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Assignment 7- Implement ECS with Docker and EC2 instance deploy Spring Boot Application

Step 1:

Create spring boot applications(demo-ec2) as below, make jar and get it handy.

Graphical user interface, text, application

Description automatically generated

Step 2:

Create a Security to accept request from 8080 port for SB Application:

Graphical user interface, application

Description automatically generated

Step 3:

Create IAM ->User to deploy docker image, give required permission:

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application

Description automatically generated with medium confidence

Step 3:

Create new Linux instance using custom Security Group and User Data to install Apache.

SSH same machine copy SpringBoot jar and install java, Docker to proceed further:

Graphical user interface, application

Description automatically generated

Text

Description automatically generated

Step 4:

Run all below steps to create DockerFile, build it and push in docker container.

Text

Description automatically generated

Here we are using newly created user to push image and run container based on newly created ID.

Text

Description automatically generated

Text

Description automatically generated

Text

Description automatically generated

Step 5:

Create server less Task Definition to run ECS cluster by selection running docker instance in ECR repo.

Graphical user interface, application, Word

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Give appropriate space to execute Docker image

Graphical user interface

Description automatically generated

A picture containing timeline

Description automatically generatedWait till TD gets activate

Graphical user interface, application

Description automatically generated

Step 6:

Create server less ECS cluster and service by selecting existing Task Definition which are deploy on Docker Container.

Graphical user interface, application

Description automatically generated

Graphical user interface, text, application

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

Select default VPC and select all avaliable subnets for high avalibility

Graphical user interface, text, application, email

Description automatically generated

Step 7:

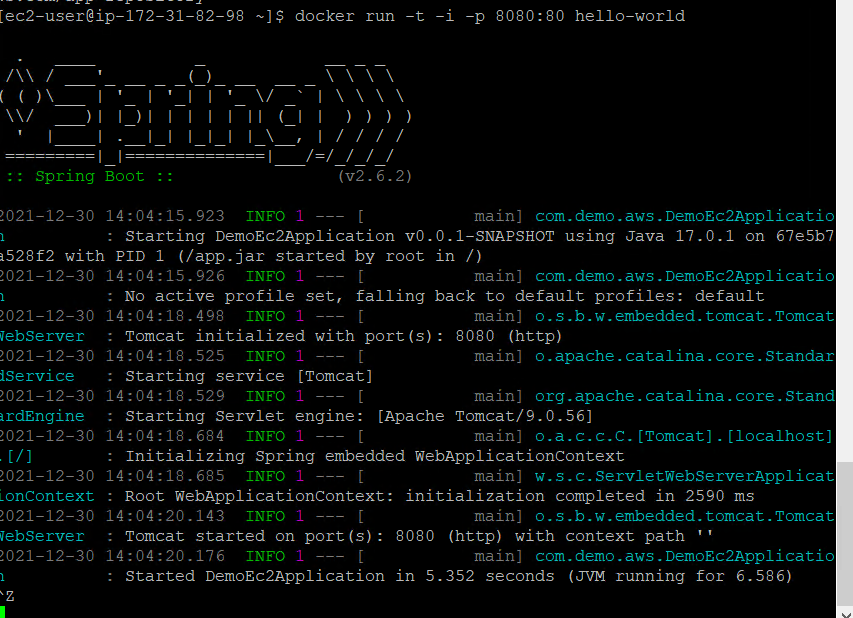
Select one service open same and hit public IP to validate SB application.

Graphical user interface, text

Description automatically generated

Graphical user interface, text, application

Description automatically generated



Graphical user interface, text

Description automatically generated