

DEVELOPER DETAILS

Name: Baba Mantyusi

Company: Deviare

Project name: CI/CD Deployment for Springboot Application.

SPRINTS: 3 (Timebox – 5 days 1 sprint)

CORE CONCEPTS USED:

- Eclipse
- GitHub
- Jenkins
- AWS EC2/ Virtual machine

Controller CODE:

```
package com.cicd.cicdappliedtospringbootjavaapp.controller;

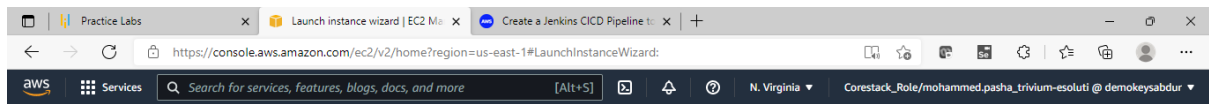
import org.springframework.web.bind.annotation.GetMapping;
import org.springframework.web.bind.annotation.RestController;

@RestController
public class HelloController {

    @GetMapping("/")
    public String home() {
        return "Hello World from DZONE";
    }

}
```

AWS INTERFACE:



You've been invited to try an early, beta iteration of the new launch instance wizard. We will continue to improve the experience over the next few months. We're asking customers for their feedback on this early release. To exit the new launch instance wizard at any time, choose the **Cancel** button. [Try it now!](#)

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 1: Choose an Amazon Machine Image (AMI)

[Cancel and Exit](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parameter

Quick Start

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only (1)

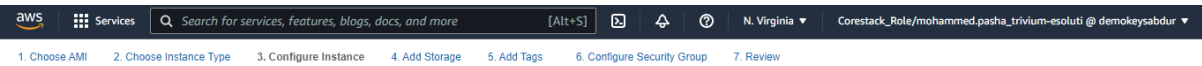
Amazon Linux
Free tier eligible

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-033b95fb8079dc481 (64-bit x86) / ami-0f7691f59fd7c47af (64-bit Arm) [Select](#)

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit (x86) ☒ 64-bit (Arm) ☐



Step 3: Configure Instance Details

Additional charges may apply

File systems [Add file system](#) [Create new file system](#)

Advanced Details

Enclave ☐ Enable

Metadata accessible

Metadata version

Metadata token response hop limit

Allow tags in metadata

User data ☒ As text ☐ As file ☐ Input is already base64 encoded

```
#! /bin/sh
yum update -y
amazon-linux-extras install docker
service docker start
usermod -s /bin/bash ec2-user
chkconfig docker on
```

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)



Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

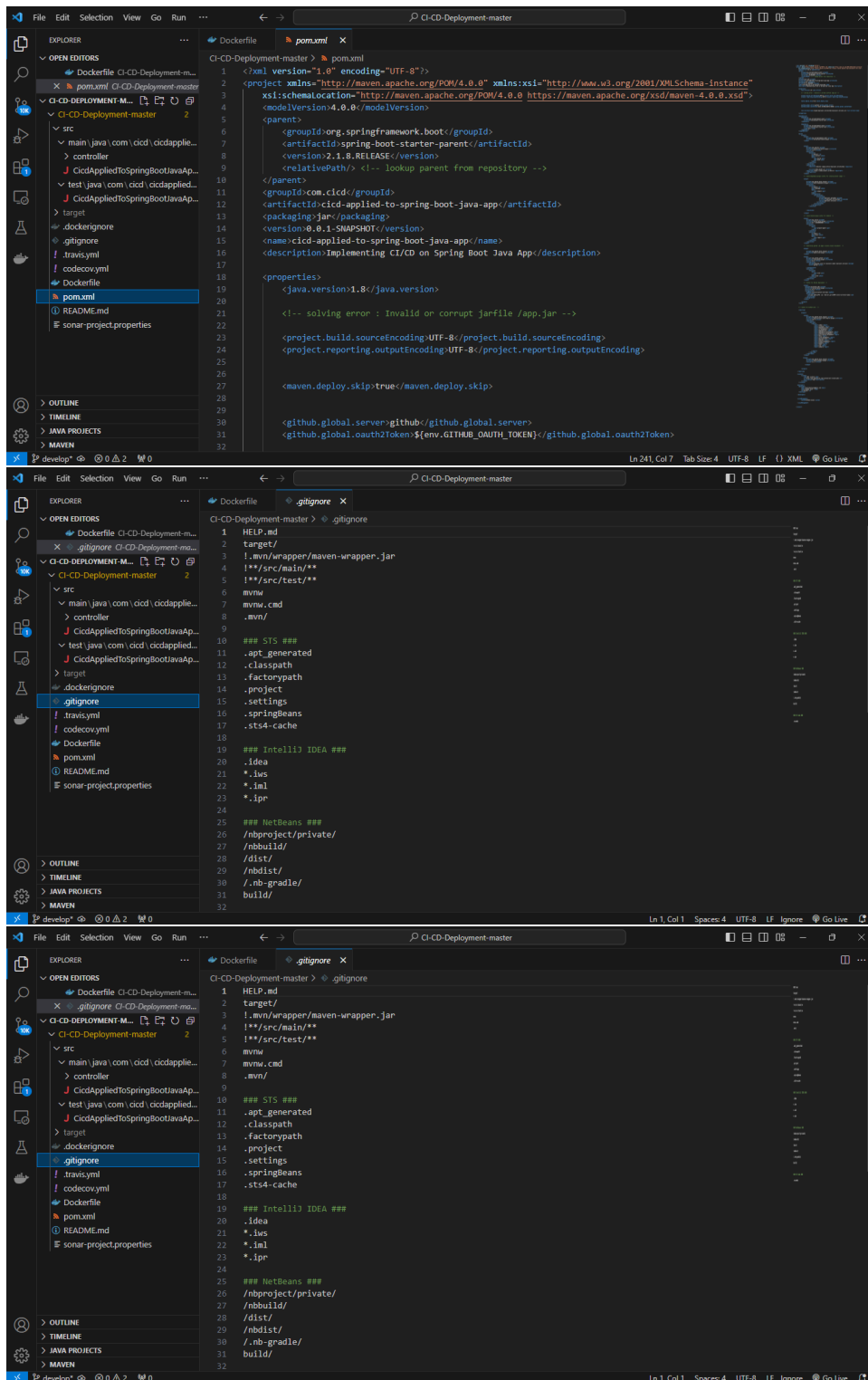
Description:

| Type | Protocol | Port Range | Source | Description |
|--------------|----------|------------|------------------|----------------------------|
| SSH | TCP | 22 | Custom 0.0.0.0/0 | e.g. SSH for Admin Desktop |
| Custom TCP f | TCP | 8080 | Custom 0.0.0.0/0 | e.g. SSH for Admin Desktop |
| HTTPS | TCP | 443 | Custom 0.0.0.0/0 | e.g. SSH for Admin Desktop |
| HTTP | TCP | 80 | Custom 0.0.0.0/0 | e.g. SSH for Admin Desktop |

[Add Rule](#)

[Cancel](#) [Previous](#) [Review and Launch](#)

CODING



BELOW IS THE LINK TO GITHUB REPOSITORY:

<https://github.com/Baba-learns/CI-CD-Deployment-for-Springboot-Application.git>