1. Launch an EC2 instance for Docker host

2. Install docker on EC2 instance and start services

```
$yum install docker

$service docker start
```

3. create a new user for Docker management and add him to Docker (default) group

```
    $useradd dockeradmin

$passwd dockeradmin

$usermod -aG docker dockeradmin
```

4. Write a Docker file under /opt/docker

```
$mkdir /opt/docker


### vi Dockerfile

# Pull base image

From tomcat:8-jre8


# Maintainer

MAINTAINER "ISE"


# copy war file on to container

COPY ./webapp.war /usr/local/tomcat/webapps
```

5. Login to Jenkins console and add Docker server to execute commands from Jenkins

Manage Jenkins --> Configure system --> Publish over SSH --> add Docker server and credentials

6. Create Jenkins job

A) Source Code Management

Repository : url from git hub

Branches to build : */master

B) Build Root POM: pom.xml

Goals and options : clean install package

C) send files or execute commands over SSH Name: docker_host

Source files : webapp/target/*.war Remove prefix : webapp/target Remote directory : //opt//docker

Exec command[s] :

```
docker stop runshaw_demo;

docker rm -f runshaw_demo;

docker image rm -f valaxy_demo;

cd /opt/docker;

docker build -t valaxy_demo .
```

D) send files or execute commands over SSH

Name: docker_host

Exec command : docker run -d --name valaxy_demo -p 8090:8080 runshaw_demo

7. Login to Docker host and check images and containers. (no images and containers)

8. Execute Jenkins job

9. check images and containers again on Docker host. This time an image and container get creates through Jenkins job

10. Access web application from browser which is running on container

<docker_host_Public_IP>:8090

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