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## Installing docker on windows 2016



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🕒 March 28, 2017   Posted by: Loges   Category: Blog, Containers

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## Installing docker on windows 2016

In this blog, we will show you the step-by-step to Installing docker in windows 2016.

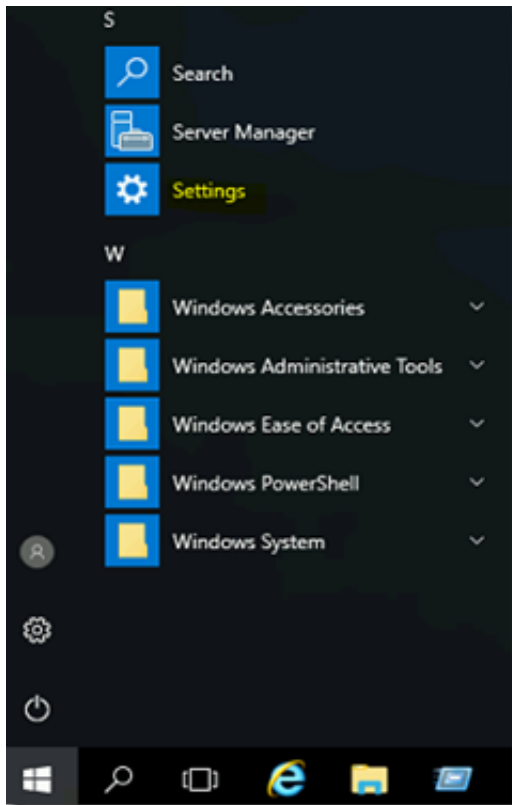
### INSTALLING REQUIREMENTS

- ◆ Need a **windows 2016** GUI physical host (or) VM.
- ◆ Container Service required (This will installed while installing the docker service)

*Note : We are installing the docker service in VM for this demonstration*

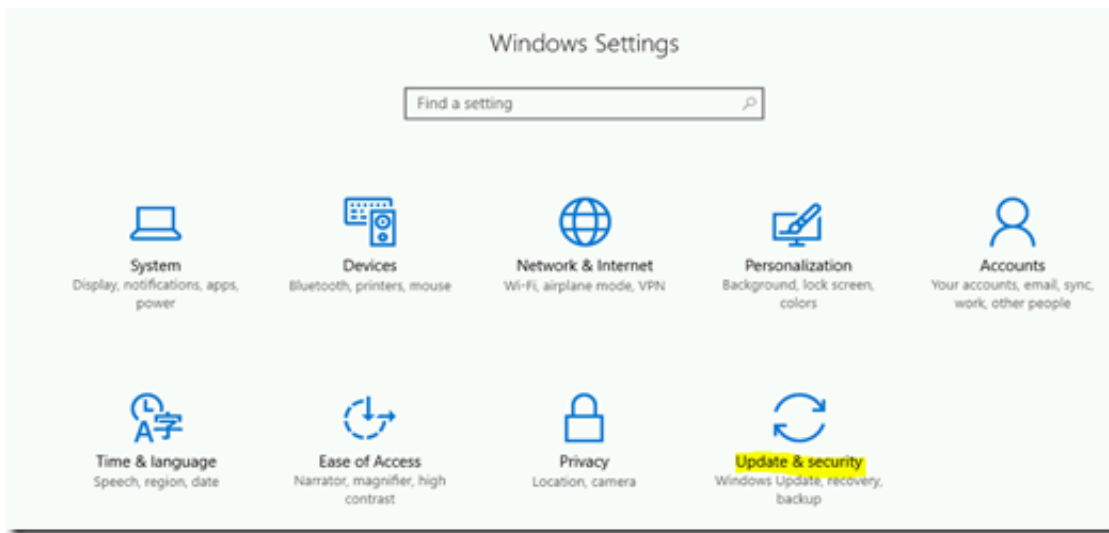
## VERIFYING WINDOWS UPDATES

- ◆ Go to start menu and click on **settings**.



