Steps to create a jar file using cmd prompt

**Step1:**

Create a HelloWorld.java file

public class HelloWorld {

public static void main(String[] args){

System.out.println("Hello World Docker");

}

}

**Step2:**

Save and compile it in the command line. From the directory in which you have created your HelloWorld.java, run the command javac HelloWorld.java

**Step3:**

In the same directory, create **manifest.txt** and place the following lines:

Note: Give a newline after Main-Class: HelloWorld<new-line>

manifest.txt

Manifest-Version: 1.0

Created-By: Author

Main-Class: HelloWorld

**Step4:**

Create a jar file ‘HelloWorld.jar’ using the following command:

jar cfm HelloWorld.jar manifest.txt HelloWorld.class

Check if the program works using the following command:

java -jar HelloWorld.jar

**Step5:**

Upload the file into your ec2 instance using the winscp tool

**Step 6:**

In your Window platform Use the puttygen and putty.exe files to connect to your Linux server instance in AWS

**Step7:**

Check if docker is installed using the following command:

docker –v

If docker is not installed use the following commands:

sudo yum update -y

sudo yum install -y docker

**Step8:**

Start the docker service

sudo service docker start

sudo usermod -a -G docker ec2-user

**Step9:**

Create and edit the Dockerfile as follows:

vi Dockerfile

**Step10:**

Add the following lines into the Dockerfile

FROM frolvlad/alpine-oraclejdk8:slim

ADD HelloWorld.jar app.jar

ENTRYPOINT [ “sh”, “-c”, “java –jar app.jar” ]

<or>

FROM frolvlad/alpine-oraclejdk8:slim

ADD HelloWorld.jar app.jar

ENTRYPOINT java -jar app.jar

**Step11:**

docker build –t mydockerfstdemo

**Step12:**

docker run mydockerfstdemo