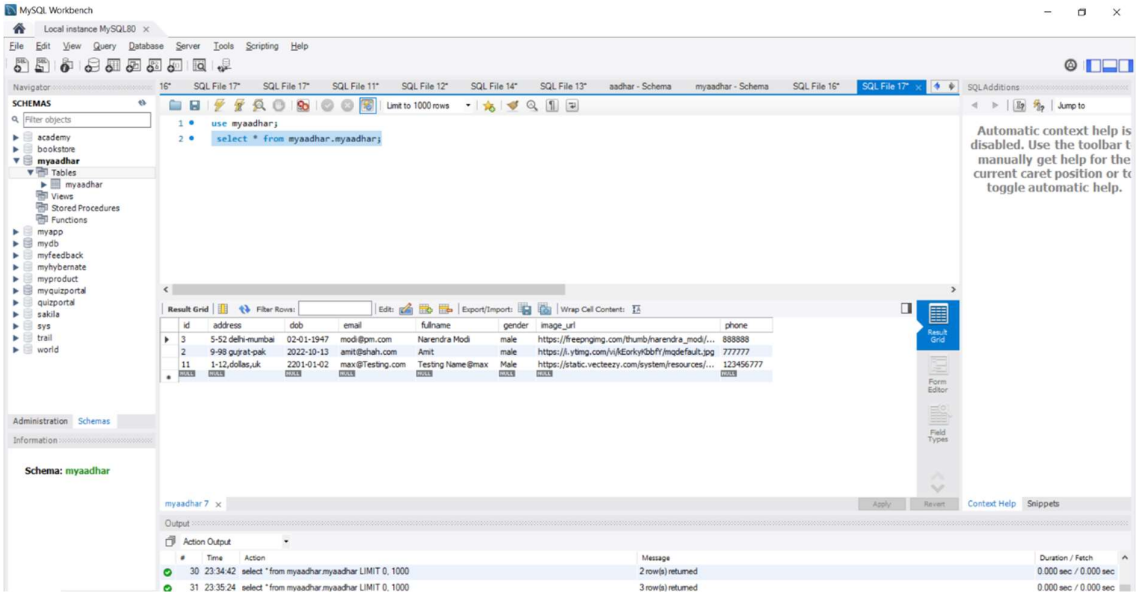


--Successfully Tested

- Deploy The Appication In EC2:

Spring Boot Project in STS

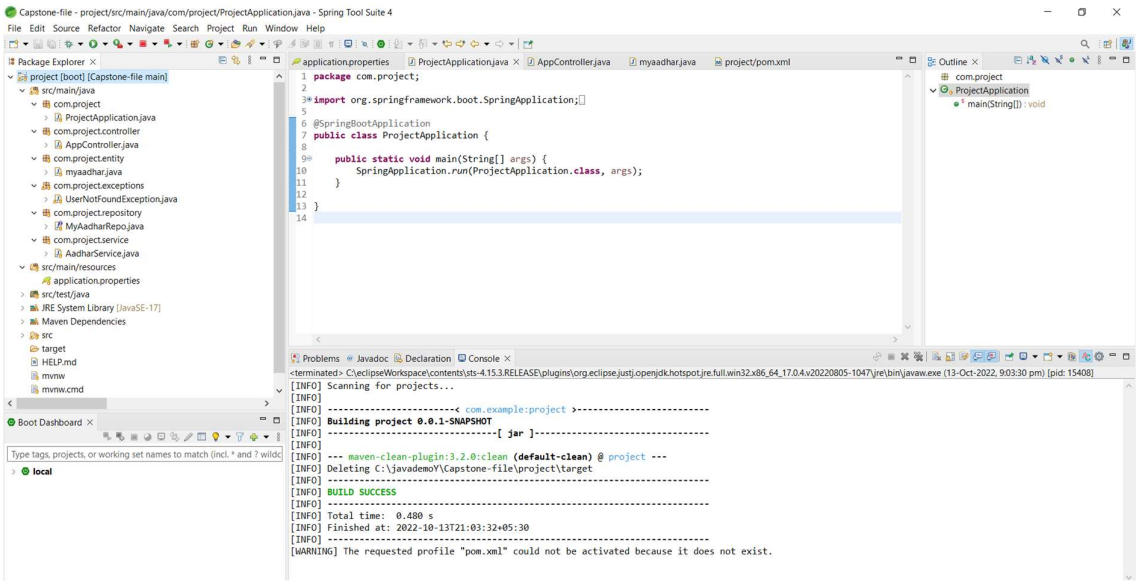
- After creating the Project :

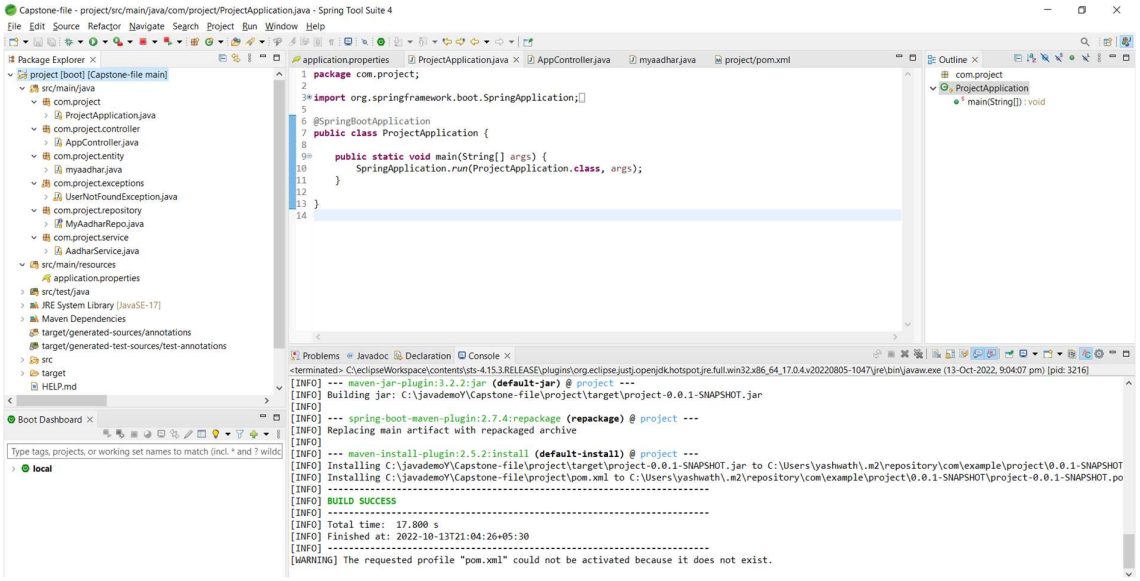
➢ Maven Clean

➢ Maven Install

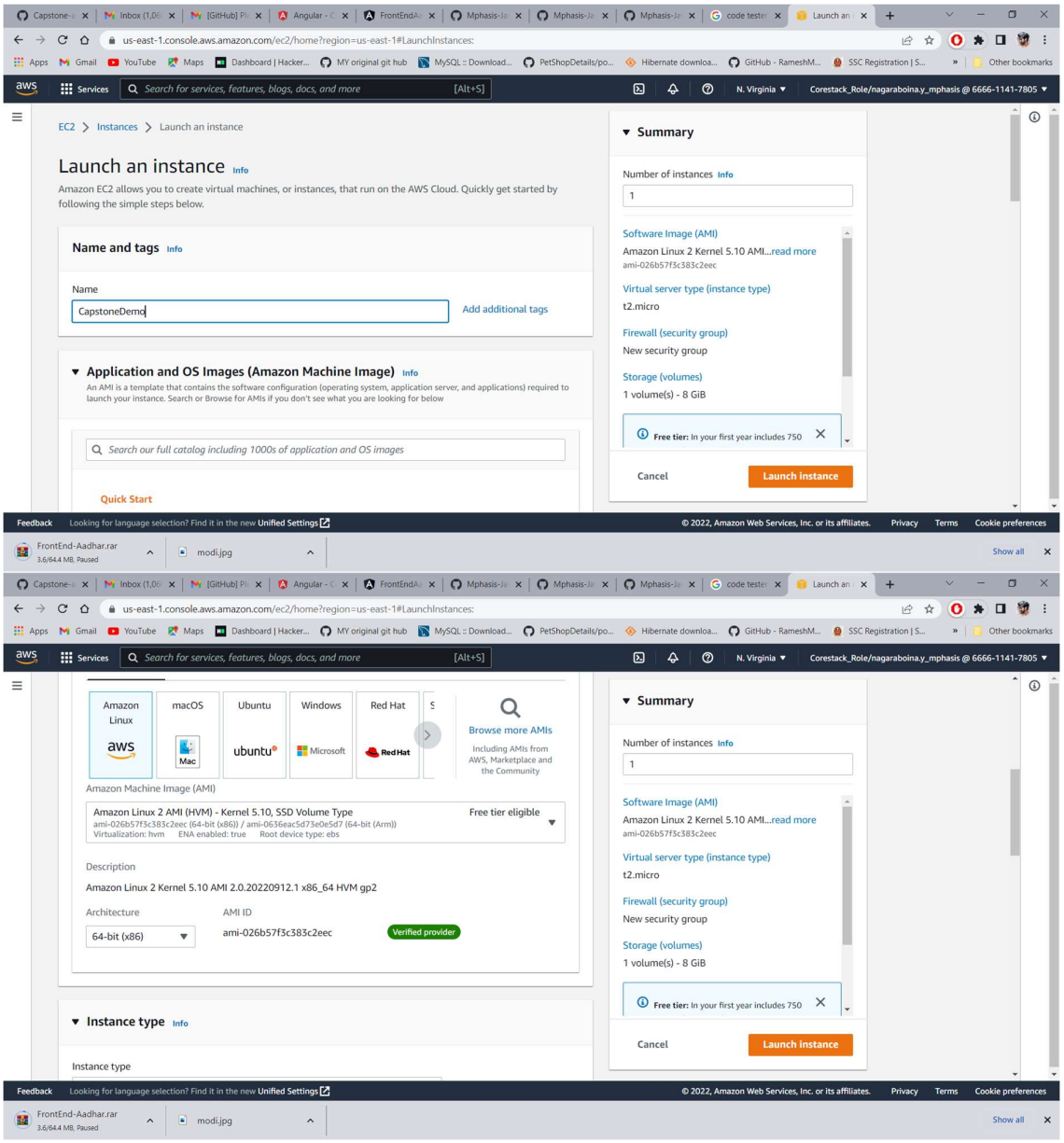
➢ Maven Update

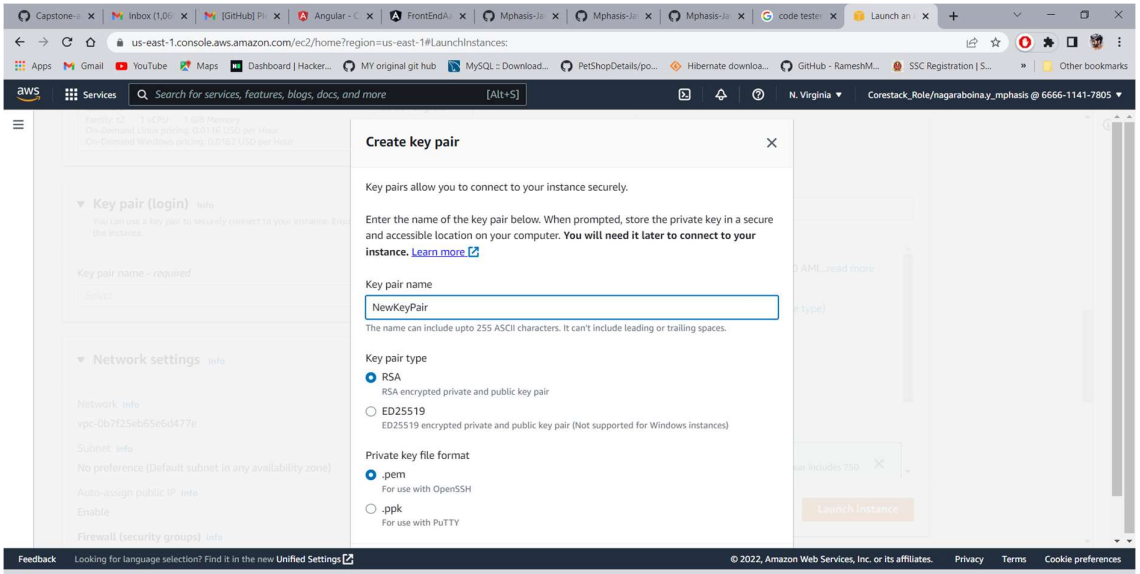
- After this we find the SNAPSHOT.jar in Target folder.

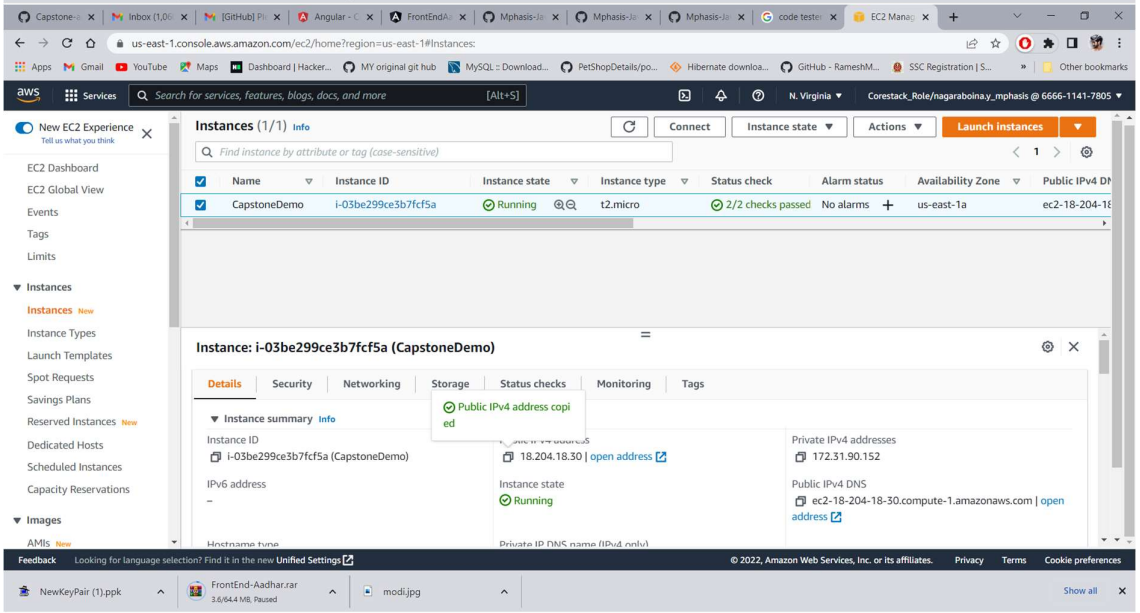



Capstone-file - project/src/main/java/com/project/ProjectApplication.java - Spring Tool Suite 4
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
project [boot] [Capstone-file main]
src/main/java
com.project
ProjectApplication.java
com.project.controller
AppController.java
com.project.entity
myaadhar.java
com.project.exceptions
UserNotFoundException.java
com.project.repository
MyAadharRepo.java
com.project.service
AadharService.java
src/main/resources
application.properties
src/test/java
JRE System Library [JavaSE-17]
Maven Dependencies
target/generated-sources/annotations
target/generated-test-sources/test-annotations
src
target
HELP.md
Boot Dashboard
Type tags, projects, or working set names to match (incl. * and ? wildc
local
application.properties
ProjectApplication.java
AppController.java
myaadhar.java
project/pom.xml
1 package com.project;
2
3 import org.springframework.boot.SpringApplication;
5
6 @SpringBootApplication
7 public class ProjectApplication {
8
9 public static void main(String[] args) {
10 SpringApplication.run(ProjectApplication.class, args);
11 }
12
13 }
14
Outline
com.project
ProjectApplication
main(String[]) : void
Problems Javadoc Declaration Console
<terminated> C:\eclipseWorkspace\contents\sts-4.15.3.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220805-1047\jre\bin\javaw.exe (13-Oct-2022, 9:04:07 pm) [pid: 3216]
[INFO] --- maven-jar-plugin:3.2.2:jar (default-jar) @ project ---
[INFO] Building jar: C:\javademoY\Capstone-file\project\target\project-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.7.4:repackage (repackage) @ project ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ project ---
[INFO] Installing C:\javademoY\Capstone-file\project\target\project-0.0.1-SNAPSHOT.jar to C:\Users\yashwath\.m2\repository\com\example\project\0.0.1-SNAPSHOT
[INFO] Installing C:\javademoY\Capstone-file\project\pom.xml to C:\Users\yashwath\.m2\repository\com\example\project\0.0.1-SNAPSHOT\project-0.0.1-SNAPSHOT.po
[INFO] --
[INFO] BUILD SUCCESS
[INFO] --
[INFO] Total time: 17.800 s
[INFO] Finished at: 2022-10-13T21:04:26+05:30
[INFO] --
[WARNING] The requested profile "pom.xml" could not be activated because it does not exist.

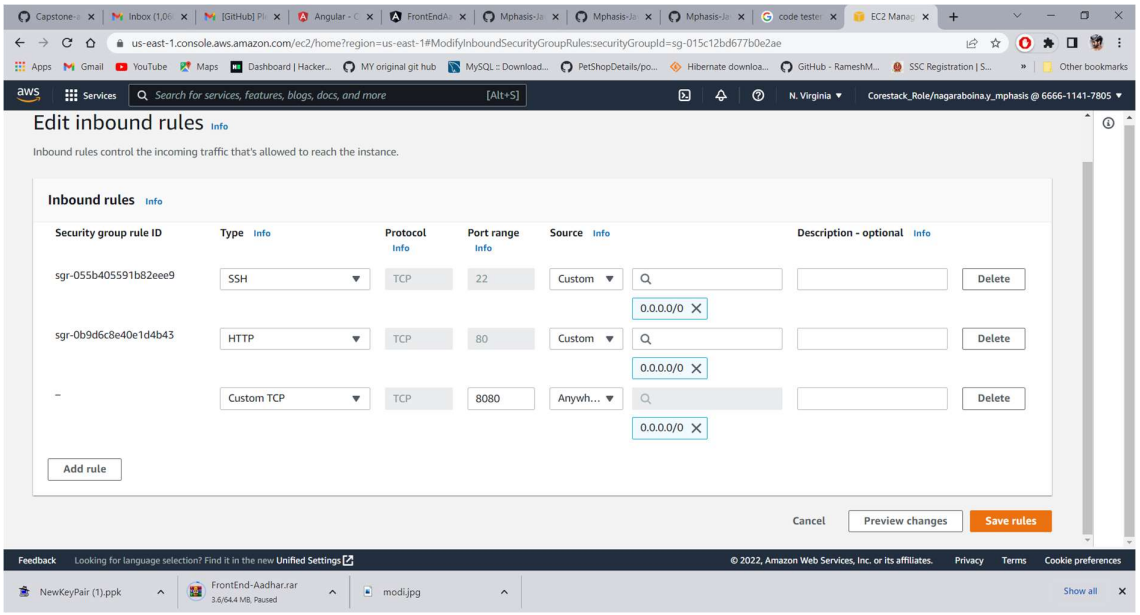
Now Create an EC2 Instance With User Data In it.




Create key pair
Key pairs allow you to connect to your instance securely.
Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. Learn more
Key pair name
NewKeyPair
The name can include upto 255 ASCII characters. It can't include leading or trailing spaces.
Key pair type
RSA
RSA encrypted private and public key pair
ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)
Private key file format
.pem
For use with OpenSSH
.ppk
For use with PuTTY

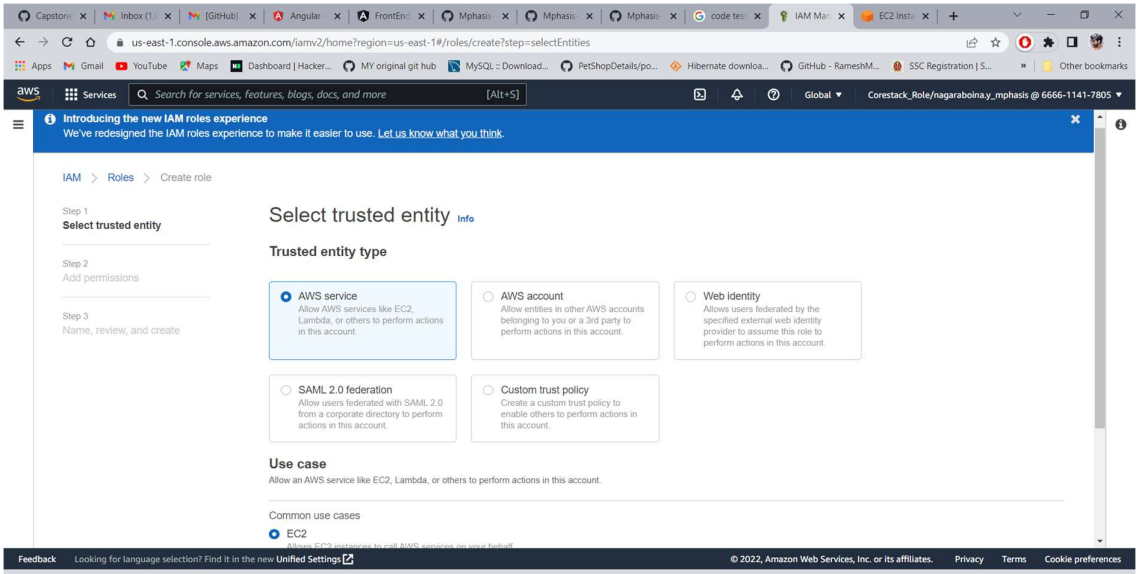

Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
CapstoneDemo
i-03be299ce3b7fcf5a
Running
t2.micro
2/2 checks passed
No alarms
us-east-1a
Instance: i-03be299ce3b7fcf5a (CapstoneDemo)
Details
Security
Networking
Storage
Status checks
Monitoring
Tags
Public IPv4 address copied
Instance summary Info
Instance ID
i-03be299ce3b7fcf5a (CapstoneDemo)
18.204.18.30 | open address
Private IPv4 addresses
172.31.90.152
IPv6 address
Instance state
Running
Public IPv4 DNS
ec2-18-204-18-30.compute-1.amazonaws.com | open address

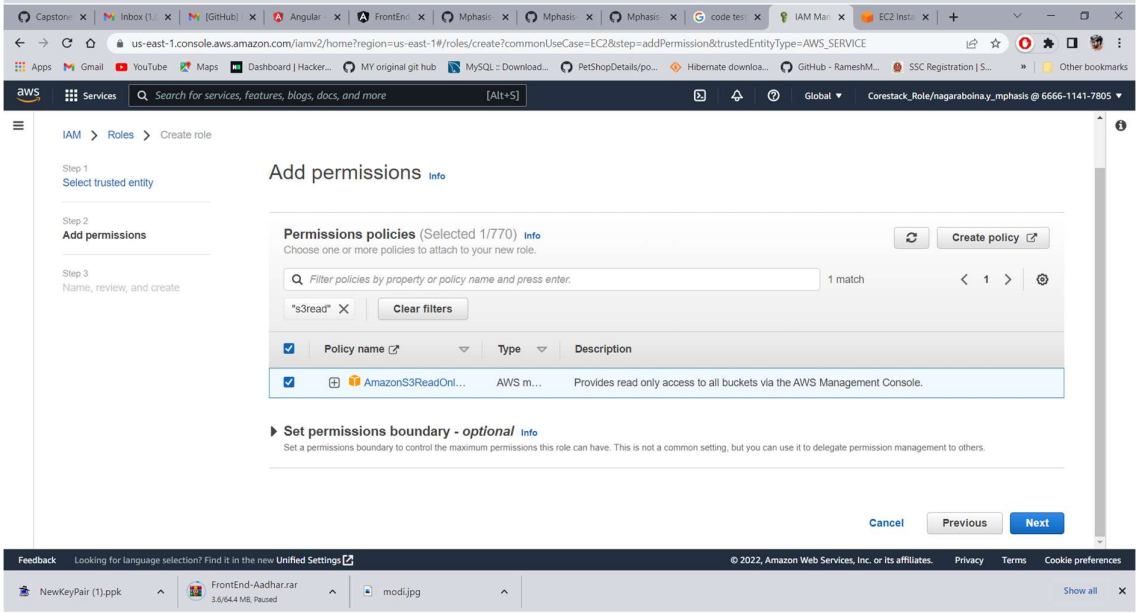
Add The Port -8080 to Security Groups.



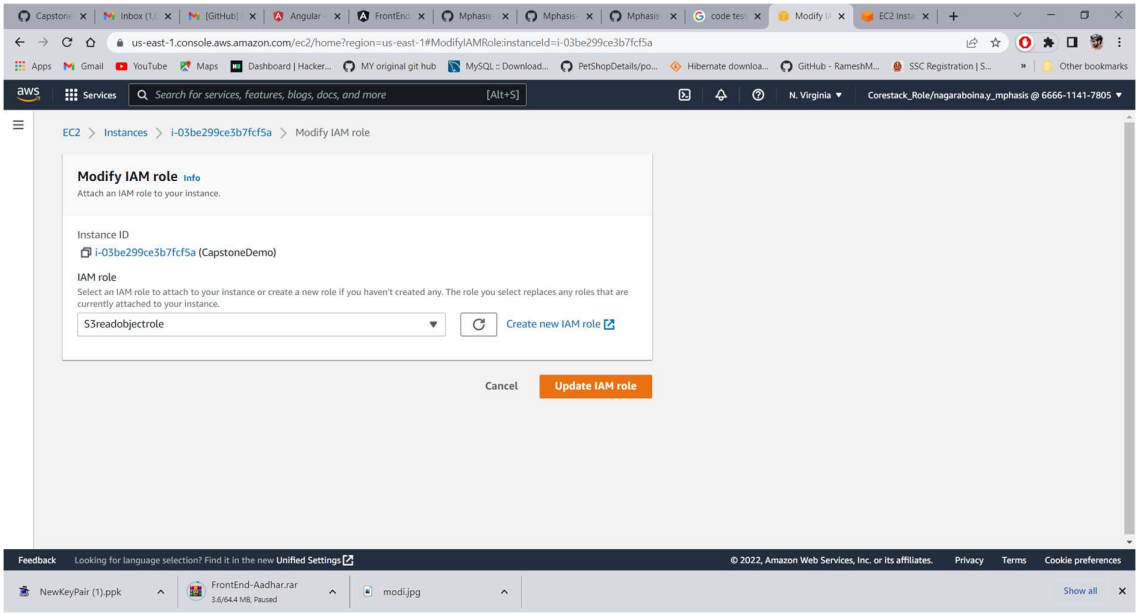
Create A New Role for the EC2 instance.

- Created a role to read S3 Objects.

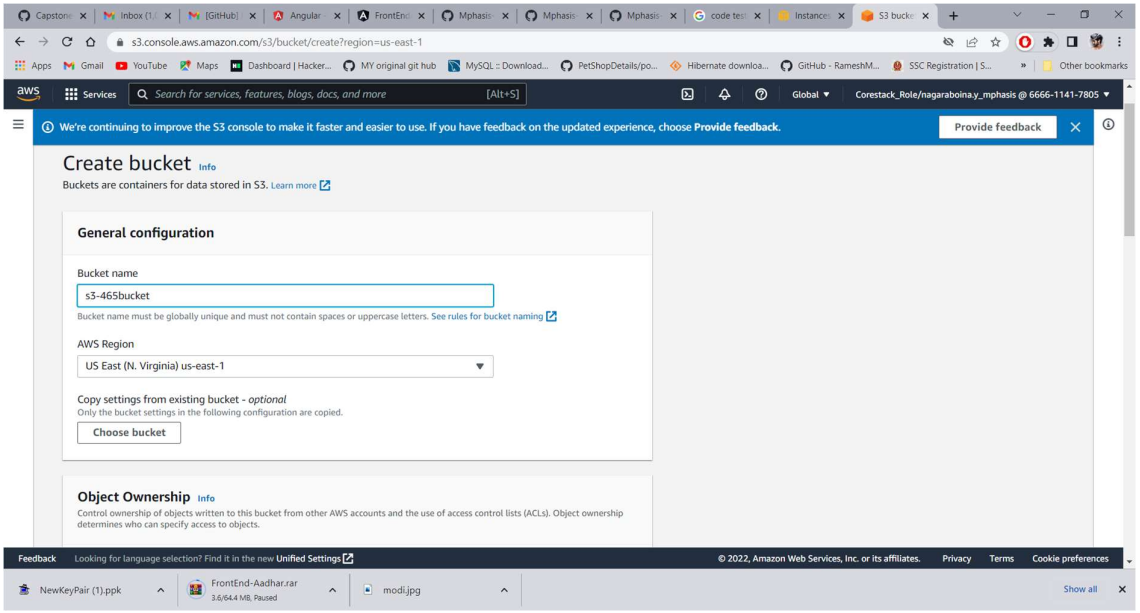

us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles/create?step=selectEntities
Search for services, features, blogs, docs, and more [Alt+S]
Global
Corestack_Role/nagaraboina.y_mphasis @ 6666-1141-7805
Introducing the new IAM roles experience
We've redesigned the IAM roles experience to make it easier to use. Let us know what you think.
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Select trusted entity Info
Trusted entity type
AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Common use cases
EC2
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
NewKeyPair (1).ppk
FrontEnd-Aadhar.rar
3.6/64.4 MB, Paused
modi.jpg
Show all

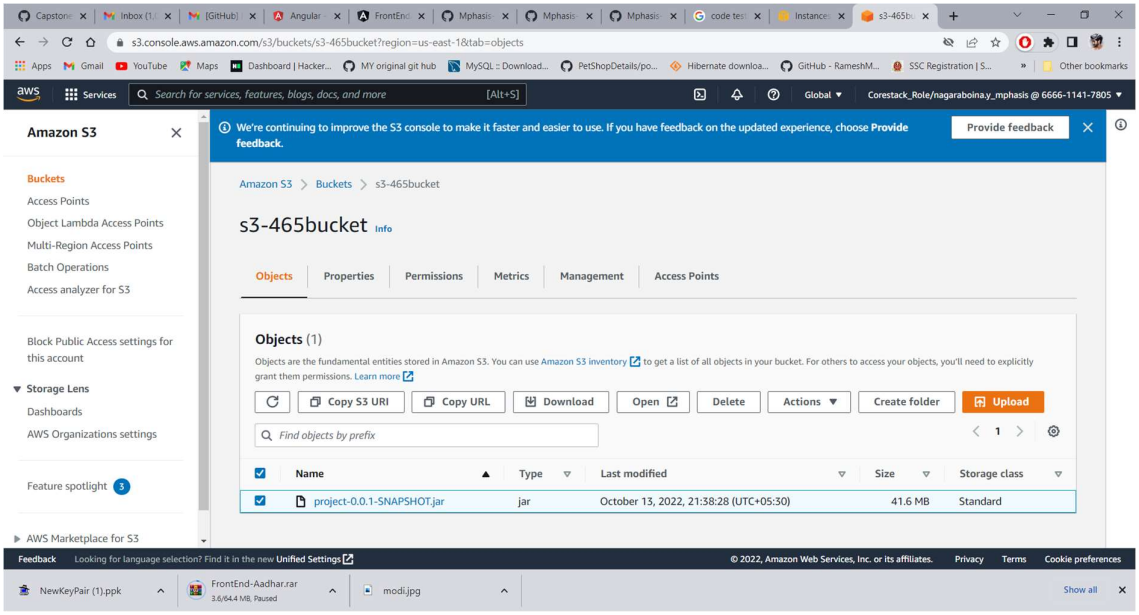

us-east-1.console.aws.amazon.com/iamv2/home?region=us-east-1#/roles/create?commonUseCase=EC2&step=addPermission&trustedEntityType=AWS_SERVICE
Search for services, features, blogs, docs, and more [Alt+S]
Global
Corestack_Role/nagaraboina.y_mphasis @ 6666-1141-7805
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions Info
Permissions policies (Selected 1/770) Info
Choose one or more policies to attach to your new role.
Create policy
Filter policies by property or policy name and press enter.
1 match
"s3read"
Clear filters
Policy name
Type
Description
AmazonS3ReadOnl…
AWS m…
Provides read only access to all buckets via the AWS Management Console.
Set permissions boundary - optional Info
Set a permissions boundary to control the maximum permissions this role can have. This is not a common setting, but you can use it to delegate permission management to others.
Cancel
Previous
Next
Feedback
Looking for language selection? Find it in the new Unified Settings
© 2022, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
NewKeyPair (1).ppk
FrontEnd-Aadhar.rar
3.6/64.4 MB, Paused
modi.jpg
Show all

Now add the Role To the instance.

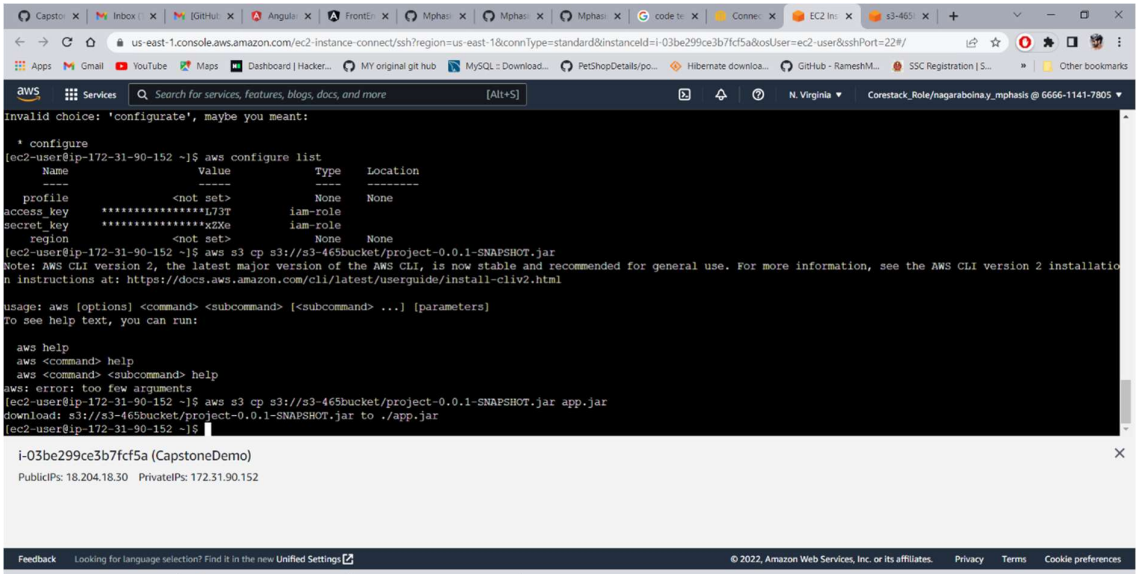


Create a S3 Bucket and add the SNAPSHOT.jar into the Bucket.



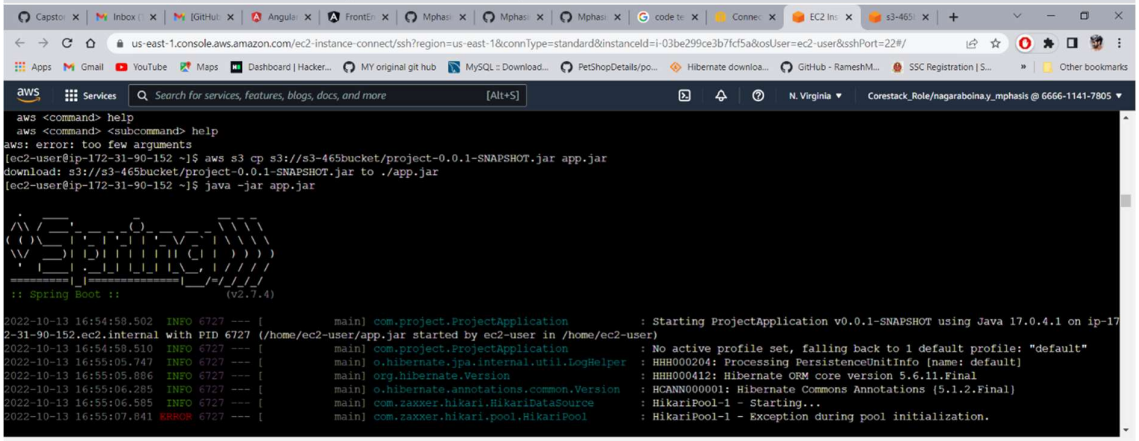


Now Run the jar File from Bucket through EC2.



i-03be299ce3b7fcf5a (CapstoneDemo)

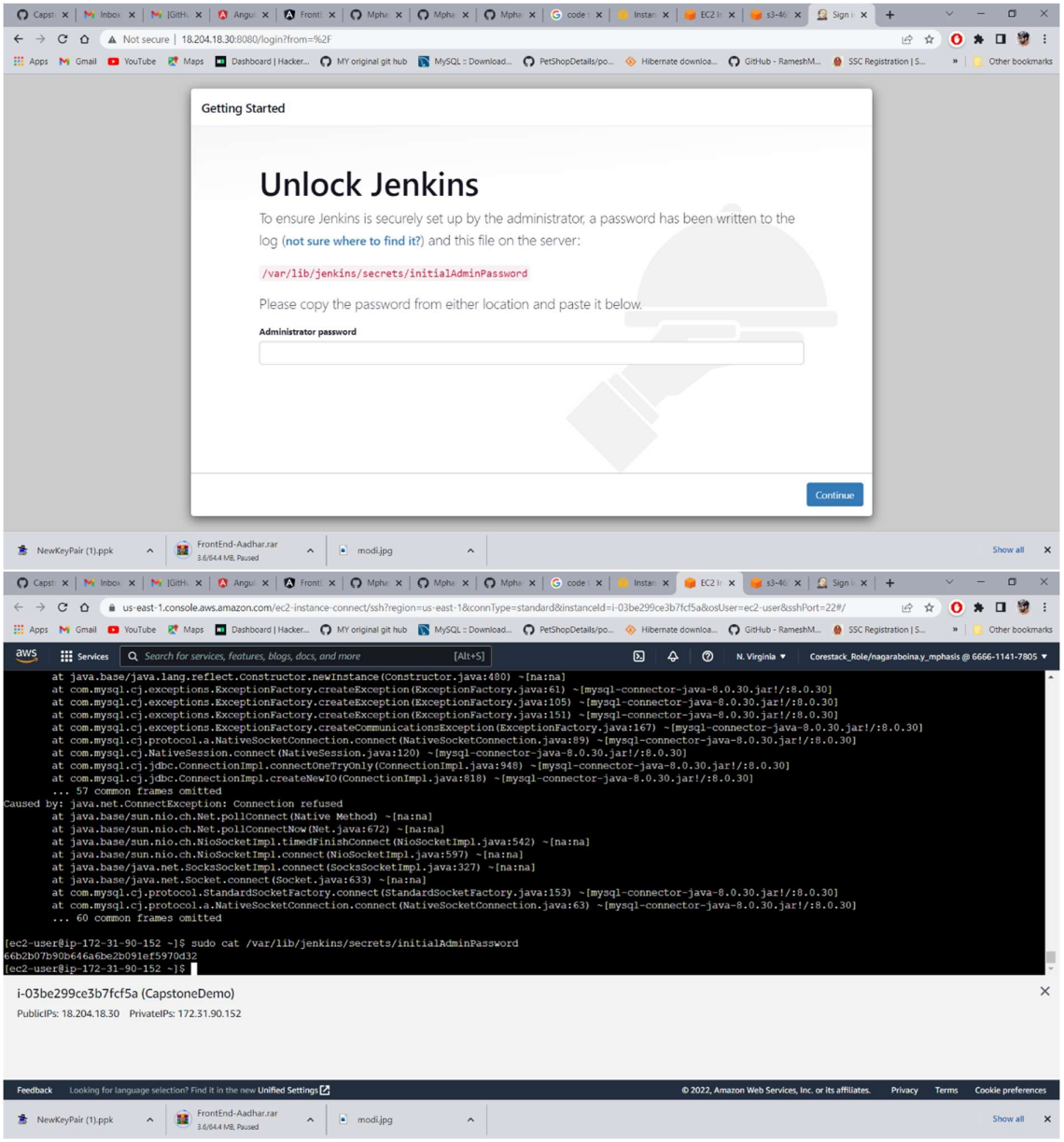
PublicIPs: 18.204.18.30 PrivateIPs: 172.31.90.152

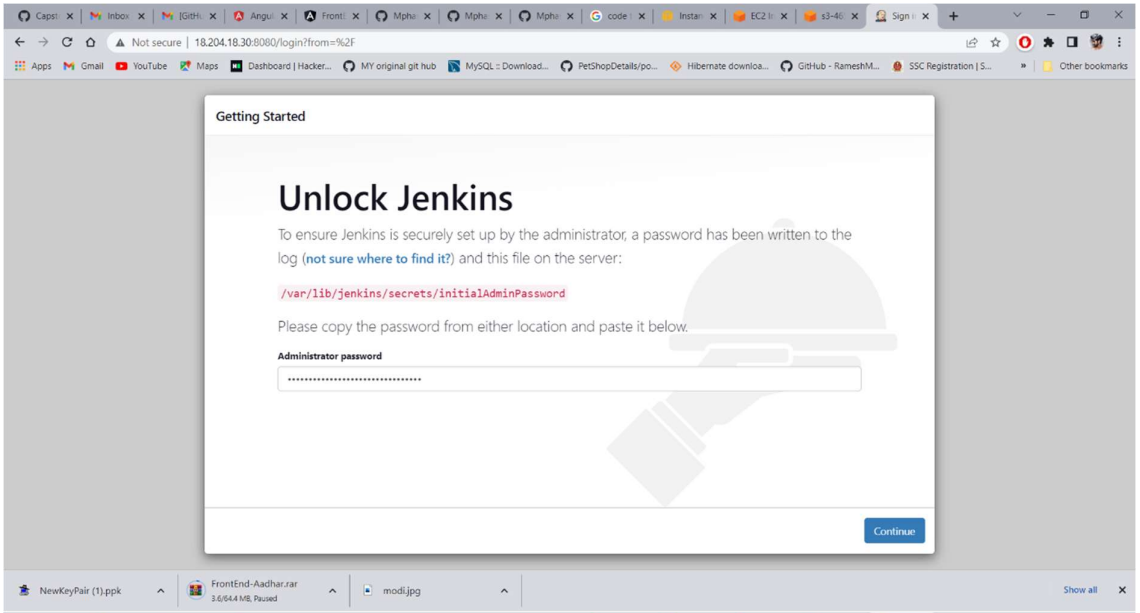


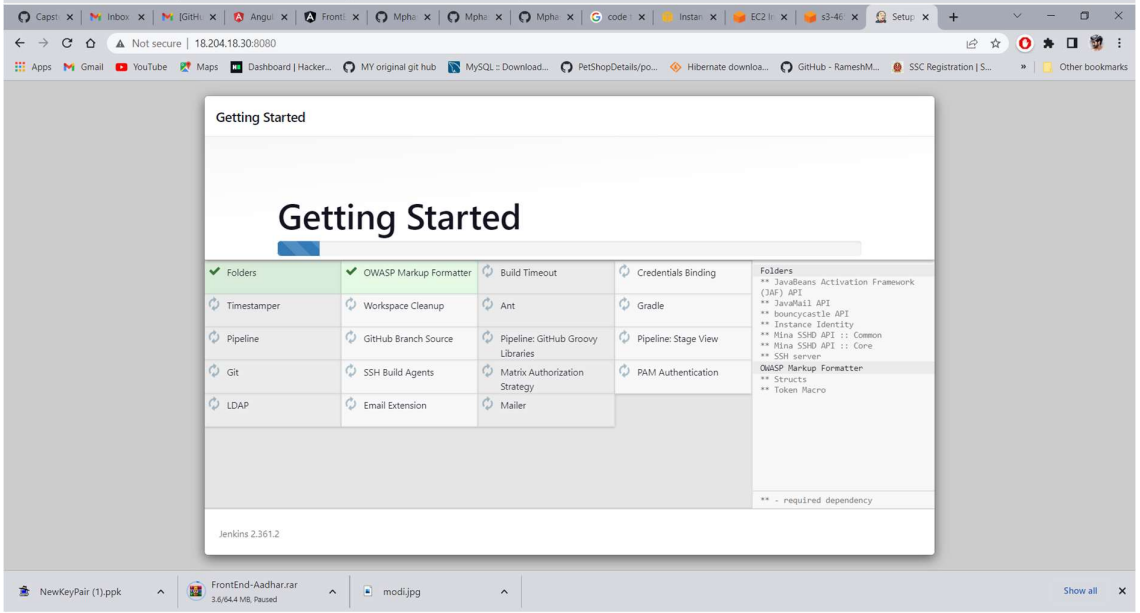
i-03be299ce3b7fcf5a (CapstoneDemo)

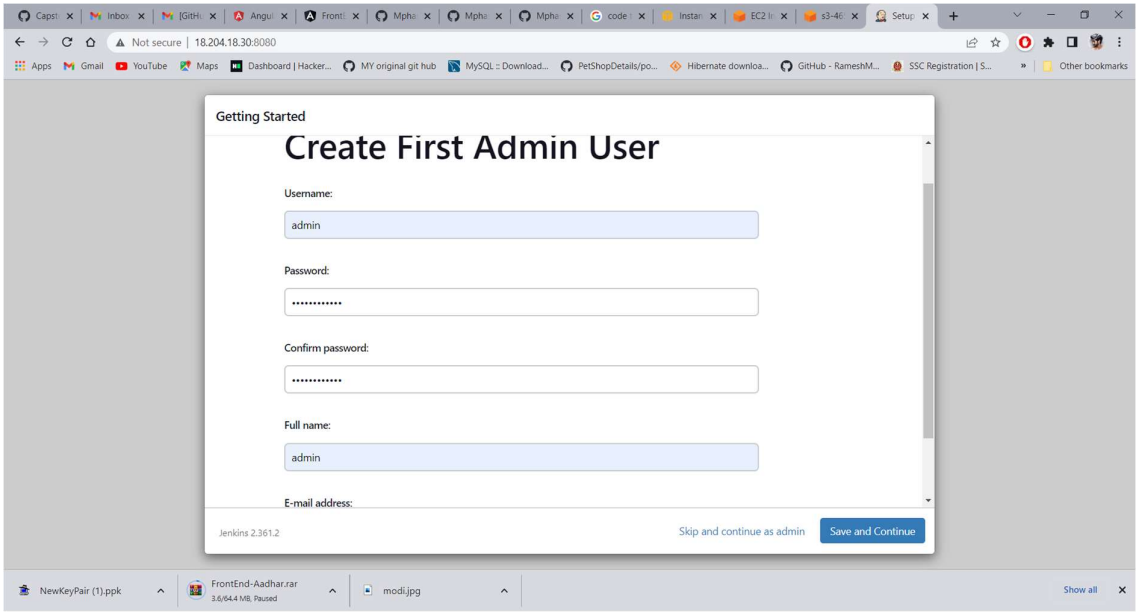
PublicIPs: 18.204.18.30 PrivateIPs: 172.31.90.152

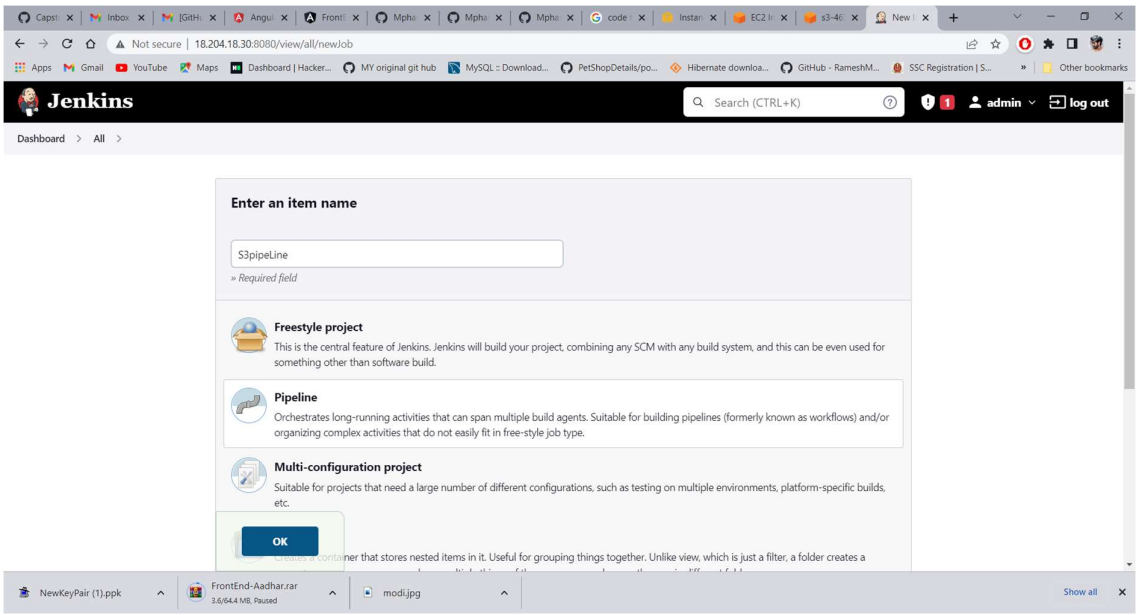
- Configuring CI/CD through Jenkins

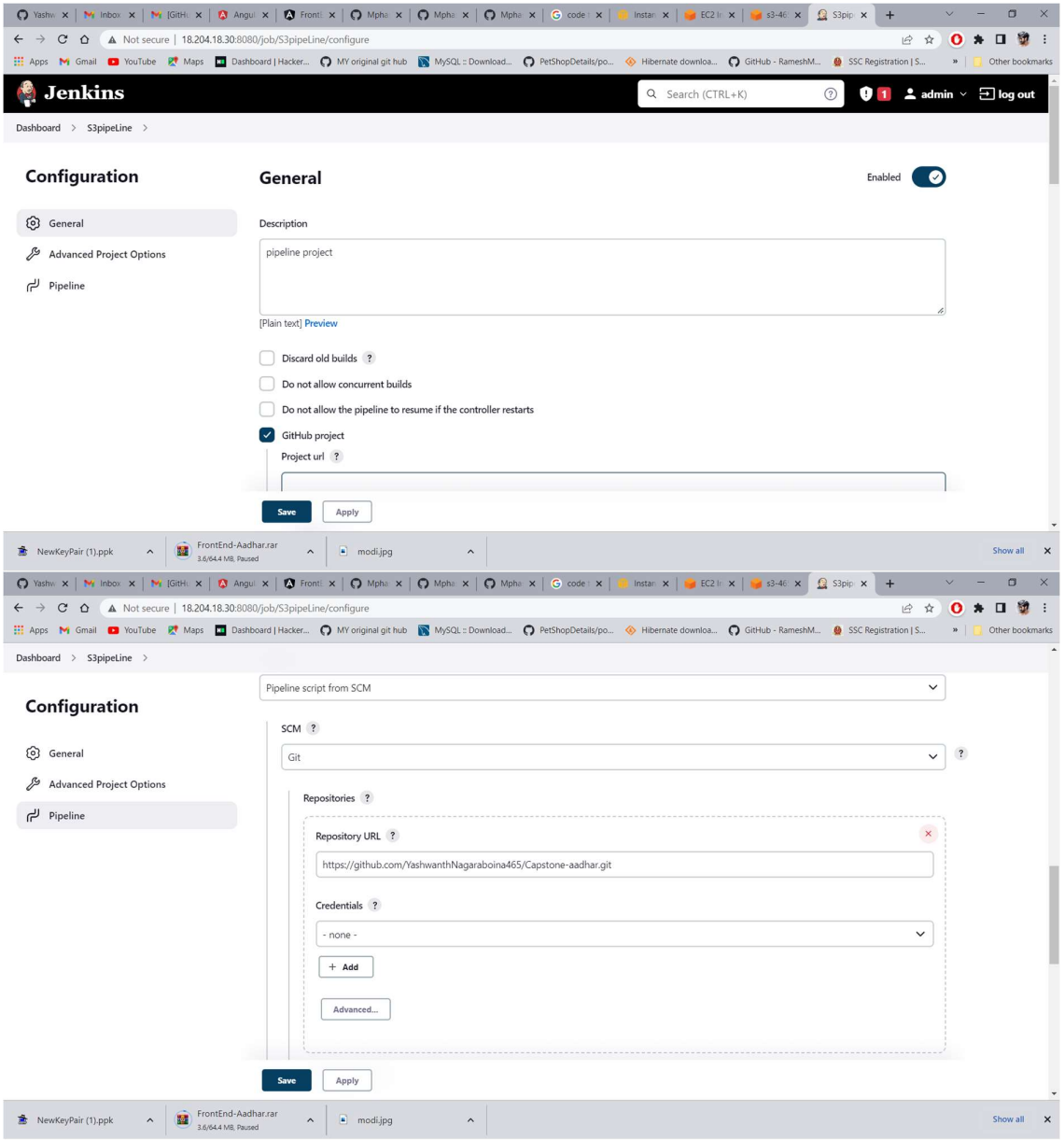



Not secure | 18.204.18.30:8080/login?from=%2F
Getting Started
Unlock Jenkins
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:
/var/lib/jenkins/secrets/initialAdminPassword
Please copy the password from either location and paste it below.
Administrator password
Continue
NewKeyPair (1).ppk
FrontEnd-Aadhar.rar
3.6/64.4 MB, Paused
modi.jpg
Show all


Not secure | 18.204.18.30:8080
Getting Started
Getting Started
Folders
OWASP Markup Formatter
Build Timeout
Credentials Binding
Timestamper
Workspace Cleanup
Ant
Gradle
Pipeline
GitHub Branch Source
Pipeline: GitHub Groovy Libraries
Pipeline: Stage View
Git
SSH Build Agents
Matrix Authorization Strategy
PAM Authentication
LDAP
Email Extension
Mailer
Folders
** JavaBeans Activation Framework (JAF) API
** JavaMail API
** bouncycastle API
** Instance Identity
** Mina SSHD API :: Common
** Mina SSHD API :: Core
** SSH server
OWASP Markup Formatter
** Structs
** Token Macro
** - required dependency
Jenkins 2.361.2
NewKeyPair (1).ppk
FrontEnd-Aadhar.rar
3.6/64.4 MB, Paused
modi.jpg
Show all

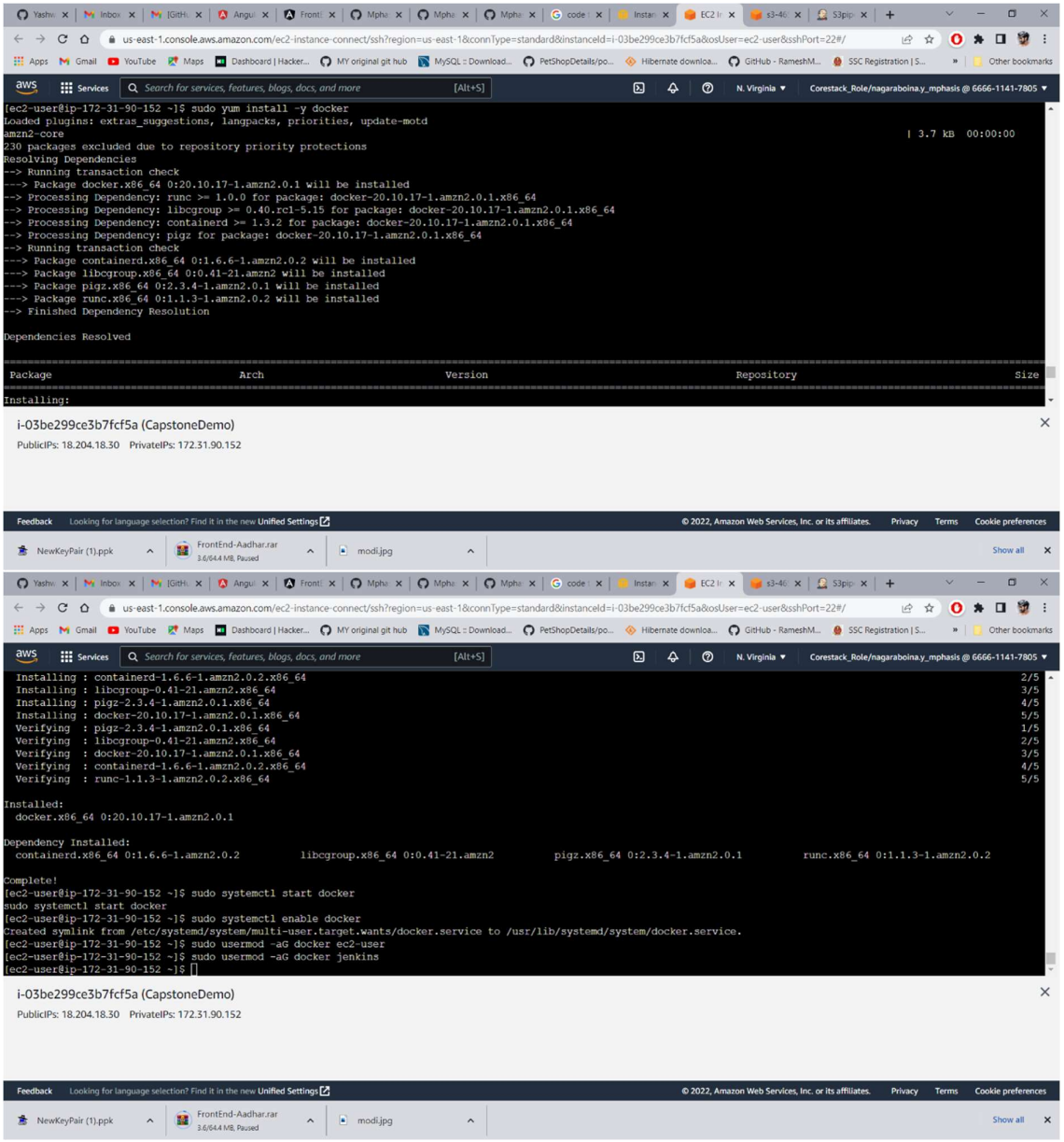

Not secure | 18.204.18.30:8080
Getting Started
Create First Admin User
Username:
admin
Password:
Confirm password:
Full name:
admin
E-mail address:
Jenkins 2.361.2
Skip and continue as admin
Save and Continue
NewKeyPair (1).ppk
FrontEnd-Aadhar.rar
3.6/64.4 MB, Paused
modi.jpg
Show all


Not secure | 18.204.18.30:8080/view/all/newJob
Jenkins
Search (CTRL+K)
admin
log out
Dashboard
All
Enter an item name
S3pipeLine
» Required field
Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
OK
NewKeyPair (1).ppk
FrontEnd-Aadhar.rar
3.6/64.4 MB, Paused
modi.jpg
Show all


Not secure | 18.204.18.30:8080/job/S3pipeLine/configure
Jenkins
Search (CTRL+K)
admin
log out
Dashboard > S3pipeLine >
Configuration
General
Advanced Project Options
Pipeline
General
Enabled
Description
pipeline project
[Plain text] Preview
Discard old builds
Do not allow concurrent builds
Do not allow the pipeline to resume if the controller restarts
GitHub project
Project url
Save
Apply
NewKeyPair (1).ppk
FrontEnd-Aadhar.rar
3.6/64.4 MB, Paused
modi.jpg
Show all

Not secure | 18.204.18.30:8080/job/S3pipeLine/configure
Dashboard > S3pipeLine >
Configuration
General
Advanced Project Options
Pipeline
Pipeline script from SCM
SCM
Git
Repositories
Repository URL
https://github.com/YashwanthNagaraboina465/Capstone-aadhar.git
Credentials
- none -
+ Add
Advanced...
Save
Apply
NewKeyPair (1).ppk
FrontEnd-Aadhar.rar
3.6/64.4 MB, Paused
modi.jpg
Show all

- Installing &Adding Docker



- Source code is added in another pdf
- My git: https://github.com/YashwanthNagaraboina465/Capstone-aadhar.git