**Insurance Domain Project**

**Project Overview**

* **Project Name:** Finance Me – insurance Domain Project
* **Objective:** Transition from **monolithic** to **microservices** architecture using **DevOps**.
* **Cloud Provider:** AWS
* **GitHub Repository:** <https://github.com/Vikram9890066071/star-agile-insurance-project.git>

**📌 1. Problem Statement**

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.

**Challenges faced by FinanceMe:**   
  
✅ **Complex monolithic application architecture** was difficult to maintain.  
  
✅ **Manual testing and deployments** caused delays.  
  
✅ **Scaling issues** when traffic load increased.  
  
✅ **Manual infrastructure provisioning** was time-consuming.  
  
✅ **Monitoring the application manually** was difficult.

**Solution:**  
👉 Implement **Microservices** using **Spring Boot & MySQL**.  
  
👉 Use **DevOps tools** to enable **Continuous Integration & Continuous Deployment (CI/CD)**.  
  
👉 Deploy the application on **AWS** using **Docker, Kubernetes, and Terraform**.  
  
👉 Monitor application performance with **Prometheus & Grafana**.

**📌 2. Technologies Used**

| **Component** | **Technology** |
| --- | --- |
| **Version Control** | Git, GitHub |
| **CI/CD Pipeline** | Jenkins |
| **Containerization** | Docker |
| **Orchestration** | Kubernetes |
| **Infrastructure as Code** | Terraform |
| **Configuration Management** | Ansible |
| **Monitoring** | Prometheus, Grafana |
| **Database** | AWS RDS - MySQL |
| **Application Framework** | Java, Spring Boot, Maven |
| **Testing** | JUnit, Selenium, TestNG |

**📌 Step-by-Step CI/CD Implementation**

1. **Automate Configuration Using Ansible**

* Install Ansible on Jenkins Master Node:

sudo apt update && sudo apt install ansible -y

* Automate Kubernetes Node Configuration:
  + Create Ansible playbooks to install dependencies.
  + Configure worker nodes and load balancers.

1. **Push Code to GitHub**

* Ensure your GitHub repository is up-to-date.
* Run:

git add .

