

Run the following command to uninstall all conflicting packages:

```
for pkg in docker.io docker-doc docker-compose docker-compose-v2 podman-docker containerd runc; do  
sudo apt-get remove $pkg; done
```

Set up Docker's apt repository.

Add Docker's official GPG key:

```
sudo apt-get update
```

```
sudo apt-get install ca-certificates curl
```

```
sudo install -m 0755 -d /etc/apt/keyrings
```

```
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
```

```
sudo chmod a+r /etc/apt/keyrings/docker.asc
```

Add the repository to Apt sources:

```
echo \
```

```
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc]  
https://download.docker.com/linux/ubuntu \
```

```
$(. /etc/os-release && echo "${UBUNTU_CODENAME:-$VERSION_CODENAME}") stable" | \
```

```
sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

```
sudo apt-get update
```

To install the latest docker version, run:

```
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-plugin
```

Verify that the installation is successful by running the hello-world image:

```
sudo docker run hello-world
```

Check docker service status

sudo systemctl status docker

Add the current user (ubuntu in my case) to docker user group

sudo usermod -aG docker ubuntu

Run jenkins as a Docker Container

docker run -d -p 8080:8080 --restart=on-failure jenkins/jenkins:lts-jdk17

Retrieve the initial password to login to jenkins UI on <http://public-ip-of-ec2-instance:8080>

docker exec container-id cat /var/jenkins_home/secrets/initialAdminPassword