

Downloading and running Jenkins in Docker

```
root@DESKTOP-80OG2HF:JENKINS# docker network create jenkins
e97226cb6edee721a2233aea907b52f005e18747c1119ea80ae67272152b0016
root@DESKTOP-80OG2HF:JENKINS# docker run \
--name jenkins-docker \
--rm \
--detach \
--privileged \
--network jenkins \
--network-alias docker \
--env DOCKER_TLS_CERTDIR=/certs \
--volume jenkins-docker-certs:/certs/client \
--volume jenkins-data:/var/jenkins_home \
--publish 2376:2376 \
docker:dind \
--storage-driver overlay2
Unable to find image 'docker:dind' locally
dind: Pulling from library/docker
4abcf2066143: Already exists
6a25a43dc0fd: Pull complete
4f4fb700ef54: Pull complete
8453b14f8be1: Pull complete
a5449a857d65: Pull complete
3dde2c9dd264: Pull complete
44b786ed2257: Pull complete
36fa2b1e15e2: Pull complete
4b17757db9c4: Pull complete
aa8480c0a982: Pull complete
97024fa66b69: Pull complete
alc9909845b0: Pull complete
ab157ace34a1: Pull complete
b94f5802f12d: Pull complete
e8f3ade57aa7: Pull complete
a6a8e9699976: Pull complete
Digest: sha256:0d70c541ee98e66b8f7ece8c0e9f7910732466e337a9087c2ac2868ef0775092
Status: Downloaded newer image for docker:dind
8a61808a0a9850623fac47cab7c32a583e401eec4e39bf1caff293b61852e636
```

root@DESKTOP-80OG2HF:JENKINS# vim Dockerfile

```
root@DESKTOP-80OG2HF:JENKINS# cat Dockerfile
FROM jenkins/jenkins:2.440.1-jdk17
USER root
RUN apt-get update && apt-get install -y lsb-release
RUN curl -fsSLo /usr/share/keyrings/docker-archive-keyring.asc \
https://download.docker.com/linux/debian/gpg
RUN echo "deb [arch=$(dpkg --print-architecture) \
signed-by=/usr/share/keyrings/docker-archive-keyring.asc] \
https://download.docker.com/linux/debian \
$(lsb_release -cs) stable" > /etc/apt/sources.list.d/docker.list
RUN apt-get update && apt-get install -y docker-ce-cli
USER jenkins
RUN jenkins-plugin-cli --plugins "blueocean docker-workflow"
```

```
root@DESKTOP-80OG2HF:JENKINS# docker build -t myjenkins-blueocean:2.440.1-1 --load
[+] Building 51.6s (11/11) FINISHED                                docker-container:strange_perlman
-> [internal] load build definition from Dockerfile                0.1s
-> => transferring dockerfile: 603B                                0.0s
-> [internal] load metadata for docker.io/jenkins/jenkins:2.440.1-jdk17 0.8s
-> [internal] load dockerignore                                    0.1s
-> => transferring context: 2B                                       0.0s
-> [1/6] FROM docker.io/jenkins/jenkins:2.440.1-jdk17@sha256:01c0b0cf789fa24253090fccea264df223b5e09b14a0ea59f0847c70bdc0f31c 0.1s
-> => resolve docker.io/jenkins/jenkins:2.440.1-jdk17@sha256:01c0b0cf789fa24253090fccea264df223b5e09b14a0ea59f0847c70bdc0f31c 0.1s
-> CACHED [2/6] RUN apt-get update && apt-get install -y lsb-release 0.0s
-> CACHED [3/6] RUN curl -fsSLo /usr/share/keyrings/docker-archive-keyring.asc https://download.docker.com/linux/debian/gpg 0.0s
-> CACHED [4/6] RUN echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/docker-archive-keyring.asc] \ 0.0s
-> CACHED [5/6] RUN apt-get update && apt-get install -y docker-ce-cli 0.0s
-> CACHED [6/6] RUN jenkins-plugin-cli --plugins "blueocean docker-workflow" 0.0s
-> exporting to docker image format                                50.4s
-> => exporting layers                                              11.3s
-> => exporting manifest sha256:fbb562a1735f1f7040a273f8e4fcd30ea701b2aeecffac392328b9a7870ad9e 0.0s
-> => exporting config sha256:052cb2f29b0e5a61ae88ead04e6163374ba06d74e90218a0511f2e8d8e635870 0.0s
-> => sending tarball                                              39.1s
-> importing to docker                                             21.7s
```

```
root@DESKTOP-80OG2HF:JENKINS# ps aux | grep jenkins
asfiya 25922 0.0 0.0 2472 856 ? Ss 11:07 0:00 /usr/bin/tini -- /usr/local/bin/jenkins.sh
asfiya 25954 5.6 21.0 4604416 833888 ? Sl 11:07 2:43 java -Duser.home=/var/jenkins_home -Djenkins.model.Jenkins.slaveAgentPort=50000 -Dhudson.lifecycle=hudson.lifecycle.ExitLif
ecycle -jar /usr/share/jenkins/jenkins.war
root 86275 0.0 0.0 4028 2004 pts/2 S+ 11:55 0:00 grep --color=auto jenkins
```