**Setup - Windows Server 2016**

## Install Docker EE

**Windows Server 1709**

Docker Universal Control Plane is not currently supported on Windows Server 1709 due to image incompatibility issues. To use UCP, for now, use the current LTSB Windows release and not 1709.

Docker EE for Windows requires Windows Server 2016 or later. See [What to know before you install](https://docs.docker.com/install/windows/docker-ee/#what-to-know-before-you-install) for a full list of prerequisites.

1. Open a PowerShell command prompt, and type the following commands.
2. Install-Module DockerMsftProvider -Force
3. Install-Package Docker -ProviderName DockerMsftProvider -Force
4. Check if a reboot is required, and if yes, restart your instance:
5. (Install-WindowsFeature Containers).RestartNeeded

If the output of this command is **Yes**, then restart the server with:

Restart-Computer

1. Test your Docker EE installation by running the hello-world container.
2. docker container run hello-world:nanoserver
3. Unable to find image 'hello-world:nanoserver' locally
4. nanoserver: Pulling from library/hello-world
5. bce2fbc256ea: Pull complete
6. 3ac17e2e6106: Pull complete
7. 8cac44e17f16: Pull complete
8. 5e160e4d8db3: Pull complete
9. Digest: sha256:25eac12ba40f7591969085ab3fb9772e8a4307553c14ea72d0e6f98b2c8ced9d
10. Status: Downloaded newer image for hello-world:nanoserver
11. Hello from Docker!
12. This message shows that your installation appears to be working correctly.
13. <snip>

### (optional) Make sure you have all required updates

Some advanced Docker features, such as swarm mode, require the fixes included in [KB4015217](https://support.microsoft.com/en-us/help/4015217/windows-10-update-kb4015217) (or a later cumulative patch).

sconfig

Select option 6) Download and Install Updates.

## Use a script to install Docker EE

Use the following steps when you want to install manually, script automated installs, or install on air-gapped systems.

1. In a PowerShell command prompt, download the installer archive on a machine that has a connection.
2. # On an online machine, download the zip file.
3. invoke-webrequest -UseBasicparsing -Outfile docker-17.06.2-ee-8.zip https://download.docker.com/components/engine/windows-server/17.06/docker-17.06.2-ee-8.zip
4. Copy the zip file to the machine where you want to install Docker. In a PowerShell command prompt, use the following commands to extract the archive, register, and start the Docker service.
5. # Extract the archive.
6. Expand-Archive docker-17.06.2-ee-8.zip -DestinationPath $Env:ProgramFiles
7. # Clean up the zip file.
8. Remove-Item -Force docker-17.06.2-ee-8.zip
9. # Install Docker. This requires rebooting.
10. $null = Install-WindowsFeature containers
11. # Add Docker to the path for the current session.
12. $env:path += ";$env:ProgramFiles\docker"
13. # Optionally, modify PATH to persist across sessions.
14. $newPath = "$env:ProgramFiles\docker;" +
15. [Environment]::GetEnvironmentVariable("PATH",
16. [EnvironmentVariableTarget]::Machine)
17. [Environment]::SetEnvironmentVariable("PATH", $newPath,
18. [EnvironmentVariableTarget]::Machine)
19. # Register the Docker daemon as a service.
20. dockerd --register-service
21. # Start the Docker service.
22. Start-Service docker
23. Test your Docker EE installation by running the hello-world container.
24. docker container run hello-world:nanoserver

## Install a specific version

To install a specific Docker version, you can use the MaximumVersion,MinimumVersion or RequiredVersionflags. For example:

Install-Package -Name docker -ProviderName DockerMsftProvider -Force -RequiredVersion 17.06.2-ee-5

...

Name Version Source Summary

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Docker 17.06.2-ee-5 Docker Contains Docker EE for use with Windows Server 2016...

## Update Docker EE

To update Docker EE on Windows Server 2016:

Install-Package -Name docker -ProviderName DockerMsftProvider -Update -Force

If Docker Universal Control Plane (UCP) is installed, run the [UCP installation script for Windows](https://docs.docker.com/datacenter/ucp/2.2/guides/admin/configure/join-windows-worker-nodes/#run-the-windows-node-setup-script).

Start the Docker service:

Start-Service Docker