureName "FeatureName" -All -Online
```

**Note:** Replace **FeatureName** in the above command with the actual **FeatureName** from Step 2.

For example:

```
Enable-WindowsOptionalFeature -FeatureName "Internet-Explorer-Optional-amd64" -A
```

**Step 4** . If prompted to restart the computer, type **Y** and press **Enter** when ready.



```
Administrator: Windows PowerShell
Windows PowerShell
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PS C:\WINDOWS\system32> Enable-WindowsOptionalFeature -FeatureName "Internet-Explorer-Optional-amd64" -All -Online
Do you want to restart the computer to complete this operation now?
[Y] Yes [N] No [?] Help (default is "Y"):
```

### 3. Turn off the Windows feature in PowerShell

**Step 1** . Open PowerShell as admin.

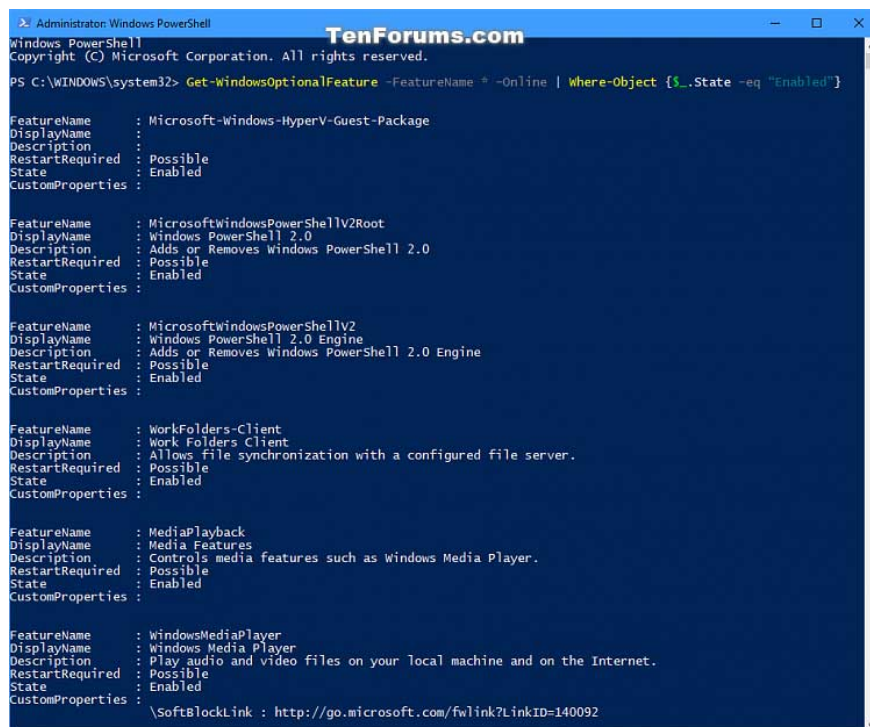
**Step 2** . Type the following command into PowerShell and press **Enter** . Remember **FeatureName** for the enabled Windows feature you want to disable.

Incomplete information:

```
Get-WindowsOptionalFeature -Online | Where-Object {$_.State -eq 'Enabled'}
```

Or full information:

```
Get-WindowsOptionalFeature -FeatureName * -Online | Where-Object {$_.State -eq 'Enabled'}
```



```
Administrator: Windows PowerShell
Windows PowerShell
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PS C:\WINDOWS\system32> Get-WindowsOptionalFeature -FeatureName * -Online | Where-Object {$_.State -eq "Enabled"}

FeatureName      : Microsoft-Windows-HyperV-Guest-Package
DisplayName      : 
Description      : 
RestartRequired  : Possible
State            : Enabled
CustomProperties  : 

FeatureName      : MicrosoftWindowsPowerShellV2Root
DisplayName      : Windows PowerShell 2.0
Description      : Adds or Removes Windows PowerShell 2.0
RestartRequired  : Possible
State            : Enabled
CustomProperties  : 

FeatureName      : MicrosoftWindowsPowerShellV2
DisplayName      : Windows PowerShell 2.0 Engine
Description      : Adds or Removes Windows PowerShell 2.0 Engine
RestartRequired  : Possible
State            : Enabled
CustomProperties  : 

FeatureName      : WorkFolders-Client
DisplayName      : Work Folders Client
Description      : Allows file synchronization with a configured file server.
RestartRequired  : Possible
State            : Enabled
CustomProperties  : 

FeatureName      : MediaPlayback
DisplayName      : Media Features
Description      : Controls media features such as Windows Media Player.
RestartRequired  : Possible
State            : Enabled
CustomProperties  : 

FeatureName      : WindowsMediaPlayer
DisplayName      : Windows Media Player
Description      : Play audio and video files on your local machine and on the Internet.
RestartRequired  : Possible
State            : Enabled
CustomProperties  : 
\softBlockLink : http://go.microsoft.com/fwlink?LinkID=140092
```

**Step 3** . Type the following command into PowerShell and press **Enter** .

