Course 4

**CB Full Stack - Integration and Deployment**

**Docker**

**Hello-world image is responsible to run application software ie C program**

**busybox is a type of OS images.**

Debian image : it is a type of OS images.

If we want to create the image we need to write set of instruction inside Dockerfile. File name must be Dockerfile without extension. This file is source code for image.

Creating custom image to display echo message with help of busybox images.

**Dockerfile**

FROM busybox:latest

CMD [ "echo","Welcome to Docker created by Akash!" ]

**docker build -t my-busybox . -f Dockerfile**

**docker images**

**docker run my-busybox**

Dockerfile is source code for image. Docker image is read only template file responsible to run the application present or mention in Dockerfile.

Dockerhub : once you created image we can publish the image or push the image in Dockerhub account other team member they can pull and run that image.

Creating image to run the simple Java program

**Demo.java**

class Demo {

public static void main(String[] args) {

System.out.println("Welcome to java running through docker");

}

}

**Dockerfile**

FROM openjdk:17

COPY Demo.java .

RUN javac Demo.java

CMD [ "java","Demo" ]

**creating the image**

docker build -t my-java . -f Dockerfile

then run the application

**docker run my-java**

Creating image to run spring boot application with rest api

Create spring boot project with web starter and create one rest api.

unzip -x filename.zip

using maven command or using eclipse IDE we need to create jar or war file of spring boot project.