

## Docker basic usage

### Docker installation

Using package manager

See <https://docs.docker.com/engine/installation/linux/ubuntu/>

Using binaries

See <https://docs.docker.com/engine/installation/binaries/>

### Post-installation steps for Linux

See <https://docs.docker.com/engine/installation/linux/linux-postinstall/>

### How to run Jenkins Docker image

```
docker run --name jenkins_server -p 8080:8080 -p 50000:50000 jenkins
```

[https://hub.docker.com/\\_/jenkins/](https://hub.docker.com/_/jenkins/)

### How to run GoCD Server Docker image

```
docker run --name gocd_server -p 8153:8153 -p 8154:8154 gocd/gocd-server:v17.3.0
```

<https://hub.docker.com/r/gocd/gocd-server/>

### How to run GoCD Agent Docker image

```
docker run -it -e GO_SERVER_URL=https://$(docker inspect --format='{{(index (index .NetworkSettings.IPAddress))}}' gocd_server):$(docker inspect --format='{{(index (index .NetworkSettings.Ports "8154/tcp") 0).HostPort}}' gocd_server)/go-gocd/gocd-agent-ubuntu-16.04:v17.3.0
```

<https://hub.docker.com/r/gocd/gocd-agent-ubuntu-16.04/>

### How to run Jenkins BlueOcean Docker image

```
docker run --name blue_ocean -p 8080:8080 jenkinsci/blueocean
```

<https://hub.docker.com/r/jenkinsci/blueocean/>

### How to run Sonarqube Docker image

```
docker run --name sonarqube -p 9000:9000 -p 9092:9092 sonarqube
```

[https://hub.docker.com/\\_/sonarqube/](https://hub.docker.com/_/sonarqube/)

### How to run container in background and print container ID

Just add --detach, -d option:

```
docker run --name jenkins_server -d -p 8080:8080 -p 50000:50000  
jenkins
```

### How to list containers

```
$ docker ps
```

### How to see logs of a container

```
$ docker logs <container_name|container_id>
```

### How start one stopped containers

```
$ docker start <container_name|container_id>
```

### How to stop one running containers

```
$ docker stop <container_name|container_id>
```

See more about base commands for the Docker CLI:

<https://docs.docker.com/edge/engine/reference/commandline/docker>