

# Installing Docker CE on Ubuntu

## **Goal:**

The goal of this project is to install Docker CE on an Ubuntu 18.04 system.

## **Instructions:**

### **Become the root User**

Root privileges are required to install and remove software. If a root password is set on your system and you know it, use the `su` command to switch to the root user. Execute the following command and supply the root password when prompted:

```
su -
```

If `sudo` is configured on your system, use it to switch to the root user:

```
sudo -i
```

To confirm that you are currently the root user, execute the following command:

```
whoami
```

If anything other than "root" is returned, please try again until "root" is returned.

### **Remove Any Existing Versions of Docker**

To ensure clean installation of Docker CE, remove older versions of Docker from your system to prevent potential issues:

```
apt remove docker docker-engine docker.io containerd runc
```

You can safely ignore any warnings or errors from the above command. You will likely see warnings if no older versions of docker were installed on your system.

## Add the Official Docker Repository

Make sure that all your packages are up-to-date by executing these commands:

```
apt update  
apt upgrade -y
```

Next, ensure the prerequisites are installed by running the following commands:

```
apt install -y apt-transport-https ca-certificates curl  
apt install -y gnupg-agent software-properties-common
```

NOTE: Many times these packages are already installed. If that's the case, apt will simply report that they packages are already installed.

Install the GPG key provided by Docker:

```
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | apt-key add -
```

Verify that the correct key with this command:

Verify that you've installed the key with the fingerprint of:

9DC8 5822 9FC7 DD38 854A E2D8 8D81 803C 0EBF CD88

Do this by searching for the last 8 characters of the fingerprint.

```
apt-key fingerprint 0EBFCD88
```

If a key is returned from that command, then the correct key was installed and you can proceed.

Now, add the repository with this command:

```
add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu $(lsb_release -cs) stable"
```

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## Install Docker CE

Update your local packages index:

```
apt update
```

NOTE: If you see errors such as "The following signatures couldn't be verified because the public key is not available," then re-run the curl command from above to install the GPG key properly.

Install the Docker Engine and its associated packages:

```
apt install -y docker-ce docker-ce-cli containerd.io
```

## Test the Installation

Check that the Docker client is available and working by running the following command:

```
docker version
```