```
Disable-WindowsOptionalFeature -FeatureName "FeatureName" -Online
```

**Note:** Replace FeatureName in the above command with the actual FeatureName from Step 2 above.

For example:

```
Disable-WindowsOptionalFeature -FeatureName "Internet-Explorer-Optional-amd64" -O
```

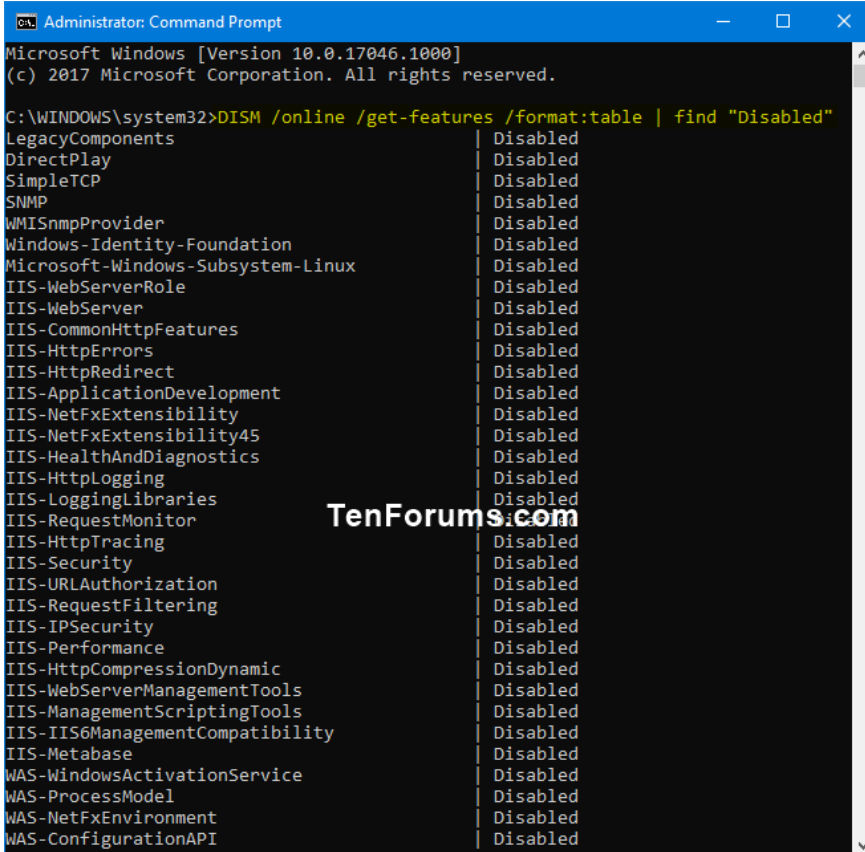
**Step 4.** If prompted to restart the computer, type **Y** and press **Enter** .

## 4. Turn on the Windows feature in the Command Prompt

**Step 1 .** Open Command Prompt as admin.

**Step 2 .** Type the following command into the Command Prompt and press **Enter** . Record **FeatureName** for the disabled Windows feature that you want to reactivate.

```
DISM /online /get-features /format:table | find "Disabled"
```



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17046.1000]
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C:\WINDOWS\system32>DISM /online /get-features /format:table | find "Disabled"
LegacyComponents | Disabled
DirectPlay | Disabled
SimpleTCP | Disabled
SNMP | Disabled
WMISnmpProvider | Disabled
Windows-Identity-Foundation | Disabled
Microsoft-Windows-Subsystem-Linux | Disabled
IIS-WebServerRole | Disabled
IIS-WebServer | Disabled
IIS-CommonHttpFeatures | Disabled
IIS-HttpErrors | Disabled
IIS-HttpRedirect | Disabled
IIS-ApplicationDevelopment | Disabled
IIS-NetFxExtensibility | Disabled
IIS-NetFxExtensibility45 | Disabled
IIS-HealthAndDiagnostics | Disabled
IIS-HttpLogging | Disabled
IIS-LoggingLibraries | Disabled
IIS-RequestMonitor | Disabled
IIS-HttpTracing | Disabled
IIS-Security | Disabled
IIS-URLAuthorization | Disabled
IIS-RequestFiltering | Disabled
IIS-IPSecurity | Disabled
IIS-Performance | Disabled
IIS-HttpCompressionDynamic | Disabled
IIS-WebServerManagementTools | Disabled
IIS-ManagementScriptingTools | Disabled
IIS-IIS6ManagementCompatibility | Disabled
IIS-Metabase | Disabled
WAS-WindowsActivationService | Disabled
WAS-ProcessModel | Disabled
WAS-NetFxEnvironment | Disabled
WAS-ConfigurationAPI | Disabled
```

