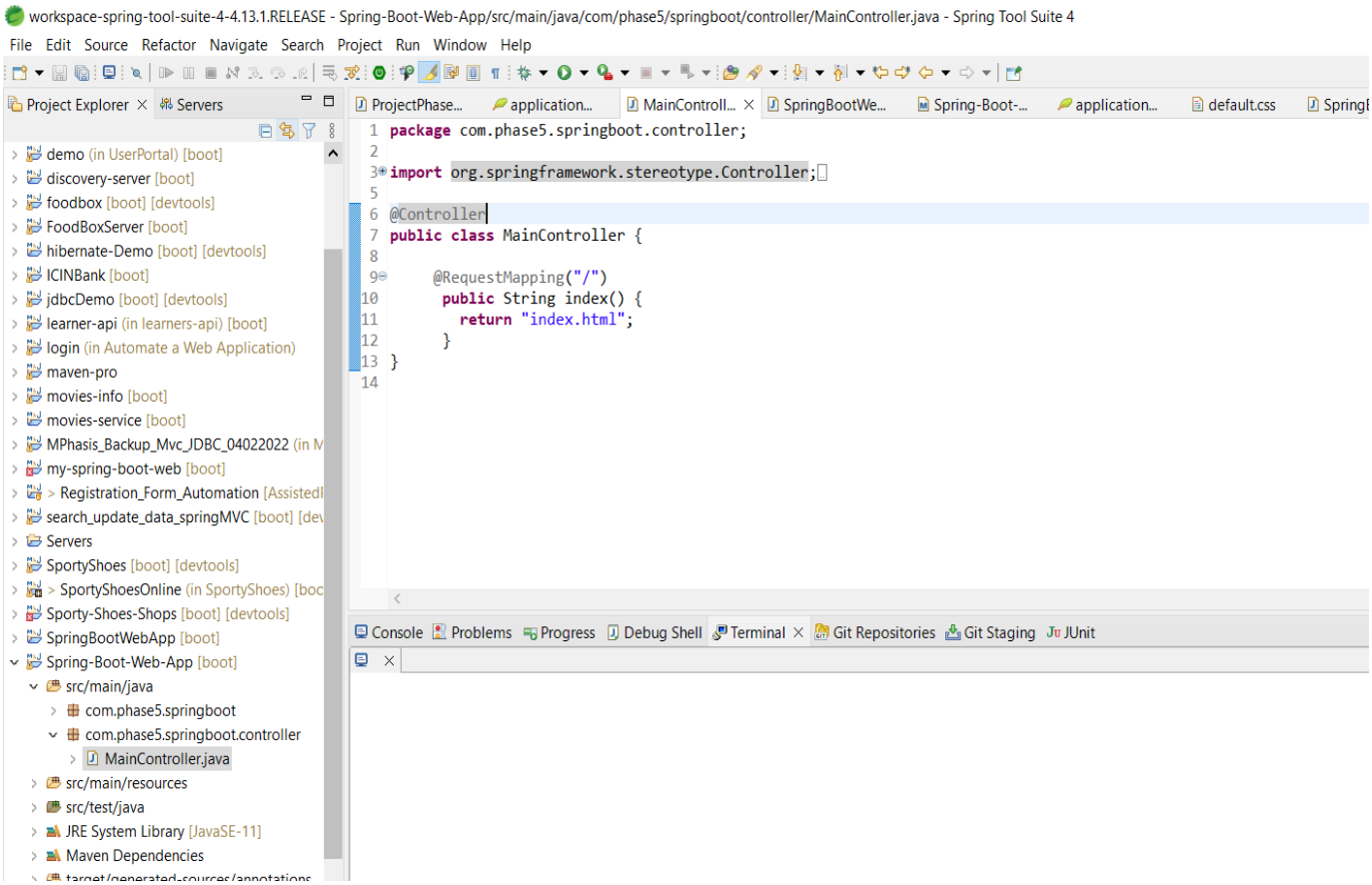
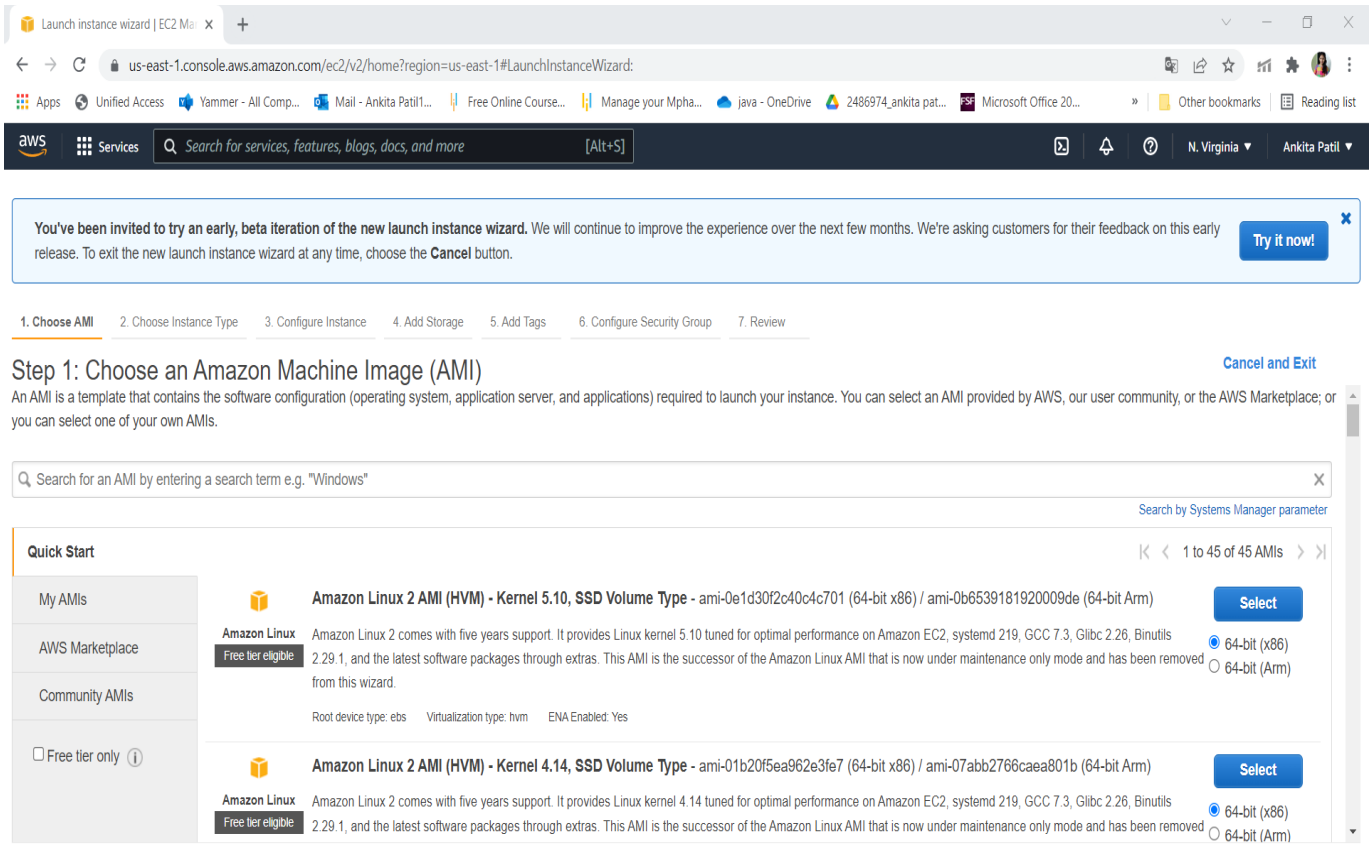
Outputs of CI/CD Deployment for Spring boot Application.

