

# How to install Docker on Fedora 30/29/28

By [Josphat Mutai](#) - May 4, 2019

Welcome to our guide on how to install Docker on Fedora 30 / Fedora 29 / Fedora 28. The release of Docker we'll install is Docker Community Edition (CE). Docker is a leading container runtime engine that allows you to package your applications with all of its dependencies into a standardized unit for software development.

Follow the steps below to have the latest release of Docker installed on your Fedora 29.

## Step 1: Update your system

We always start our installations by updating and upgrading OS packages. On Fedora, this can be easily done by running the command:

```
sudo dnf -y update
```

It is recommended to reboot your system after an upgrade

```
sudo reboot
```

## Step 2: Add the Docker repository to Fedora 29/28

After upgrading system packages and rebooting the server, proceed to add Fedora repository to your system

```
sudo dnf -y install dnf-plugins-core
```

This command will set up the stable Docker repository.

```
sudo dnf config-manager \
  --add-repo \
  https://download.docker.com/linux/fedora/docker-ce.repo
```

[Optional: Enable the nightly or test repositories.](#)

The nightly and test channels are disabled by default. You can enable them as shown below.

The following command enables the **nightly** repository.

```
sudo dnf config-manager --set-enabled docker-ce-nightly
```

To enable the **test** channel, run the following command:

```
sudo dnf config-manager --set-enabled docker-ce-test
```

To disable them, replace `--set-enabled` flag with `--set-disabled`.

### Step 3: Install the latest Docker Engine on Fedora 30/29/28

Now that you have your repository ready, install the latest stable release of Docker on your machine by running:

```
sudo dnf install docker-ce docker-ce-cli containerd.io
```

Docker will be installed but not started. To start the docker service, run:

```
sudo systemctl enable --now docker
```

You can check status with:

```
$ sudo systemctl status docker
```

```
● docker.service - Docker Application Container Engine
   Loaded: loaded (/usr/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Sun 2019-03-10 06:28:23 UTC; 9s ago
     Docs: https://docs.docker.com
   Main PID: 11771 (dockerd)
    Tasks: 8
   Memory: 30.4M
   CGroup: /system.slice/docker.service
           └─11771 /usr/bin/dockerd -H fd:// --containerd=/run/containerd

Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.077345966
```

```
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.078990560
```

```
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.079189297
```

```
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.080348031
```

```
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.000340031"
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.267922830"
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.379401688"
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.425395112"
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.425557563"
Mar 10 06:28:23 fed29 systemd[1]: Started Docker Application Container En
Mar 10 06:28:23 fed29 dockerd[11771]: time="2019-03-10T06:28:23.493653902"
```

The `docker` group is created, but no users are added to the group. Add your user to this group to run docker commands without `sudo`.

```
sudo usermod -aG docker $(whoami)
```

Logout and Login again to use Docker without `sudo`. The version of Docker installed can be checked with:

```
$ docker version
```

Client:

```
Version:      18.09.3
API version:  1.39
Go version:   go1.10.8
Git commit:   774a1f4
Built:        Thu Feb 28 06:34:10 2019
OS/Arch:      linux/amd64
Experimental: false
```

Server: Docker Engine - Community

Engine:

```
Version:      18.09.3
API version:  1.39 (minimum version 1.12)
Go version:   go1.10.8
Git commit:   774a1f4
Built:        Thu Feb 28 06:02:24 2019
OS/Arch:      linux/amd64
Experimental: false
```


This shows both Client and Engine versions.

## Step 4: Pull Test docker image

The last step is to test your installation by downloading a test docker container.


```
$ docker pull alpine
Using default tag: latest
latest: Pulling from library/alpine

8e402f1a9c57: Pull complete
Digest: sha256:644fcb1a676b5165371437feaa922943aaf7afcfa8bfee4472f6860aad1
Status: Downloaded newer image for alpine:latest
```



Verify that Docker CE is installed correctly by running the alpine image.

```
$ docker run -it --rm alpine /bin/sh
/ # apk update
fetch http://dl-cdn.alpinelinux.org/alpine/v3.9/main/x86_64/APKINDEX.tar.g
fetch http://dl-cdn.alpinelinux.org/alpine/v3.9/community/x86_64/APKINDEX.
v3.9.2-1-g592d872fb8 [http://dl-cdn.alpinelinux.org/alpine/v3.9/main]
v3.9.2-2-ge7dc3349a9 [http://dl-cdn.alpinelinux.org/alpine/v3.9/community]
OK: 9754 distinct packages available
/ # exit
```



That's all. You now have Docker running on your Fedora system. The next reading is:

[Install and Use Docker Compose on Fedora](#)

To setup a Docker registry, check our guide on how to [Install and Use Docker Registry on Fedora](#).

Please check our guide on managing Docker containers through a web interface:

[Install Docker UI manager – Portainer](#)

For easy monitoring, you can use [Ctop – Top command for container metrics](#)

For installation of Docker on other systems, use:

[How to install Docker CE on Ubuntu / Debian / Fedora / Arch / CentOS](#)

Don't forget to check other Fedora articles available on our website.

[How to Install Apache Tomcat 9 on CentOS 7 / Fedora 29 / Fedora 28](#)

[How to Install Django on Fedora 29 / Fedora 28](#)

[How to install LAMP Stack on Fedora 29 / Fedora 28](#)

[Install and Configure phpMyAdmin on Fedora](#)

[How to install PostgreSQL 11 on Fedora 29 / Fedora 28](#)

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