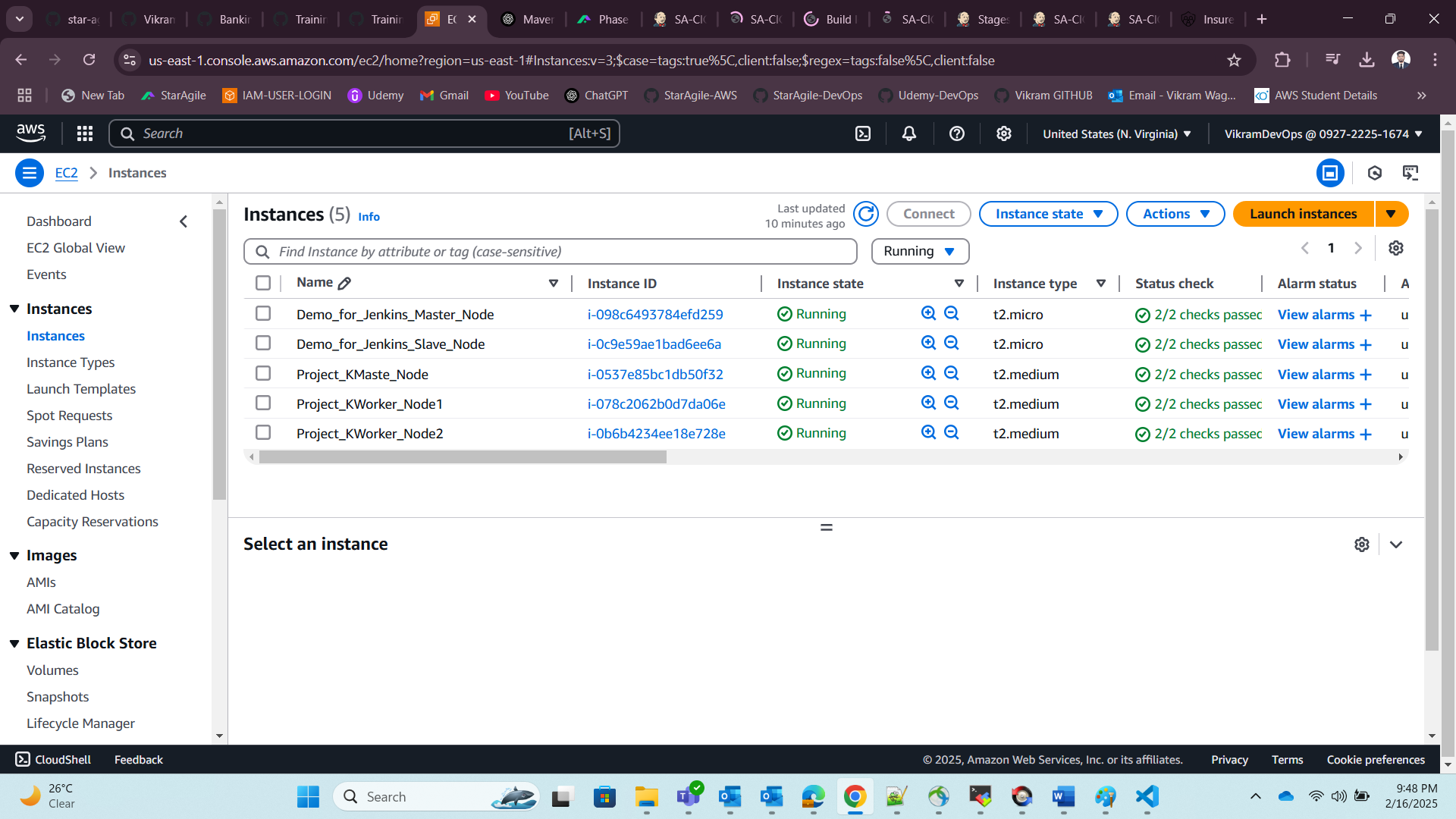
git commit -m "Final CI/CD implementation"

git push origin master

* Jenkins will automatically trigger the deployment.

**🛠️ Step 1: Set Up AWS EC2 Instances**

* Launch **5 EC2 instances** on AWS:  
  1. **Jenkins Master**
  2. **Jenkins Slave**
  3. **Kubernetes Master**
  4. **Kubernetes Worker Node 1**
  5. **Kubernetes Worker Node 2**
* Install **Docker, Kubernetes (K8s), and Jenkins** on respective instances.
* Configure **Security Groups**:
  1. Allow **ports 22 (SSH), 8080 (Jenkins), 31030 (NodePort for service)**.

📷 **EC2 Instances Running on AWS**

**🛠️ Step 2: Set Up Jenkins for CI/CD**

* Install Jenkins on the Master EC2 instance.
* Install necessary **Jenkins plugins**:
  + **Pipeline, Docker, Kubernetes, GitHub, and Ansible plugins**.
* Configure **GitHub Webhook**:
  + Auto-trigger Jenkins job **on Git push**.

📷 **Jenkins Console Output - Build Execution**

A screenshot of a computer

Description automatically generated

📷 **Jenkins Build Success Screenshot**

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📷 **Jenkins Pipeline Steps**

A screenshot of a computer

Description automatically generated

📷 **Jenkins Multi-Pipeline View**

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Description automatically generated

**🛠️ Step 3: Build & Deploy the Application**

1. **SCM Checkout**: Clone the GitHub repository.
2. **Build the application** using Maven:

mvn clean package

1. **Run unit tests** and generate HTML reports:

mvn test

1. **Create a Docker Image**:

docker build -t vsw210/insurance-eta-app:latest .

1. **Push the Docker image to Docker Hub**:

docker push vsw210/insurance-eta-app:latest

1. **Deploy to Kubernetes Cluster** using kubectl apply.