(<https://www.assistanz.com/wp-content/uploads/2017/03/image-99.png>)

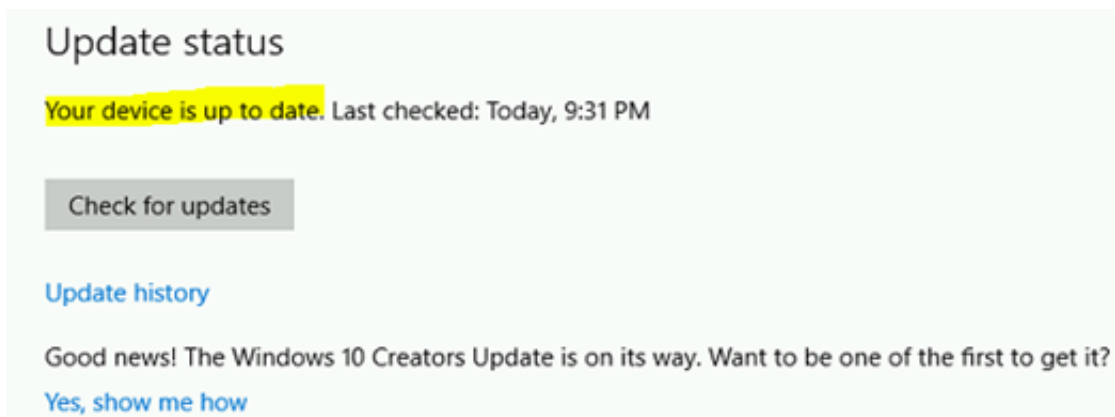
- ◆ Then click on the **update & security** option.



(<https://www.assistanz.com>)

content/uploads/2017/03/image-100.png)

- ◆ Make sure that your container host has completely update-to-date.

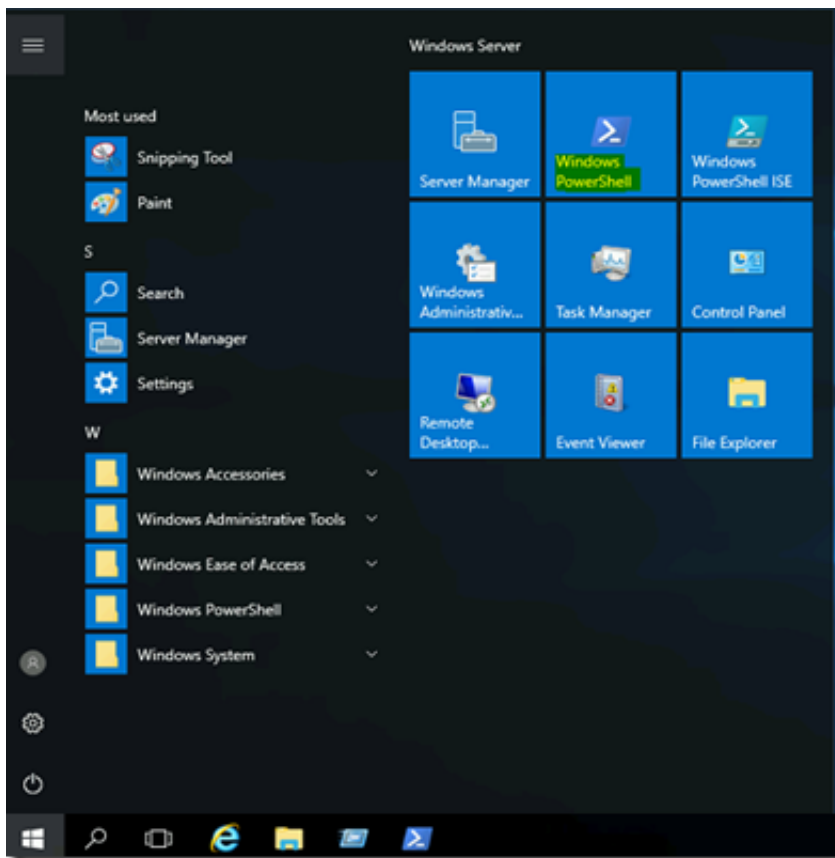


(<https://www.assistanz.com>)

content/uploads/2017/03/image-101.png)

## INSTALLING NUGET PROVIDER

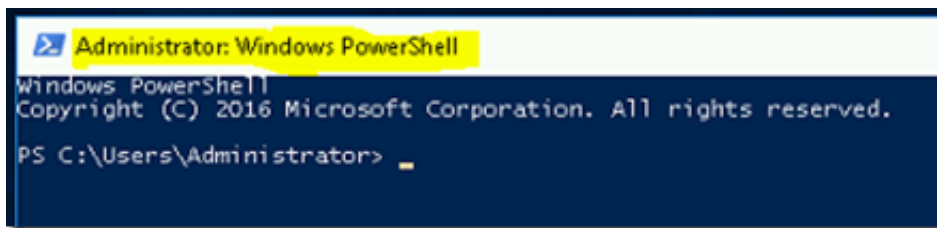
- ◆ Go to start menu and click on **PowerShell** icon.



