In this section we are going to see how we can deploy our code on a docker container.

We have already set up GitHub i mean to say we going to pull the code and build with the help of maven and deploy it on your VM.

Instead of VM we are going to deploy it in a docker container.



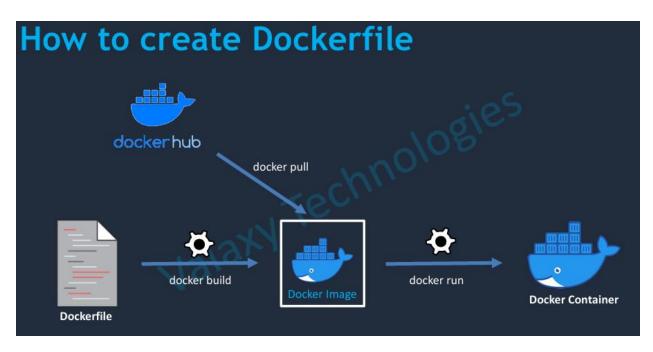
For that we need to setup docker env



1 yum install docker

2 service docker status

- 3 service docker start
- 4 service docker status
- 5 docker images
- 6 docker ps -a
- 7 docker ps
- 8 hostnamectl set-hostname docker
- 9 bash



Two way to create docker container one is pull the image from docker hub create a container and second is create docker file with your basic image and add you own customization and build dockerfile to create image using docker run command you can create your container.

We are pull the image from docker hub and create container

Create Tomcat server.



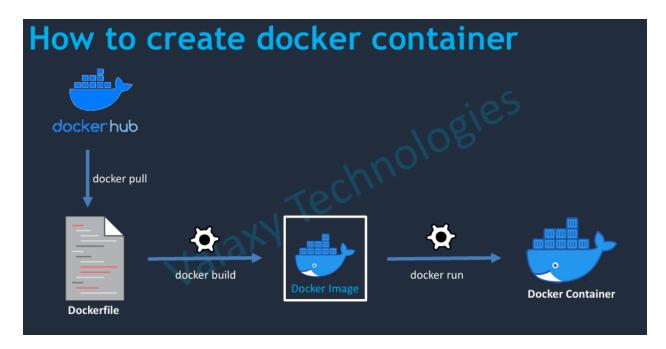
```
[root@docker ~]# history

1 history
2 exit
3 docker pull tomcat
4 docker image
5 docker images
6 docker run -dit --name tomcat-container -p 8081:8080
7 docker images
8 docker run -dit --name tomcat-container -p 8081:8080 tomcat
9 docker ps -a
10 image
11 history
[root@docker ~]# ■
```



Fixing tomcat container issue.





Create a first docker file.



Install tomcat on Centos

Pull centos from dockerhub

- FROM

Install java

- RUN

Create /opt/tomcat directory

- RUN

Change work directory to /opt/tomcat

- WORKDIR

• Download tomcat packages

ADD /RUN

Dockerfile

Extract tar.gz file

- RUN

Rename to tomcat directory

- RUN

• Tell to docker that it runs on port 8080

- EXPOSE

Start tomcat services

CMD

FROM centos:7

RUN yum install java -y

RUN mkdir /opt/tomcat

WORKDIR /opt/tomcat

ADD https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.85/bin/apache-tomcat-9.0.85.tar.gz .

RUN tar -xvzf apache-tomcat-9.0.85.tar.gz

RUN mv apache-tomcat-9.0.85/* /opt/tomcat

EXPOSE 8080

CMD ["/opt/tomcat/bin/catalina.sh","run"]

Docker build

And run the container

Check tomcat UI is accisble or not