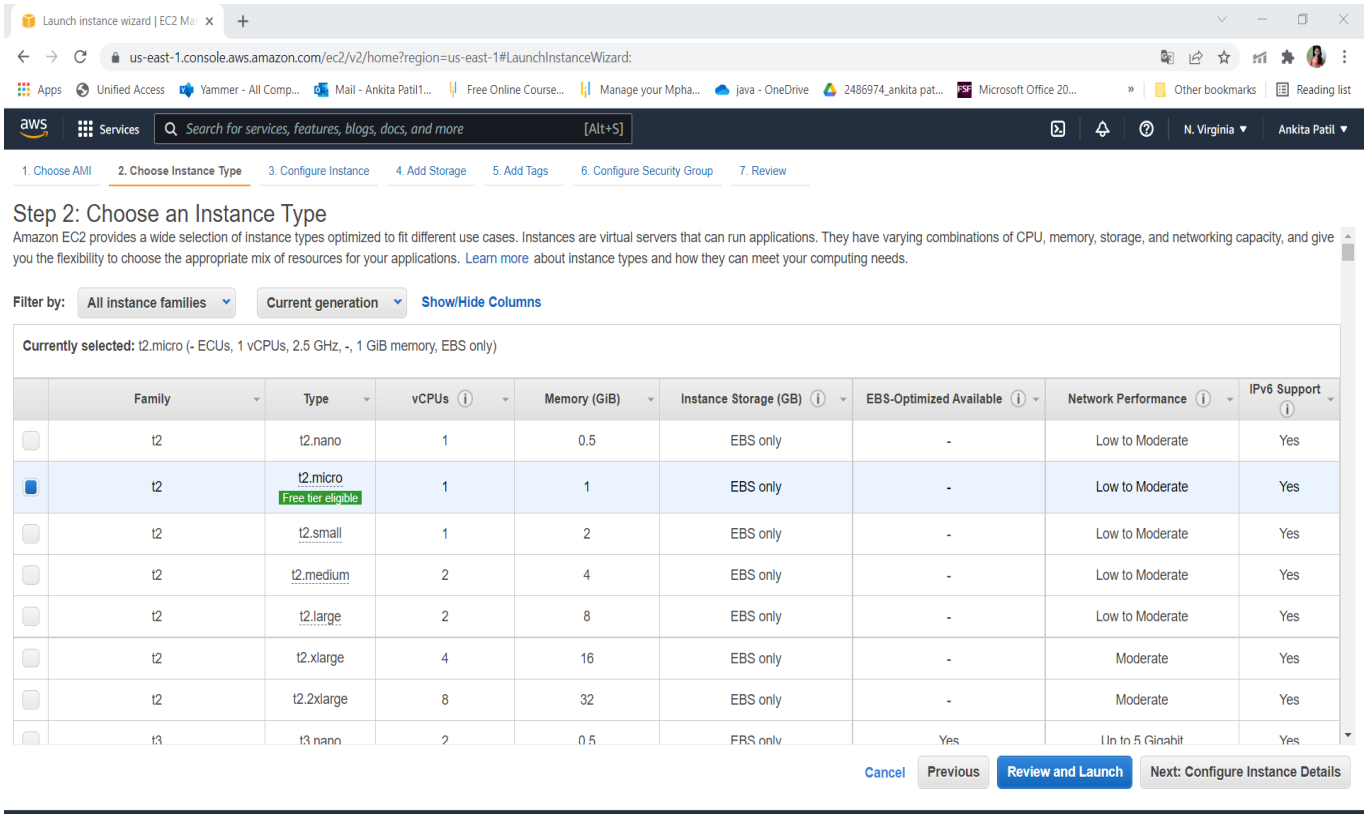
Step 1: Write spring boot program:



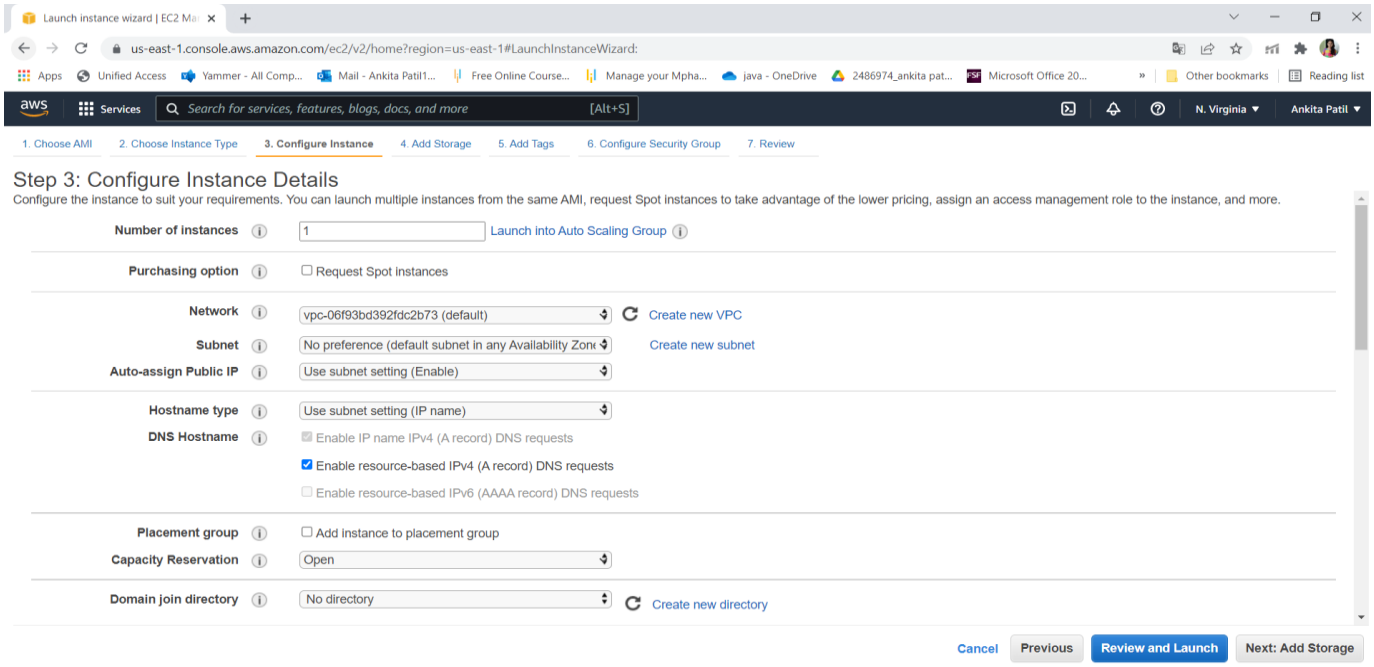
- **Step 2: Launching EC2 instance:**
    1. Click on launch instance to run any instance
    2. Select the AMI