(<https://www.assistanz.com/wp-content/uploads>

102.png)

- ◆ Make sure that you are running PowerShell as administrator.



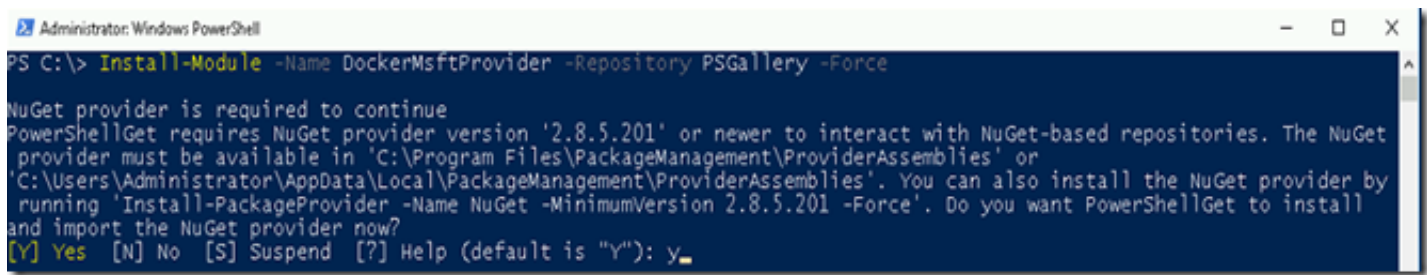
(<https://www.assistanz.com/wp->

content/uploads/2017/03/image-103.png)

- ◆ Now install the Nuget PowerShell module using below command.

**Install-Module -Name DockerMsftProvider -Repository PSGallery -Force**

- ◆ It will prompt us to install NUGET provider. Type Y and press enter.

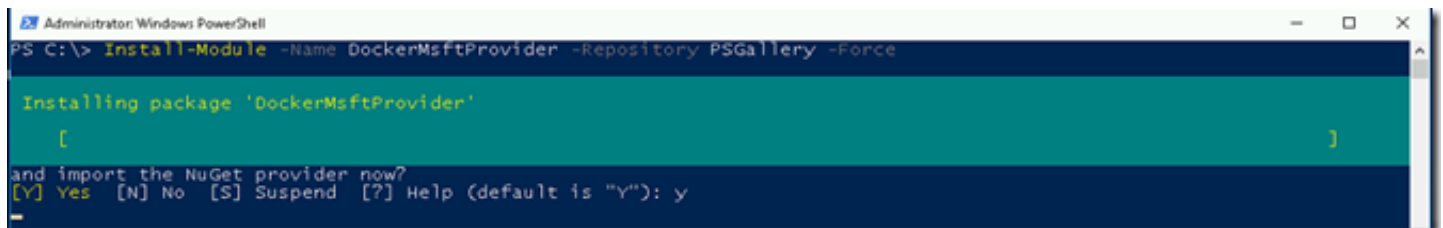


```
Administrator: Windows PowerShell
PS C:\> Install-Module -Name DockerMsftProvider -Repository PSGallery -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories. The NuGet
provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Administrator\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet provider by
running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want PowerShellGet to install
and import the NuGet provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
```

(<https://www.assistanz.com/wp-content/uploads/2017/03/image-104.png>)

- ◆ Packages will start installing

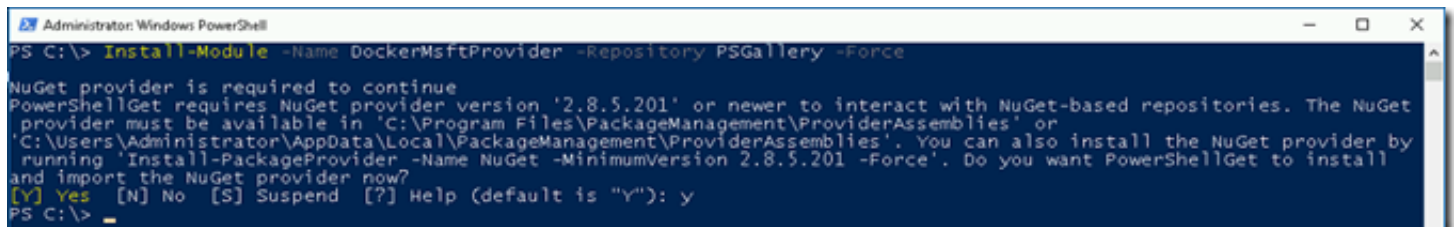


```
Administrator: Windows PowerShell
PS C:\> Install-Module -Name DockerMsftProvider -Repository PSGallery -Force

Installing package 'DockerMsftProvider'
[
and import the NuGet provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
```

