**Installing Docker For CentOS 7.8**

Before you install Docker Engine for the first time on a new host machine, you need to set up the Docker repository. Afterward, you can install and update Docker from the repository.

* **Setup the Repository**

Install the yum-utils package (which provides the yum-config-manager utility) and set up the **stable** repository.

$ sudo yum install -y yum-utils

$ sudo yum-config-manager \ --add-repo \ <https://download.docker.com/linux/centos/docker-ce.repo>

**2. Install Docker Engine**

Install the latest version of Docker Engine and containerd, or go to the next step to install a specific version:

$ sudo yum install docker-ce docker-ce-cli containerd.io

If prompted to accept the GPG key, verify that the fingerprint matches 060A 61C5 1B55 8A7F 742B 77AA C52F EB6B 621E 9F35, and if so, accept it.

**Got Multiple Docker Repository?**

If you have multiple Docker repositories enabled, installing or updating without specifying a version in the $ yum install or $ yum update command always installs the highest possible version, which may not be appropriate for your stability needs.

* To install a *specific version* of Docker Engine, list the available versions in the repo, then select and install:

List and sort the versions available in your repo. This example sorts results by version number, highest to lowest, and is truncated:

$ yum list docker-ce --showduplicates | sort -r

docker-ce.x86\_64 3:18.09.1-3.el7 docker-ce-stable

docker-ce.x86\_64 3:18.09.0-3.el7 docker-ce-stable

docker-ce.x86\_64 18.06.1.ce-3.el7 docker-ce-stable

docker-ce.x86\_64 18.06.0.ce-3.el7 docker-ce-stable

The list returned depends on which repositories are enabled, and is specific to your version of CentOS (indicated by the .el7 suffix in this example).

* Install a specific version by its fully qualified package name, which is the package name (docker-ce) plus the version string (2nd column) starting at the first colon (:), up to the first hyphen, separated by a hyphen (-). For example, docker-ce-18.09.1.

$ sudo yum install docker-ce-<VERSION\_STRING> docker-ce-cli-<VERSION\_STRING> containerd.io

Docker is installed but not started. The docker group is created, but no users are added to the group.

* Start Docker.

$ sudo systemctl start docker

Verify that Docker Engine is installed correctly by running the hello-world image.

$ sudo docker run hello-world

This command downloads a test image and runs it in a container. When the container runs, it prints an informational message and exits.

Docker Engine is installed and running. You need to use sudo to run Docker commands. Continue to [Linux postinstall](https://docs.docker.com/engine/install/linux-postinstall/) to allow non-privileged users to run Docker commands and for other optional configuration steps.

**Installing Docker Compose on CentOS 7.8**

Downloading docker compose from Github and give it the executable permission

$ sudo curl -L "[https://github.com/docker/compose/releases/download/1.23.2/docker-compose-$(uname -s)-$(uname -m)](https://github.com/docker/compose/releases/download/1.23.2/docker-compose-$(uname%20-s)-$(uname%20-m))" -o /bin/docker-compose

$ sudo chmod +x /bin/docker-compose