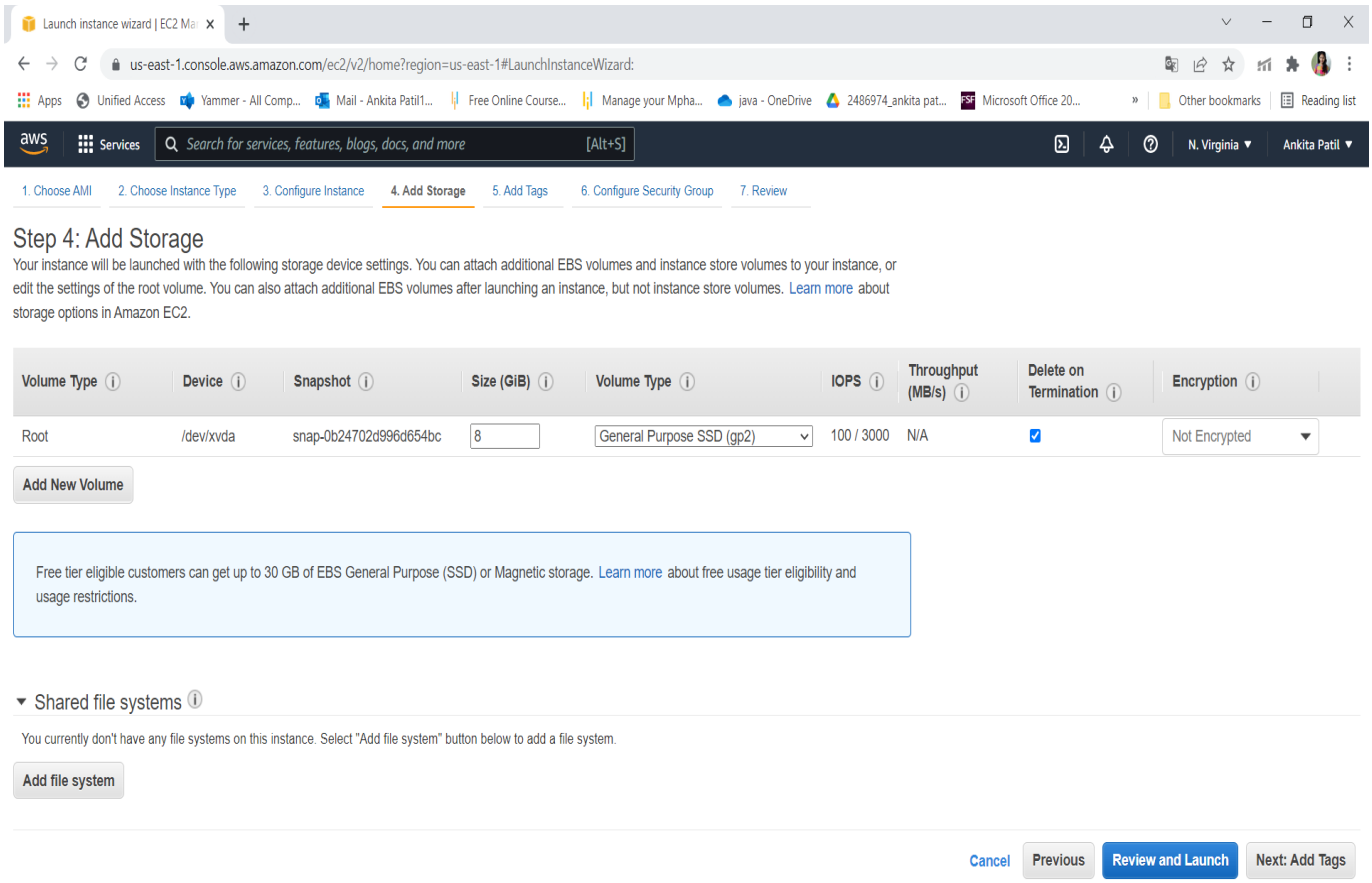
3. Select t2.micro as the instance type



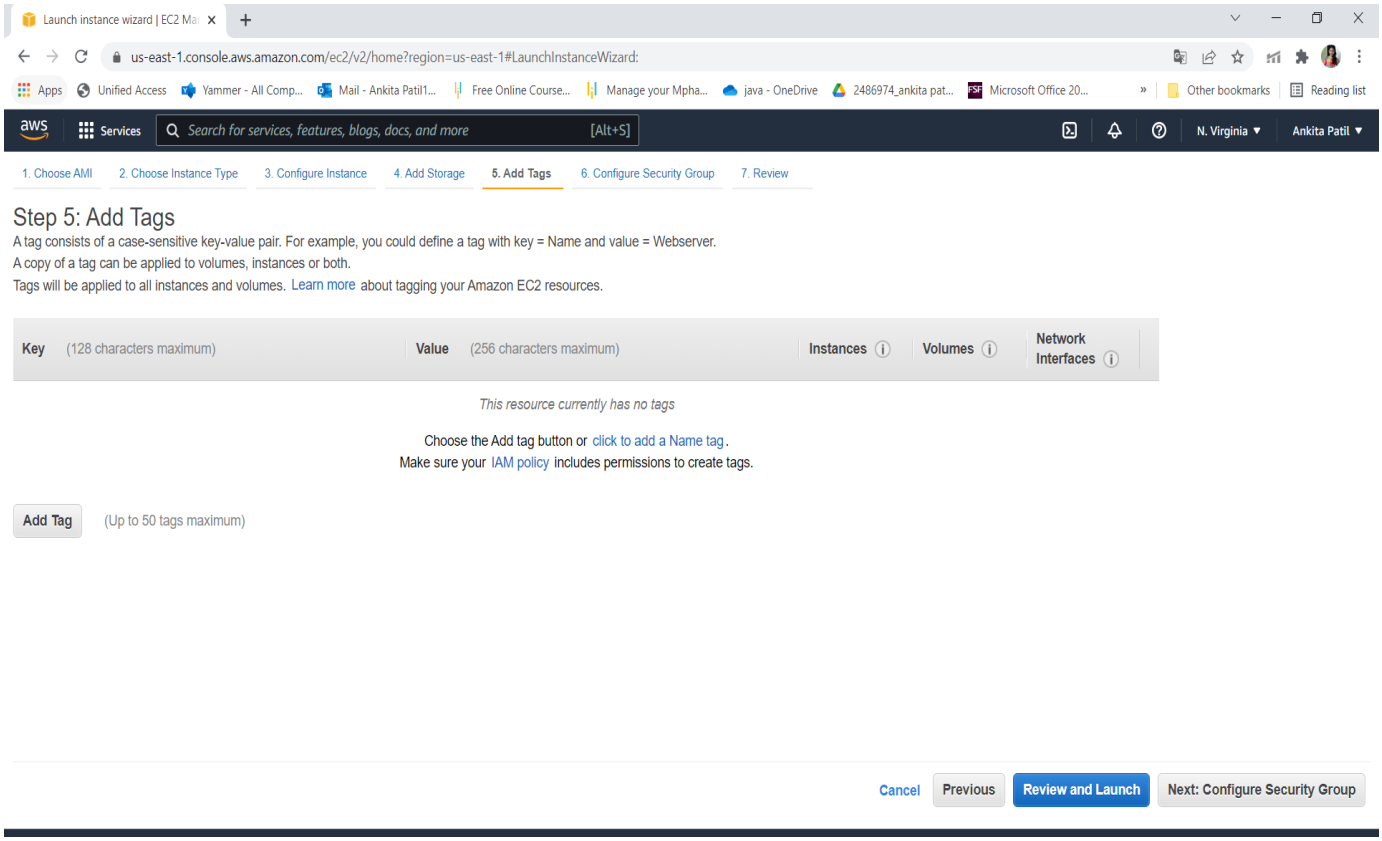
4. Specify the number of instances, networks, placement groups, and IAM roles and click Next