(<https://www.assistanz.com/wp-content/uploads/2017/03/image-105.png>)

- ◆ Once it's completed, it will display the PowerShell prompt.



```
Administrator: Windows PowerShell
PS C:\> Install-Module -Name DockerMsftProvider -Repository PSGallery -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories. The NuGet
provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Administrator\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet provider by
running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want PowerShellGet to install
and import the NuGet provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
PS C:\>
```

(<https://www.assistanz.com/wp-content/uploads/2017/03/image-106.png>)

## INSTALLING DOCKER SERVICE

- ◆ From the PowerShell window, execute the below command to install docker service.

**Install-Package -Name docker -ProviderName DockerMsftProvider -verbose**

```
PS C:\> Install-Package -Name docker -ProviderName DockerMsftProvider -verbose
VERBOSE: Using the provider 'DockerMsftProvider' for searching packages.
```

(<https://www.assistanz.com/wp-content/uploads/2017/03/image-107.png>)

- ◆ As we need to trust this package by typing **Y** to continue the installation.

```
PS C:\> Install-Package -Name docker -ProviderName DockerMsftProvider -verbose
VERBOSE: Using the provider 'DockerMsftProvider' for searching packages.
VERBOSE: Download size: 0MB
VERBOSE: Free space on the drive: 14089.53MB
VERBOSE: Downloading https://dockermsft.blob.core.windows.net/dockercontainer/DockerMsftIndex.json to
C:\Users\ADMINI~1\AppData\Local\Temp\2\DockerMsftProvider\DockerDefault_DockerSearchIndex.json
VERBOSE: About to download
VERBOSE: Finished downloading
VERBOSE: Downloaded in 0 hours, 0 minutes, 2 seconds.
VERBOSE: Performing the operation "Install Package" on target "Package 'Docker' version '17.03.0-ee' from
'DockerDefault'.".
The package(s) come(s) from a package source that is not marked as trusted.
Are you sure you want to install software from 'DockerDefault'?
[Y] Yes [A] Yes to All [N] No [L] No to All [S] Suspend [?] Help (default is "N"): y
```

(<https://www.assistanz.com/wp-content/uploads/2017/03/image-108.png>)

- ◆ Now it will install the **windows containers** feature and install the docker service. We need to restart the window complete the installation.

```
VERBOSE: Installing Containers...
VERBOSE: Installed containers
VERBOSE: Download size: 13.38MB
VERBOSE: Free space on the drive: 14065.98MB
VERBOSE: Downloading https://dockermsft.blob.core.windows.net/dockercontainer/docker-17-03-0-ee.zip to
C:\Users\ADMINI~1\AppData\Local\Temp\2\DockerMsftProvider\Docker-17-03-0-ee.zip
VERBOSE: About to download
VERBOSE: Finished downloading
VERBOSE: Downloaded in 0 hours, 0 minutes, 37 seconds.
VERBOSE: Verifying Hash of the downloaded file.
VERBOSE: Hash verified!
VERBOSE: Found C:\Users\ADMINI~1\AppData\Local\Temp\2\DockerMsftProvider\Docker-17-03-0-ee.zip to install.
VERBOSE: Trying to unzip : C:\Users\ADMINI~1\AppData\Local\Temp\2\DockerMsftProvider\Docker-17-03-0-ee.zip
VERBOSE: Preparing to expand...
VERBOSE: Adding 'C:\Program Files\docker\'.
VERBOSE: Created 'C:\Program Files\docker\docker.exe'.
VERBOSE: Created 'C:\Program Files\docker\dockerd.exe'.
VERBOSE: Trying to enable the docker service...
VERBOSE: Removing the archive: C:\Users\ADMINI~1\AppData\Local\Temp\2\DockerMsftProvider\Docker-17-03-0-ee.zip
WARNING: A restart is required to start docker service. Please restart your machine.
WARNING: After the restart please start the docker service.

Name                Version          Source           Summary
----                -
Docker              17.03.0-ee      DockerDefault    Contains Docker EE for use with Windows Server 201
```

(<https://www.assistanz.com/wp-content/uploads/2017/03/image-109.png>)

- ◆ Once server back to online, get the status of docker service using below command.