**Step 3 .** Type the following command into the Command Prompt and press **Enter** .

```
Dism /online /Enable-Feature /FeatureName:"FeatureName" -All
```

**Note:** Replace **FeatureName** in the above command with the actual **FeatureName** from Step 2.

For example:

```
DISM /online /Enable-Feature /FeatureName:"Internet-Explorer-Optional-amd64" -All
```

**Step 4.** Restart the computer when prompted, type **Y**.



```
Administrator: Command Prompt - Dism /online /Enable-Feature /FeatureName:"Internet-Explorer-Optional-amd64" -All
Microsoft Windows [Version 10.0.17046.1000]
(c) 2017 Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>Dism /online /Enable-Feature /FeatureName:"Internet-Explorer-Optional-amd64" -All

Deployment Image Servicing and Management tool
Version: 10.0.17046.1000

Image Version: 10.0.17046.1000

Enabling feature(s)
[=====100.0%=====]
The operation completed successfully.
Restart Windows to complete this operation.
Do you want to restart the computer now? (Y/N)
```

## 5. Turn off the Windows feature in the Command Prompt

**Step 1 .** Open Command Prompt as admin.

**Step 2.** Type the command below into the Command Prompt and press **Enter** . Note **FeatureName** for the Windows feature that you want to turn on.

```
DISM /online /get-features /format:table | find "Enabled"
```

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.17046.1000]
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C:\WINDOWS\system32>DISM /online /get-features /format:table | find "Enabled"
MicrosoftWindowsPowerShellV2Root | Enabled
MicrosoftWindowsPowerShellV2 | Enabled
WorkFolders-Client | Enabled
MediaPlayback | Enabled
WindowsMediaPlayer | Enabled
NetFx3 | Enabled
WCF-Services45 | Enabled
WCF-TCP-PortSharing45 | Enabled
NetFx4-AdvSrvs | Enabled
Printing-PrintToPDFServices-Features | Enabled
Printing-XPSServices-Features | Enabled
MSRDC-Infrastructure | Enabled
SearchEngine-Client-Package | Enabled
SMB1Protocol | Enabled
SMB1Protocol-Client | Enabled
SMB1Protocol-Deprecation | Enabled
Xps-Foundation-Xps-Viewer | Enabled
Windows-Defender-Default-Definitions | Enabled
Printing-Foundation-Features | Enabled
FaxServicesClientPackage | Enabled
Printing-Foundation-InternetPrinting-Client | Enabled
Microsoft-Hyper-V-All | Enabled
Microsoft-Hyper-V | Enabled
Microsoft-Hyper-V-Tools-All | Enabled
Microsoft-Hyper-V-Management-PowerShell | Enabled
Microsoft-Hyper-V-Management-Clients | Enabled
Microsoft-Hyper-V-Hypervisor | Enabled
Microsoft-Hyper-V-Services | Enabled
SmbDirect | Enabled
Microsoft-Windows-NetFx3-OC-Package | Enabled
Microsoft-Windows-NetFx4-US-OC-Package | Enabled
Microsoft-Windows-NetFx3-WCF-OC-Package | Enabled
Microsoft-Windows-NetFx4-WCF-US-OC-Package | Enabled
Internet-Explorer-Optional-amd64 | Enabled

C:\WINDOWS\system32>
```

**Step 3** . Type the following command into the Command Prompt and press **Enter** .

```
DISM /online /Disable-Feature /FeatureName:"FeatureName"
```

**Note:** Replace **FeatureName** in the above command with the actual **FeatureName** from Step 2.

**Step 4** . Restart the computer by typing **Y**.

I wish you successful implementation!

You finished reading the article "**How to enable or disable Windows features on Windows 10**" edited by the [TipsMake](#) team. We hope this article has provided you with many useful tech tips and tricks. You can search for similar articles on tips and guides. Thank you for reading and for following us regularly.