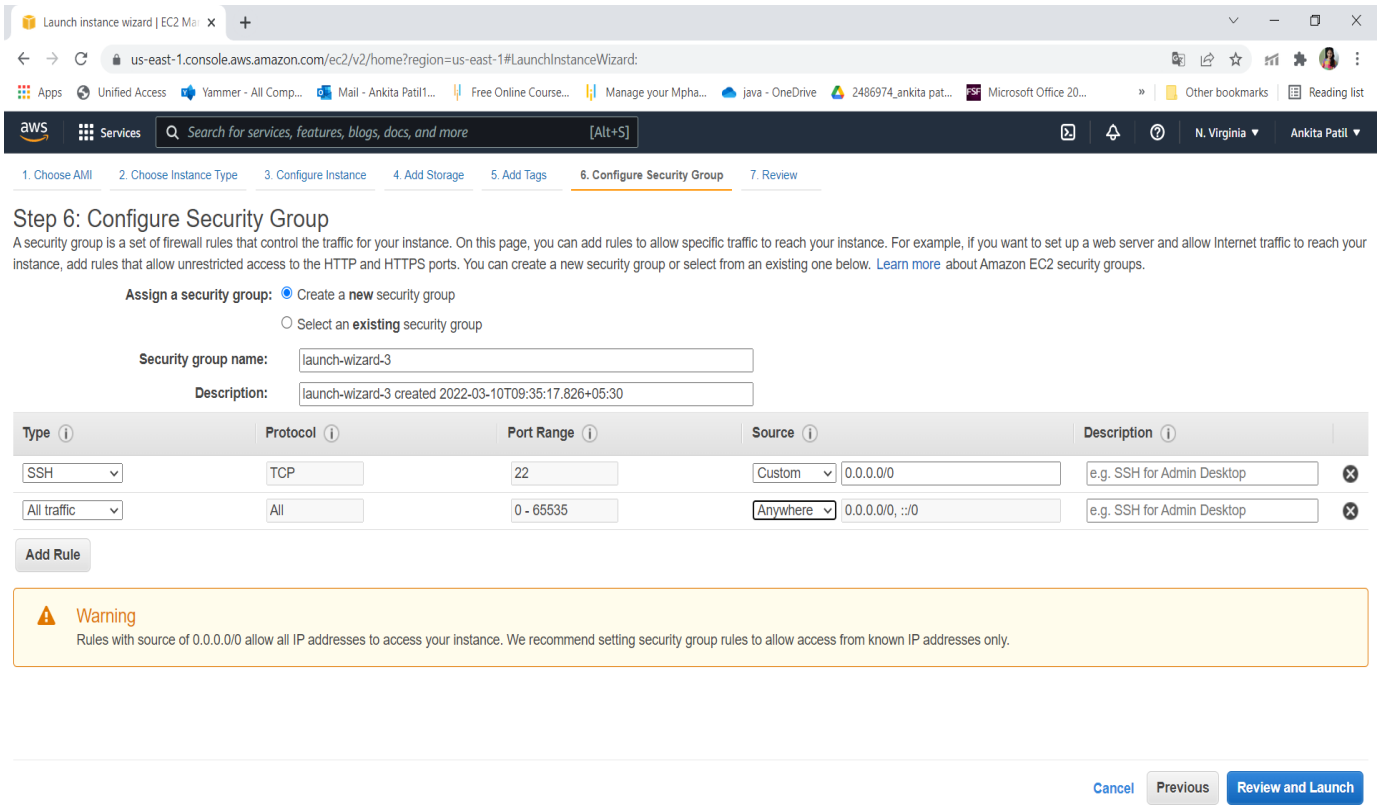


5. Add storage

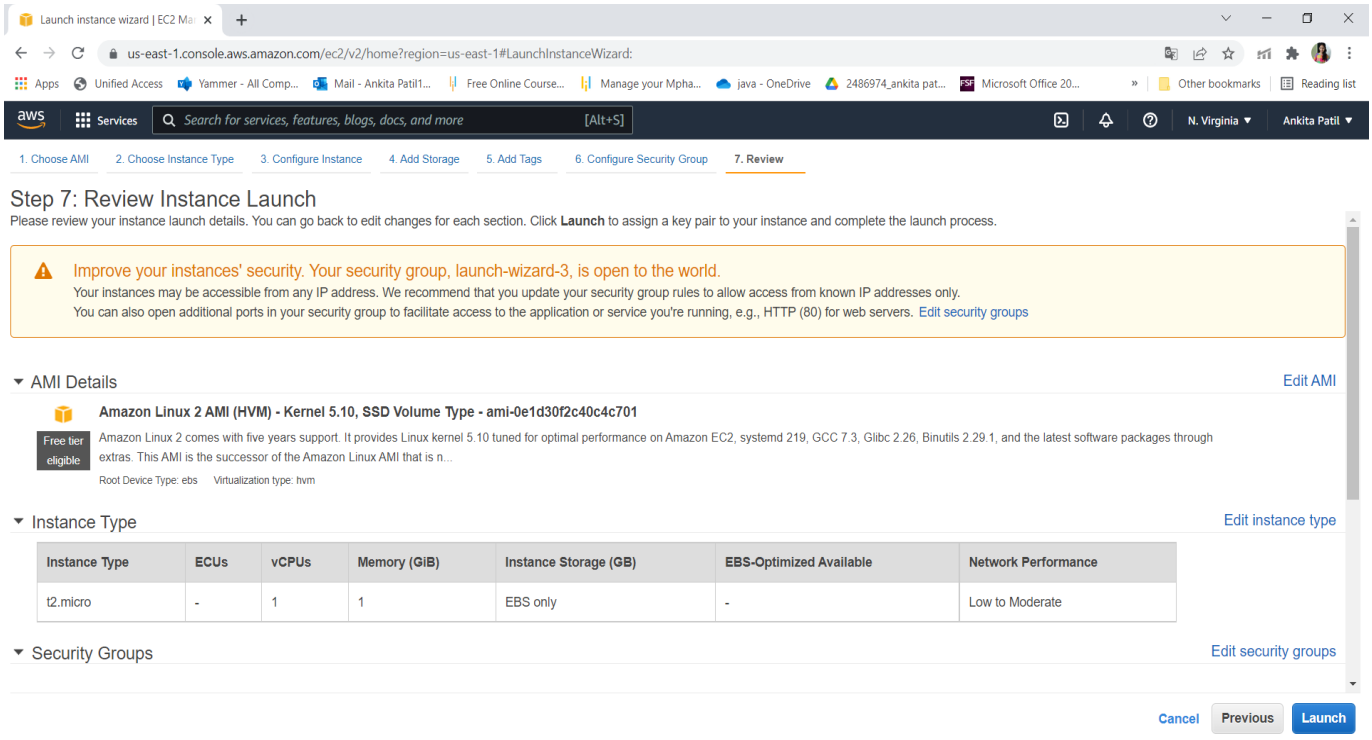


6. You can add a key-value pair to the instance

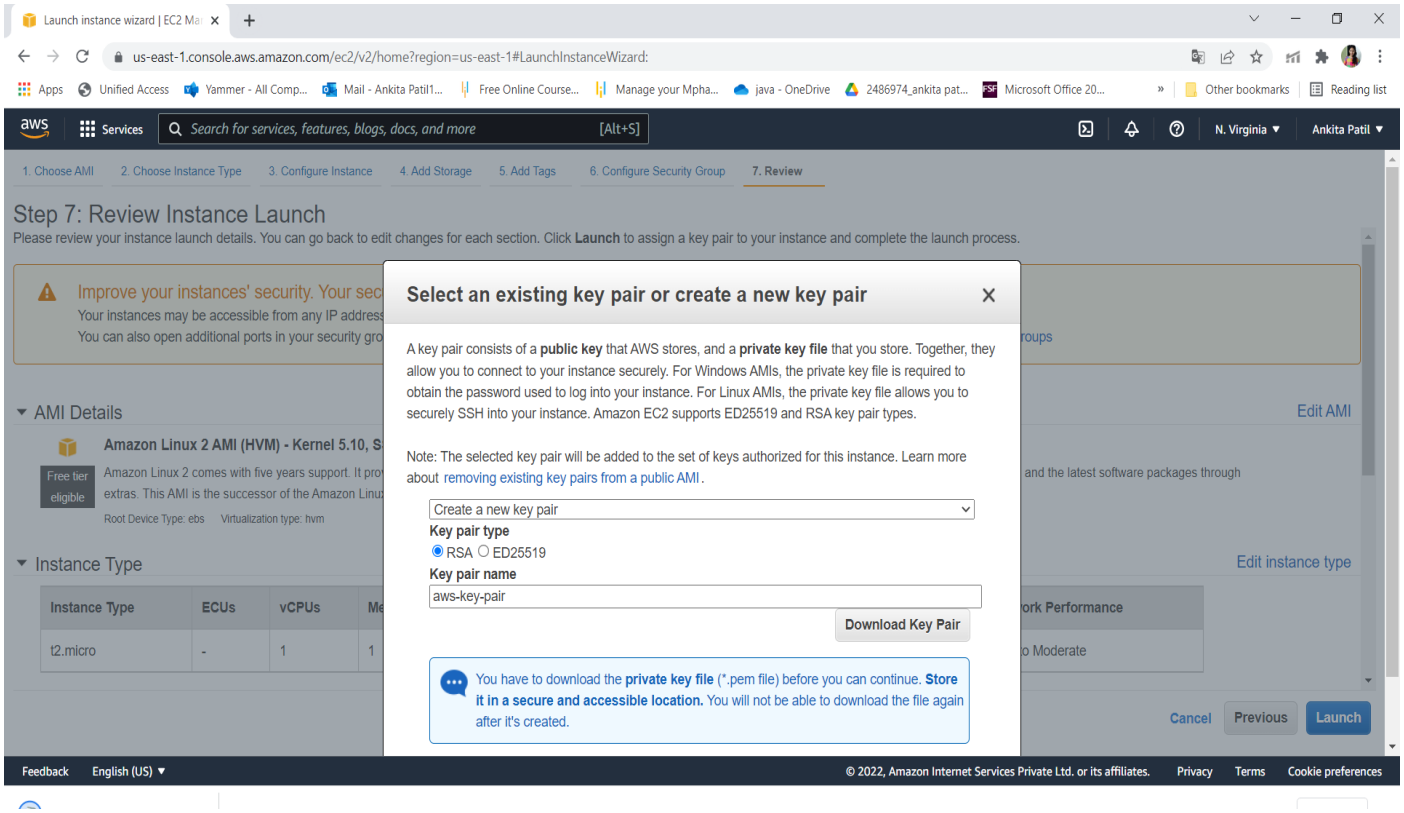




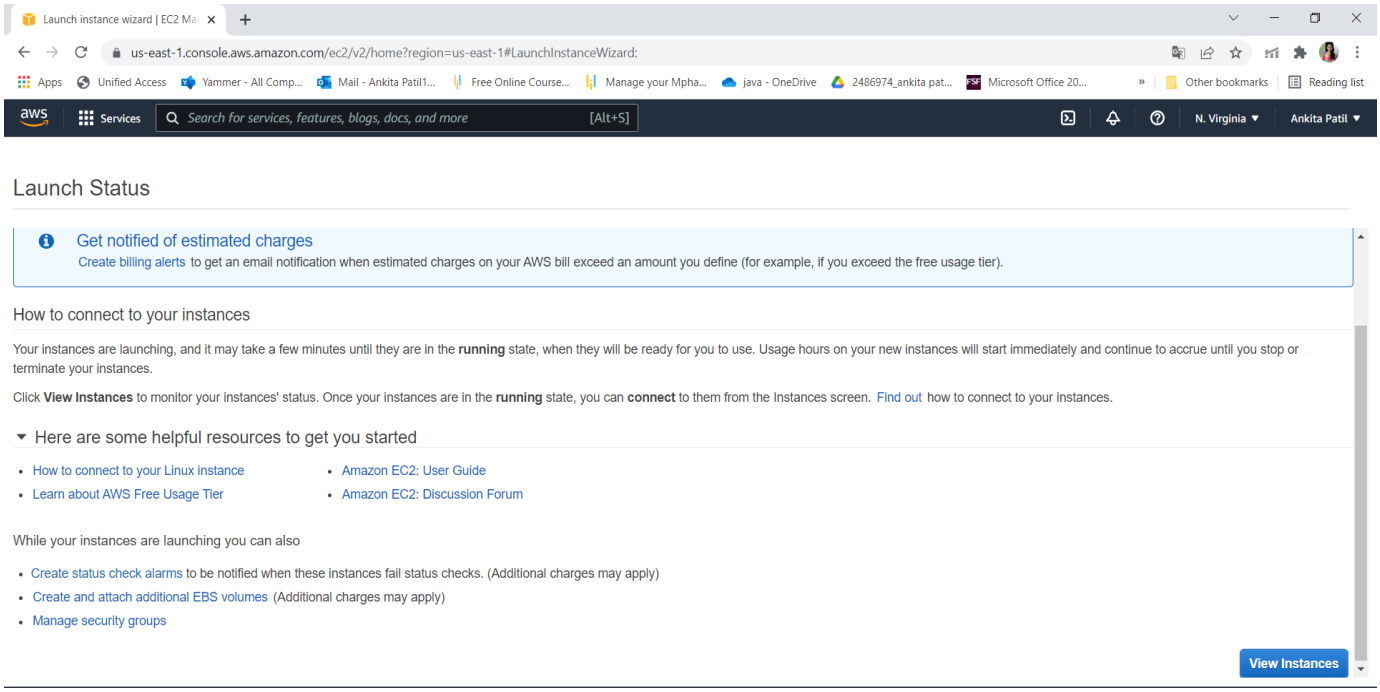
7. Click on launch



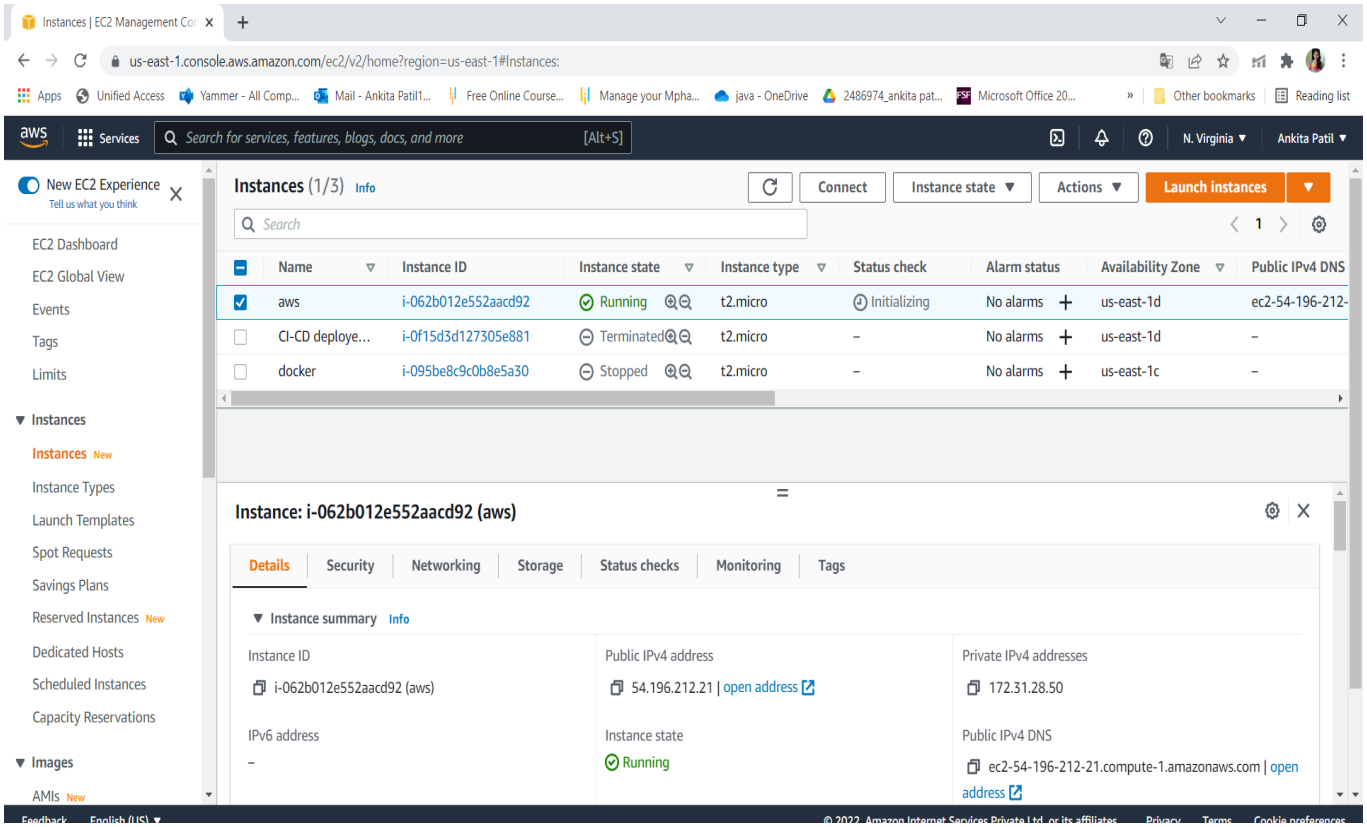
8. Create key pair



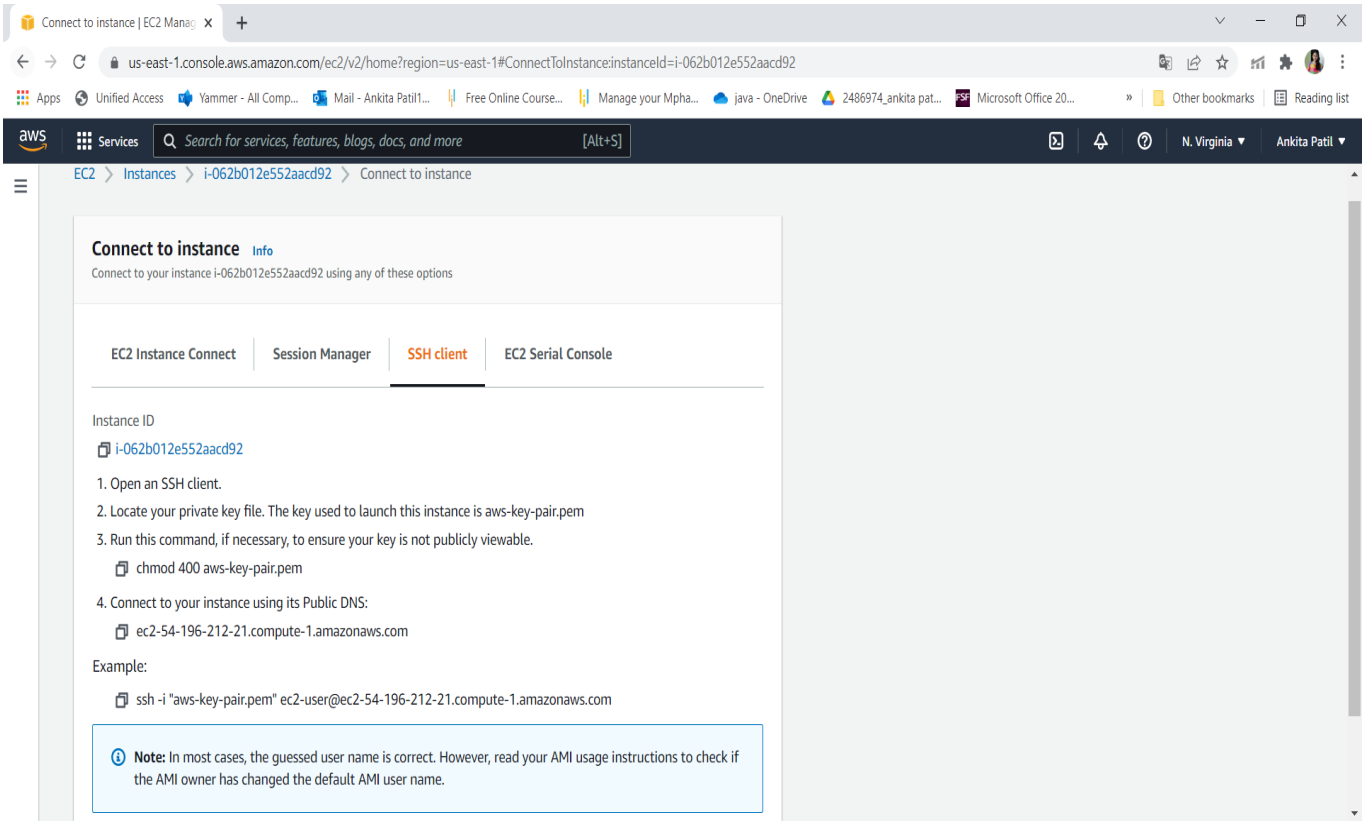
9. Click on view instance



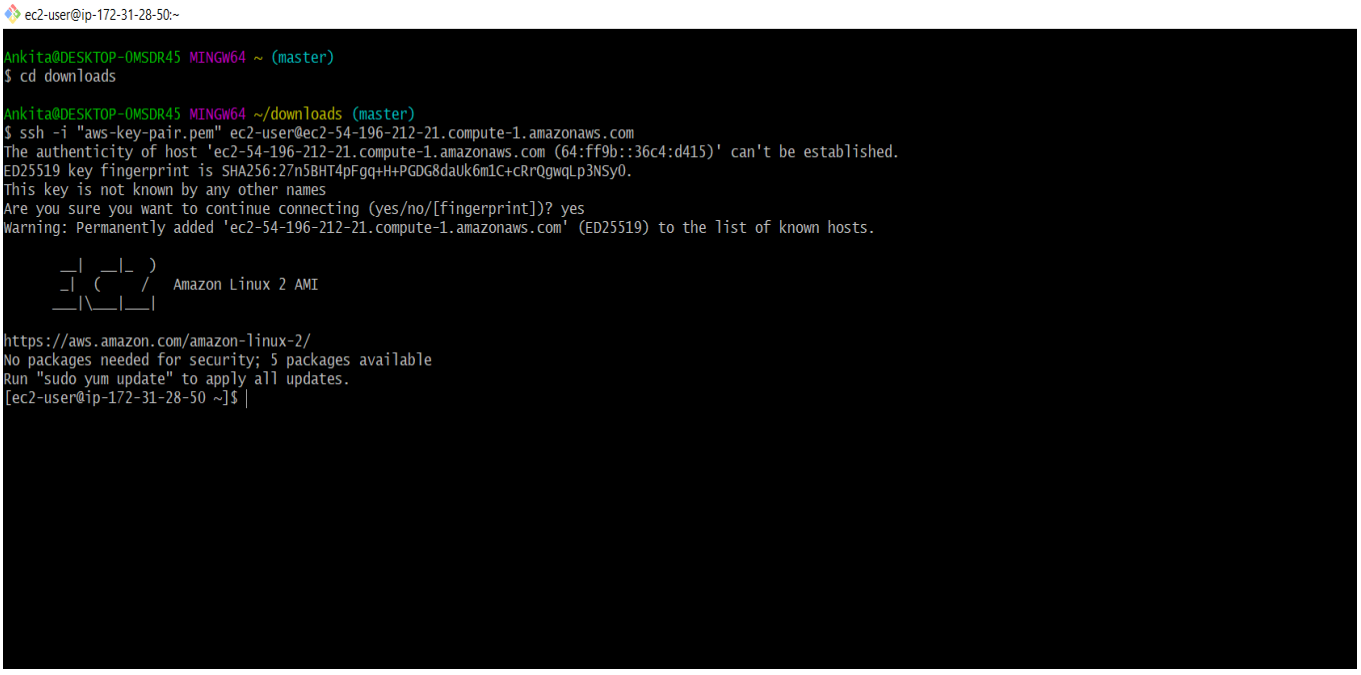
10.Connect the instance



- **Step 3: Connect to EC2 instances:**

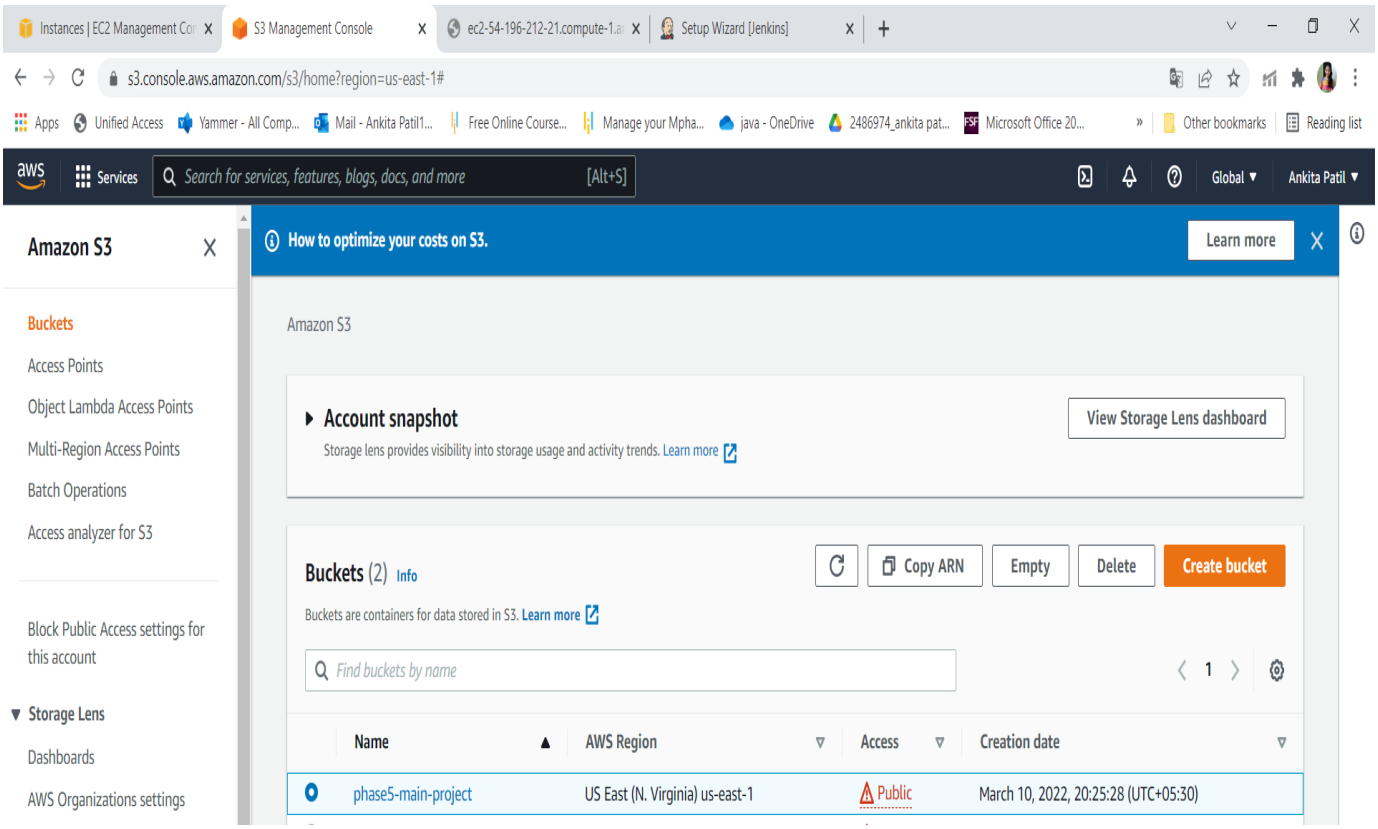


11. Click on Connect on EC2 dashboard & Run the ssh command provided

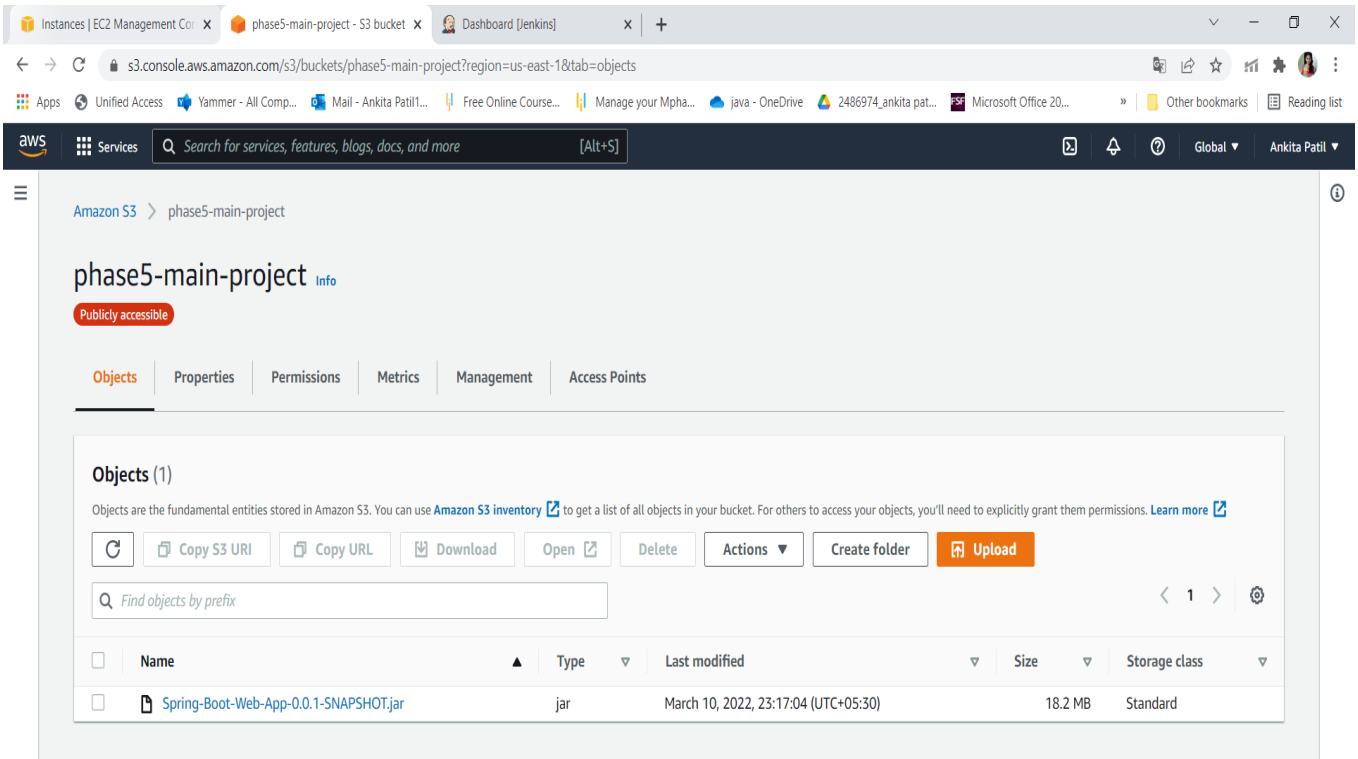


Step 4: Creating S3 Bucket:

1. Create Bucket to store jar file:



Step 5:Adding jar file:



- Run program through instance:

```
[ec2-user@ip-172-31-28-50 ~]$ ls
spring-boot-web-aws-exe.jar
[ec2-user@ip-172-31-28-50 ~]$ java -jar spring-boot-web-aws-exe.jar

  .   ____          _            __ _ _
 /\\ / ___'_ __ _ _(_)_ __  __ _ \ \ \ \
( ( )\___ | '_ | '_| | '_ \/ _` | \ \ \ \
 \\/  ___)| |_)| | | | | || (_| |  ) ) ) )
  '  |____| .__|_| |_|_| |_\__, | / / / /
 =========|_|==============|___/=/_/_/_/
 :: Spring Boot ::                (v2.6.4)

2022-03-10 17:21:42.600  INFO 21546 --- [           main] c.p.s.SpringBootWebAppApplication        : Starting SpringBootWebAppApplication v0.0.1-SNAPSHOT using Java 11.0.13 on ip-172-31-28-
50.ec2.internal with PID 21546 (/home/ec2-user/spring-boot-web-aws-exe.jar started by ec2-user in /home/ec2-user)
2022-03-10 17:21:42.612  INFO 21546 --- [           main] c.p.s.SpringBootWebAppApplication        : No active profile set, falling back to 1 default profile: "default"
2022-03-10 17:21:45.161  INFO 21546 --- [           main] o.s.cloud.context.scope.GenericScope     : BeanFactory id=11810f64-bfcc-3aca-9e4a-416b42080aad
2022-03-10 17:21:45.992  INFO 21546 --- [           main] o.s.b.w.embedded.tomcat.TomcatWebServer  : Tomcat initialized with port(s): 8080 (http)
2022-03-10 17:21:46.017  INFO 21546 --- [           main] o.apache.catalina.core.StandardService   : Starting service [Tomcat]
2022-03-10 17:21:46.021  INFO 21546 --- [           main] org.apache.catalina.core.StandardEngine  : Starting Servlet engine: [Apache Tomcat/9.0.58]
