# Playbook to deploy .war using Docker and Docker Compose

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- hosts: qalinux

become: yes

connection: ssh

user: rahul

gather\_facts: yes

tasks:

- name: Install Docker and Docker Compose

yum:

name: docker

state: present

- name: Run Docker Compose

shell: |

sudo rm -f /usr/bin/docker-compose

curl -SL https://github.com/docker/compose/releases/download/v2.39.1/docker-compose-linux-x86\_64 -o /usr/local/bin/docker-compose

chmod +x /usr/local/bin/docker-compose

sudo ln -s /usr/local/bin/docker-compose /usr/bin/docker-compose

- name: Start Docker service

service:

name: docker

state: started

- name: Create target directory on remote host

file:

path: /mnt/project1/target/

state: directory

- name: Copy WAR file to remote host

copy:

src: /mnt/project1/target/LoginWebApp.war

dest: /mnt/project1/target/LoginWebApp.war

- name: Copy Dockerfile

copy:

src: /home/rahul/Dockerfile

dest: /home/rahul/Dockerfile

- name: Copy docker-compose.yaml

copy:

src: /home/rahul/docker-compose.yaml

dest: /home/rahul/docker-compose.yaml

- name: Run Docker Compose

shell: |

cd /home/rahul

docker-compose down

docker-compose up -d –build

#Dockerfile

FROM ubuntu:latest

RUN apt update && apt install -y openjdk-17-jdk wget unzip

RUN mkdir -p /mnt/servers

WORKDIR /mnt/servers

RUN wget https://dlcdn.apache.org/tomcat/tomcat-10/v10.1.43/bin/apache-tomcat-10.1.43.zip \

&& unzip apache-tomcat-10.1.43.zip \

&& rm apache-tomcat-10.1.43.zip \

&& chmod -R 777 /mnt

ENV CATALINA\_HOME=/mnt/servers/apache-tomcat-10.1.43

ENV PATH=$CATALINA\_HOME/bin:$PATH

EXPOSE 8080

CMD ["catalina.sh", "run"]

#docker-compose.yaml file

version: '3.8'

services:

tomcat-app:

build: .

container\_name: tomcat\_container

ports:

- "80:8080"

volumes:

- /mnt/project1/target/LoginWebApp.war:/mnt/servers/apache-tomcat-10.1.43/webapps/LoginWebApp.war