**get-service docker**

```
Administrator: Windows PowerShell
PS C:\> get-service docker

Status      Name      DisplayName
-----
Stopped     Docker    docker

PS C:\> _
```

([https://www.assistanz.com/wp-](https://www.assistanz.com/wp-content/uploads/2017/03/image-110.png)

content/uploads/2017/03/image-110.png)

- ◆ To start the docker service, run the below command.

**start-service docker**

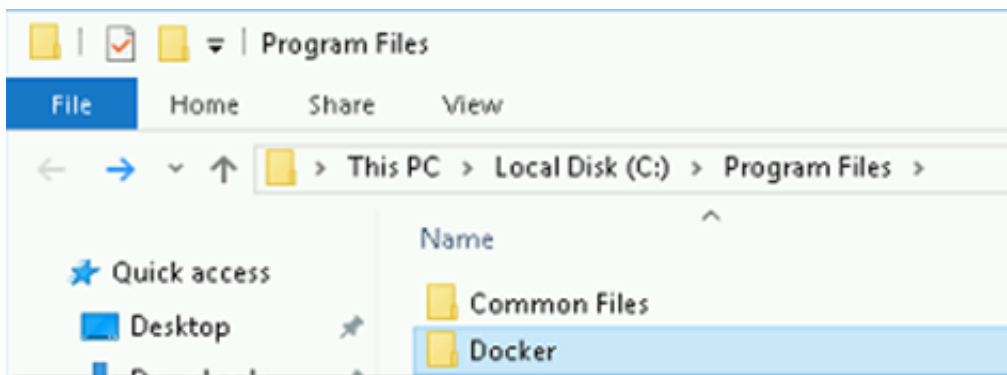
```
PS C:\> start-service docker
WARNING: Waiting for service 'docker (Docker)' to start...
PS C:\> _
```

([https://www.assistanz.com/wp-](https://www.assistanz.com/wp-content/uploads/2017/03/image-111.png)

content/uploads/2017/03/image-111.png)

## VERIFYING INSTALLATION

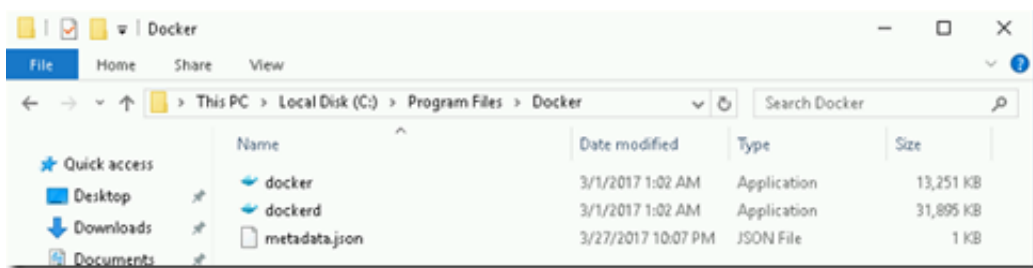
- ◆ Go to **C:\Program Files\** folder and you will able to find the **Docker** folder in it.



([https://www.assistanz.com/wp-](https://www.assistanz.com/wp-content/uploads/2017/03/image-112.png)

content/uploads/2017/03/image-112.png)

- ◆ You will be able to find **docker.exe**, **dockerd.exe** and **metadata.json** files inside this folder.



([https://www.assistanz.com/wp-](https://www.assistanz.com/wp-content/uploads/2017/03/image-113.png)

[content/uploads/2017/03/image-113.png](https://www.assistanz.com/wp-content/uploads/2017/03/image-113.png))

- ◆ Go to PowerShell and execute the below command to find the docker version

### docker version

```
Administrator: Windows PowerShell
PS C:\> docker version
Client:
Version:      17.03.0-ee-1
API version:  1.26
Go version:   go1.7.5
Git commit:   9094a76
Built:        Wed Mar  1 00:49:51 2017
OS/Arch:      windows/amd64

Server:
Version:      17.03.0-ee-1
API version:  1.26 (minimum version 1.24)
Go version:   go1.7.5
Git commit:   9094a76
Built:        Wed Mar  1 00:49:51 2017
OS/Arch:      windows/amd64
Experimental: false
PS C:\> _
```

([https://www.assistanz.com/wp-](https://www.assistanz.com/wp-content/uploads/2017/03/image-114.png)

[content/uploads/2017/03/image-114.png](https://www.assistanz.com/wp-content/uploads/2017/03/image-114.png))

It shows both docker client & docker server (engine) versions.

We have successfully installed the docker service in windows 2016.

### Video