📷 **Kubernetes Deployment Status**

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📷 **Docker Hub Repository with Uploaded Images**

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**🛠️ Step 4:** The application is **deployed to production**.

📷 **Final Running Web Application**

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Description automatically generated

**📌 Jenkins Pipeline Code (Jenkinsfile)**

This script automates **build, test, containerization, and deployment**.

pipeline {

agent any

environment {

DOCKER\_HUB\_CREDENTIALS = credentials('docker-hub-credentials')

REPO\_URL = 'https://github.com/Vikram9890066071/star-agile-insurance-project.git'

}

stages {

stage('SCM Checkout') {

steps {

git branch: 'master', url: "${REPO\_URL}"

}

}

stage('Build Application') {

steps {

sh 'mvn clean package'

}

}

stage('Run Unit Tests') {

steps {

sh 'mvn test'

}

}

stage('Build Docker Image') {

steps {

sh 'docker build -t vsw210/insurance-eta-app:latest .'

}

}

stage('Push to Docker Hub') {

steps {

withDockerRegistry([credentialsId: 'docker-hub-credentials']) {

sh 'docker push vsw210/insurance-eta-app:latest'

}

}

}

stage('Deploy to Kubernetes') {

steps {

sh 'kubectl apply -f kubernetes-deployment.yaml'

}

}

stage('Run Selenium Tests') {

steps {

sh 'pytest selenium\_tests.py'

}

}

}

}

**📌 Kubernetes Deployment YAML**

This file defines the deployment and service configuration.

apiVersion: apps/v1

kind: Deployment

metadata:

name: insurance-eta-deploy

labels:

app: insurance-eta-app

spec:

replicas: 3

selector:

matchLabels:

app: insurance-eta-app

template:

metadata:

labels:

app: insurance-eta-app

spec:

containers:

- name: insurance-eta-container

image: vsw210/insurance-eta-app:latest

ports:

- containerPort: 8082

---

apiVersion: v1

kind: Service

metadata:

name: insurance-eta-np-service

labels:

app: insurance-eta-app

spec:

selector:

app: insurance-eta-app

type: NodePort

ports:

- nodePort: 31030

port: 8081

targetPort: 8081

**DETAIL LOG FIL: -**Started by user Vikram Sadashiv Waghmare

[Pipeline] Start of Pipeline

[Pipeline] node

Running on Java-SlaveNode1 in /home/devopsadmin/workspace/SA-CICD-Project-Java

[Pipeline] {

[Pipeline] withCredentials

Masking supported pattern matches of $DOCKERHUB\_CREDENTIALS or $DOCKERHUB\_CREDENTIALS\_PSW

[Pipeline] {

[Pipeline] stage

[Pipeline] { (SCM\_Checkout)

[Pipeline] echo

Perform SCM Checkout

[Pipeline] git

The recommended git tool is: NONE

No credentials specified

Fetching changes from the remote Git repository

Checking out Revision 9586e3c5da50fbc3ebf22788e082823c60481bb6 (refs/remotes/origin/master)

Commit message: "Update kubernetesdeploya.yaml"

> git rev-parse --resolve-git-dir /home/devopsadmin/workspace/SA-CICD-Project-Java/.git # timeout=10

> git config remote.origin.url https://github.com/Vikram9890066071/star-agile-insurance-project.git # timeout=10

Fetching upstream changes from https://github.com/Vikram9890066071/star-agile-insurance-project.git

> git --version # timeout=10

> git --version # 'git version 2.34.1'

> git fetch --tags --force --progress -- https://github.com/Vikram9890066071/star-agile-insurance-project.git +refs/heads/\*:refs/remotes/origin/\* # timeout=10

> git rev-parse refs/remotes/origin/master^{commit} # timeout=10

> git config core.sparsecheckout # timeout=10

> git checkout -f 9586e3c5da50fbc3ebf22788e082823c60481bb6 # timeout=10

> git branch -a -v --no-abbrev # timeout=10

> git branch -D master # timeout=10

> git checkout -b master 9586e3c5da50fbc3ebf22788e082823c60481bb6 # timeout=10

> git rev-list --no-walk b51f31c7da702c76891e77eae139e1b69fefc12c # timeout=10

[Pipeline] }

[Pipeline] // stage

[Pipeline] stage

[Pipeline] { (Application Build)

[Pipeline] echo

Perform Application Build

[Pipeline] sh

+ mvn clean package

[[1;34mINFO[m] Scanning for projects...

[[1;34mINFO[m]

[[1;34mINFO[m] [1m------------------< [0;36mcom.project.staragile:insure-me[0;1m >-------------------[m

[[1;34mINFO[m] [1mBuilding Insure-me 1.0[m

[[1;34mINFO[m] [1m--------------------------------[ jar ]---------------------------------[m

[[1;34mINFO[m]

[[1;34mINFO[m] [1m--- [0;32mmaven-clean-plugin:3.2.0:clean[m [1m(default-clean)[m @ [36minsure-me[0;1m ---[m

[[1;34mINFO[m] Deleting /home/devopsadmin/workspace/SA-CICD-Project-Java/target

[[1;34mINFO[m]

[[1;34mINFO[m] [1m--- [0;32mmaven-resources-plugin:3.2.0:resources[m [1m(default-resources)[m @ [36minsure-me[0;1m ---[m

[[1;34mINFO[m] Using 'UTF-8' encoding to copy filtered resources.

[[1;34mINFO[m] Using 'UTF-8' encoding to copy filtered properties files.

[[1;34mINFO[m] Copying 1 resource

[[1;34mINFO[m] Copying 31 resources

[[1;34mINFO[m]

[[1;34mINFO[m] [1m--- [0;32mmaven-compiler-plugin:3.10.1:compile[m [1m(default-compile)[m @ [36minsure-me[0;1m ---[m

[[1;34mINFO[m] Changes detected - recompiling the module!

[[1;34mINFO[m] Compiling 5 source files to /home/devopsadmin/workspace/SA-CICD-Project-Java/target/classes

[[1;34mINFO[m]

[[1;34mINFO[m] [1m--- [0;32mmaven-resources-plugin:3.2.0:testResources[m [1m(default-testResources)[m @ [36minsure-me[0;1m ---[m

[[1;34mINFO[m] Using 'UTF-8' encoding to copy filtered resources.

[[1;34mINFO[m] Using 'UTF-8' encoding to copy filtered properties files.

[[1;34mINFO[m] skip non existing resourceDirectory /home/devopsadmin/workspace/SA-CICD-Project-Java/src/test/resources

[[1;34mINFO[m]

[[1;34mINFO[m] [1m--- [0;32mmaven-compiler-plugin:3.10.1:testCompile[m [1m(default-testCompile)[m @ [36minsure-me[0;1m ---[m

[[1;34mINFO[m] Changes detected - recompiling the module!

[[1;34mINFO[m] Compiling 1 source file to /home/devopsadmin/workspace/SA-CICD-Project-Java/target/test-classes

[[1;34mINFO[m]

[[1;34mINFO[m] [1m--- [0;32mmaven-surefire-plugin:2.22.2:test[m [1m(default-test)[m @ [36minsure-me[0;1m ---[m

[[1;34mINFO[m]

[[1;34mINFO[m] -------------------------------------------------------

[[1;34mINFO[m] T E S T S

[[1;34mINFO[m] -------------------------------------------------------

[[1;34mINFO[m] Running com.project.staragile.insureme.[1mInsureMeApplicationTests[m

16:16:59.559 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating CacheAwareContextLoaderDelegate from class [org.springframework.test.context.cache.DefaultCacheAwareContextLoaderDelegate]

16:16:59.582 [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)]

16:16:59.673 [main] DEBUG org.springframework.test.context.BootstrapUtils - Instantiating TestContextBootstrapper for test class [com.project.staragile.insureme.InsureMeApplicationTests] from class [org.springframework.boot.test.context.SpringBootTestContextBootstrapper]

16:16:59.688 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Neither @ContextConfiguration nor @ContextHierarchy found for test class [com.project.staragile.insureme.InsureMeApplicationTests], using SpringBootContextLoader

16:16:59.693 [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

16:16:59.693 [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

16:16:59.694 [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}.

16:16:59.694 [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.

16:16:59.774 [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]

16:16:59.883 [main] DEBUG org.springframework.context.annotation.ClassPathScanningCandidateComponentProvider - Identified candidate component class: file [/home/devopsadmin/workspace/SA-CICD-Project-Java/target/classes/com/project/staragile/insureme/InsureMeApplication.class]

16:16:59.914 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Found @SpringBootConfiguration com.project.staragile.insureme.InsureMeApplication for test class com.project.staragile.insureme.InsureMeApplicationTests

16:17:00.094 [main] DEBUG org.springframework.boot.test.context.SpringBootTestContextBootstrapper - @TestExecutionListeners is not present for class [com.project.staragile.insureme.InsureMeApplicationTests]: using defaults.

16:17:00.097 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Loaded default TestExecutionListener class names from location [META-INF/spring.factories]: [org.springframework.boot.test.mock.mockito.MockitoTestExecutionListener, org.springframework.boot.test.mock.mockito.ResetMocksTestExecutionListener, org.springframework.boot.test.autoconfigure.restdocs.RestDocsTestExecutionListener, org.springframework.boot.test.autoconfigure.web.client.MockRestServiceServerResetTestExecutionListener, org.springframework.boot.test.autoconfigure.web.servlet.MockMvcPrintOnlyOnFailureTestExecutionListener, org.springframework.boot.test.autoconfigure.web.servlet.WebDriverTestExecutionListener, org.springframework.boot.test.autoconfigure.webservices.client.MockWebServiceServerTestExecutionListener, org.springframework.test.context.web.ServletTestExecutionListener, org.springframework.test.context.support.DirtiesContextBeforeModesTestExecutionListener, org.springframework.test.context.event.ApplicationEventsTestExecutionListener, org.springframework.test.context.support.DependencyInjectionTestExecutionListener, org.springframework.test.context.support.DirtiesContextTestExecutionListener, org.springframework.test.context.transaction.TransactionalTestExecutionListener, org.springframework.test.context.jdbc.SqlScriptsTestExecutionListener, org.springframework.test.context.event.EventPublishingTestExecutionListener]

16:17:00.158 [main] INFO org.springframework.boot.test.context.SpringBootTestContextBootstrapper - Using TestExecutionListeners: [org.springframework.test.context.web.ServletTestExecutionListener@38b27cdc, org.springframework.test.context.support.DirtiesContextBeforeModesTestExecutionListener@1339e7aa, org.springframework.test.context.event.ApplicationEventsTestExecutionListener@1fb669c3, org.springframework.boot.test.mock.mockito.MockitoTestExecutionListener@49c66ade, org.springframework.boot.test.autoconfigure.SpringBootDependencyInjectionTestExecutionListener@6239aba6, org.springframework.test.context.support.DirtiesContextTestExecutionListener@3e6104fc, org.springframework.test.context.transaction.TransactionalTestExecutionListener@12359a82, org.springframework.test.context.jdbc.SqlScriptsTestExecutionListener@68df9280, org.springframework.test.context.event.EventPublishingTestExecutionListener@479460a6, org.springframework.boot.test.mock.mockito.ResetMocksTestExecutionListener@7164ca4c, org.springframework.boot.test.autoconfigure.restdocs.RestDocsTestExecutionListener@4f3bbf68, org.springframework.boot.test.autoconfigure.web.client.MockRestServiceServerResetTestExecutionListener@5be46f9d, org.springframework.boot.test.autoconfigure.web.servlet.MockMvcPrintOnlyOnFailureTestExecutionListener@3f91b517, org.springframework.boot.test.autoconfigure.web.servlet.WebDriverTestExecutionListener@68702e03, org.springframework.boot.test.autoconfigure.webservices.client.MockWebServiceServerTestExecutionListener@7a220c9a]

16:17:00.168 [main] DEBUG org.springframework.test.context.support.AbstractDirtiesContextTestExecutionListener - Before test class: context [DefaultTestContext@15713d56 testClass = InsureMeApplicationTests, testInstance = [null], testMethod = [null], testException = [null], mergedContextConfiguration = [WebMergedContextConfiguration@63f259c3 testClass = InsureMeApplicationTests, locations = '{}', classes = '{class com.project.staragile.insureme.InsureMeApplication}', contextInitializerClasses = '[]', activeProfiles = '{}', propertySourceLocations = '{}', propertySourceProperties = '{org.springframework.boot.test.context.SpringBootTestContextBootstrapper=true}', contextCustomizers = set[org.springframework.boot.test.context.filter.ExcludeFilterContextCustomizer@41fecb8b, org.springframework.boot.test.json.DuplicateJsonObjectContextCustomizerFactory$DuplicateJsonObjectContextCustomizer@cad498c, org.springframework.boot.test.mock.mockito.MockitoContextCustomizer@0, org.springframework.boot.test.web.client.TestRestTemplateContextCustomizer@6c130c45, org.springframework.boot.test.autoconfigure.actuate.metrics.MetricsExportContextCustomizerFactory$DisableMetricExportContextCustomizer@29d89d5d, org.springframework.boot.test.autoconfigure.properties.PropertyMappingContextCustomizer@0, org.springframework.boot.test.autoconfigure.web.servlet.WebDriverContextCustomizerFactory$Customizer@63a12c68, org.springframework.boot.test.context.SpringBootTestArgs@1, org.springframework.boot.test.context.SpringBootTestWebEnvironment@27a5f880], resourceBasePath = 'src/main/webapp', contextLoader = 'org.springframework.boot.test.context.SpringBootContextLoader', parent = [null]], attributes = map['org.springframework.test.context.web.ServletTestExecutionListener.activateListener' -> true]], class annotated with @DirtiesContext [false] with mode [null].

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:: Spring Boot :: (v2.7.4)

2025-02-16 16:17:00.694 INFO 3517 --- [ main] c.p.s.insureme.InsureMeApplicationTests : Starting InsureMeApplicationTests using Java 17.0.13 on ip-172-31-84-112 with PID 3517 (started by devopsadmin in /home/devopsadmin/workspace/SA-CICD-Project-Java)

2025-02-16 16:17:00.698 INFO 3517 --- [ main] c.p.s.insureme.InsureMeApplicationTests : No active profile set, falling back to 1 default profile: "default"

2025-02-16 16:17:02.032 INFO 3517 --- [ main] .s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.

2025-02-16 16:17:02.134 INFO 3517 --- [ main] .s.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 85 ms. Found 1 JPA repository interfaces.

2025-02-16 16:17:03.218 INFO 3517 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Starting...

2025-02-16 16:17:03.578 INFO 3517 --- [ main] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.

2025-02-16 16:17:03.729 INFO 3517 --- [ main] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: default]

2025-02-16 16:17:03.826 INFO 3517 --- [ main] org.hibernate.Version : HHH000412: Hibernate ORM core version 5.6.11.Final

2025-02-16 16:17:04.137 INFO 3517 --- [ main] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations {5.1.2.Final}

2025-02-16 16:17:04.343 INFO 3517 --- [ main] org.hibernate.dialect.Dialect : HHH000400: Using dialect: org.hibernate.dialect.H2Dialect

2025-02-16 16:17:05.263 INFO 3517 --- [ main] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.NoJtaPlatform]

2025-02-16 16:17:05.278 INFO 3517 --- [ main] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'default'

2025-02-16 16:17:06.294 WARN 3517 --- [ main] JpaBaseConfiguration$JpaWebConfiguration : spring.jpa.open-in-view is enabled by default. Therefore, database queries may be performed during view rendering. Explicitly configure spring.jpa.open-in-view to disable this warning

2025-02-16 16:17:07.193 INFO 3517 --- [ main] o.s.b.a.w.s.WelcomePageHandlerMapping : Adding welcome page: class path resource [static/index.html]

2025-02-16 16:17:07.664 INFO 3517 --- [ main] c.p.s.insureme.InsureMeApplicationTests : Started InsureMeApplicationTests in 7.413 seconds (JVM running for 9.336)

[[1;34mINFO[m] [1;32mTests run: [0;1;32m3[m, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 8.675 s - in com.project.staragile.insureme.[1mInsureMeApplicationTests[m

2025-02-16 16:17:08.130 INFO 3517 --- [ionShutdownHook] j.LocalContainerEntityManagerFactoryBean : Closing JPA EntityManagerFactory for persistence unit 'default'

2025-02-16 16:17:08.134 INFO 3517 --- [ionShutdownHook] .SchemaDropperImpl$DelayedDropActionImpl : HHH000477: Starting delayed evictData of schema as part of SessionFactory shut-down'

2025-02-16 16:17:08.140 INFO 3517 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown initiated...

2025-02-16 16:17:08.148 INFO 3517 --- [ionShutdownHook] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Shutdown completed.

[[1;34mINFO[m]

[[1;34mINFO[m] Results:

[[1;34mINFO[m]

[[1;34mINFO[m] [1;32mTests run: 3, Failures: 0, Errors: 0, Skipped: 0[m

[[1;34mINFO[m]

[[1;34mINFO[m]

[[1;34mINFO[m] [1m--- [0;32mmaven-jar-plugin:3.2.2:jar[m [1m(default-jar)[m @ [36minsure-me[0;1m ---[m

[[1;34mINFO[m] Building jar: /home/devopsadmin/workspace/SA-CICD-Project-Java/target/insure-me-1.0.jar

[[1;34mINFO[m]

[[1;34mINFO[m] [1m--- [0;32mspring-boot-maven-plugin:2.7.4:repackage[m [1m(repackage)[m @ [36minsure-me[0;1m ---[m

[[1;34mINFO[m] Replacing main artifact with repackaged archive

[[1;34mINFO[m] [1m------------------------------------------------------------------------[m

[[1;34mINFO[m] [1;32mBUILD SUCCESS[m

[[1;34mINFO[m] [1m------------------------------------------------------------------------[m

[[1;34mINFO[m] Total time: 17.049 s

[[1;34mINFO[m] Finished at: 2025-02-16T16:17:10Z

[[1;34mINFO[m] [1m------------------------------------------------------------------------[m

[Pipeline] }

[Pipeline] // stage

[Pipeline] stage

[Pipeline] { (Build Docker Image)

[Pipeline] sh

+ docker version

Client:

Version: 24.0.7

API version: 1.43

Go version: go1.21.1

Git commit: 24.0.7-0ubuntu2~22.04.1

Built: Wed Mar 13 20:23:54 2024

OS/Arch: linux/amd64

Context: default

Server:

Engine:

Version: 24.0.7

API version: 1.43 (minimum version 1.12)

Go version: go1.21.1

Git commit: 24.0.7-0ubuntu2~22.04.1

Built: Wed Mar 13 20:23:54 2024

OS/Arch: linux/amd64

Experimental: false

containerd:

Version: 1.7.12

GitCommit:

runc:

Version: 1.1.12-0ubuntu2~22.04.1

GitCommit:

docker-init:

Version: 0.19.0

GitCommit:

[Pipeline] sh

+ docker build -t vsw210/insurance-eta-app:10 .

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 88.54MB

Step 1/4 : FROM openjdk:11

---> 47a932d998b7

Step 2/4 : ARG JAR\_FILE=target/\*.jar

---> Using cache

---> ad5404ccb471

Step 3/4 : COPY ${JAR\_FILE} app.jar

---> e305505f8c5c

Step 4/4 : ENTRYPOINT ["java","-jar","/app.jar"]

---> Running in a4c74b20449b

Removing intermediate container a4c74b20449b

---> 5fd113536b08

Successfully built 5fd113536b08

Successfully tagged vsw210/insurance-eta-app:10

[Pipeline] sh

+ docker image list

REPOSITORY TAG IMAGE ID CREATED SIZE

vsw210/insurance-eta-app 10 5fd113536b08 Less than a second ago 695MB

vsw210/insurance-eta-app 9 607f6e16448a 20 minutes ago 695MB

vsw210/insurance-eta-app latest 607f6e16448a 20 minutes ago 695MB

vsw210/insurance-eta-app 7 8f9ae2912f39 40 minutes ago 695MB

vsw210/instance-eta-app 6 a4919861f7e9 49 minutes ago 695MB

vsw210/instance-eta-app latest a4919861f7e9 49 minutes ago 695MB

vsw210/instance-eta-app 5 8305665c2e6f About an hour ago 695MB

vsw210/instance-eta-app 4 602770139f29 About an hour ago 695MB

vsw210/bankapp-eta-app 3 fc2310fd3476 3 hours ago 696MB

vsw210/bankapp-eta-app latest fc2310fd3476 3 hours ago 696MB

vsw210/bankapp-eta-app 2 931e60da6f65 3 hours ago 696MB

vsw210/sa-mywebapp 1 a508e0c5b1d3 4 hours ago 402MB

vsw210/sa-mywebapp latest a508e0c5b1d3 4 hours ago 402MB

vsw210/bankapp-eta-app 41 97fb7b492400 8 hours ago 696MB

vsw210/bankapp-eta-app 40 eebea5fd6cb8 8 hours ago 696MB

openjdk 11 47a932d998b7 2 years ago 654MB

tomcat 8.0 ef6a7c98d192 6 years ago 356MB

[Pipeline] sh

+ docker tag vsw210/insurance-eta-app:10 vsw210/insurance-eta-app:latest

[Pipeline] }

[Pipeline] // stage

[Pipeline] stage

[Pipeline] { (Login2DockerHub)

[Pipeline] sh

+ echo \*\*\*\*

+ docker login -u vsw210 --password-stdin

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] // stage

[Pipeline] stage

[Pipeline] { (Publish\_to\_Docker\_Registry)

[Pipeline] sh

+ docker push vsw210/insurance-eta-app:latest

The push refers to repository [docker.io/vsw210/insurance-eta-app]

eed2fe398f7a: Preparing

7b7f3078e1db: Preparing

826c3ddbb29c: Preparing

b626401ef603: Preparing

9b55156abf26: Preparing

293d5db30c9f: Preparing

03127cdb479b: Preparing

9c742cd6c7a5: Preparing

293d5db30c9f: Waiting

03127cdb479b: Waiting

9c742cd6c7a5: Waiting

7b7f3078e1db: Layer already exists

9b55156abf26: Layer already exists

826c3ddbb29c: Layer already exists

b626401ef603: Layer already exists

293d5db30c9f: Layer already exists

03127cdb479b: Layer already exists

9c742cd6c7a5: Layer already exists

eed2fe398f7a: Pushed

latest: digest: sha256:d91141504788e47410c14e412a14b3eb298e5ba88eec8f36379a4e6894ec3613 size: 2007

[Pipeline] }

[Pipeline] // stage

[Pipeline] stage

[Pipeline] { (Deploy to Kubernetes Cluster)

[Pipeline] script

[Pipeline] {

[Pipeline] sshPublisher

SSH: Connecting from host [ip-172-31-84-112]

SSH: Connecting with configuration [KMaster\_Project] ...

[Pipeline] }

[Pipeline] // script

[Pipeline] }

[Pipeline] // stage

[Pipeline] }

[Pipeline] // withCredentials

[Pipeline] }

[Pipeline] // node

[Pipeline] End of Pipeline

Finished: SUCCESS