Install Jenkins in offline mode on CentOS / RHEL-Docker

* sudo yum update
* **Step 2: Remove Older Docker Versions**

sudo yum remove docker \

 docker-client \

 docker-client-latest \

 docker-common \

 docker-latest \

 docker-latest-logrotate \

 docker-logrotate \

 docker-engine

* **Step 3: Install Required Dependencies**
* sudo yum install -y yum-utils device-mapper-persistent-data lvm2
* **Step 4: Add Docker Repository**
* sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
* **Step 5: Install Docker**
* sudo yum install docker-ce
* **Step 6: Start and Enable Docker**
* sudo systemctl start docker
* sudo systemctl enable docker
* sudo docker --version
* **pull the image from docker hub**
* docker pull jenkins/Jenkins
* docker images
* **Run the docker images**
* docker run -d -p 8080:8080 -p 50000:50000 -v jenkins\_home:/var/jenkins\_home --name jenkins\_container jenkins/Jenkins
* docker logs jenkins\_container
* docker start jenkins\_container
* docker stop jenkins\_container
* docker restart jenkins\_container
* **Get the Container ID or Name:**
* docker ps
* docker exec <container\_id\_or\_name> cat /var/jenkins\_home/secrets/initialAdminPassword
* **Access Jenkins Web Interface:**
* <http://localhost:8080> or localhost

<https://www.linkedin.com/pulse/step-by-step-guide-installing-docker-rhel-9-locally-ujjawal-kumar/>

Install Docker Desktop offline mode on Ubuntu

* Install docker desktop on ubuntu
* <https://docs.docker.com/desktop/install/ubuntu/>
* Download deb package
* Sudo apt -get update
* Cd downloads
* sudo apt-get update
* sudo apt-get install./docker-desktop-<version>-<arch>.deb
* systemctl --user start docker-desktop
* systemctl --user enable docker-desktop
* systemctl --user stop docker-desktop
* sudo apt-get install ./docker-desktop-<version>-<arch>.deb

u.n:-[maheshtemmanaboina@gmail.com](mailto:maheshtemmanaboina@gmail.com)

passwd:-h…5@A

Install Jenkins repo mode on Ubuntu (Docker)

* <https://gist.github.com/desmondmorris/8813160>
* sudo docker pull orchardup/jenc kins
* sudo docker run -d -p 80:8080 orchardup/jenkins

Install Jenkins repo mode on Ubuntu

* sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
* https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
* echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
* https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
* /etc/apt/sources.list.d/jenkins.list > /dev/null
* sudo apt-get update
* sudo apt-get install jenkins

or

## [Step 1 — Installing Jenkins](https://www.digitalocean.com/community/tutorials/how-to-install-jenkins-on-ubuntu-22-04#step-1-installing-jenkins) on ubuntu 22

* wget -q -O - https://pkg.jenkins.io/debian-stable/jenkins.io.key |sudo gpg --dearmor -o /usr/share/keyrings/jenkins.gpg
* sudo sh -c 'echo deb [signed-by=/usr/share/keyrings/jenkins.gpg] http://pkg.jenkins.io/debian-stable binary/ > /etc/apt/sources.list.d/jenkins.list'
* sudo apt update
* sudo apt install Jenkins
* sudo systemctl start jenkins.service
* sudo systemctl status Jenkins

## [Step 3 — Opening the Firewall](https://www.digitalocean.com/community/tutorials/how-to-install-jenkins-on-ubuntu-22-04#step-3-opening-the-firewall)

* sudo ufw allow 8080
* sudo ufw allow OpenSSH
* sudo ufw enable
* sudo ufw status
* http://your\_server\_ip\_or\_domain:8080

Install Jenkins offline mode on Ubuntu (Docker)

* docker network create 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

.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

.Customize the official Jenkins Docker image, by executing the following two steps:

1. Create a Dockerfile with the following content:

FROM jenkins/jenkins:2.426.2-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"

.Build a new docker image from this Dockerfile, and assign the image a meaningful name, such as "myjenkins-blueocean:2.426.2-1":

* docker build -t myjenkins-blueocean:2.426.2-1 .

Run your own myjenkins-blueocean:2.426.2-1 image as a container in Docker using the following [docker run](https://docs.docker.com/engine/reference/run/) command:

.docker run \

--name jenkins-blueocean \

--restart=on-failure \

--detach \

--network jenkins \

--env DOCKER\_HOST=tcp://docker:2376 \

--env DOCKER\_CERT\_PATH=/certs/client \

--env DOCKER\_TLS\_VERIFY=1 \

--publish 8080:8080 \

--publish 50000:50000 \

--volume jenkins-data:/var/jenkins\_home \

--volume jenkins-docker-certs:/certs/client:ro \

myjenkins-blueocean:2.426.2-1

.docker run --name jenkins-blueocean --restart=on-failure --detach \

--network jenkins --env DOCKER\_HOST=tcp://docker:2376 \

--env DOCKER\_CERT\_PATH=/certs/client --env DOCKER\_TLS\_VERIFY=1 \

--publish 8080:8080 --publish 50000:50000 \

--volume jenkins-data:/var/jenkins\_home \

--volume jenkins-docker-certs:/certs/client:ro \

myjenkins-blueocean:2.426.2-1

**How to Install Jenkins on RHEL: A Step-by-Step Guide**

* sudo yum install java-1.8.0-openjdk-devel
* sudo wget -O /etc/yum.repos.d/jenkins.repo https://pkg.jenkins.io/redhat-stable/jenkins.repo
* This will download the Jenkins repository file and save it to the /etc/yum.repos.d directory.
* sudo rpm --import https://pkg.jenkins.io/redhat-stable/jenkins.io.key
* sudo yum install jenkins
* sudo systemctl start jenkins
* http://<your\_server\_IP>:8080

**How to pull the images from hub**

* **docker login**
* Install Jenkins in offline mode on CentOS / RHEL\*
* Visit the Jenkins official download page: <https://www.jenkins.io/download/>
* Download the generic Java package (war file) or the Red Hat package (rpm file) and its dependencies.
* Transfer Files to the Offline Machine:
* Use a method such as SCP, USB drive, or any other means to transfer the downloaded files to the Red Hat machine where you want to install Jenkins.
* On the Offline Machine:
* Install Java:
* Ensure that Java is installed on the machine. You can download the Java package on an online machine and transfer it to the offline machine if needed.
* Install Jenkins:
* If you downloaded the generic Java package (war file), you can run Jenkins using a servlet container like Apache Tomcat. Place the jenkins.war file in the Tomcat's webapps directory and start Tomcat.
* If you downloaded the Red Hat package (rpm file), you can install it using the following command:
* sudo rpm -ivh jenkins-<version>.rpm (through rpm package)
* Start Jenkins Service:
* sudo systemctl start Jenkins
* sudo systemctl enable jenkins
* http://localhost:8080