**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/>

**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/>

**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>