2022-03-10 17:21:46.130  INFO 21546 --- [           main] o.a.c.c.C.[Tomcat].[localhost].[/]       : Initializing Spring embedded WebApplicationContext
2022-03-10 17:21:46.130  INFO 21546 --- [           main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 3344 ms
2022-03-10 17:21:47.414  WARN 21546 --- [           main] ion$DefaultTemplateResolverConfiguration : Cannot find template location: classpath:/templates/ (please add some templates or chec
 your Thymeleaf configuration)
2022-03-10 17:21:47.624  WARN 21546 --- [           main] ConfigServletWebServerApplicationContext : Exception encountered during context initialization - cancelling refresh attempt: org.s
ringframework.context.ApplicationContextException: Failed to start bean 'webServerStartStop'; nested exception is org.springframework.boot.web.server.PortInUseException: Port 8080 is alrea
y in use
2022-03-10 17:21:47.632  INFO 21546 --- [           main] o.apache.catalina.core.StandardService   : Stopping service [Tomcat]
2022-03-10 17:21:47.677  INFO 21546 --- [           main] ConditionEvaluationReportLoggingListener :

Error starting ApplicationContext. To display the conditions report re-run your application with 'debug' enabled.
2022-03-10 17:21:47.717 ERROR 21546 --- [           main] o.s.b.d.LoggingFailureAnalysisReporter   :

***************************
APPLICATION FAILED TO START
***************************

Description:

Web server failed to start. Port 8080 was already in use.

Action:

Identify and stop the process that's listening on port 8080 or configure this application to listen on another port.
```

- Output: