

Project
Insurance Domain
[Ajay Gaur]

Insure Me is a Global leading Insurance provider based out of USA. The company offers products and services like Home Insurance, Health Insurance, Car Insurance and Life Insurances. Initially the company was using a Monolithic application architecture, As the company grown, It started facing difficulties in managing the application infrastructure and application deployments.

Insure-Me has decided to transform its monolithic application architecture to microservice application architecture and opted to go DevOps by implementing CICD pipeline and necessary automations. Insure me has decided to use AWS as primary cloud services provider to create servers, databases, and application deployments.

The company's goal is to deliver the product updates frequently to production with High quality & Reliability. They also want to accelerate software delivery speed, quality and reduce feedback time between developers and testers.

Following are the problems:

- ✓ Building Complex builds is difficult
- ✓ Manual efforts to test various components/modules of the project
- ✓ Incremental builds are difficult to manage, test and deploy
- ✓ Creation of infrastructure and configure it manually is very time consuming
- ✓ Continuous manual monitoring the application is quite challenging.

In order to implement a POC, you are requested to develop a mavenized microservice using spring boot and in memory h2 database.

1. a microservice which exposes below mentioned endpoints as APIs and uses in memory h2 database to store the data.
 - a. /createPolicy (HTTP Method : POST) (Request Body : JSON)
 - b. /updatePolicy/{policy id} (HTTP Method : PUT) (Request Body : JSON)
 - c. /viewPolicy/{policy id} (HTTP Method : GET) (No Request Body)
 - d. /deletePolicy/{policy id} (HTTP Method : DELETE) (No Request Body)
2. Write necessary Junit testcase.
3. Generate HTML report using TestNG.
4. Push your code into your GitHub Repository.

Note: Preload some data into the database.

Later, you need to implement Continuous Integration & Continuous Deployment using following tools:

- ✓ Git - For version control for tracking changes in the code files
- ✓ Jenkins - For continuous integration and continuous deployment
- ✓ Docker - For containerizing applications
- ✓ Ansible - Configuration management tools
- ✓ Selenium - For automating tests on the deployed web application
- ✓ AWS - For creating ec2 machines as servers and deploy the web application

This project will be about how to test the services and deploy code to dev/stage/prod etc, just on a click of button.

Business challenge/requirement

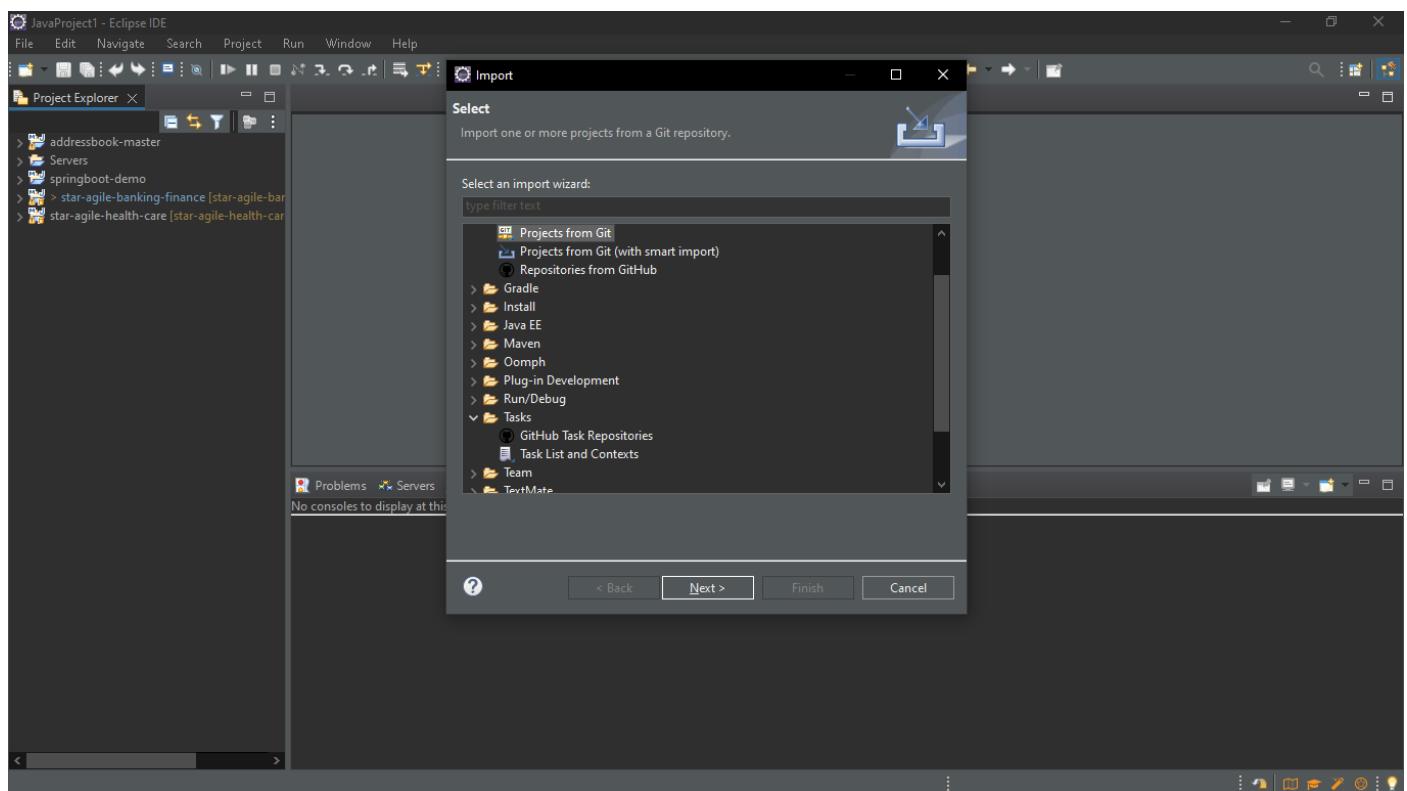
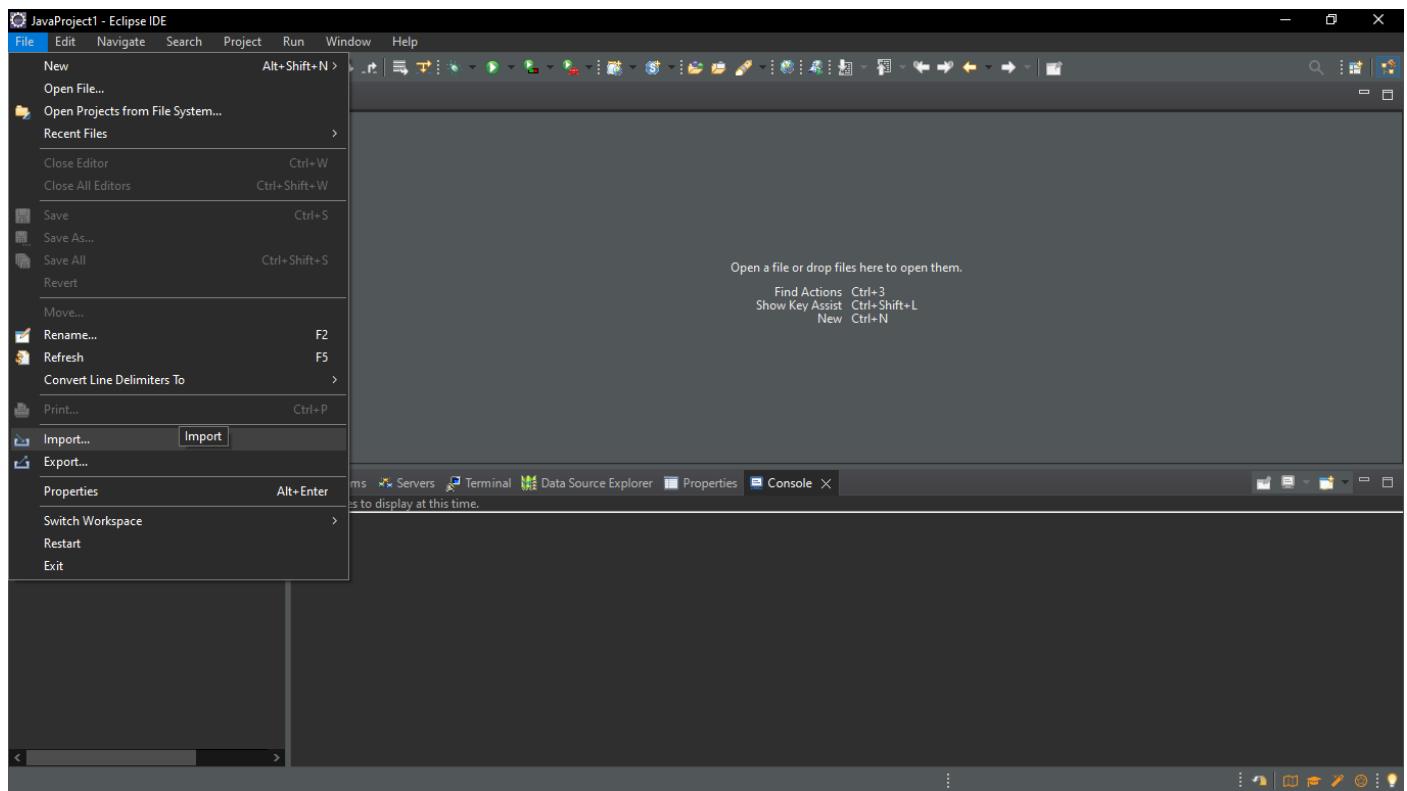
As soon as the developer pushes the updated code on the GIT master branch, the Jenkins job should be triggered using a GitHub Webhook and Jenkins job should be triggered, The code should be checked out, compiled, tested, packaged and containerized and deployed to the preconfigured test-server automatically.

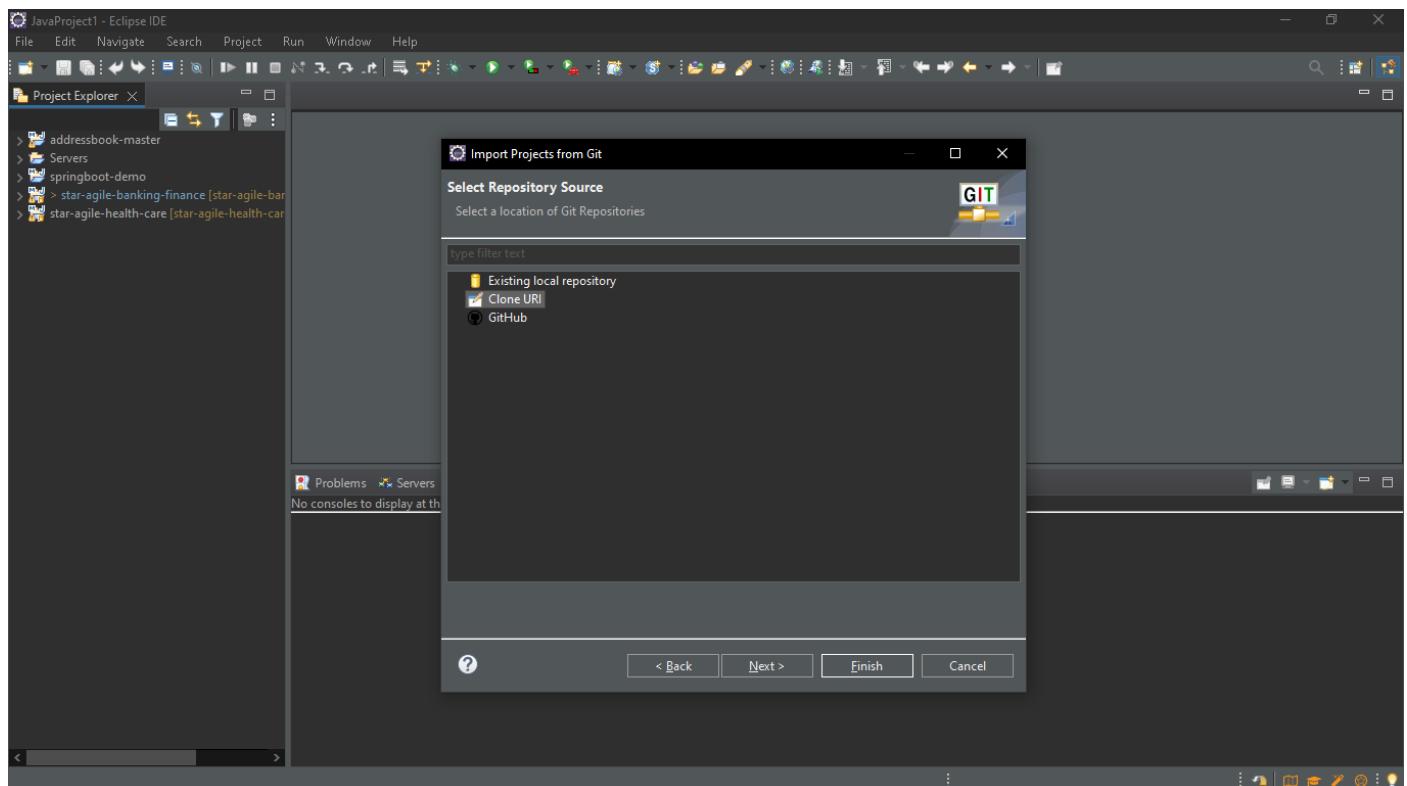
The deployment should then be tested using a test automation tool (Selenium), and if the build is successful, it should be deployed to the prod server. All this should happen automatically and should be triggered from a push to the GitHub master branch.

The solution is available at below repository, use it to validate the solution with the solution available at-

<https://github.com/StarAgileDevOpsTraining/star-agile-insurance-project.git>

Note: To have a detailed information about running the application and exposed APIs, Input/Output format, Refer to the README.md in the GitHub repository.

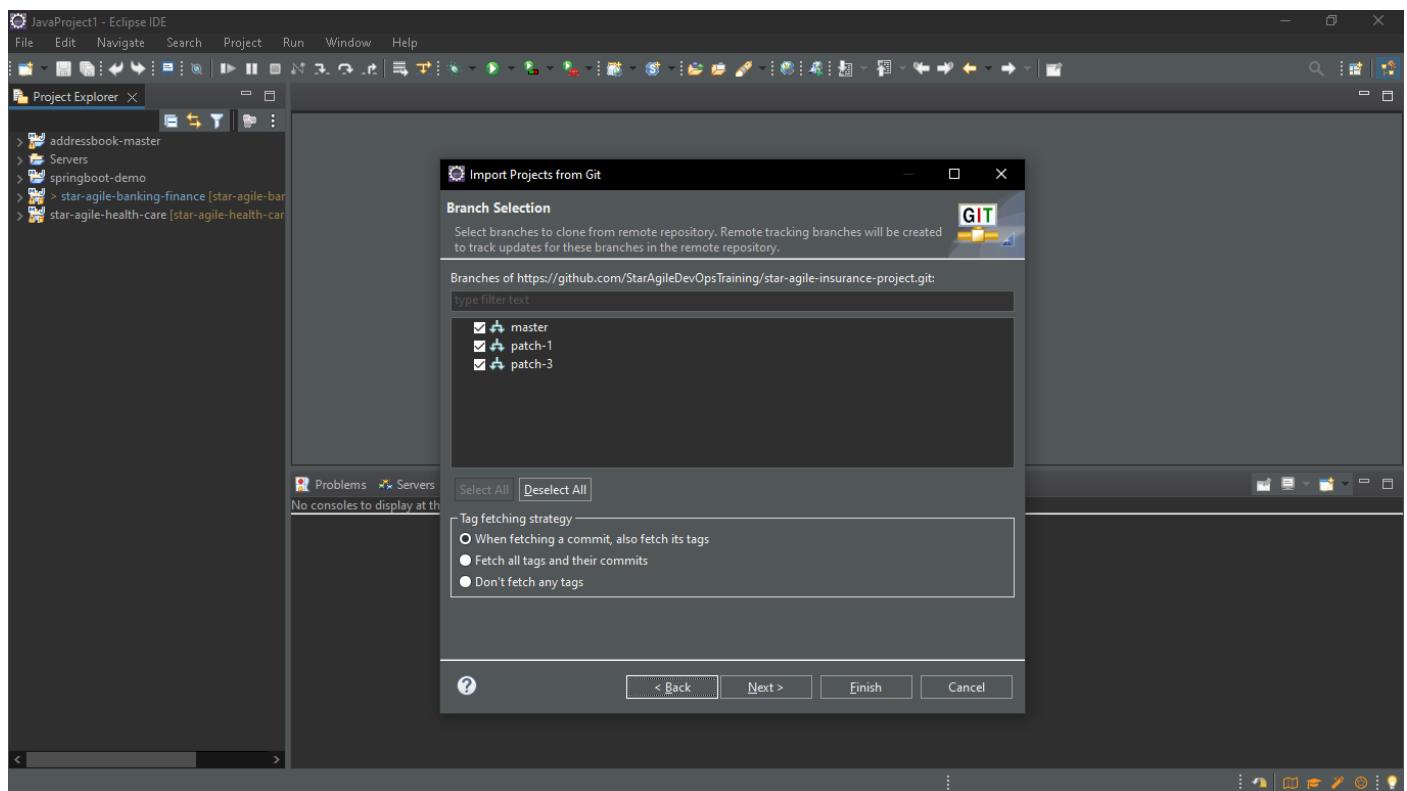
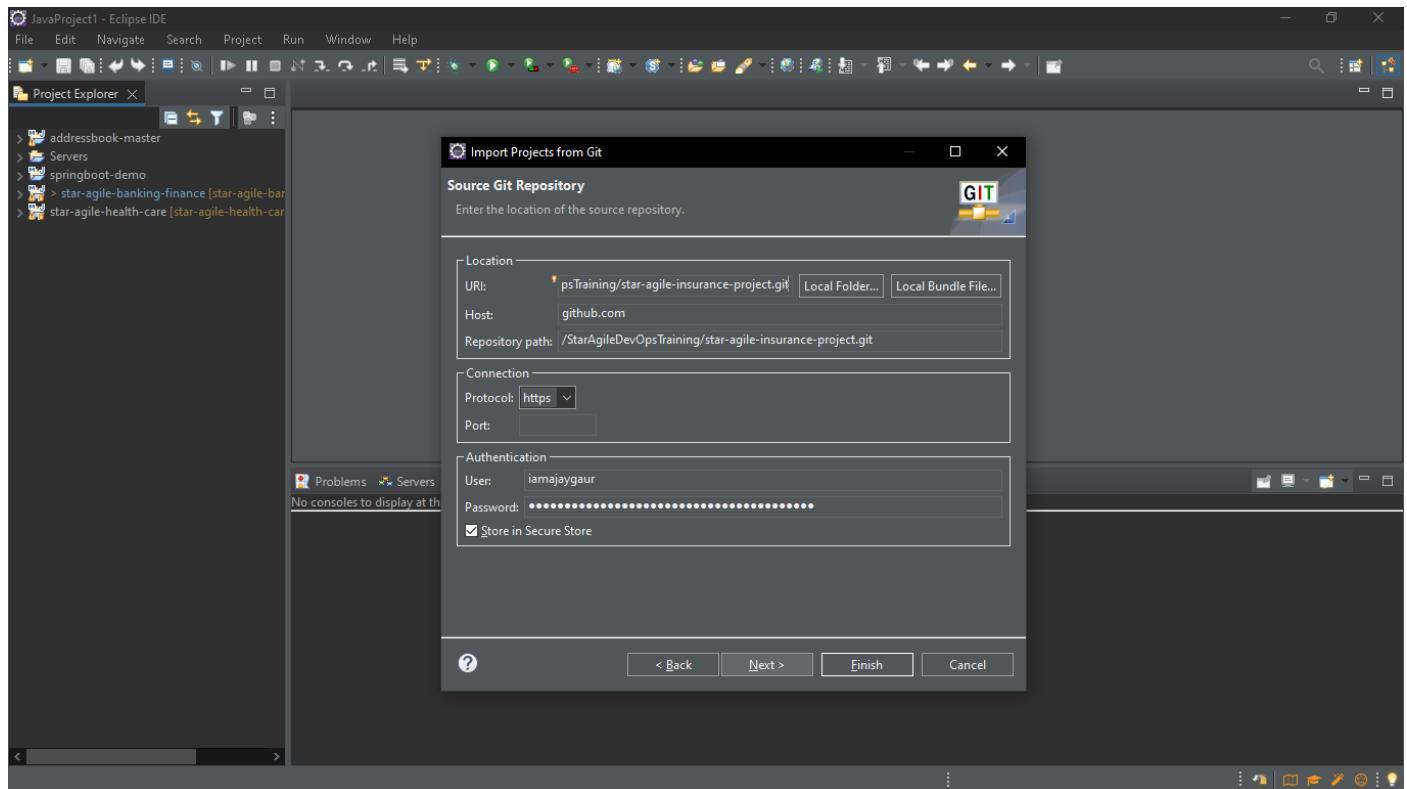




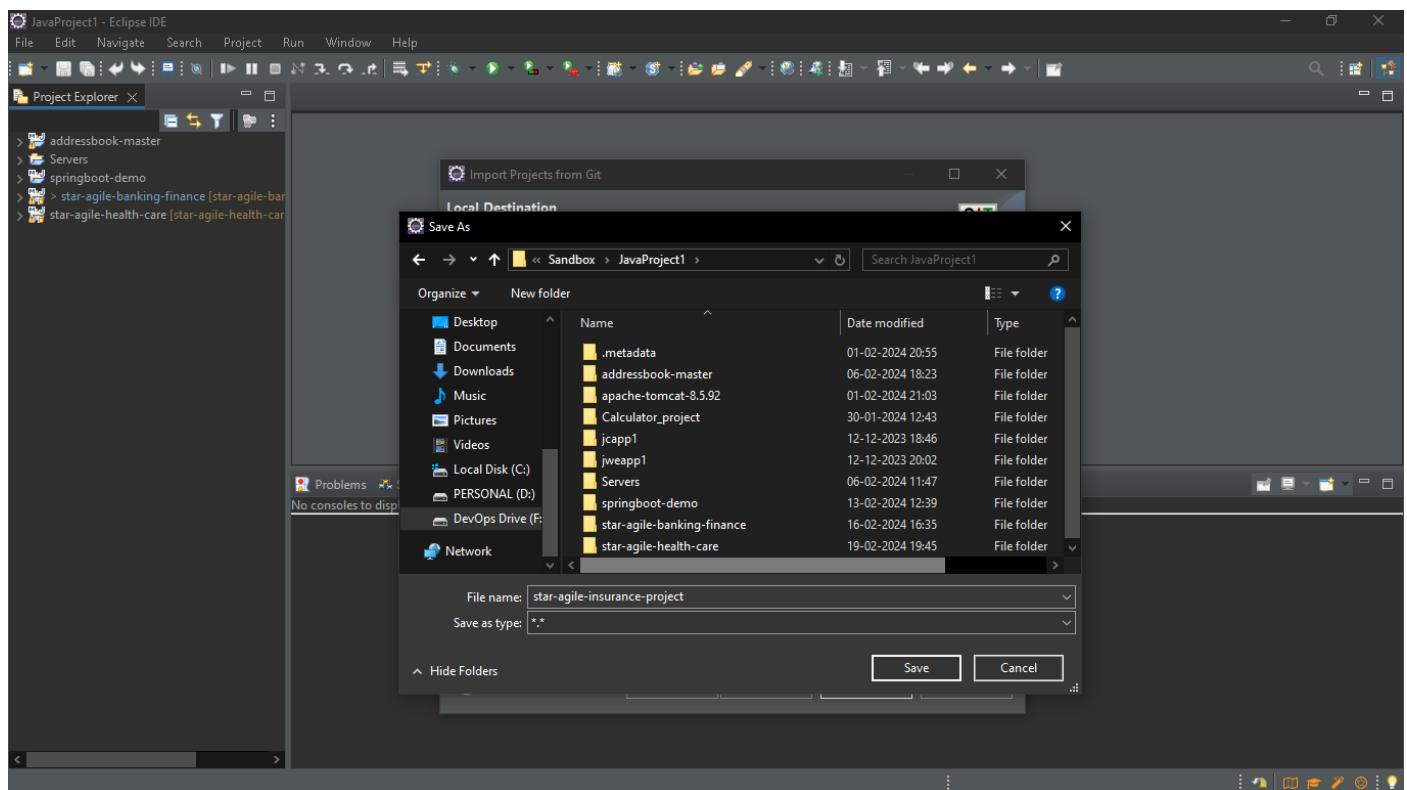
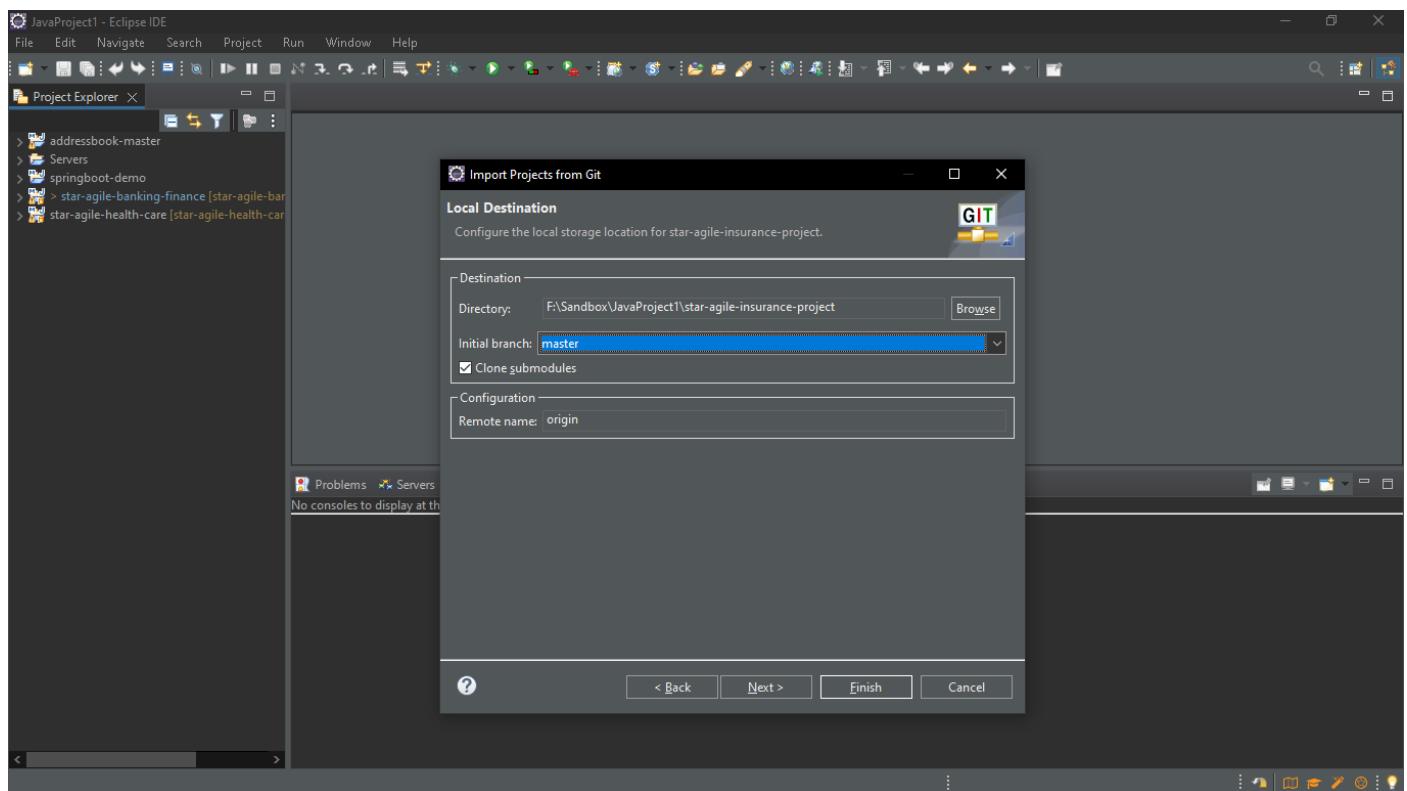
→ <https://github.com/StarAgileDevOpsTraining/star-agile-insurance-project.git>

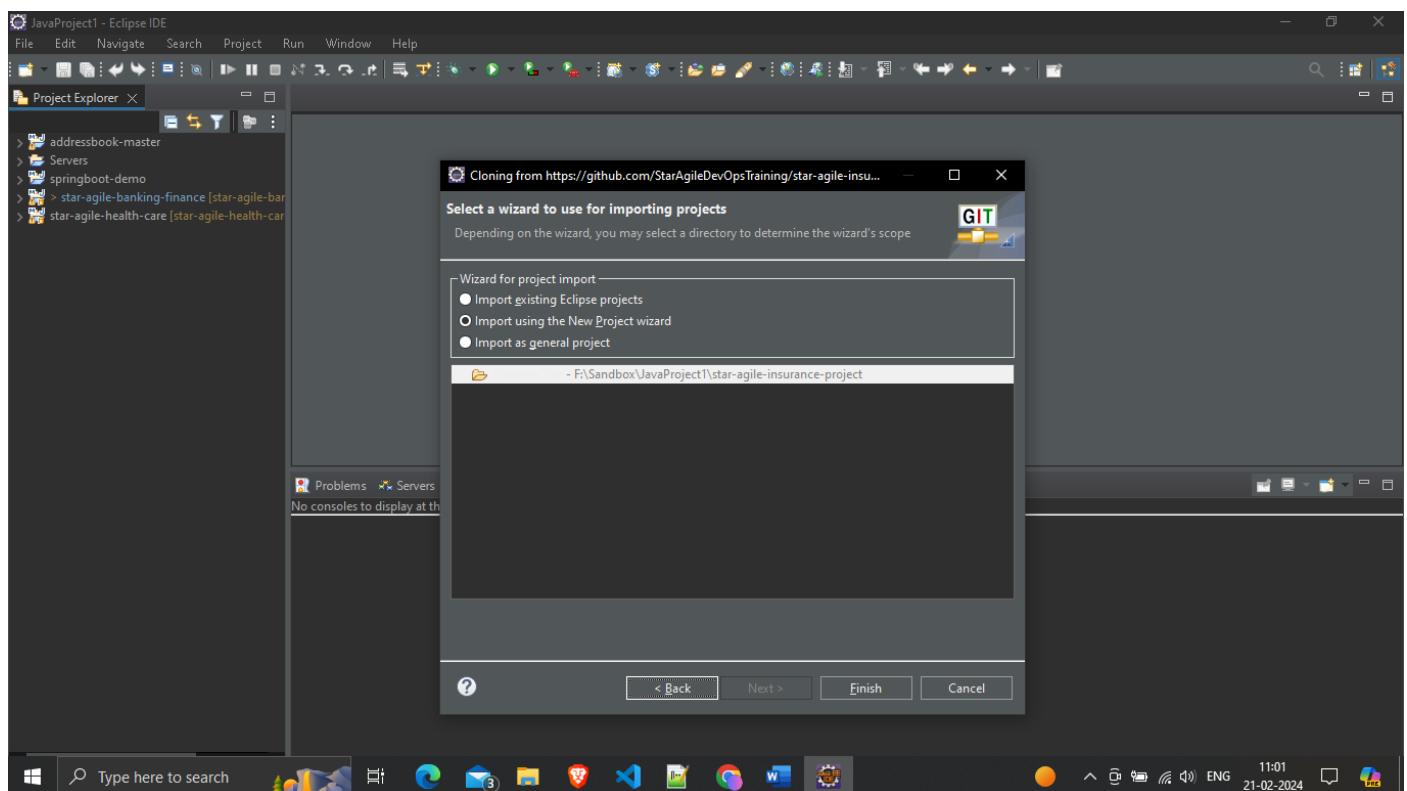
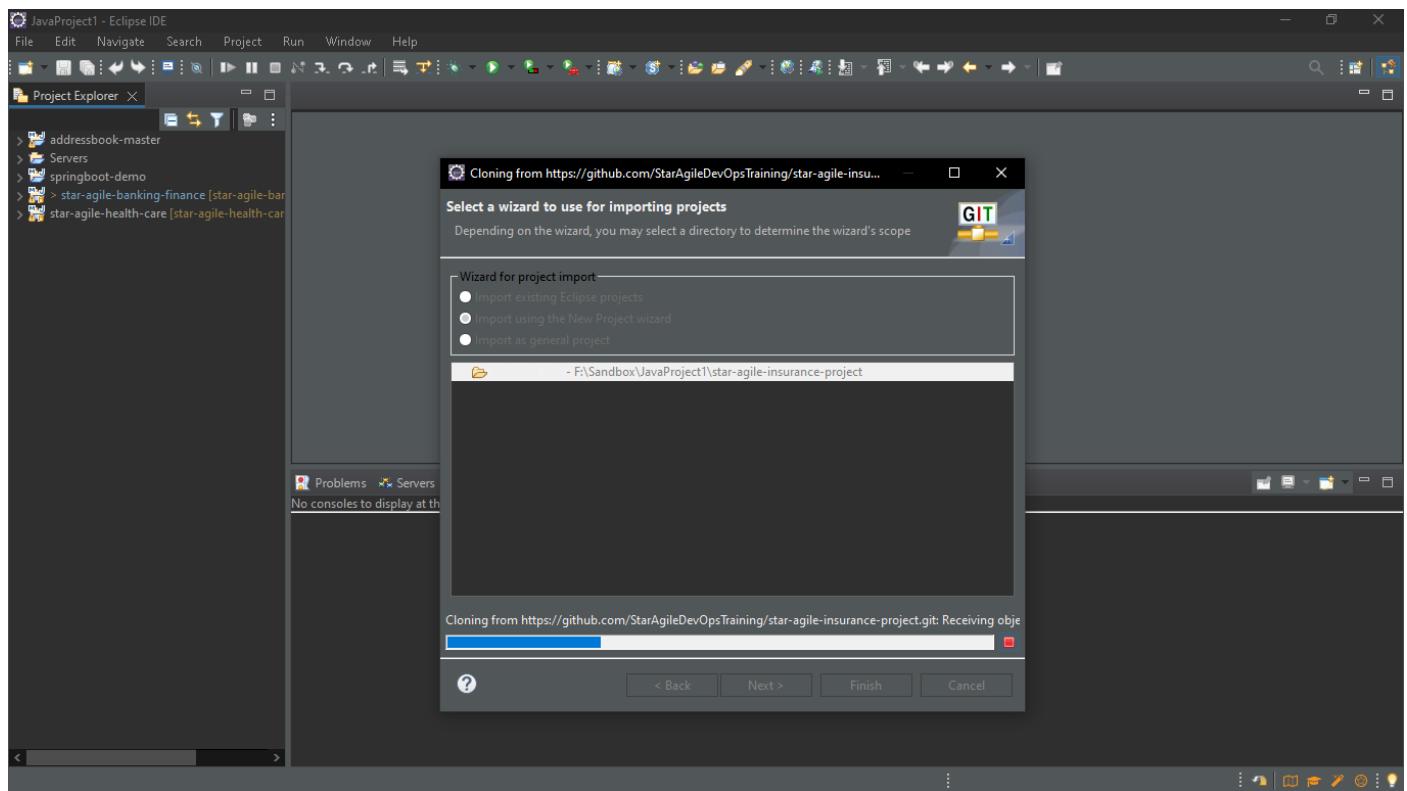
A screenshot of a web browser window showing a GitHub repository page. The URL in the address bar is 'github.com/StarAgileDevOpsTraining/star-agile-insurance-project'. The page header shows the repository name 'star-agile-insurance-project' and its status as 'Public'. It indicates it was forked from 'shubhamkushwah123/star-agile-insurance-project'. The main content area displays the repository's file structure, including '.mvn(wrapper)', 'src', '.gitignore', 'Dockerfile', 'Jenkinsfile', 'README.md', and 'ansible-playbook.yml'. A 'Clone' button is visible, with options for 'HTTPS', 'SSH', and 'GitHub CLI'. The right sidebar contains sections for 'About' (with a note: 'No description, website, or topics provided.'), 'Readme', 'Activity', '2 stars', '0 watching', '140 forks', and links for 'Report repository', 'Releases' (no releases published), and 'Packages' (no packages published). The bottom of the sidebar shows the last update was '2 years ago'.

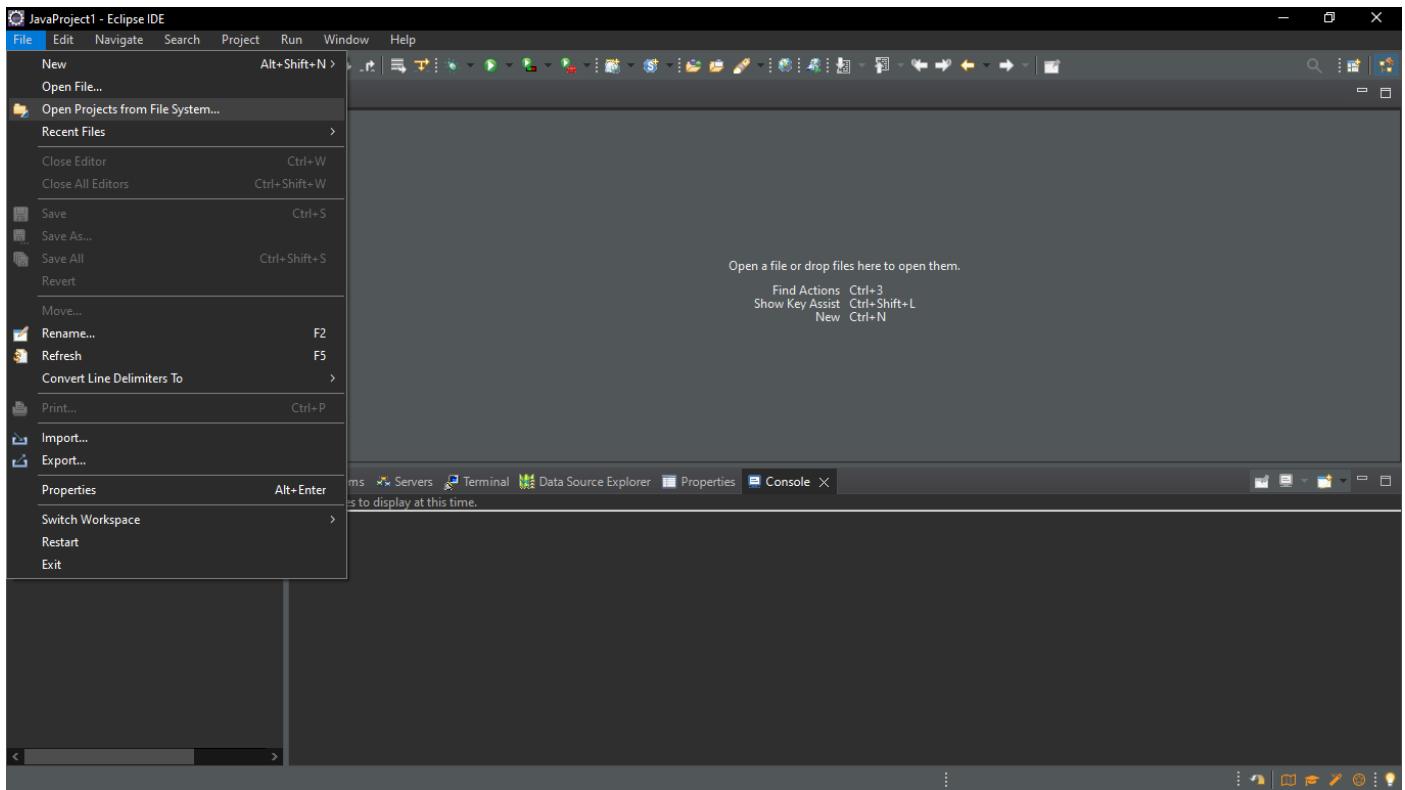
→ <https://github.com/StarAgileDevOpsTraining/star-agile-insurance-project.git>



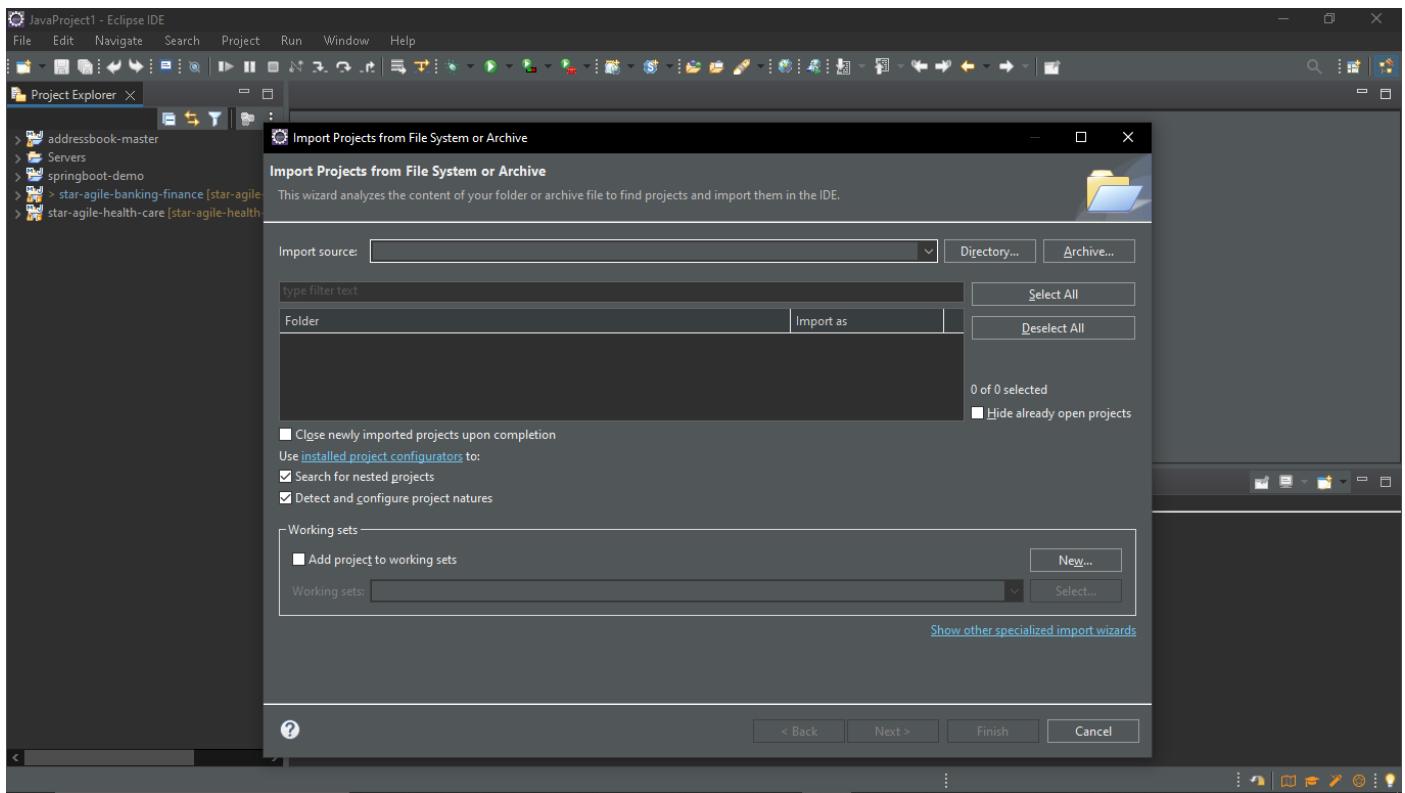
→ Select your Destination where to place the project.

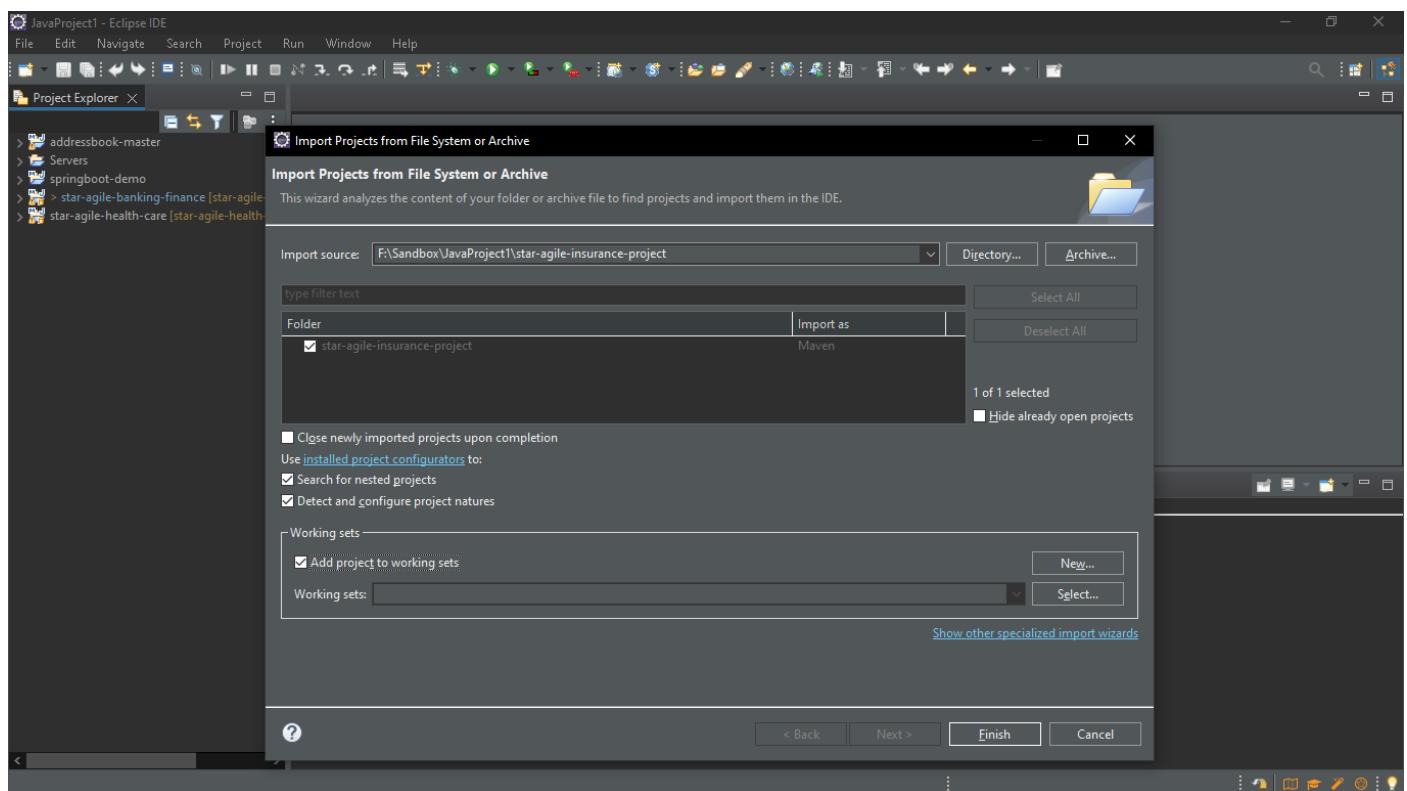
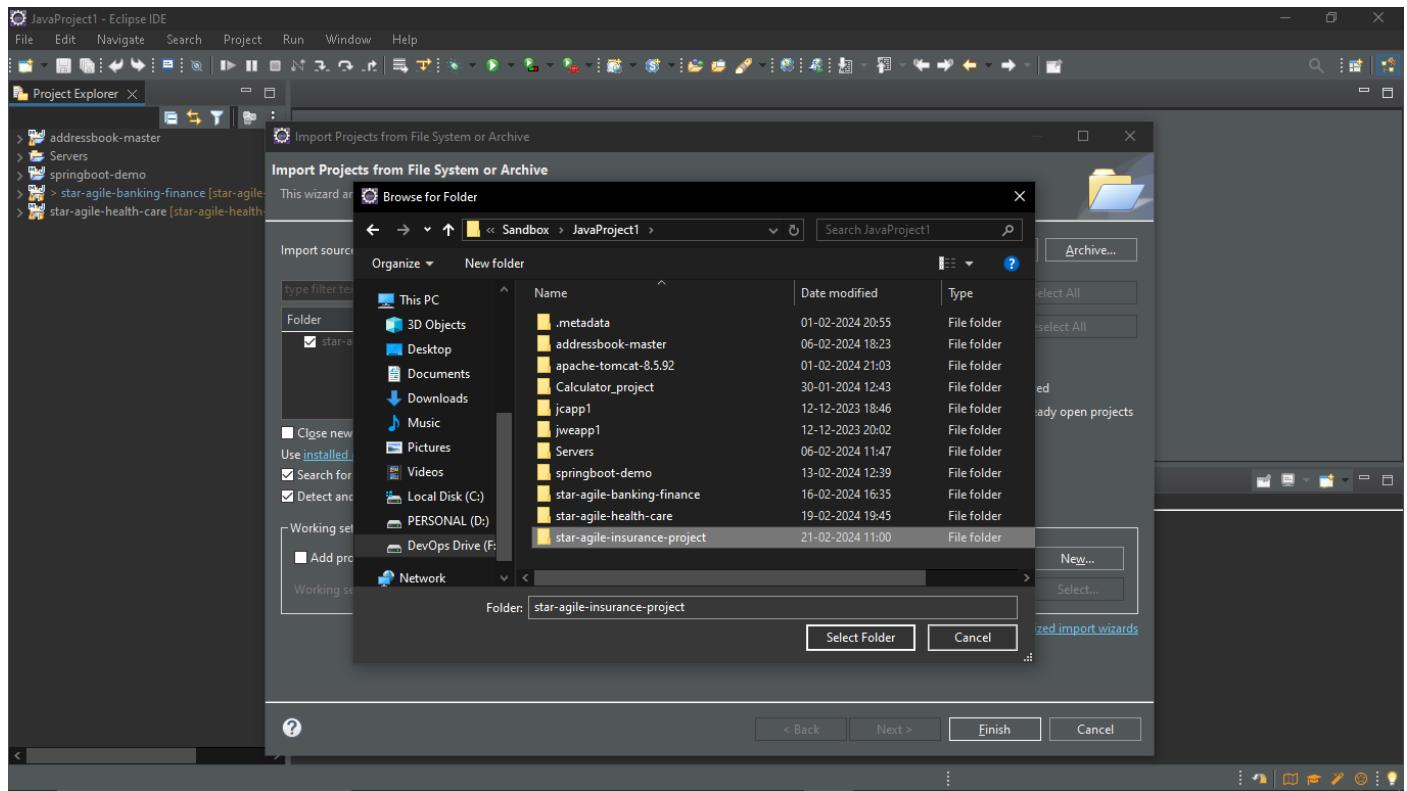


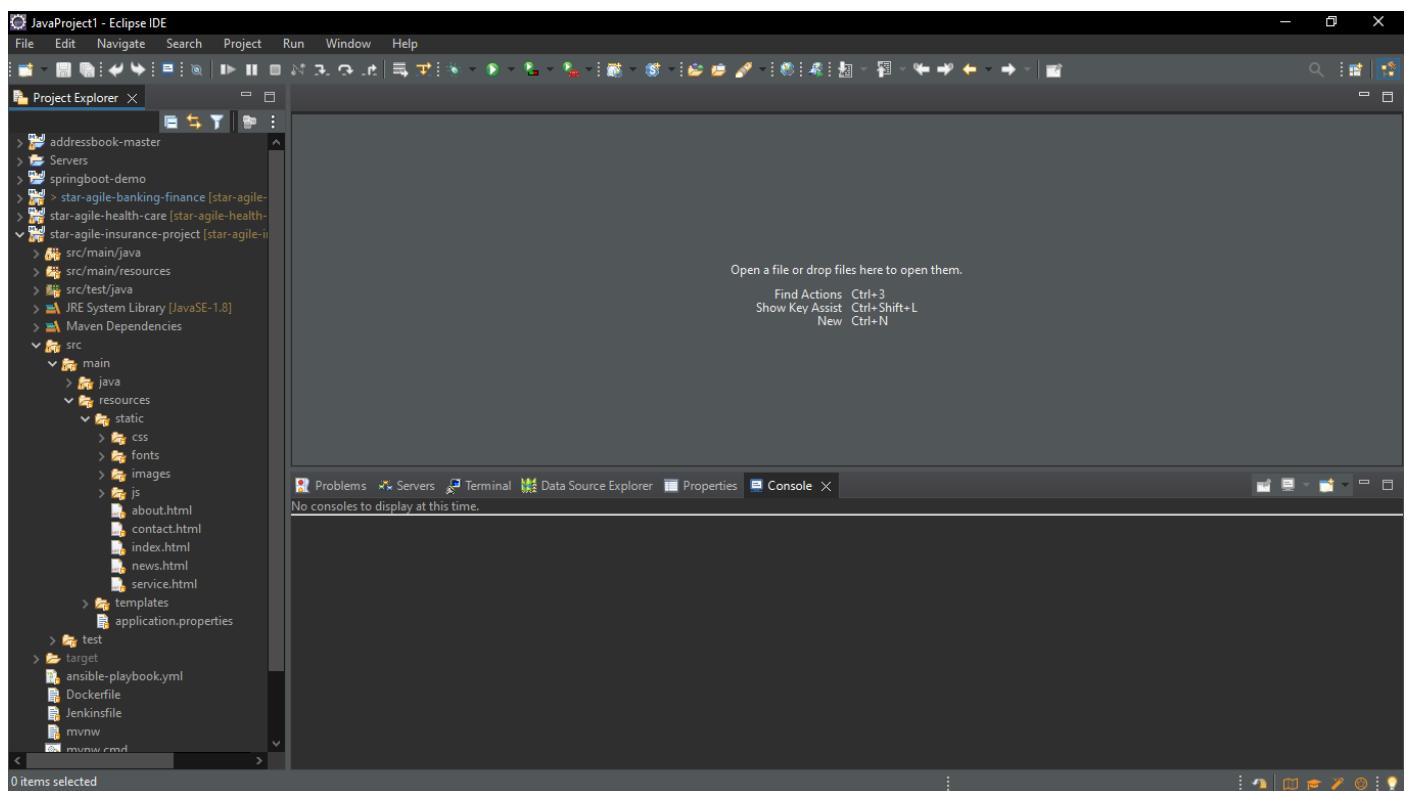
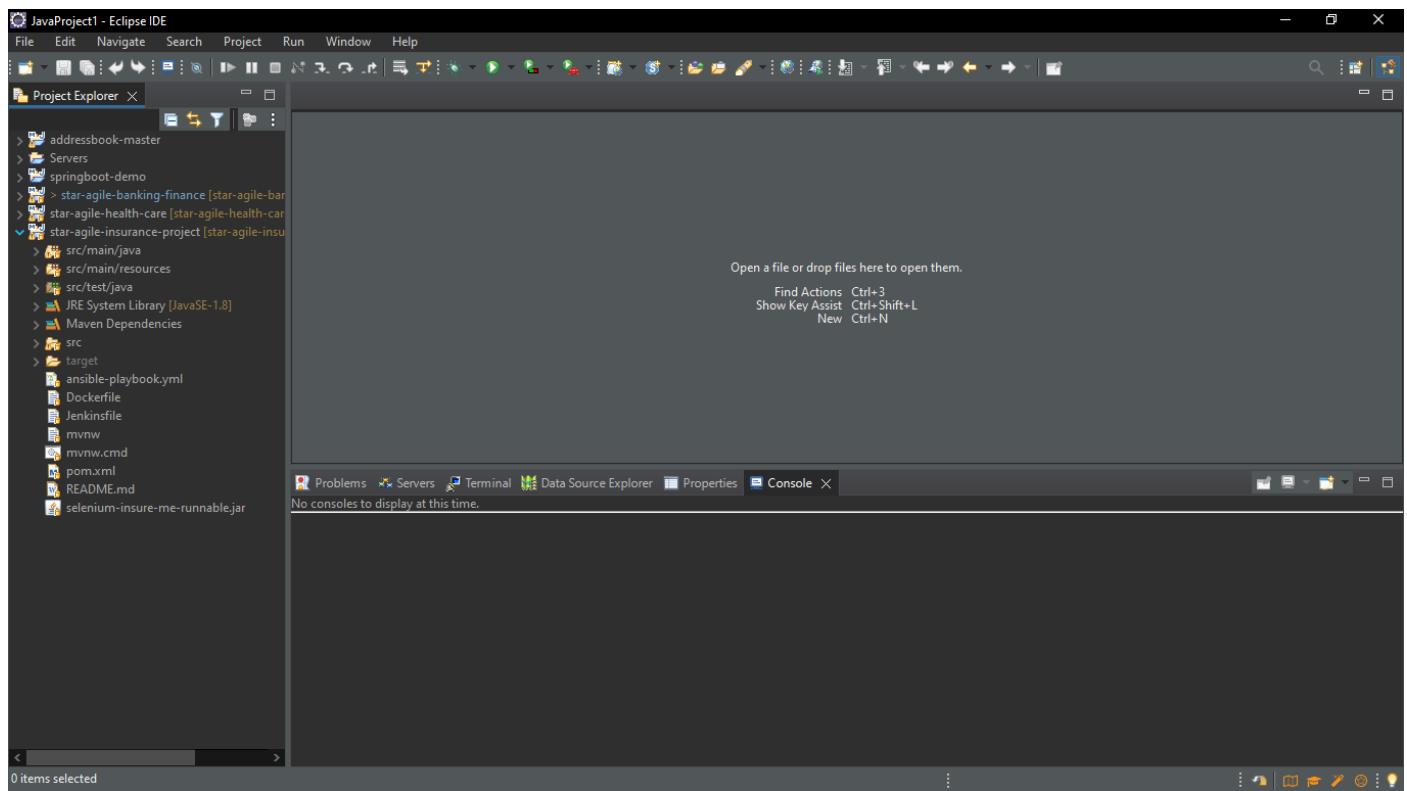


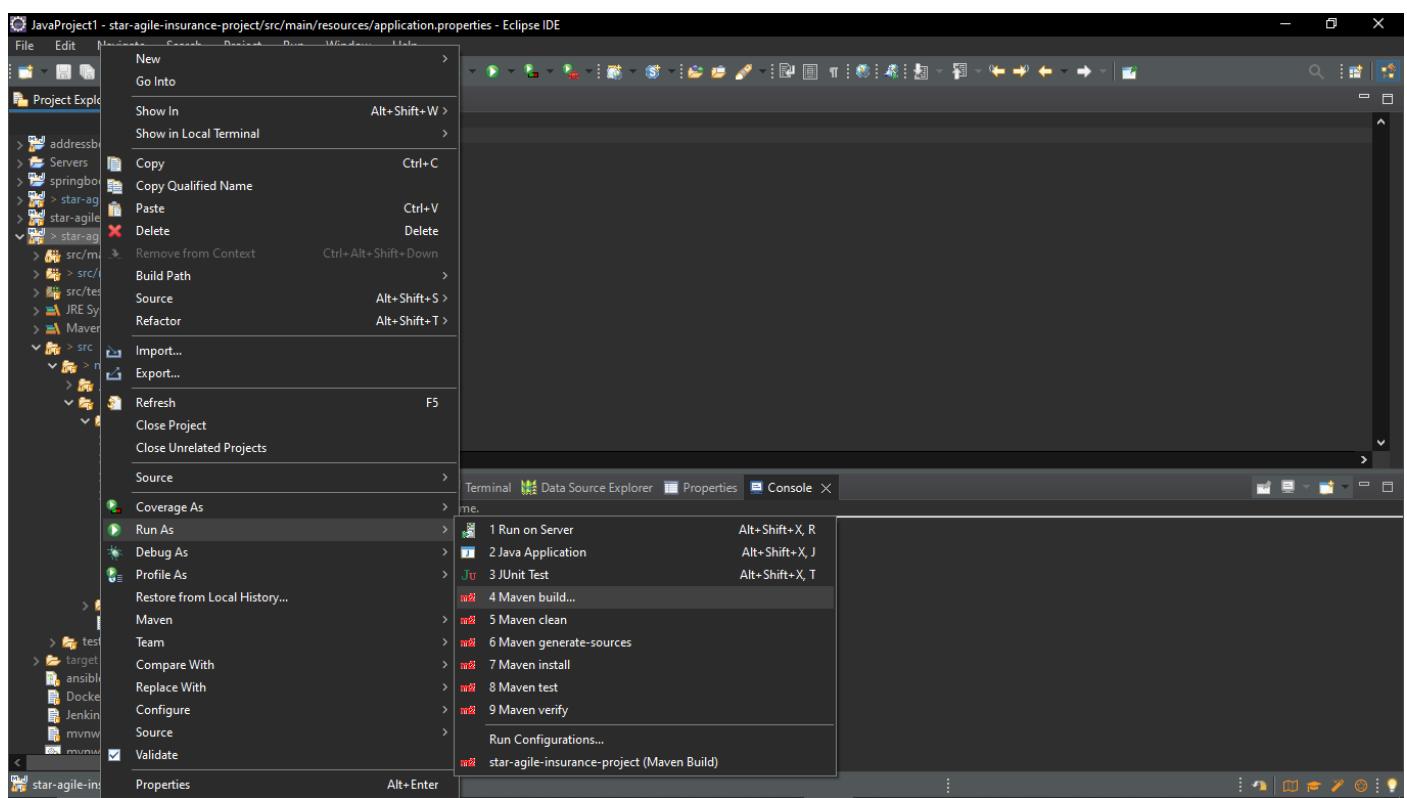
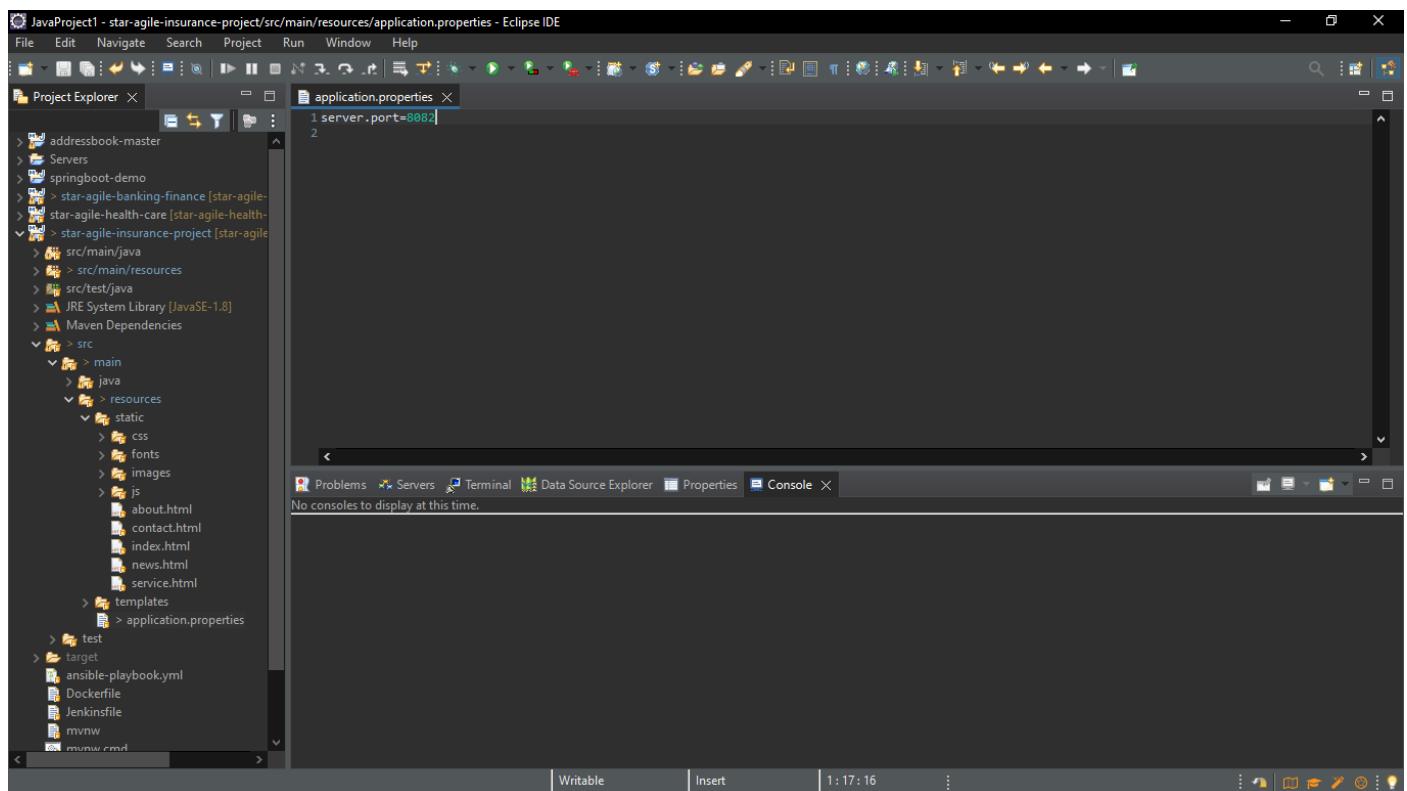


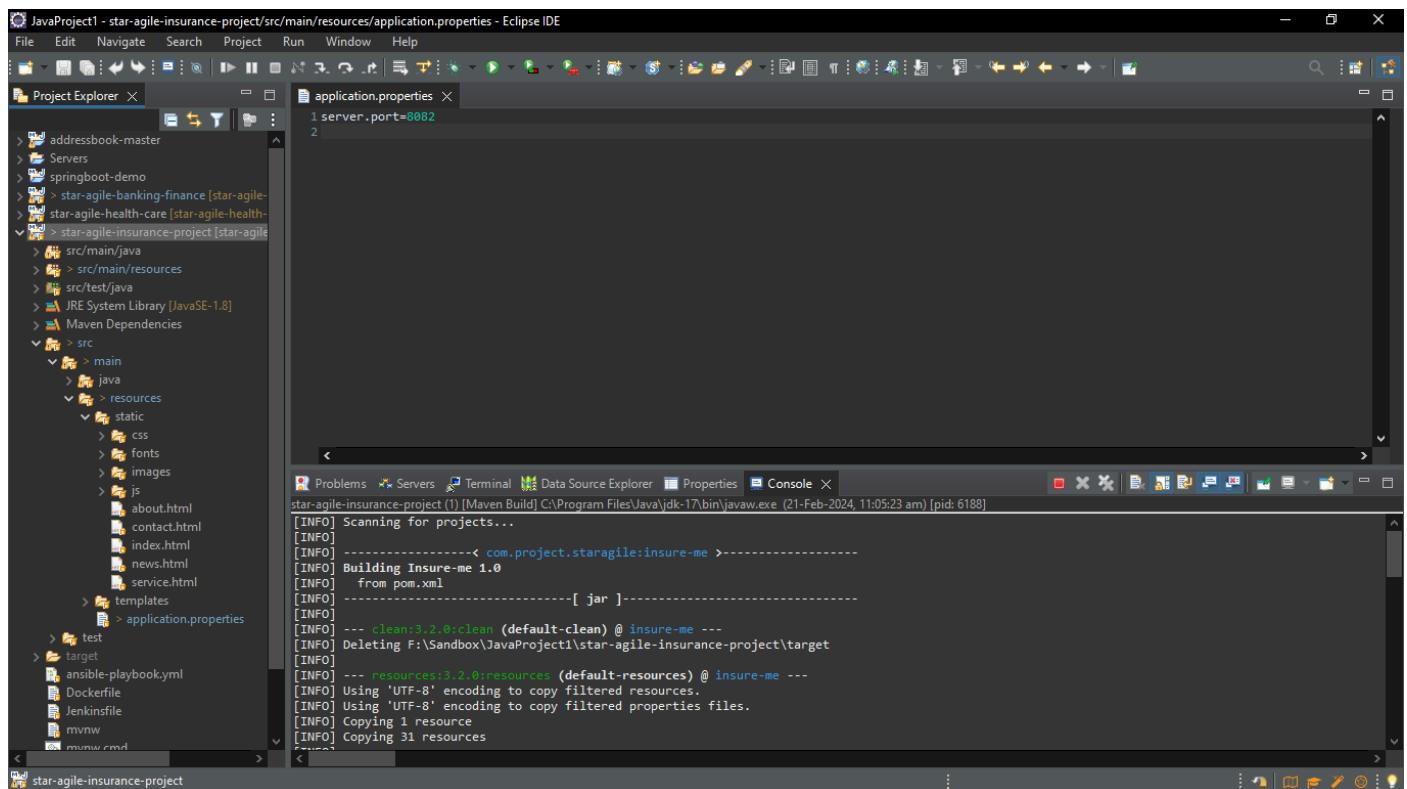
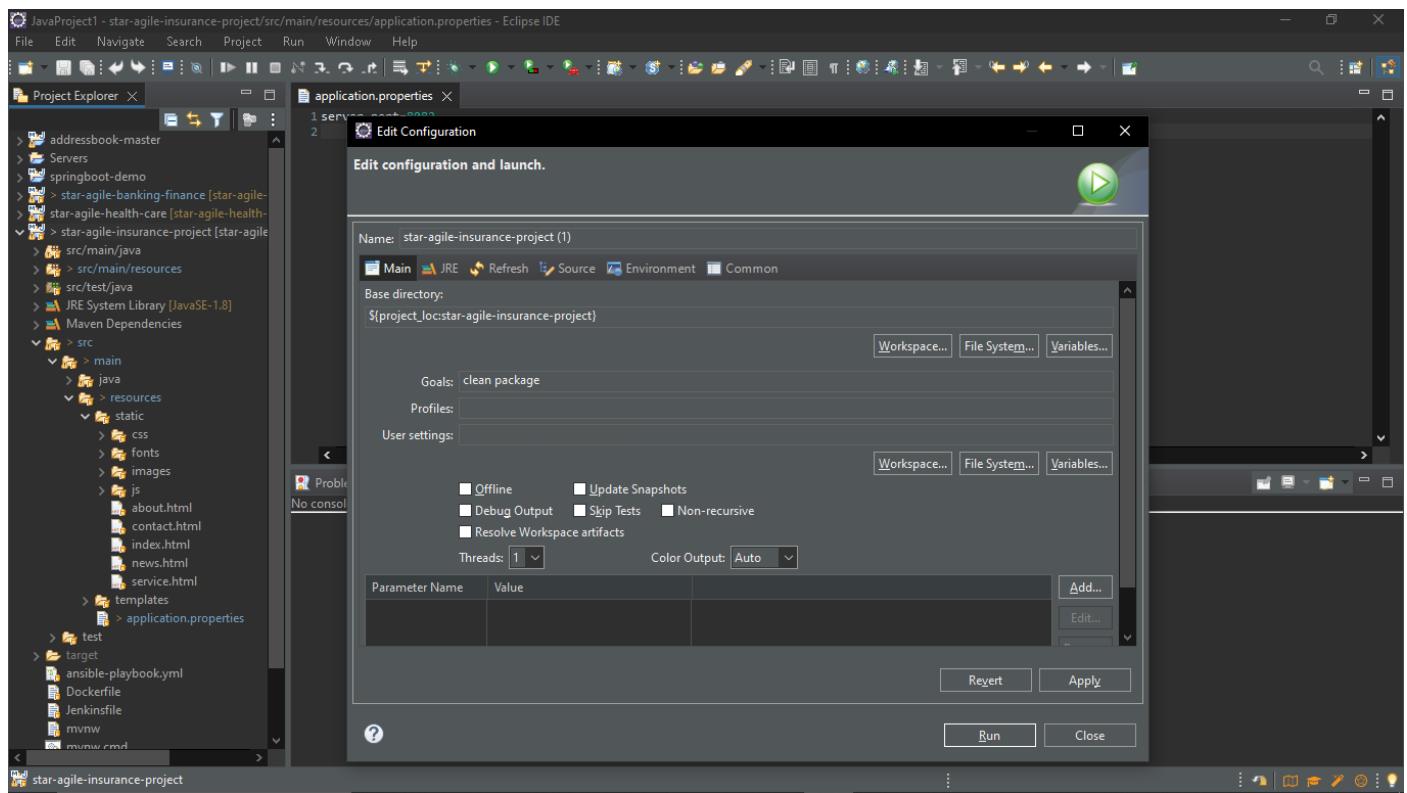
→ Select the project directory











The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure under "star-agile-insurance-project".
- application.properties:** Content shown in the editor:

```
server.port=8082
```
- Console:** Terminal output from a Maven build (mvn.cmd). It includes a Spring Boot logo and log messages:

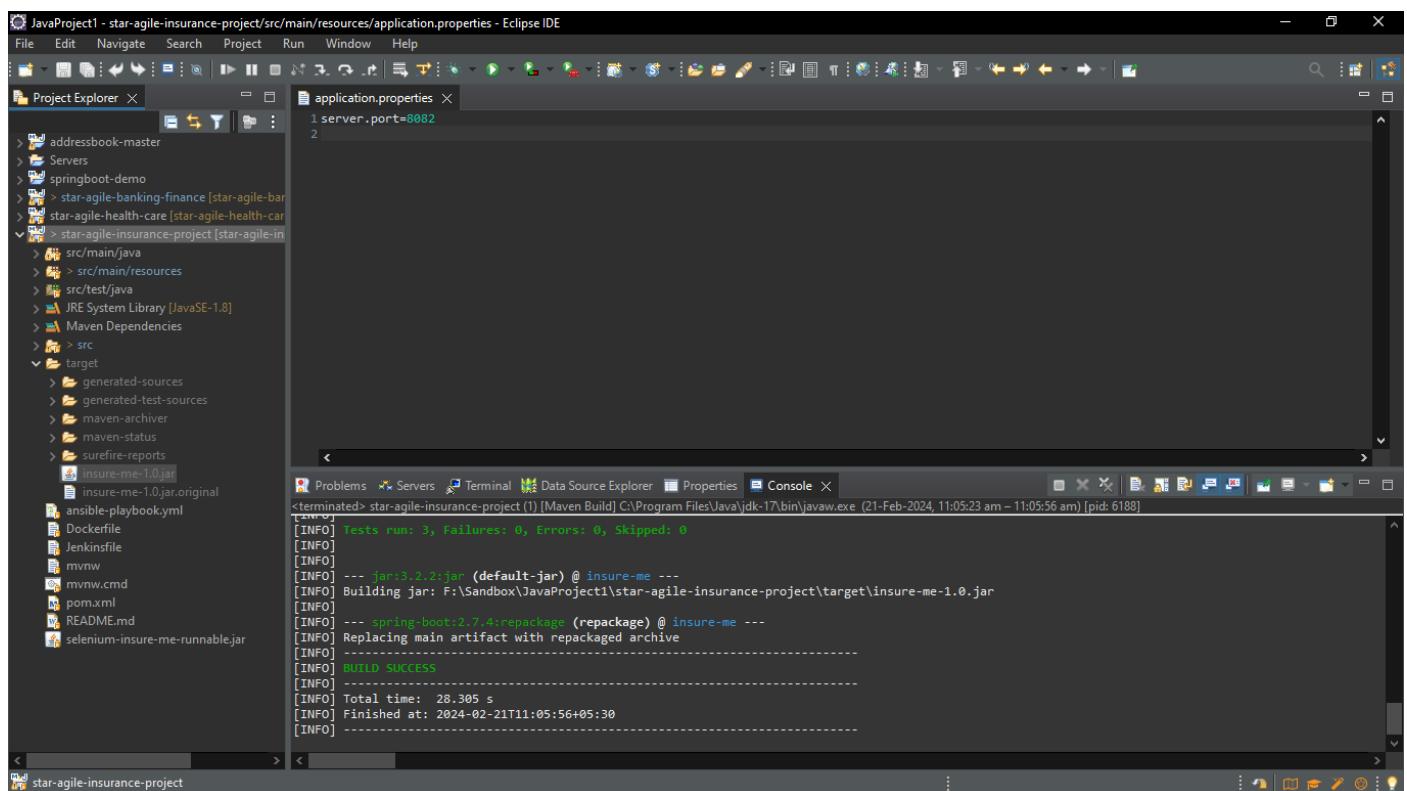
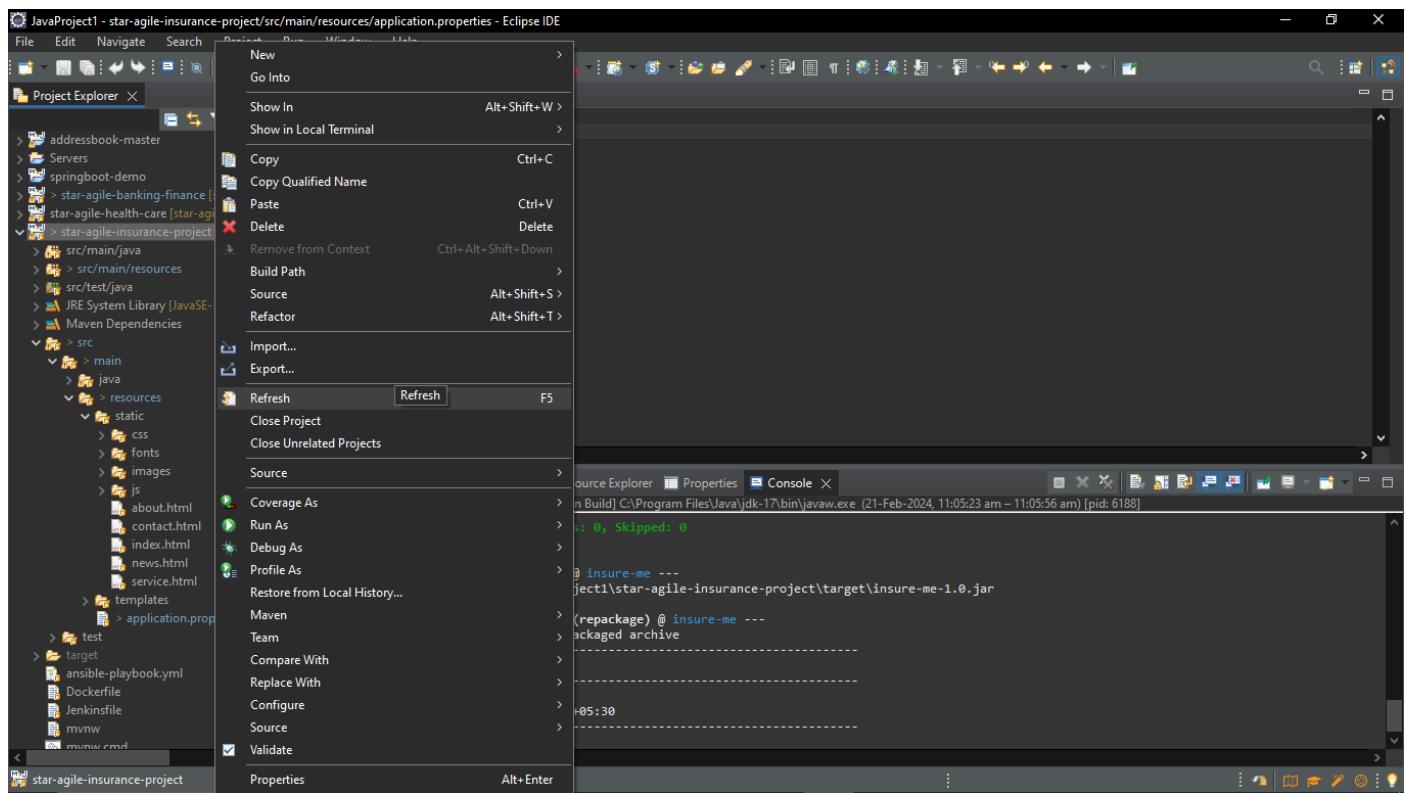
```
2024-02-21 11:05:41.716 INFO 14188 --- [main] c.p.s.insureme.InsureMeApplicationTests : Starting InsureMeApplicationTests using Java 17.0.7
2024-02-21 11:05:41.719 INFO 14188 --- [main] c.p.s.insureme.InsureMeApplicationTests : No active profile set, falling back to 1 default pro
2024-02-21 11:05:43.647 INFO 14188 --- [main] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAL
2024-02-21 11:05:43.819 INFO 14188 --- [main] s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 139 ms.
2024-02-21 11:05:45.389 INFO 14188 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...
2024-02-21 11:05:45.837 INFO 14188 --- [main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2024-02-21 11:05:46.015 INFO 14188 --- [main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: def
:: Spring Boot ::
(v2.7.4)
```

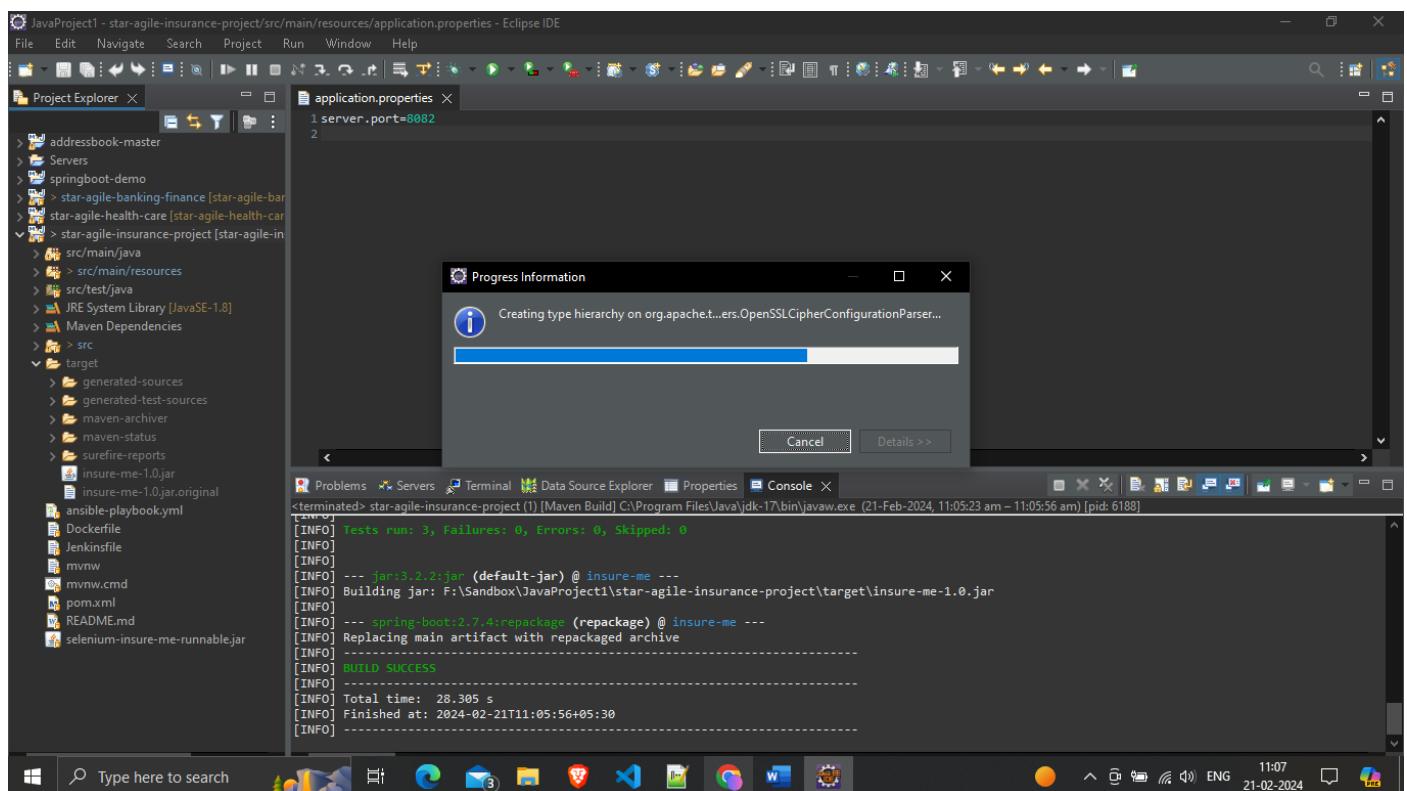
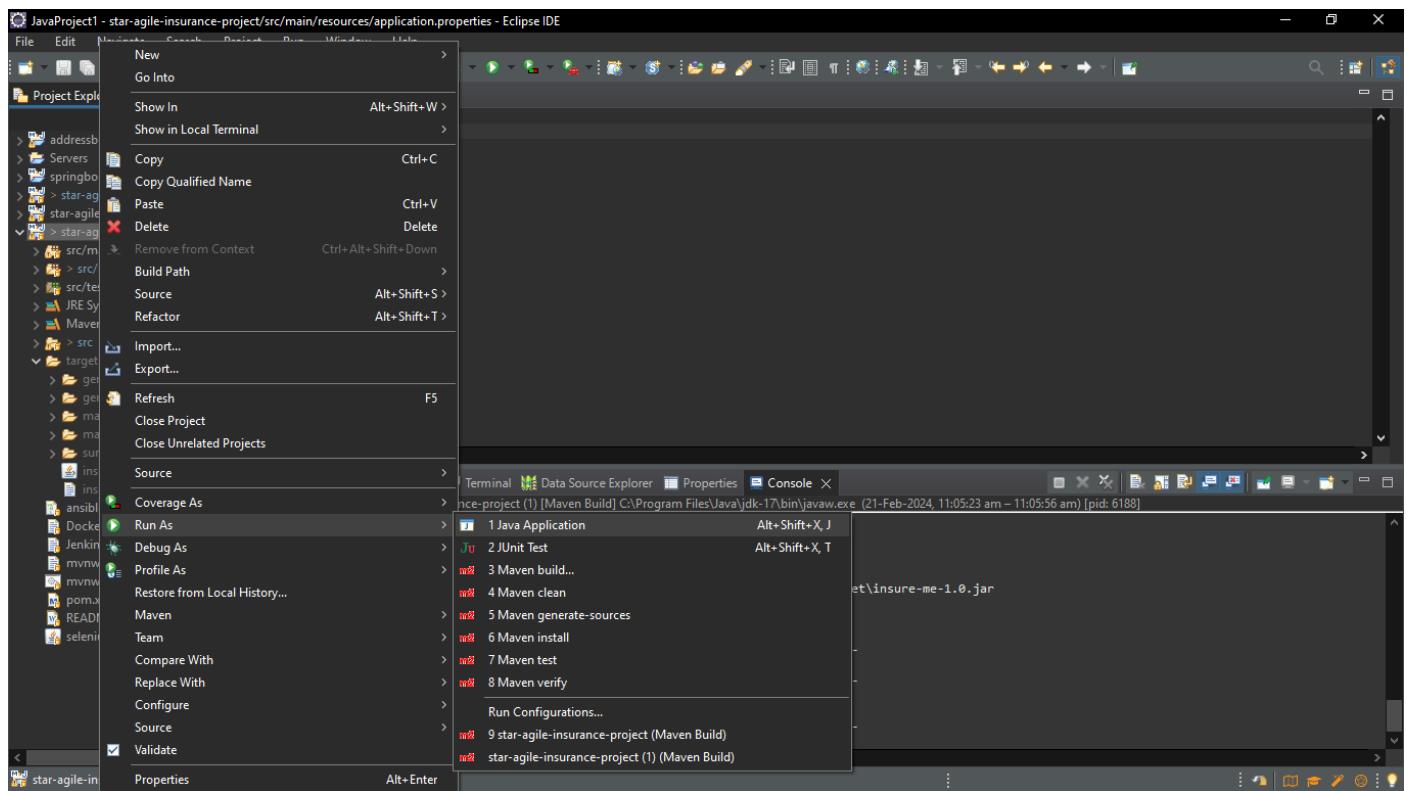
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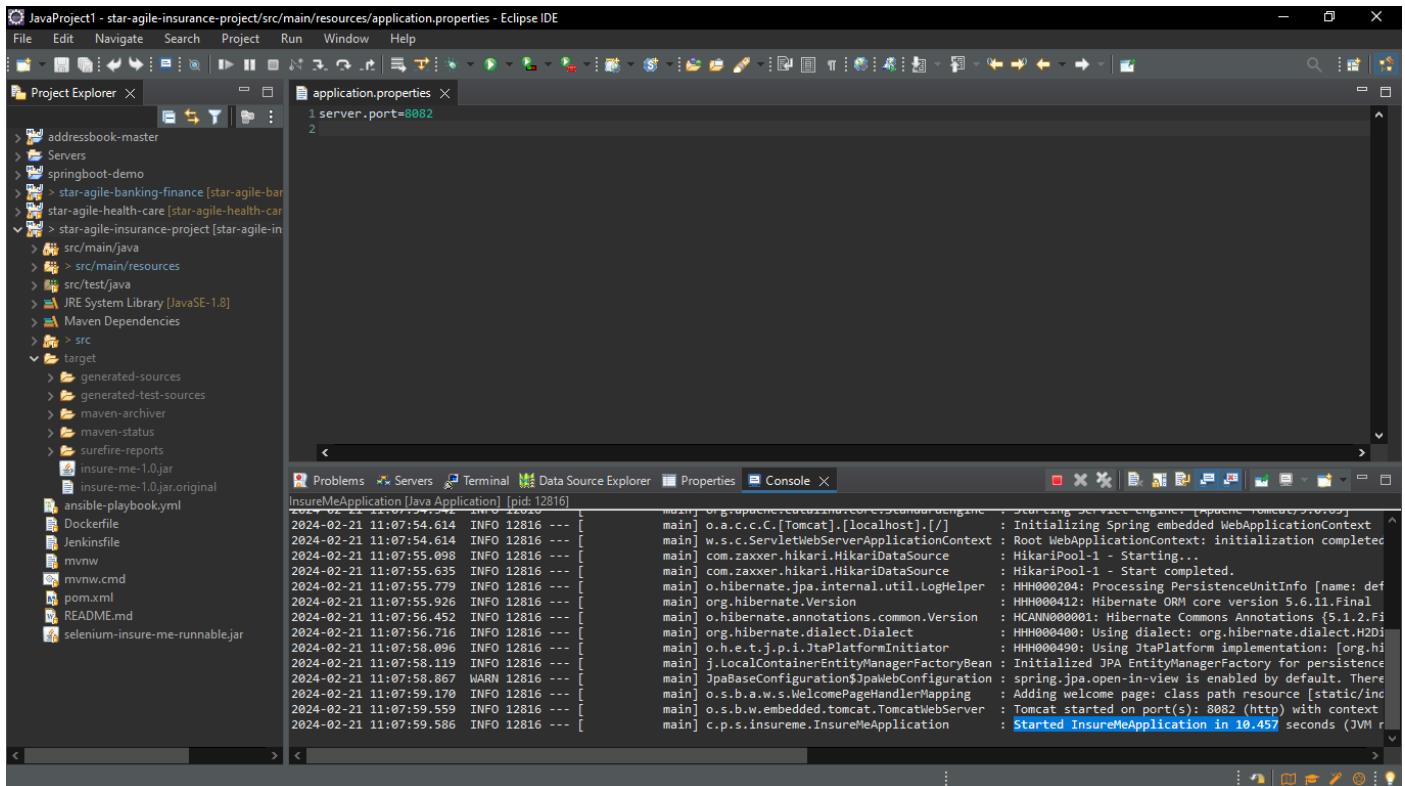
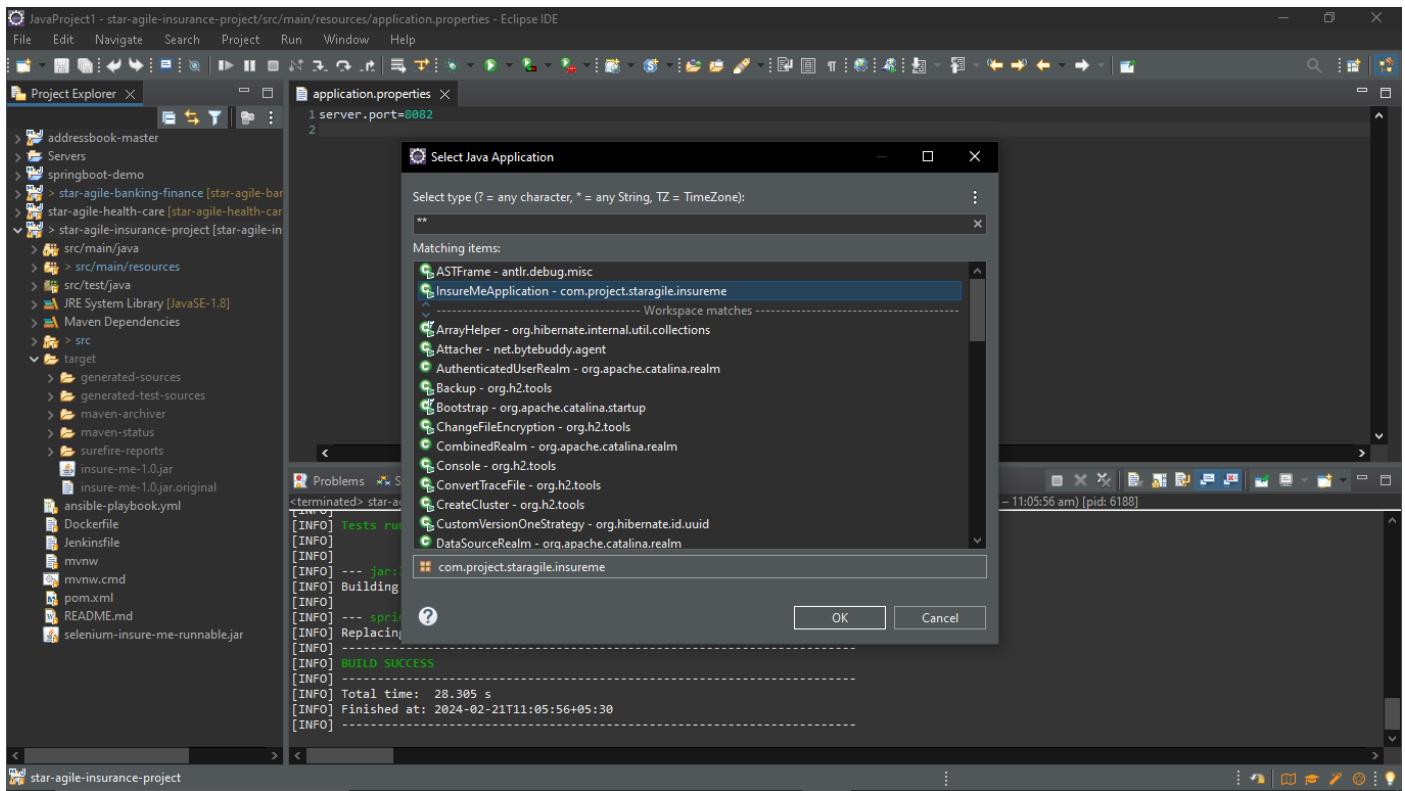
- Project Explorer:** Shows the project structure under "star-agile-insurance-project".
- application.properties:** Content shown in the editor:

```
server.port=8082
```
- Console:** Terminal output from a Maven build (mvn.cmd). It includes log messages and a summary:

```
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0
[INFO] --- jar:3.2.2:jar (default-jar) @ insure-me ---
[INFO] Building jar: F:\Sandbox\JavaProject1\star-agile-insurance-project\target\insure-me-1.0.jar
[INFO] 
[INFO] --- spring-boot:2.7.4:repackage (repackage) @ insure-me ---
[INFO] Replacing main artifact with repackaged archive
[INFO] 
[INFO] BUILD SUCCESS
[INFO] 
[INFO] Total time: 28.305 s
[INFO] Finished at: 2024-02-21T11:05:56+05:30
[INFO] 
```







→ <http://localhost:8082/index.html>

The screenshot shows the homepage of a website named "INSURE-ME". The main title "PROTECT YOUR FAMILY AND YOUR FUTURE" is displayed prominently. Below the title is a paragraph of text: "Life insurance is the perfect safety net, helping you to protect your family if something unfortunate were to happen to you. Losing someone is a huge loss, and the last thing on anyone's mind is the finances. With life insurance, you can continue protecting your family's finances and future, even when you are not around." A green "Contact Us" button is located below the text. The background features a large, glowing blue sphere composed of hexagonal icons representing various insurance services like health, home, and car insurance.

The screenshot shows the "OUR SERVICES" page. The main heading "OUR SERVICES" is at the top, followed by a subtext: "We have brought you the world's best insurances. Choose one from the following..." Below this, there are four service categories: "HOME INSURANCE", "HEALTH INSURANCE", "CAR INSURANCE", and "LIFE INSURANCE". Each category has a circular icon, a brief description, and a "Read More" link. At the bottom of the section is a green "View All" button. A decorative banner with the word "ABOUT US" is visible at the very bottom.

Service Category	Description	Read More
HOME INSURANCE	Home insurance also known as property insurance or homeowner insurance covers the structure as well as the content of the home.	Read More
HEALTH INSURANCE	A medical insurance also called as health insurance, covers medical expenses for illnesses. It reimburses your medical bills.	Read More
CAR INSURANCE	Car Insurance, is a type of vehicle insurance policy that protects you and your car from any risks of accidents and property damages.	Read More
LIFE INSURANCE	Life Insurance not only provides for financial support in the event of untimely death but also acts as a long term investment.	Read More

StarAgileDevOpsTraining/star- X Insure-me localhost:8082 Apps WhatsApp Gmail Google Drive Google Keep One Drive Amazon Web Servic... StarAgile LMS (Ajay Gaur) iamajaygaur/DevOp... All Bookmarks



ABOUT US

Insure-Me is a leading multi-line insurer that serves its customers in global and local markets. With about 56,000 employees, it provides a wide range of property and casualty, life insurance products and services in more than 210 countries and territories. Zurich's customers include individuals, small businesses, and mid-sized and large companies, as well as multinational corporations.

[Read More](#)



BEST INSURANCE FOR YOUR FAMILY

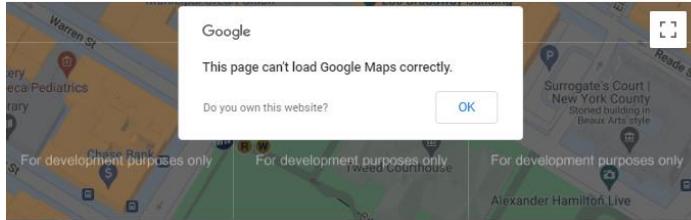
There are many life insurance companies that provide life insurance

StarAgileDevOpsTraining/star- X Insure-me localhost:8082 Apps WhatsApp Gmail Google Drive Google Keep One Drive Amazon Web Servic... StarAgile LMS (Ajay Gaur) iamajaygaur/DevOp... All Bookmarks

BEST INSURANCE FOR YOUR FAMILY

There are many life insurance companies that provide life insurance plans globally. Life insurance is an agreement between an individual and the insurance company under which the insurance company promises to provide a death benefit to the family of life assured in case of an unfortunate demise of the life assured during the policy. We offer the best in class services.

[Read More](#)



GET IN TOUCH

Your Name

This page can't load Google Maps correctly.

Do you own this website?

OK

GET IN TOUCH

Your Name

Mobile Number

Email

Message

Send

WHAT SAYS OUR CLIENT

Insure-me provides the world class insurance services with minimum delays in claim processing, I have claimed many times without any problems, I have received the 100% of my insurance claim. I would recommend insure-me to everyone.

Amit Biswas
Client

INSURE-ME

The world class Global insurance provider having customer in 67 countries.

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received the 100% of my insurance claim. I would recommend insure-me to everyone.

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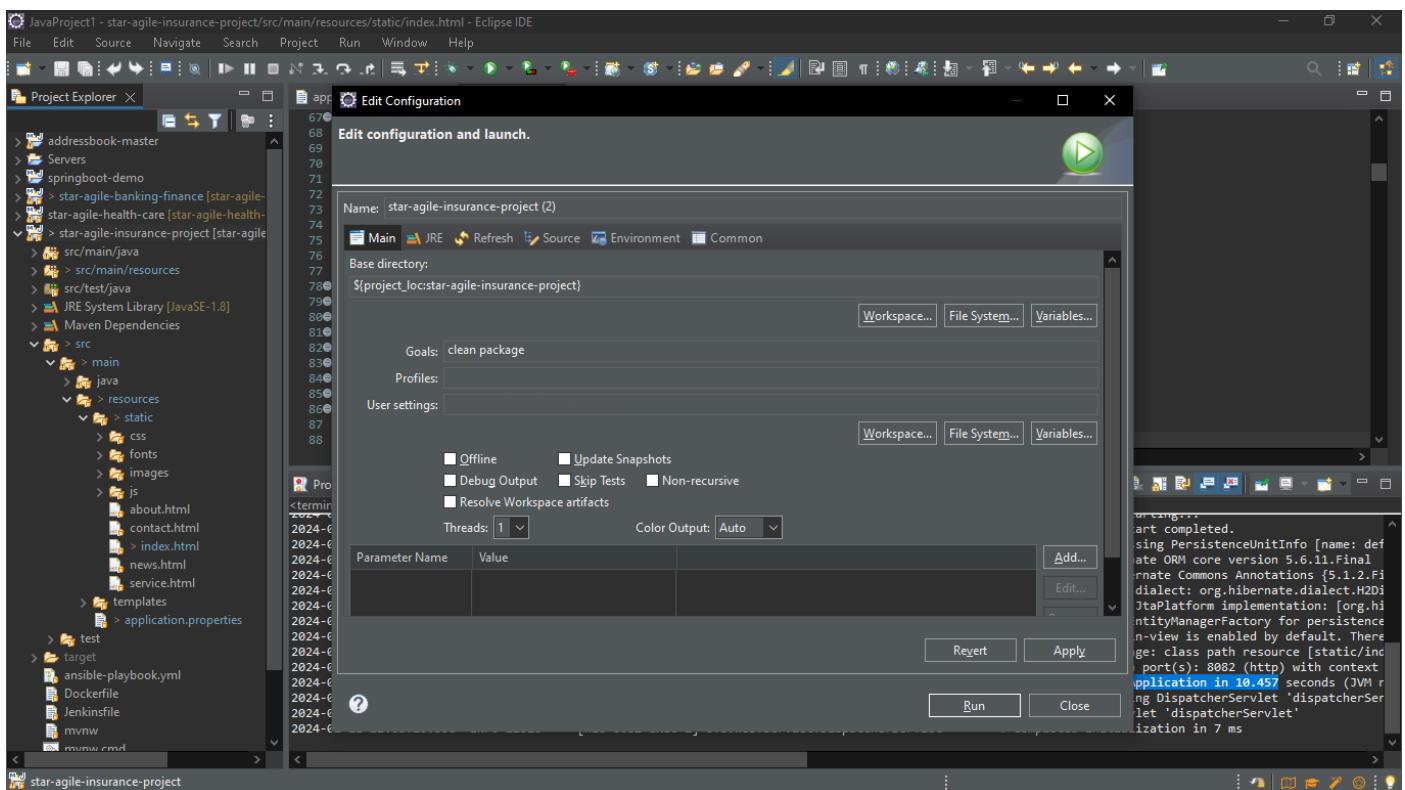
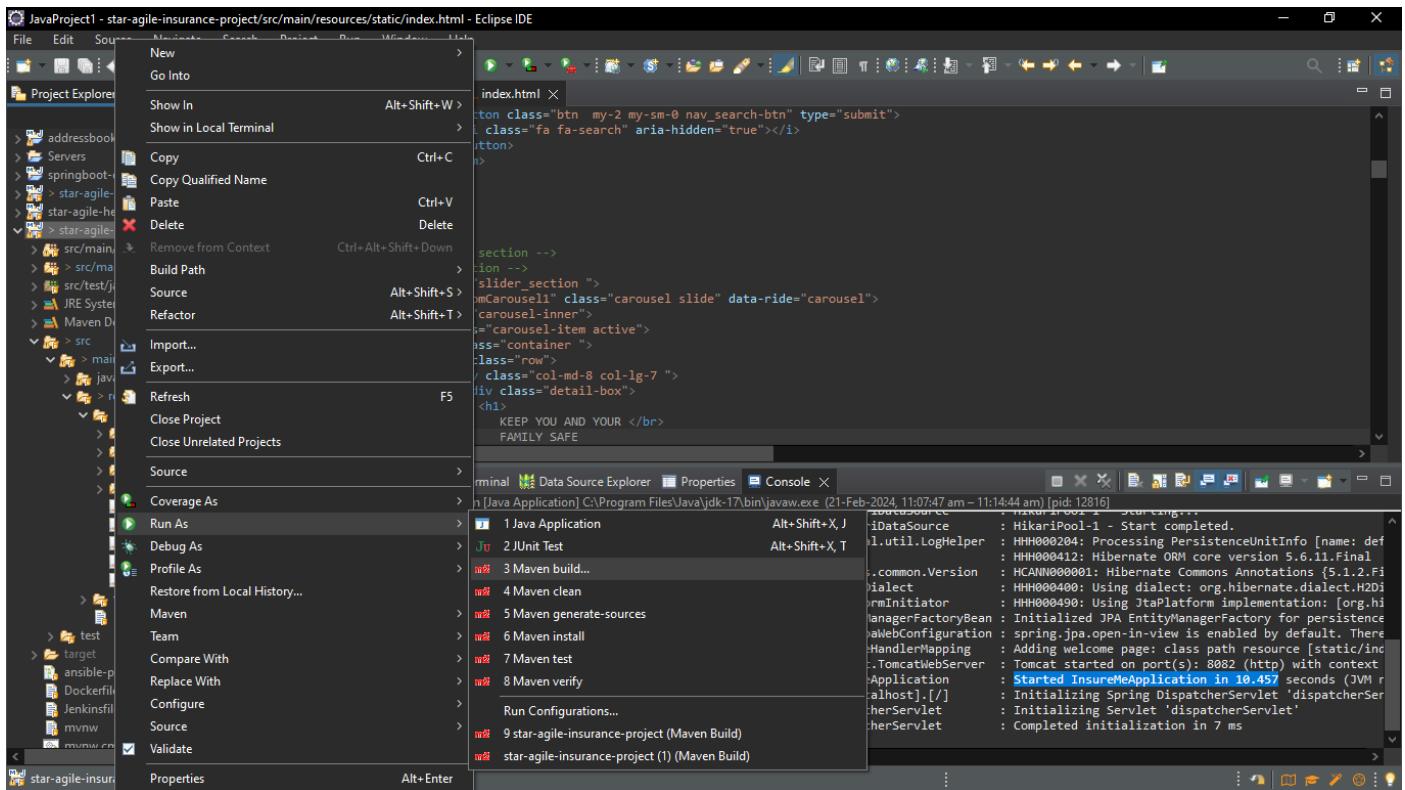
→ Make Changes on Home Page **PROTECT YOUR FAMILY AND YOUR FUTURE TO KEEP YOU AND YOUR FAMILY SAFE.**

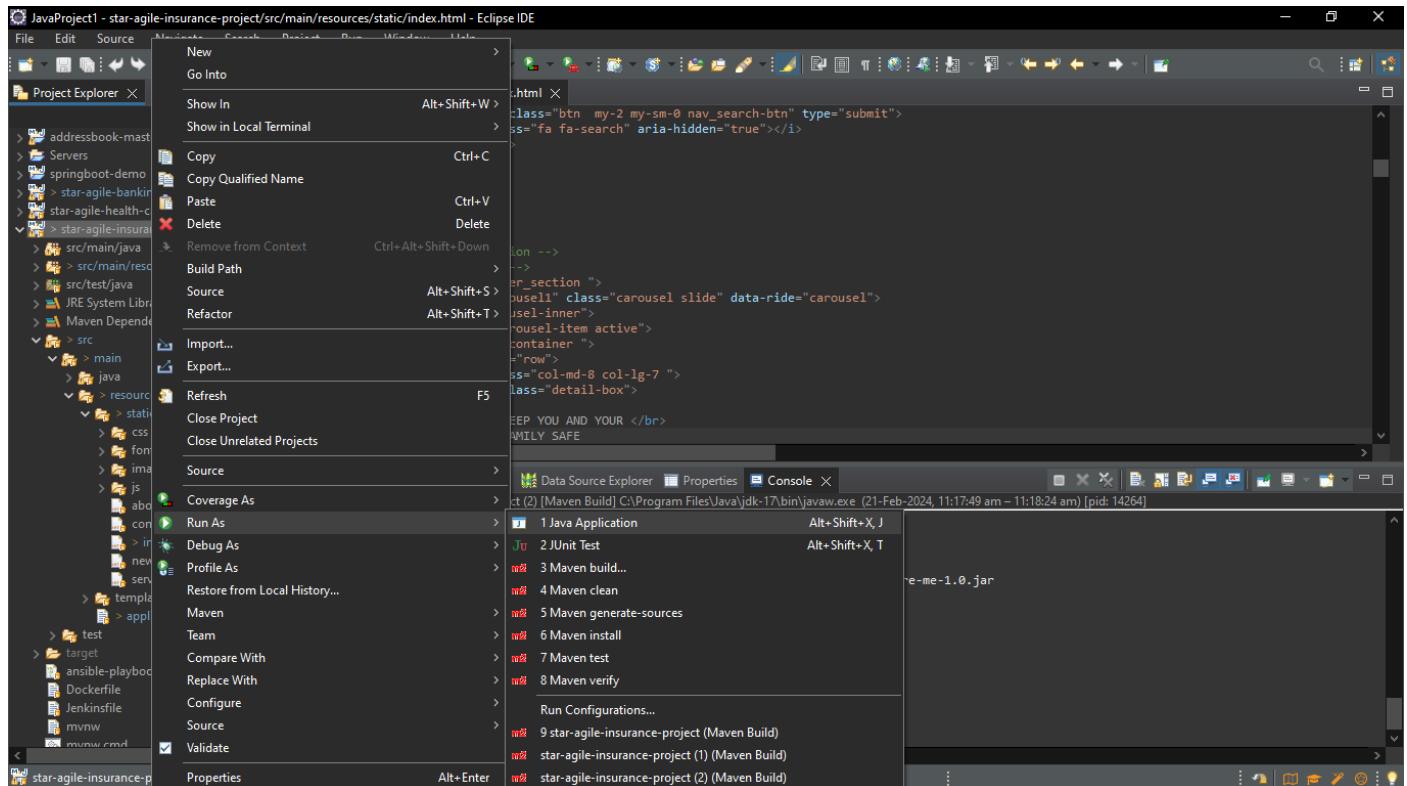
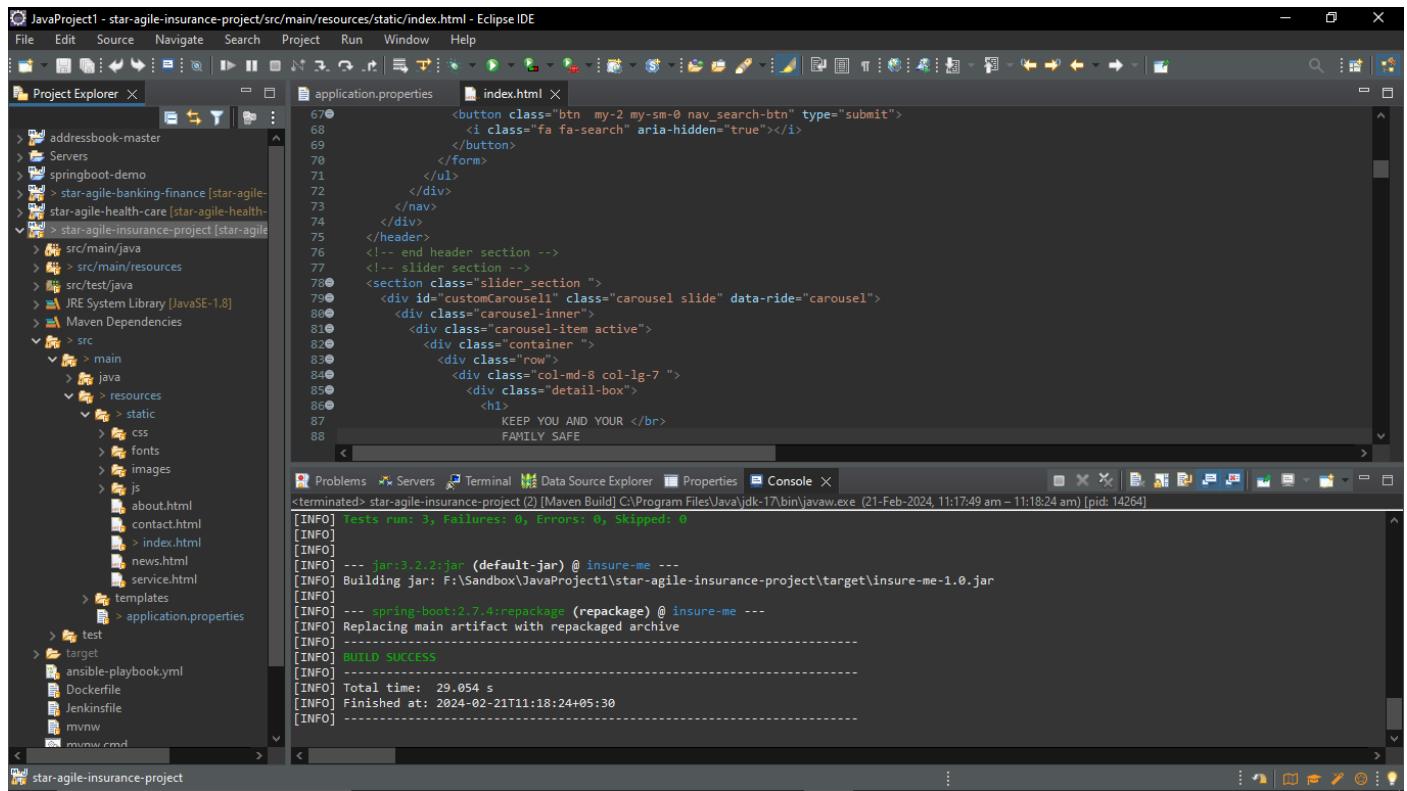


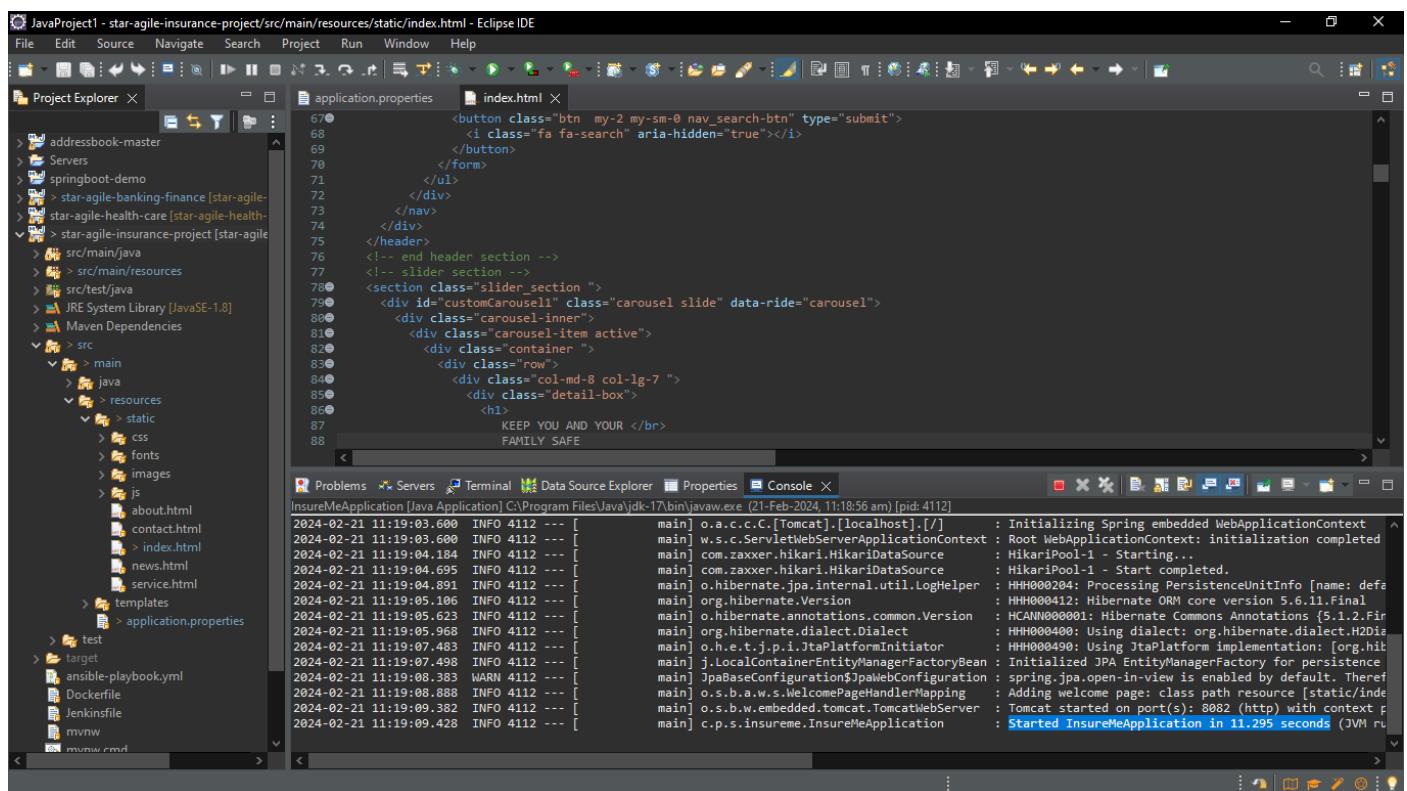
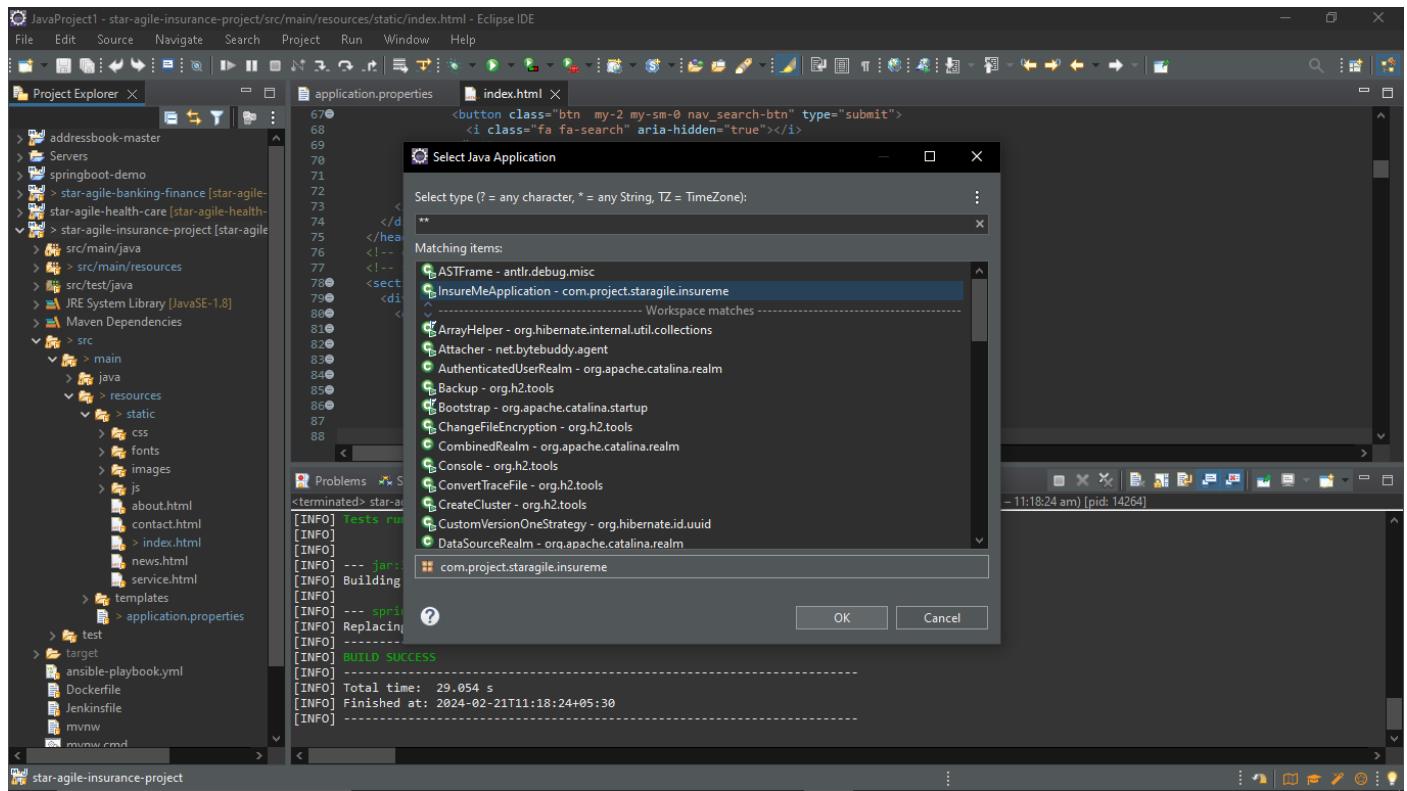
→ At index.html

A screenshot of the Eclipse IDE interface. The central area shows the "application.properties" file with code. The code includes a CSS class definition for a search button, a section for a slider, and a detailed box for the main content. The content itself contains a heading "KEEP YOU AND YOUR FAMILY SAFE" and a paragraph explaining the benefits of life insurance. Below this is a "Contact Us" button. The Eclipse interface includes toolbars, a project explorer on the left, and a terminal window at the bottom showing Java command-line output.

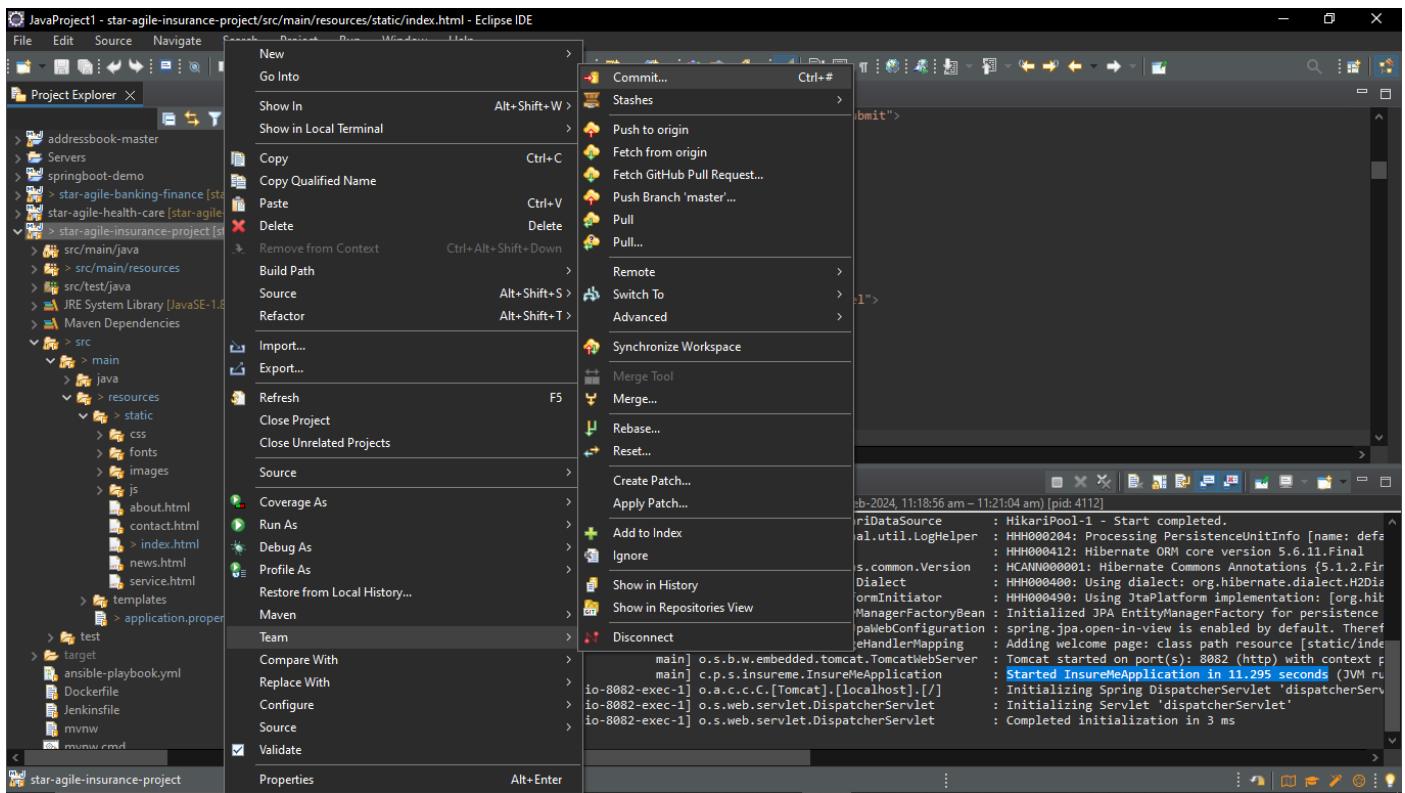
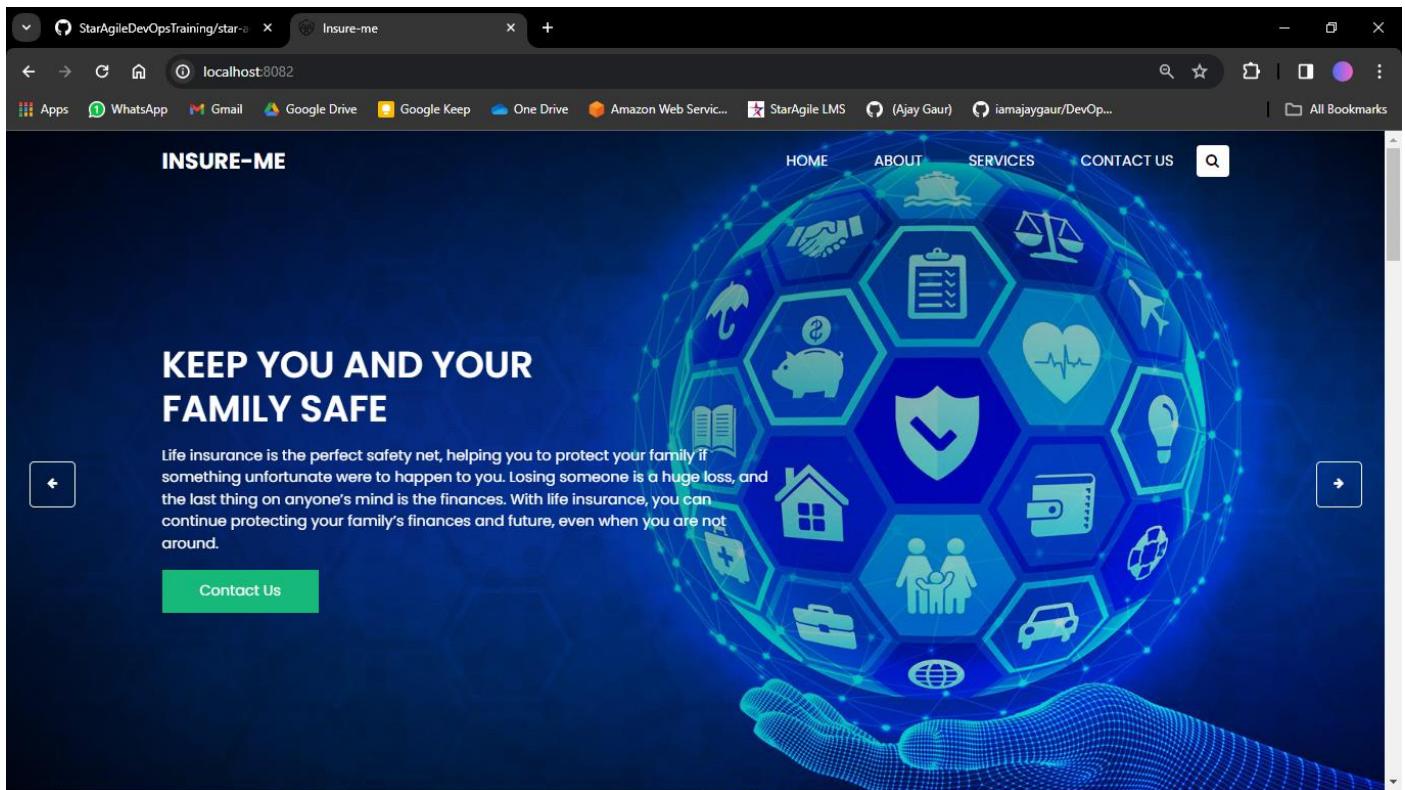
→ Save the changes and build the war file and run the application to verify the changes.

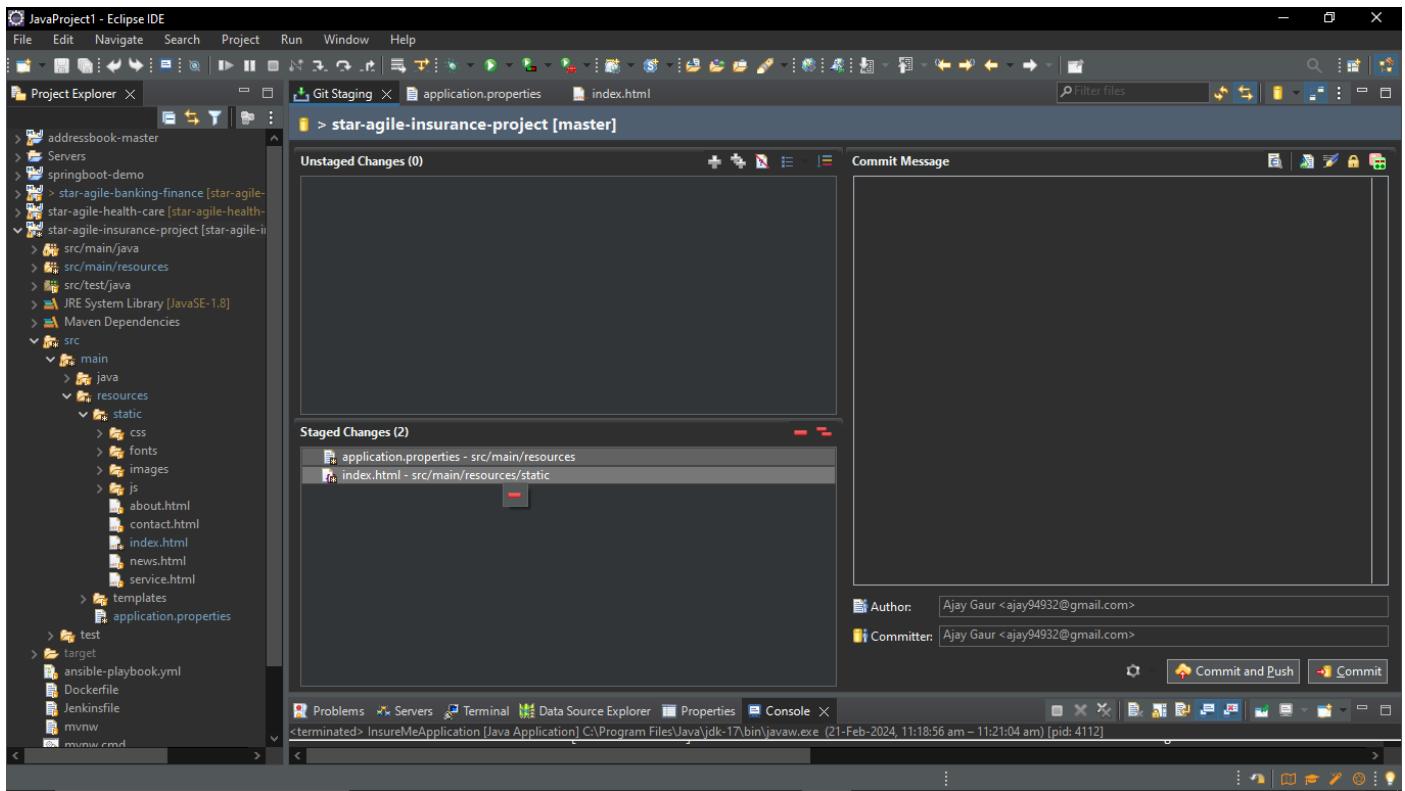




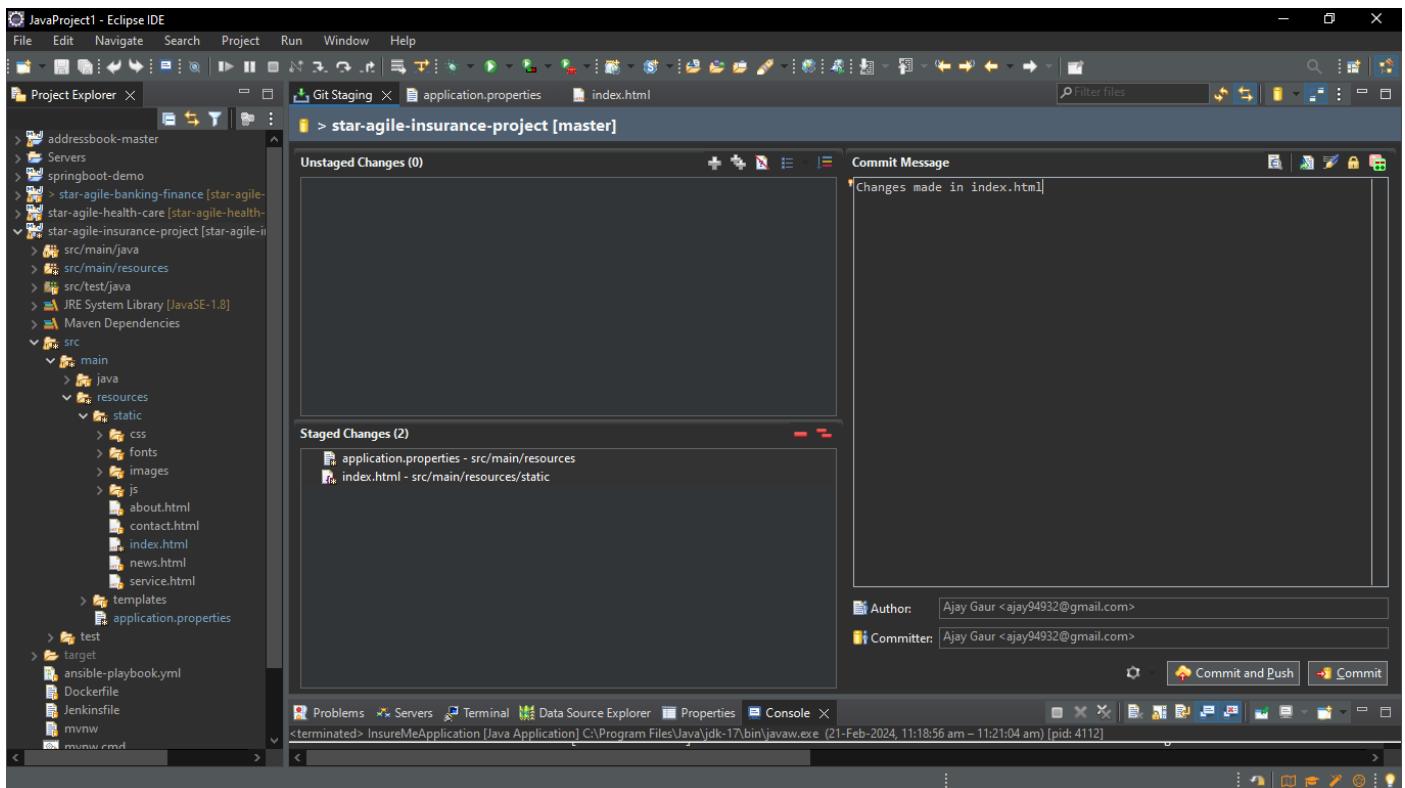


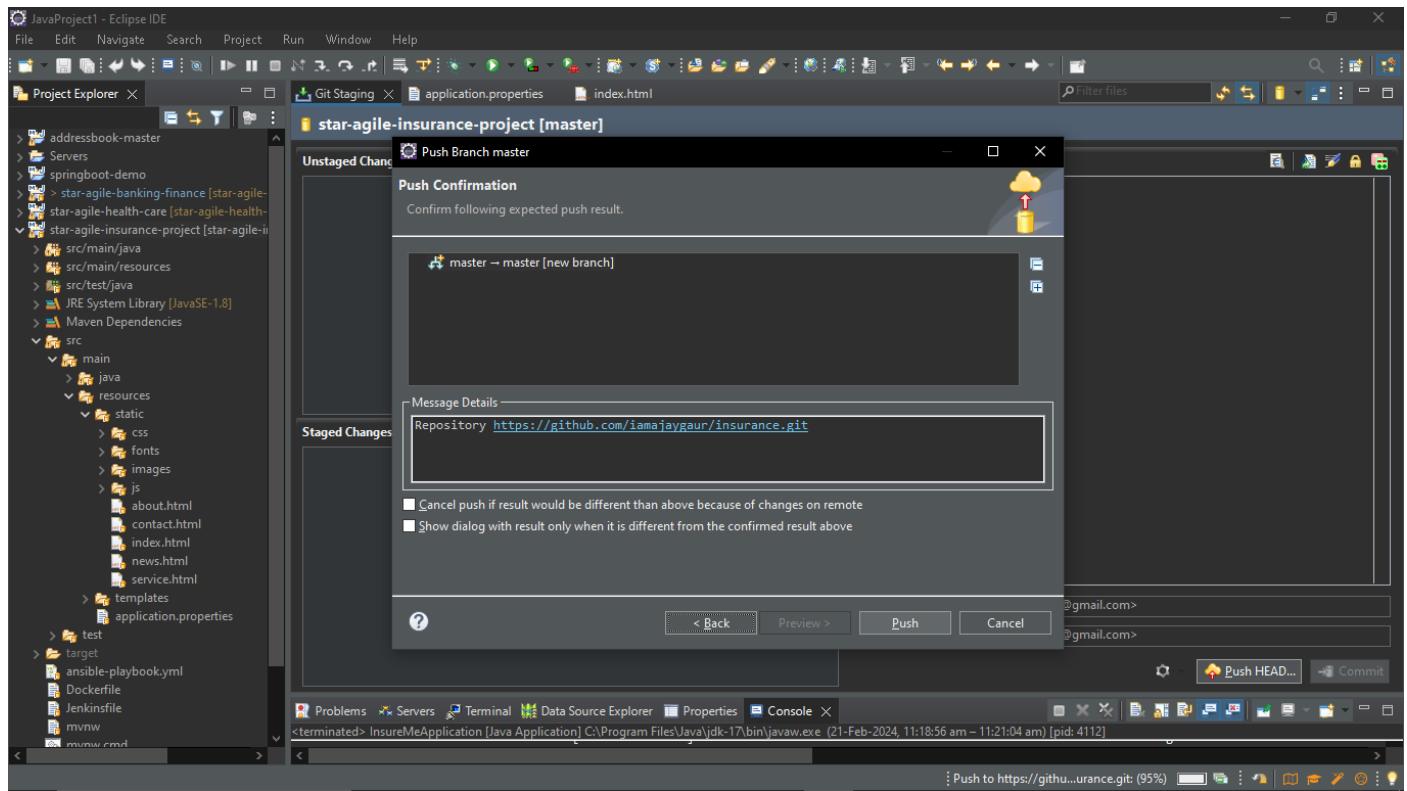
→ http://localhost:8082/





→ Commit and Push the changes to the repository





Launch the VM Instances Configure and Integrate them :

1. jenkins-master: Used to create the jenkins pipeline projects and schedule.

jenkins-slave: Used to perform Application Build & Create artifacts - *.war & Build Container Image

2. k8s-master: Deployment of Pods

K8s_worker_node-1

K8s_worker_node-1

Tools required in above VM Instances:

1. jenkins-master: git, jdk, jenkins

Jenkins-slave: git, jdk, maven, docker

2. k8s-master: CRI-ContainD, Kubectl, Kubeadm, Kubelet.....

K8s_worker_node-1

K8s_worker_node-1

The screenshot shows the AWS CloudWatch Metrics interface. On the left, there's a navigation sidebar with options like EC2 Dashboard, EC2 Global View, Events, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, and Elastic Block Store. The main area is titled 'Instances (5/6) Info' and displays a table of running EC2 instances. The table includes columns for Name, Instance ID, Instance state, Instance type, Status check, Alarm status, and Availability Zone. The instances listed are: jenkins-master, jenkins-slave, k8s-master, k8s-workernode1, and k8s-workernode2. Below the table, there's a section titled 'Monitoring' with four line charts: CPU utilization (%), Network in (bytes), Network out (bytes), and Network packets in (bytes). The CPU utilization chart shows values around 99.6% and 49.8%. The Network in and out charts show byte counts over time. The Network packets in chart shows a count of 13.7k. At the bottom of the page, there's a footer with links for CloudShell, Feedback, and a copyright notice from 2024, Amazon Web Services, Inc. or its affiliates.

Stages for project:

1. SCM Checkout

2. Application Build - # Create *.war and perform Unit Testing

3. Docker Build

4. Push the Container Image to Dockerhub

5. Deploy to Kubernetes

→ Login to Jenkins

The screenshot shows the Jenkins dashboard with the following details:

- New Item**: A button to add a new Jenkins item.
- People**: A link to manage users.
- Build History**: A link to view build logs.
- Project Relationship**: A link to analyze dependencies between projects.
- Check File Fingerprint**: A link to monitor file changes.
- Manage Jenkins**: A link to configure the Jenkins instance.
- My Views**: A link to manage user-defined views.

Build Queue: No builds in the queue.

Build Executor Status: Built-In Node

Recent Items (Table):

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀️	banking-app-project	1 day 22 hr #4	N/A	42 sec
✓	☀️	health-care	17 hr #3	N/A	49 sec

Icon legend: S (Success), M (Failure), L (Last failure)

Atom feed links: for all, for failures, for just latest builds

The screenshot shows the "Enter an item name" dialog with the following input:

insurance
» 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.

Maven project
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

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
Useful for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

→ Create the pipeline Project

The screenshot shows the Jenkins Pipeline configuration page for a project named 'insurance'. The 'Pipeline' tab is selected. The 'Script' editor contains the following Groovy code:

```
1 pipeline {
2     agent { label 'slave1' }
3 
4     tools {
5         // Install the Maven version configured as "M3" and add it to the path.
6         maven "maven-3.6.3"
7     }
8 
9     environment {
10        DOCKERHUB_CREDENTIALS=credentials('dockerloginid')
11    }
12 
13     stages {
14         stage('SCM Checkout') {
15             steps {
16                 // Get some code from a GitHub repository
17                 git 'https://github.com/iammajaygaur/insurance.git'
18             }
19         }
20         stage('Maven Build') {
21             steps {
22                 // Run Maven on a Unix agent.
23                 sh "mvn -Dmaven.test.failure.ignore=true clean package"
24             }
25         }
26     }
27 }
```

At the bottom, there are 'Save' and 'Apply' buttons.

The screenshot shows the Jenkins Pipeline configuration page for the same 'insurance' project. The 'Pipeline' tab is selected. The 'Script' editor contains a more complex Groovy pipeline script:

```
1 pipeline {
2     agent { label 'slave1' }
3 
4     tools {
5         // Install the Maven version configured as "M3" and add it to the path.
6         maven "maven-3.6.3"
7     }
8 
9     environment {
10        DOCKERHUB_CREDENTIALS=credentials('dockerloginid')
11    }
12 
13     stages {
14         stage("Docker build") {
15             steps {
16                 sh 'docker version'
17                 sh 'docker build -t iammajaygaur/insurance:${BUILD_NUMBER} .'
18                 sh 'docker image list'
19                 sh 'docker tag iammajaygaur/insurance:${BUILD_NUMBER} iammajaygaur/insurance:latest'
20             }
21         }
22         stage('Login2DockerHub') {
23             steps {
24                 sh 'echo $DOCKERHUB_CREDENTIALS_PSW | docker login -u $DOCKERHUB_CREDENTIALS_USR --password-stdin'
25             }
26         }
27         stage('Push2DockerHub') {
28             steps {
29                 sh "docker push iammajaygaur/insurance:latest"
30             }
31         }
32         stage('Deploy to Kubernetes Dev Environment') {
33             steps {
34                 script {
35                     sshPublisher(publishers: [sshPublisherDesc(configName: 'Kubernetes_Cluster', transfers: [sshTransfer(cleanRemote: true)]), sshPublisherDesc(configName: 'Kubernetes_Cluster', transfers: [sshTransfer(cleanLocal: true)])])
36                 }
37             }
38         }
39     }
40 }
```

At the bottom, there are 'Save' and 'Apply' buttons.

insurance/Jenkinsfile at master | Instances | EC2 | us-west-1 | insurance Config [Jenkins] | +

Not secure 13.56.223.20:8080/job/insurance/configure

Apps WhatsApp Gmail Google Drive Google Keep One Drive Amazon Web Servic... StarAgile LMS (Ajay Gaur) iamajaygaur/DevOp... All Bookmarks

Dashboard > insurance > Configuration

Configure

- General
- Advanced Project Options
- Pipeline**

```

30      sh 'docker image list' --format='{{.ID}} {{.Repository}} {{.Tag}}'
31      sh "docker tag iamajaygaur/insurance:${BUILD_NUMBER} iamajaygaur/insurance:latest"
32    }
33  }
34 stage('Login2DockerHub') {
35   steps {
36     sh 'echo $DOCKERHUB_CREDENTIALS_PSW | docker login -u $DOCKERHUB_CREDENTIALS_USR --password-stdin'
37   }
38 }
39 stage('Push2DockerHub') {
40   steps {
41     sh "docker push iamajaygaur/insurance:latest"
42   }
43 }
44 }
45 stage('Deploy to Kubernetes Dev Environment') {
46   steps {
47     script {
48       sshPublisher(publishers: [sshPublisherDesc(configName: 'Kubernetes_Cluster', transfers: [sshTransfer(cleanRemote: true, remoteDir: '/var/www/html', remoteName: 'root@192.168.1.11', type: 'SCP'), type: 'SCP')], user: 'root'))
49     }
50   }
51 }
52 }
53 }
54

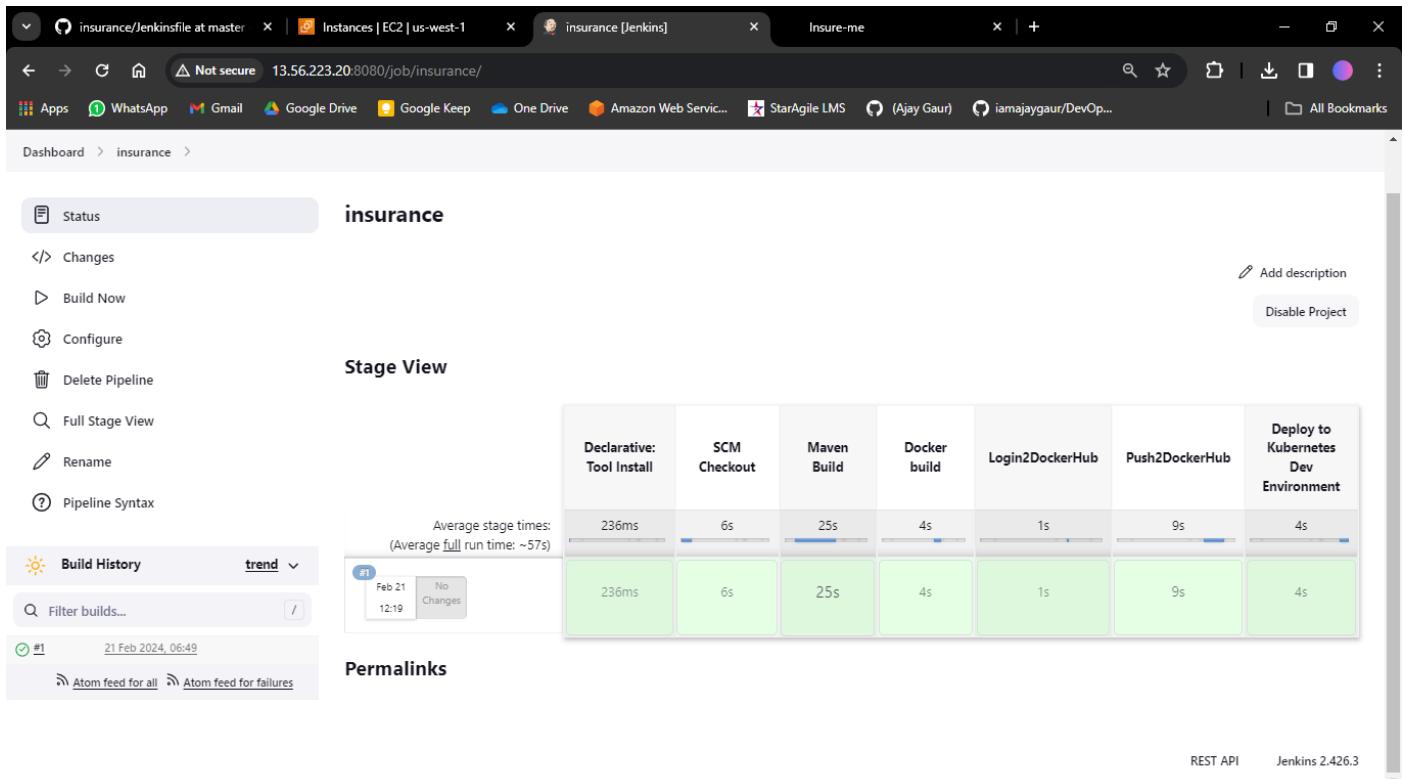
```

Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save **Apply**

→ Click on Build Now



The screenshot shows a Jenkins pipeline console output for a build named 'insurance'. The build was started by user 'Ajay Gaur'. The pipeline starts with a 'Start of Pipeline' step, followed by a 'node' step. It then runs on a 'BankingApp-Bulid_Server' node located at '/home/devopsadmin/workspace/insurance'. The pipeline uses declarative syntax, specifically 'Tool Install' and 'Tool' steps. It also includes 'envVarsForTool' and 'withEnv' blocks. The pipeline ends with a 'SCM Checkout' step using 'git'. The Jenkins interface includes a sidebar with options like Status, Changes, Console Output (which is selected), View as plain text, Edit Build Information, Delete build, Git Build Data, Restart from Stage, Replay, Pipeline Steps, and Workspaces.

```
Started by user Ajay Gaur
[Pipeline] Start of Pipeline
[Pipeline] node
Running on BankingApp-Bulid_Server in /home/devopsadmin/workspace/insurance
[Pipeline] {
[Pipeline] withCredentials
Masking supported pattern matches of $DOCKERHUB_CREDENTIALS or $DOCKERHUB_CREDENTIALS_PSW
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Tool Install)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (SCM Checkout)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv
[Pipeline] {
[Pipeline] git
```

```
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/iamajaygaur/insurance.git
> git init /home/devopsadmin/workspace/insurance # timeout=10
Fetching upstream changes from https://github.com/iamajaygaur/insurance.git
> git --version # timeout=10
> git --version # 'git version 2.25.1'
> git fetch --tags --force --progress -- https://github.com/iamajaygaur/insurance.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/iamajaygaur/insurance.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
Checking out Revision 9b7de638d0705866a01b2562ca78ab42be45bcd4 (refs/remotes/origin/master)
Commit message: "Update kubernetesdeploy.yaml"
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
> git config core.sparsecheckout # timeout=10
> git checkout -f 9b7de638d0705866a01b2562ca78ab42be45bcd4 # timeout=10
> git branch -a -v --no-abbrev # timeout=10
> git checkout -b master 9b7de638d0705866a01b2562ca78ab42be45bcd4 # timeout=10
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { ('Maven Build')
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv
[Pipeline] {
```

insurance/Jenkinsfile at master | Instances | EC2 | us-west-1 | insurance #1 Console [Jenkins] | Insure-me | +

Not secure 13.56.223.20:8080/job/insurance/1/console

Apps WhatsApp Gmail Google Drive Google Keep One Drive Amazon Web Servic... StarAgile LMS (Ajay Gaur) iamajaygaur/DevOp... All Bookmarks

Dashboard > insurance > #1

```
[Pipeline] sh
+ mvn -Dmaven.test.failure.ignore=true clean package
[0;34mINFO[m Scanning for projects...
[0;34mINFO[m
[0;34mINFO[m @[1m-----< @[0;36mcom.project.staragile:insure-me@[0;1m >-----@[m
[0;34mINFO[m @[1mBuilding Insure-me 1.0@m
[0;34mINFO[m @[1m-----[ jar ]-----@[m
[0;34mINFO[m
[0;34mINFO[m @[1m--- @[0;32mmaven-clean-plugin:3.2.0:clean@m @[@[1m(default-clean)@[@[0;36minsure-me@[0;1m ---@[m
[0;34mINFO[m
[0;34mINFO[m @[1m--- @[0;32mmaven-resources-plugin:3.2.0:resources@m @[@[1m(default-resources)@[@[0;36minsure-me@[0;1m ---@[m
[0;34mINFO[m Using 'UTF-8' encoding to copy filtered resources.
[0;34mINFO[m Using 'UTF-8' encoding to copy filtered properties files.
[0;34mINFO[m Copying 1 resource
[0;34mINFO[m Copying 31 resources
[0;34mINFO[m
[0;34mINFO[m @[1m--- @[0;32mmaven-compiler-plugin:3.10.1:compile@m @[@[1m(default-compile)@[@[0;36minsure-me@[0;1m ---@[m
[0;34mINFO[m Changes detected - recompiling the module!
[0;34mINFO[m Compiling 5 source files to /home/devopsadmin/workspace/insurance/target/classes
[0;34mINFO[m
[0;34mINFO[m @[1m--- @[0;32mmaven-resources-plugin:3.2.0:testResources@m @[@[1m(default-testResources)@[@[0;36minsure-me@[0;1m ---@[m
[0;34mINFO[m Using 'UTF-8' encoding to copy filtered resources.
[0;34mINFO[m Using 'UTF-8' encoding to copy filtered properties files.
[0;34mINFO[m skip non existing resourceDirectory /home/devopsadmin/workspace/insurance/src/test/resources
[0;34mINFO[m
[0;34mINFO[m @[1m--- @[0;32mmaven-compiler-plugin:3.10.1:testCompile@m @[@[1m(default-testCompile)@[@[0;36minsure-me@[0;1m ---@[m
[0;34mINFO[m Changes detected - recompiling the module!
[0;34mINFO[m Compiling 1 source file to /home/devopsadmin/workspace/insurance/target/test-classes
[0;34mINFO[m
[0;34mINFO[m @[1m--- @[0;32mmaven-surefire-plugin:2.22.2:test@m @[@[1m(default-test)@[@[0;36minsure-me@[0;1m ---@[m
[0;34mINFO[m
```

insurance/Jenkinsfile at master | Instances | EC2 | us-west-1 | insurance #1 Console [Jenkins] | Insure-me | +

Not secure 13.56.223.20:8080/job/insurance/1/console

Apps WhatsApp Gmail Google Drive Google Keep One Drive Amazon Web Servic... StarAgile LMS (Ajay Gaur) iamajaygaur/DevOp... All Bookmarks

Dashboard > insurance > #1

```
[0;34mINFO[m
[0;34mINFO[m -----
[0;34mINFO[m T E S T S
[0;34mINFO[m -----
[0;34mINFO[m Running com.project.staragile.insureme.@[1mInsureMeApplicationTests@m
06:49:45.818 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating CacheAwareContextLoaderDelegate from class [org.springframework.test.context.cache.DefaultCacheAwareContextLoaderDelegate]
06:49:45.852 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating BootstrapContext using constructor [public org.springframework.test.context.support.DefaultBootstrapContext(java.lang.Class,org.springframework.test.context.CacheAwareContextLoaderDelegate)]
06:49:45.980 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating TestContextBootstrapper for test class [com.project.staragile.insureme.InsureMeApplicationTests] from class [org.springframework.boot.test.context.SpringBootTestBootstrapper]
06:49:46.009 [main] INFO org.springframework.boot.test.context.SpringBootTestBootstrapper - Neither @ContextConfiguration nor @ContextHierarchy found for test class [com.project.staragile.insureme.InsureMeApplicationTests], using SpringBootTestContextLoader
06:49:46.022 [main] DEBUG org.springframework.test.context.support.AbstractContextLoader - Did not detect default resource location for test class [com.project.staragile.insureme.InsureMeApplicationTests]: class path resource [com/project/staragile/insureme/InsureMeApplicationTests-context.xml] does not exist
06:49:46.024 [main] DEBUG org.springframework.test.context.support.AbstractContextLoader - Did not detect default resource location for test class [com.project.staragile.insureme.InsureMeApplicationTests]: class path resource [com/project/staragile/insureme/InsureMeApplicationTestsContext.groovy] does not exist
06:49:46.026 [main] INFO org.springframework.test.context.support.AbstractContextLoader - Could not detect default resource locations for test class [com.project.staragile.insureme.InsureMeApplicationTests]: no resource found for suffixes {-context.xml, context.groovy}.
06:49:46.029 [main] INFO org.springframework.test.context.support.AnnotationConfigContextLoaderUtils - Could not detect default configuration classes for test class [com.project.staragile.insureme.InsureMeApplicationTests]: InsureMeApplicationTests does not declare any static, non-private, non-final, nested classes annotated with @Configuration
06:49:46.143 [main] DEBUG org.springframework.test.context.support.ActiveProfilesUtils - Could not find an 'annotation declaring class' for annotation type [org.springframework.test.context.ActiveProfiles] and class [com.project.staragile.insureme.InsureMeApplicationTests]
06:49:46.299 [main] DEBUG org.springframework.context.annotation.ClassPathScanningCandidateComponentProvider - Identified candidate component class: file [/home/devopsadmin/workspace/insurance/target/classes/com/project/staragile/insureme/InsureMeApplication.class]
06:49:46.343 [main] INFO org.springframework.boot.test.context.SpringBootTestBootstrapper - Found @SpringBootConfiguration com.project.staragile.insureme.InsureMeApplication for test class com.project.staragile.insureme.InsureMeApplicationTests
```

```

  _\   _/  _\ _\ \_ \_ \_ \_ \_ \_ \_ 
  (( )_\ _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ 
  \|_\ _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ 
  ' _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ _\ 
  ======|_|=====|_|/_/=/\_/_/ 
  :: Spring Boot ::          (v2.7.4)

2024-02-21 06:49:47.458 INFO 1454 --- [           main] c.p.s.insureme.InsureMeApplicationTests : Starting InsureMeApplicationTests using Java
11.0.21 on ip-172-31-19-155 with PID 1454 (started by devopsadmin in /home/devopsadmin/workspace/insurance)
2024-02-21 06:49:47.466 INFO 1454 --- [           main] c.p.s.insureme.InsureMeApplicationTests : No active profile set, falling back to 1
default profile: "default"
2024-02-21 06:49:49.173 INFO 1454 --- [           main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in
DEFAULT mode.
2024-02-21 06:49:49.278 INFO 1454 --- [           ms. Found 1 JPA repository interfaces.
2024-02-21 06:49:50.563 INFO 1454 --- [           main] com.zaxxer.hikari.HikariDataSource      : HikariPool-1 - Starting...
2024-02-21 06:49:51.059 INFO 1454 --- [           main] com.zaxxer.hikari.HikariDataSource      : HikariPool-1 - Start completed.
2024-02-21 06:49:51.218 INFO 1454 --- [           main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo
[name: default]
2024-02-21 06:49:51.337 INFO 1454 --- [           main] org.hibernate.Version                 : HHH000412: Hibernate ORM core version
5.6.11.Final
2024-02-21 06:49:51.729 INFO 1454 --- [           main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations
{5.1.2.Final}
2024-02-21 06:49:52.053 INFO 1454 --- [           main] org.hibernate.dialect.Dialect       : HHH000400: Using dialect:
org.hibernate.dialect.H2Dialect
2024-02-21 06:49:53.246 INFO 1454 --- [           main] o.h.e.t.j.p.i.JtaPlatformInitiator   : HHH000490: Using JtaPlatform implementation:
[org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]
2024-02-21 06:49:53.268 INFO 1454 --- [           main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for

```

```

[1;34mINFO@1m] Replacing main artifact with repackaged archive
[1;34mINFO@1m] @1m-----@1m
[1;34mINFO@1m] @1;32mBUILD SUCCESS@1m
[1;34mINFO@1m] @1m-----@1m
[1;34mINFO@1m] Total time: 22.547 s
[1;34mINFO@1m] Finished at: 2024-02-21T06:49:59Z
[1;34mINFO@1m] @1m-----@1m
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Docker build)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv
[Pipeline] {
[Pipeline] sh
+ docker version
Client:
Version: 24.0.5
API version: 1.43
Go version: go1.20.3
Git commit: 24.0.5-0ubuntu1~20.04.1
Built: Mon Aug 21 19:50:14 2023
OS/Arch: linux/amd64
Context: default

Server:
Engine:
Version: 24.0.5

```

```

insurance/Jenkinsfile at master | Instances | EC2 | us-west-1 | insurance #1 Console [Jenkins] | Insure-me | + | - | X
13.56.223.20:8080/job/insurance/1/console | Not secure | Apps | WhatsApp | Gmail | Google Drive | Google Keep | One Drive | Amazon Web Servic... | StarAgile LMS | (Ajay Gaur) | iamajaygaur/DevOp...
Dashboard > insurance > #1

version: 24.0.5
API version: 1.43
Go version: go1.20.3
Git commit: 24.0.5-0ubuntu1~20.04.1
Built: Mon Aug 21 19:50:14 2023
OS/Arch: linux/amd64
Context: default

Server:
Engine:
Version: 24.0.5
API version: 1.43 (minimum version 1.12)
Go version: go1.20.3
Git commit: 24.0.5-0ubuntu1~20.04.1
Built: Mon Aug 21 19:50:14 2023
OS/Arch: linux/amd64
Experimental: false
containerd:
Version: 1.7.2
GitCommit:
runc:
Version: 1.1.7-0ubuntu1~20.04.2
GitCommit:
docker-init:
Version: 0.19.0
GitCommit:
[Pipeline] sh
+ docker build -t iamajaygaur/insurance:1 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

```

```

insurance/Jenkinsfile at master | Instances | EC2 | us-west-1 | insurance #1 Console [Jenkins] | Insure-me | + | - | X
13.56.223.20:8080/job/insurance/1/console | Not secure | Apps | WhatsApp | Gmail | Google Drive | Google Keep | One Drive | Amazon Web Servic... | StarAgile LMS | (Ajay Gaur) | iamajaygaur/DevOp...
Dashboard > insurance > #1

[Pipeline] sh
+ docker build -t iamajaygaur/insurance:1 .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 86.17MB

Step 1/5 : FROM openjdk:11
--> 47a832d998b7
Step 2/5 : ARG JAR_FILE=target/*.jar
--> Using cache
--> 15457d378f38
Step 3/5 : COPY ${JARFILE} app.jar
--> dec2d3a88550
Step 4/5 : ENTRYPOINT ["java","-jar","/app.jar"]
--> Running in 2cf8439c9c1b
Removing intermediate container 2cf8439c9c1b
--> 5f6184f4414c
Step 5/5 : EXPOSE 8082
--> Running in 16581d80f7a3
Removing intermediate container 16581d80f7a3
--> 98e831a5c3de
Successfully built 98e831a5c3de
Successfully tagged iamajaygaur/insurance:1
[Pipeline] sh
+ docker image list
REPOSITORY           TAG      IMAGE ID      CREATED     SIZE
iamajaygaur/insurance    1        98e831a5c3de   1 second ago  695MB
iamajaygaur/health-care   3        e69b00c4483b   18 hours ago  695MB

```

```
insurance/Jenkinsfile at master | Instances | EC2 | us-west-1 | insurance #1 Console [Jenkins] | Insure-me | - | + | Not secure 13.56.223.20:8080/job/insurance/1/console | Apps | WhatsApp | Gmail | Google Drive | Google Keep | One Drive | Amazon Web Servic... | StarAgile LMS | (Ajay Gaur) | iamajaygaur/DevOp... | All Bookmarks
```

Dashboard > insurance > #1

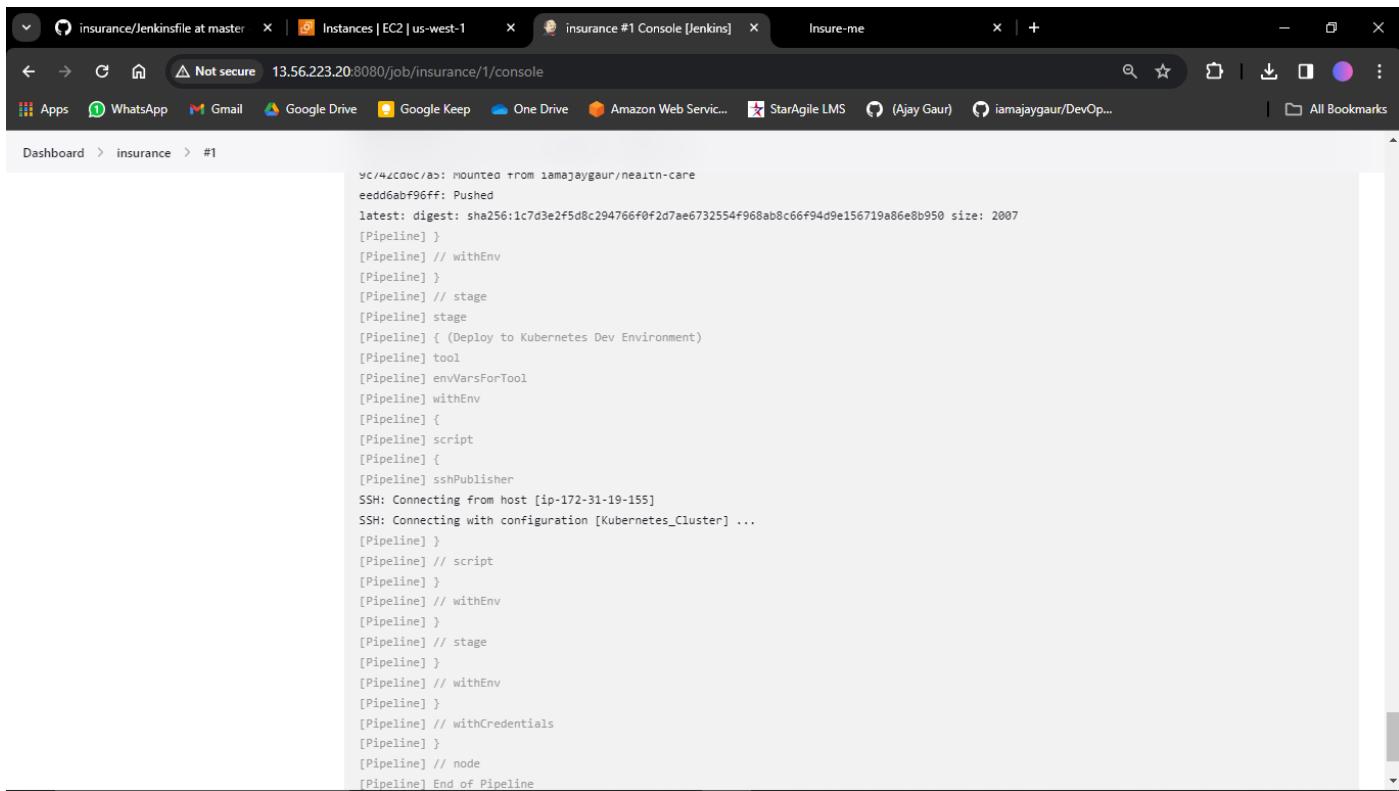
```
[Pipeline] sh
+ docker image list
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
iamajaygaur/insurance   1        98e831a5c3de  1 second ago  695MB
iamajaygaur/health-care  3        e69b00c4483b  18 hours ago  695MB
iamajaygaur/health-care  latest   e69b00c4483b  18 hours ago  695MB
iamajaygaur/health-care  2        9641c8cbfb50  18 hours ago  695MB
iamajaygaur/health-care  1        a037c79316b5  18 hours ago  695MB
iamajaygaur/healthcare-eta-app  3        9d63bf001c98  19 hours ago  695MB
iamajaygaur/healthcare-eta-app  latest   9d63bf001c98  19 hours ago  695MB
iamajaygaur/healthcare-eta-app  2        2a310b39e735  19 hours ago  695MB
iamajaygaur/healthcare-eta-app  1        29eadd2ee cbd  19 hours ago  695MB
iamajaygaur/bankapp-eta-app   4        91a63a2b42b5  46 hours ago  696MB
iamajaygaur/bankapp-eta-app   latest   91a63a2b42b5  46 hours ago  696MB
iamajaygaur/bankapp-eta-app   3        3803c537c165  47 hours ago  696MB
iamajaygaur/bankapp-eta-app   2        66168c629a22  47 hours ago  696MB
iamajaygaur/bankapp-eta-app   1        6703035e716d  47 hours ago  696MB
iamajaygaur/bankingapp      4        e4c32a43d7e1  47 hours ago  696MB
iamajaygaur/bankingapp      latest   e4c32a43d7e1  47 hours ago  696MB
iamajaygaur/bankingapp      3        d6396c74bfc6  47 hours ago  696MB
iamajaygaur/bankingapp      2        6c1fdb635866  2 days ago   696MB
loksaieta/loksai-eta-app    1        705a5e2eacff  2 days ago   357MB
loksaieta/loksai-eta-app    latest   705a5e2eacff  2 days ago   357MB
openjdk                   11       47a932d998b7  18 months ago  654MB
tomcat                     8.0      ef6a7c98d192  5 years ago   356MB
[Pipeline] sh
+ docker tag iamajaygaur/insurance:1 iamajaygaur/insurance:latest
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
```

```
insurance/Jenkinsfile at master | Instances | EC2 | us-west-1 | insurance #1 Console [Jenkins] | Insure-me | - | + | Not secure 13.56.223.20:8080/job/insurance/1/console | Apps | WhatsApp | Gmail | Google Drive | Google Keep | One Drive | Amazon Web Servic... | StarAgile LMS | (Ajay Gaur) | iamajaygaur/DevOp... | All Bookmarks
```

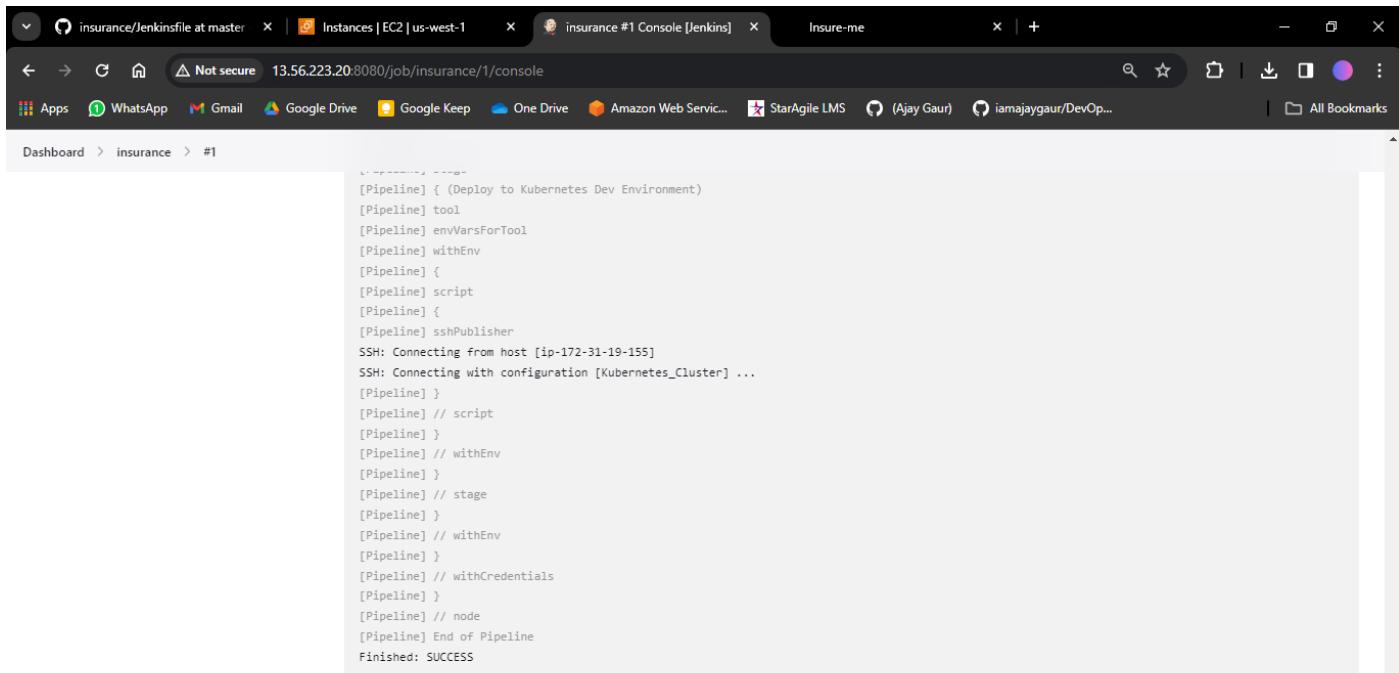
Dashboard > insurance > #1

```
WARNING! Your password will be stored unencrypted in /home/devopsadmin/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store
```

```
Login Succeeded
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Push2DockerHub)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv
[Pipeline] {
[Pipeline] sh
+ docker push iamajaygaur/insurance:latest
The push refers to repository [docker.io/iamajaygaur/insurance]
eedd6abf96ff: Preparing
7b7f3078e1db: Preparing
826c3ddb29c: Preparing
b626401ef603: Preparing
9b55156abf26: Preparing
293d5db30c9f: Preparing
03127cdb479b: Preparing
9c742cd6c7a5: Preparing
293d5db30c9f: Waiting
03127cdb479b: Waiting
9c742cd6c7a5: Waiting
9b55156abf26: Mounted from iamajaygaur/health-care
7b7f3078e1db: Mounted from iamajaygaur/health-care
```



```
yc/42c0bc/a: Mounted from iamajaygaur/nealth-care  
eedd6abf96ff: Pushed  
latest: digest: sha256:1c7d3e2f5d8c294766f0f2d7ae6732554f968ab8c66f94d9e156719a86e8b950 size: 2007  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Deploy to Kubernetes Dev Environment)  
[Pipeline] tool  
[Pipeline] envVarsForTool  
[Pipeline] withEnv  
[Pipeline] {  
[Pipeline] script  
[Pipeline] {  
[Pipeline] sshPublisher  
SSH: Connecting from host [ip-172-31-19-155]  
SSH: Connecting with configuration [Kubernetes_Cluster] ...  
[Pipeline] }  
[Pipeline] // script  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // withCredentials  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline
```



```
yc/42c0bc/a: Mounted from iamajaygaur/nealth-care  
eedd6abf96ff: Pushed  
latest: digest: sha256:1c7d3e2f5d8c294766f0f2d7ae6732554f968ab8c66f94d9e156719a86e8b950 size: 2007  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] { (Deploy to Kubernetes Dev Environment)  
[Pipeline] tool  
[Pipeline] envVarsForTool  
[Pipeline] withEnv  
[Pipeline] {  
[Pipeline] script  
[Pipeline] {  
[Pipeline] sshPublisher  
SSH: Connecting from host [ip-172-31-19-155]  
SSH: Connecting with configuration [Kubernetes_Cluster] ...  
[Pipeline] }  
[Pipeline] // script  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // withCredentials  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline  
Finished: SUCCESS
```

Screenshot of Docker Hub repository page for iamajaygaur/insurance:

- Header:** insurance/Jenkinsfile at master, Instances | EC2 us-west-1, insurance #1 Console | Jenkins, Insure-me, iamajaygaur/insurance general
- Breadcrumbs:** iamajaygaur / Repositories / insurance / General
- Repository Information:**
 - Name: iamajaygaur/insurance
 - Last updated: 4 minutes ago
 - Tags: insurance (with edit icon)
- Docker commands:** docker push iamajaygaur/insurance:tagname
- Tags Table:**

Tag	OS	Type	Pulled	Pushed
latest		Image	4 minutes ago	4 minutes ago
- See all** link
- Automated Builds:**
 - Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.
 - Available with Pro, Team and Business subscriptions. [Read more about automated builds](#).
- Public View** button

Screenshot of MobaXterm terminal window titled "k8s-master" showing Kubernetes command outputs:

```

k8s-master
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultExec Tunneling Packages Settings Help
X server Exit

Quick connect...
jenkins-master k8s-master

devopsadmin@kmaster-node:~$ kubectl get nodes
NAME           STATUS    ROLES      AGE   VERSION
kmaster-node   Ready     control-plane   2d   v1.28.2
worker-node1   Ready     <none>    2d   v1.28.2
worker-node2   NotReady  <none>    2d   v1.28.2

devopsadmin@kmaster-node:~$ kubectl get pods
NAME                               READY   STATUS    RESTARTS   AGE
bankapp-eta-deploy-d466b85c8-476w5   1/1    Running   0          5m50s
bankapp-eta-deploy-d466b85c8-c4dbm   1/1    Running   0          5m50s
bankapp-eta-deploy-d466b85c8-zqdjt   1/1    Running   0          5m50s
bankingapp-deploy-5fd9b56dd9-b79mh   0/1    ImagePullBackOff   0          5m50s
bankingapp-deploy-5fd9b56dd9-fjrvk   0/1    ErrImagePull   0          5m50s
bankingapp-deploy-5fd9b56dd9-t5kw1   0/1    ImagePullBackOff   0          5m50s
health-care-fb766fd54-q7lvx        1/1    Running   0          5m50s
health-care-fb766fd54-wpl27        1/1    Running   0          5m50s
health-care-fb766fd54-xlgbv        1/1    Running   0          5m50s
healthcare-eta-deploy-6b79ddc9c8-2mz2v  0/1    ImagePullBackOff   0          5m50s
healthcare-eta-deploy-6b79ddc9c8-l2f77  0/1    ImagePullBackOff   0          5m50s
healthcare-eta-deploy-6b79ddc9c8-xqhwz  0/1    ErrImagePull   0          5m50s
insurance-58b96bbb5d-5r514         1/1    Running   0          4m39s
insurance-58b96bbb5d-9g7vx         0/1    Pending    0          4m39s
insurance-58b96bbb5d-p6x5k         1/1    Running   0          4m39s

devopsadmin@kmaster-node:~$ kubectl get svc
NAME           TYPE      CLUSTER-IP   EXTERNAL-IP   PORT(S)   AGE
insurance-np-service   NodePort   10.104.134.13  <none>       8082:31032/TCP   4m47s
kubernetes      ClusterIP  10.96.0.1    <none>       443/TCP    2d

devopsadmin@kmaster-node:~$ 
```

MobaXterm interface with session list, file browser, and status bar showing system metrics.

→http://13.57.237.145:31032/

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[View All](#)

insurance/Jenkinsfile at master | Instances | EC2 | us-west-1 | insurance #1 Console | Jenkins | Insure-me | iamajaygaur/insurance gen | +

Not secure 13.57.237.145:31032

All Bookmarks



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Amit Biswas
Client

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Enter Your Email

The screenshot shows a web browser with multiple tabs open. The active tab displays a user profile for 'Armit Biswas' under the heading 'Client'. Below the profile picture, the name 'Armit Biswas' and title 'Client' are displayed. The main content area has a dark blue background with white text. On the left, there's a section for 'INSURE-ME' with a brief description: 'The world class Global insurance provider having customer in 67 countries.' Below this are social media icons for Facebook, Twitter, LinkedIn, and YouTube. In the center, there's a 'CONTACT US' section with a message: 'Please are working 24*7 to deliver you the world's best services.' To the right, there's a 'SIGN UP TO OUR NEWSLETTER' section with a form field for 'Enter Your Email' and a green 'Subscribe' button.

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→ Launch the Monitoring Server in VM and Install and Configure Prometheus and Grafana

The screenshot shows the AWS Management Console with the URL 'us-west-1.console.aws.amazon.com/ec2/home?region=us-west-1#Instances:v=3;\$case=tags:true%5C;client:false;\$regex=tags:false%5C;client:false' in the address bar. The left sidebar shows navigation links for EC2 Dashboard, EC2 Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, Lifecycle Manager, CloudShell, and Feedback. The main content area is titled 'Instances (1/6) Info' and shows a table of running instances. One instance, 'monitoring-server' (ID i-032eb6bdfcb2008f8), is selected and highlighted with a blue border. The 'Details' tab is selected in the sub-navigation. The instance summary shows the following details:

Instance ID	Public IPv4 address	Private IP4 addresses
i-032eb6bdfcb2008f8 (monitoring-server)	13.57.27.140 open address	172.31.19.226
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-13-57-27-140.us-west-1.compute.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	

```
[root@ip-172-31-19-226 ~]# sudo systemctl daemon-reload
[root@ip-172-31-19-226 ~]# sudo systemctl start prometheus
[root@ip-172-31-19-226 ~]# sudo systemctl status prometheus
● prometheus.service - Prometheus Server
    Loaded: loaded (/etc/systemd/system/prometheus.service; enabled; preset: disabled)
    Active: active (running) since Wed 2024-02-21 06:59:45 UTC; 4min 3s ago
      Docs: https://prometheus.io/docs/introduction/overview/
        Main PID: 2151 (prometheus)
          Tasks: 7 (limit: 1114)
         Memory: 103.7M
            CPU: 365ms
           CGroup: /system.slice/prometheus.service
                   └─2151 /root/prometheus-2.49.0-rc.1.linux-amd64/prometheus --config.file=/root/prometheus-2.49.0-r>
Feb 21 06:59:46 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T06:59:46.944Z calle>
Feb 21 06:59:46 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T06:59:46.949Z calle>
Feb 21 06:59:46 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T06:59:46.949Z calle>
Feb 21 06:59:46 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T06:59:46.949Z calle>
Feb 21 07:00:01 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T07:00:01.017Z calle>
Feb 21 07:00:01 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T07:00:01.020Z calle>
Feb 21 07:00:01 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T07:00:01.079Z calle>
Feb 21 07:00:01 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T07:00:01.084Z calle>
Feb 21 07:00:01 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T07:00:01.085Z calle>
Feb 21 07:00:01 ip-172-31-19-226.us-west-1.compute.internal prometheus[2151]: ts=2024-02-21T07:00:01.093Z calle>
lines 1-21/21 (END)
```

Follow terminal folder

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```
[root@ip-172-31-19-226 ~]# sudo /bin/systemctl start grafana-server.service
[root@ip-172-31-19-226 ~]# sudo /bin/systemctl status grafana-server.service
● grafana-server.service - Grafana instance
    Loaded: loaded (/usr/lib/systemd/system/grafana-server.service; enabled; preset: disabled)
    Active: active (running) since Wed 2024-02-21 06:59:48 UTC; 6min ago
      Docs: http://docs.grafana.org
        Main PID: 2146 (grafana-server)
          Tasks: 7 (limit: 1114)
         Memory: 102.3M
            CPU: 681ms
           CGroup: /system.slice/grafana-server.service
                   └─2146 /usr/sbin/grafana-server --config=/etc/grafana/grafana.ini --pidfile=/var/run/grafana/grafan>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=ticker t=2024-02-21T06:>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=infra.usagesstats.colle:>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=server t=2024-02-21T06:>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=provisioning.alerting:>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=provisioning.alerting:>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal systemd[1]: Started grafana-server.service - Grafan:>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=http.server t=2024-02->
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=ngalert t=2024-02-21T0:>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=grafanaStorageLogger t:>
Feb 21 06:59:48 ip-172-31-19-226.us-west-1.compute.internal grafana-server[2146]: logger=ngalert.multior.org.alert:>
lines 1-21/21 (END)
```

Follow terminal folder

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The screenshot shows the Prometheus Time Series Collection interface. The URL in the address bar is `13.57.27.140:9090/graph?g0.expr=up&g0.tab=1&g0.display_mode=lines&g0.show_exemplars=0&g0.range_input=1h`. The interface includes a navigation bar with links for Prometheus, Alerts, Graph, Status, and Help. Below the navigation bar are several configuration checkboxes: Use local time, Enable query history, Enable autocomplete, Enable highlighting, and Enable linter. A search bar contains the text "up". To the right of the search bar are buttons for "Execute" and "Table" (which is currently selected). The main area displays a table with two rows of data. The first row has the label "Evaluation time" above it. The second row contains the query `up{instance="172.31.19.99:9100", job="prometheus"}` and the value "1". The third row contains the query `up{instance="localhost:9090", job="prometheus"}` and the value "1". At the bottom right of the table is a "Remove Panel" button. A blue "Add Panel" button is located at the bottom left.

The screenshot shows the Prometheus Settings interface. The URL in the address bar is `13.57.27.140:3000/datasources/edit/e0xZRNoSz`. The page title is "Data Sources / Prometheus-2". The sidebar on the left has icons for settings, search, star, square, user, and help. The main content area is titled "Settings" and shows a "Prometheus-2" data source configuration. The "Name" field is set to "Prometheus-2" and has a "Default" toggle switch turned on. The "HTTP" section contains fields for "URL" (set to `http://13.57.27.140:9090/`), "Access" (set to "Server (default)"), "Allowed cookies" (with a placeholder "New tag (enter key to add)"), and "Timeout" (with a placeholder "Timeout in seconds"). The "Auth" section contains four toggle switches: "Basic auth" (on), "With Credentials" (off), "TLS Client Auth" (on), "With CA Cert" (off), "Skip TLS Verify" (on), and "Forward OAuth Identity" (on).

Scrape interval: 1s
 Query timeout: 60s
 HTTP Method: POST

Datasource updated

Misc

Disable metrics lookup: Off

Custom query parameters: Example: max_source_resolution=5m&timeout=10

Exemplars

+ Add

Testing...

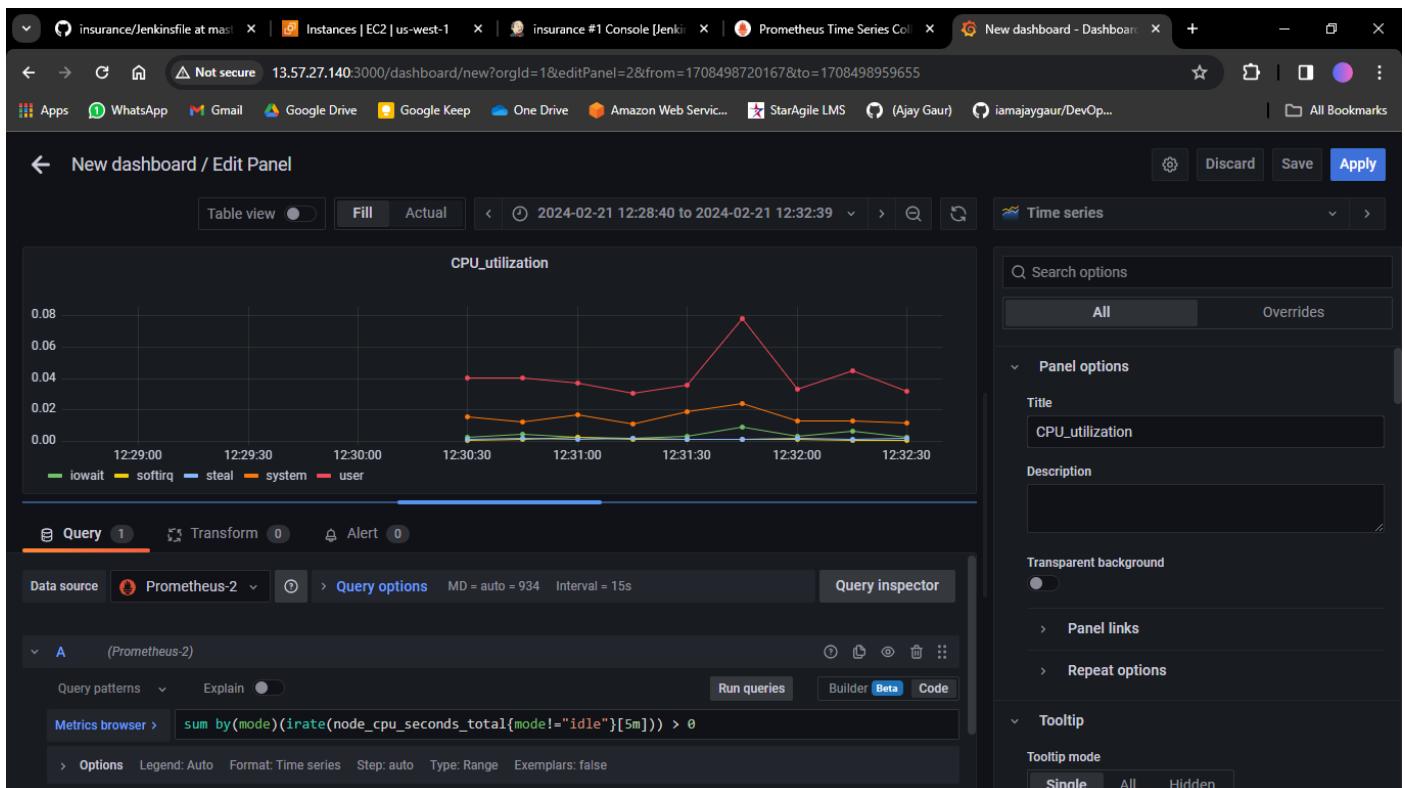
Back Explore Delete Save & test

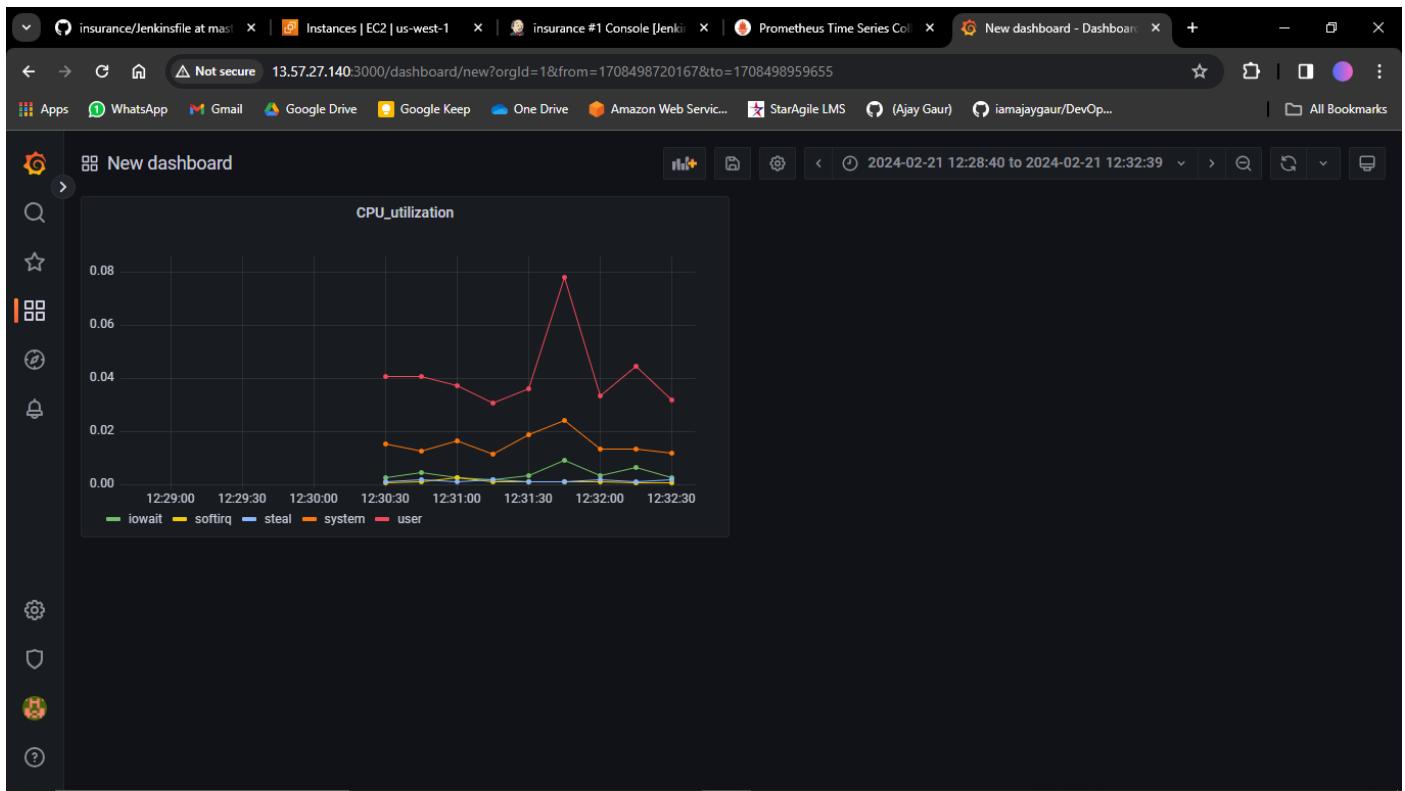
Documentation | Support | Community | Open Source | v9.1.2 (3c13120cde) | New version available!

→ Add Panel Title as CPU_utilization

→ Select Data source as Prometheus

→ Run Query - sum by(mode)(irate(node_cpu_seconds_total{mode!="idle"}[5m])) > 0

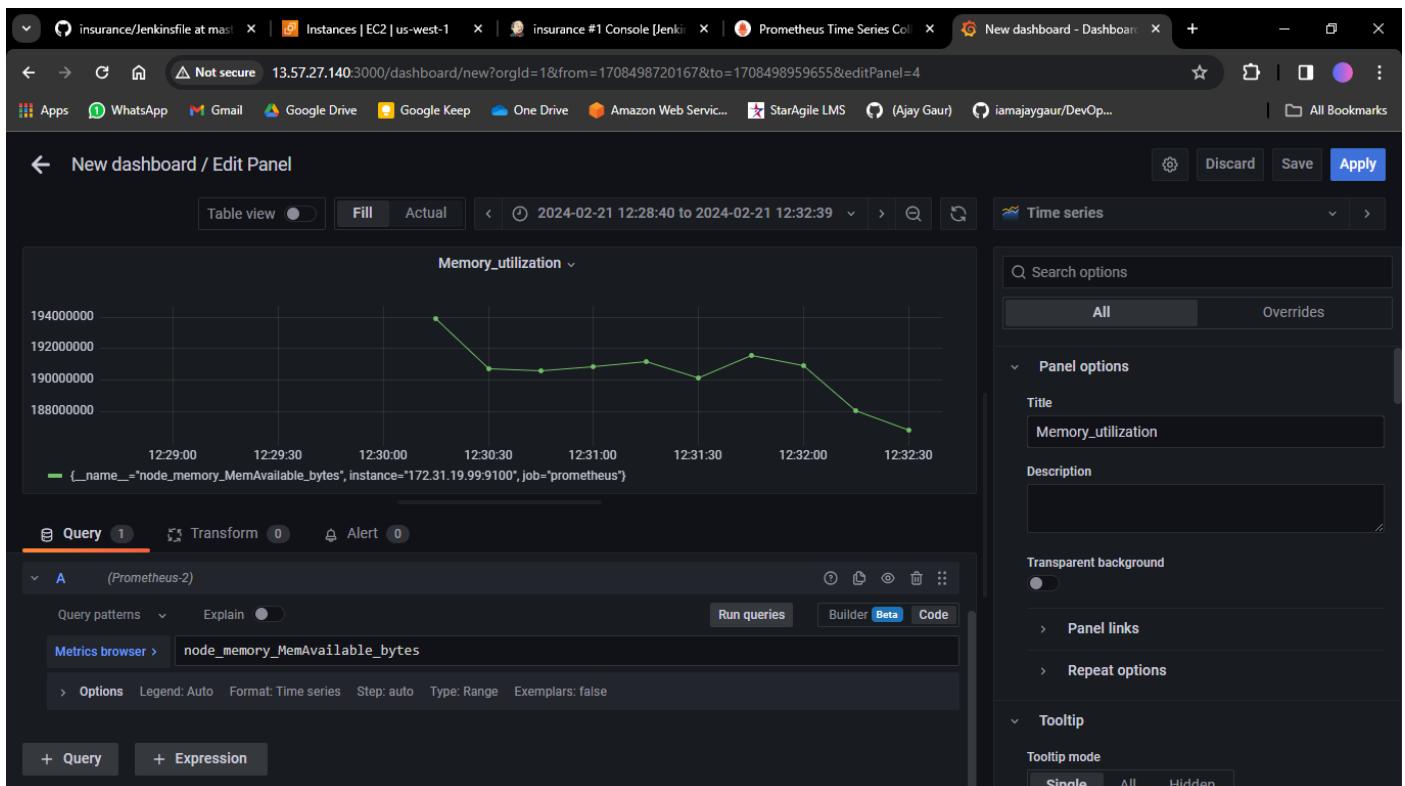


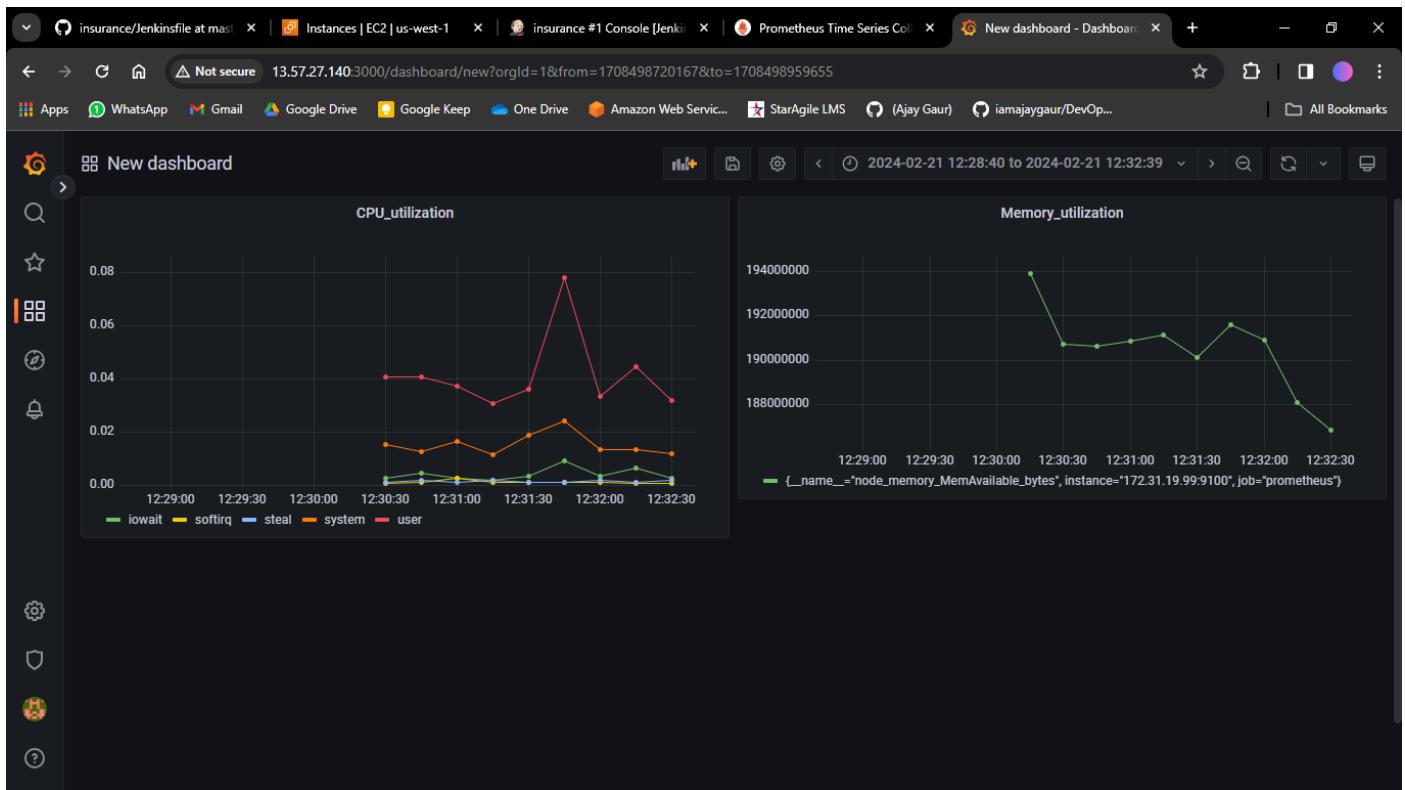


→ Add new Panel as Memory_utilization

→ Select Data source as Prometheus

→ Run Query - node_memory_MemAvailable_bytes

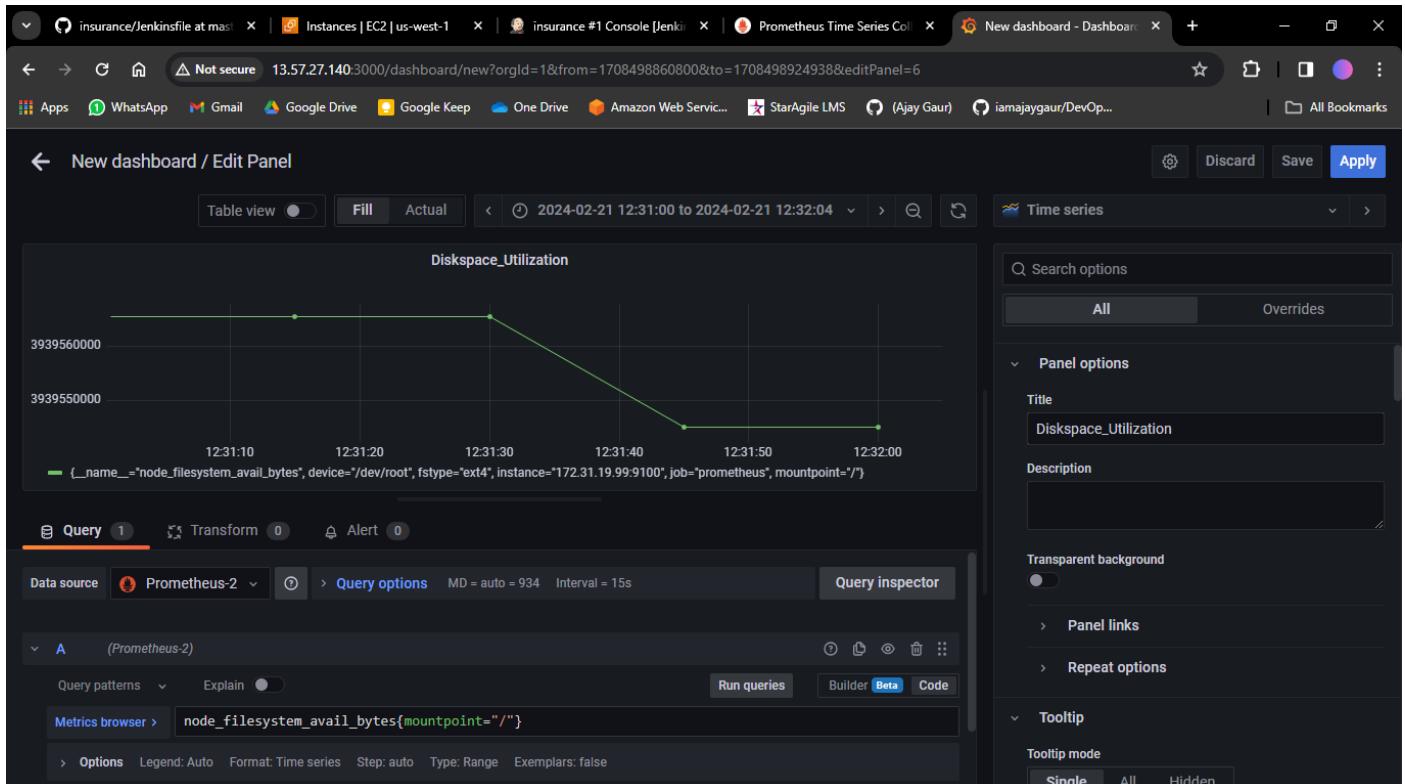


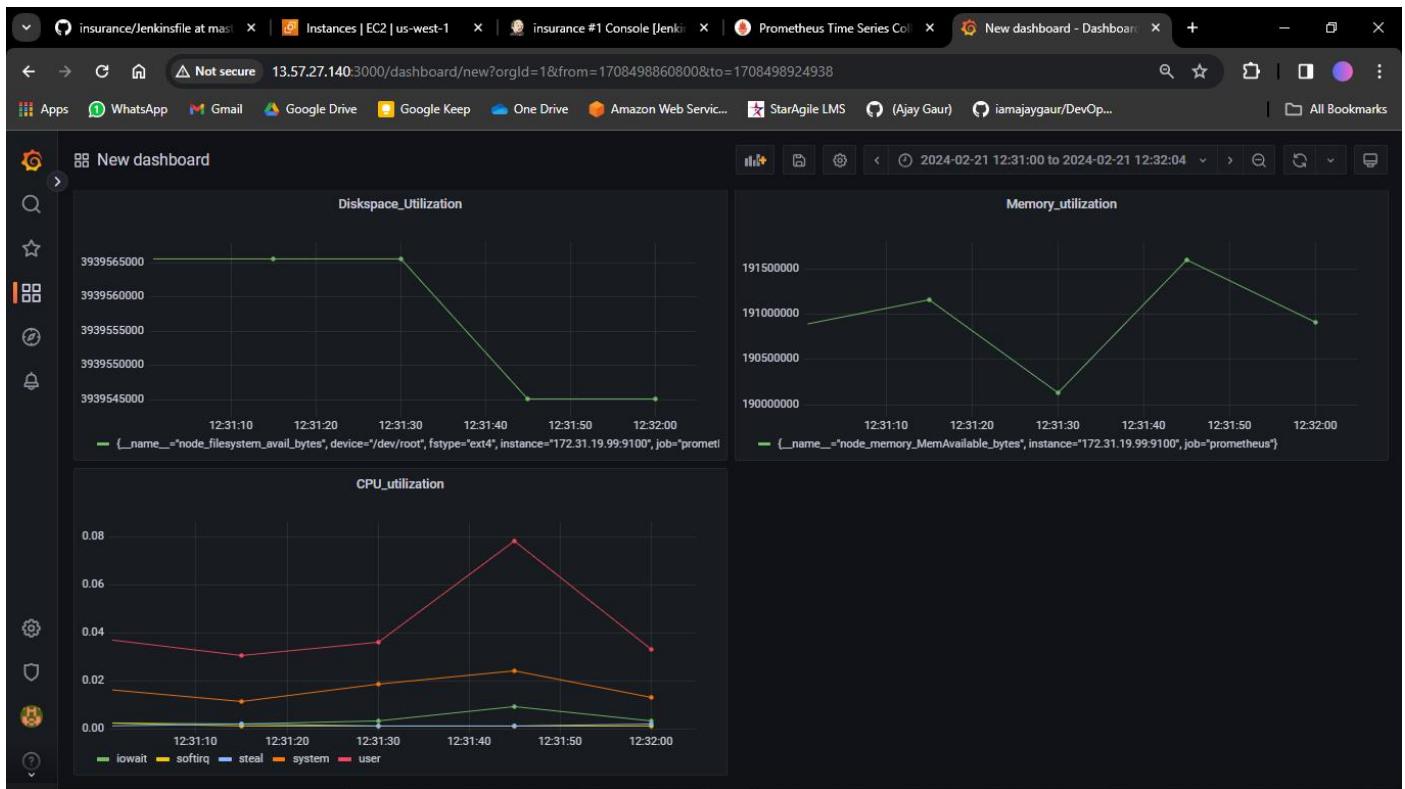


→ Add new Panel as Diskspace_Utilization

→ Select Data source as Prometheus

→ Run Query - `node_filesystem_avail_bytes{mountpoint="/"}`





→ Add new Panel as Containermemory_Utilization

→ Select Data source as Prometheus

→ Run Query - node_cpu_guest_seconds_total

