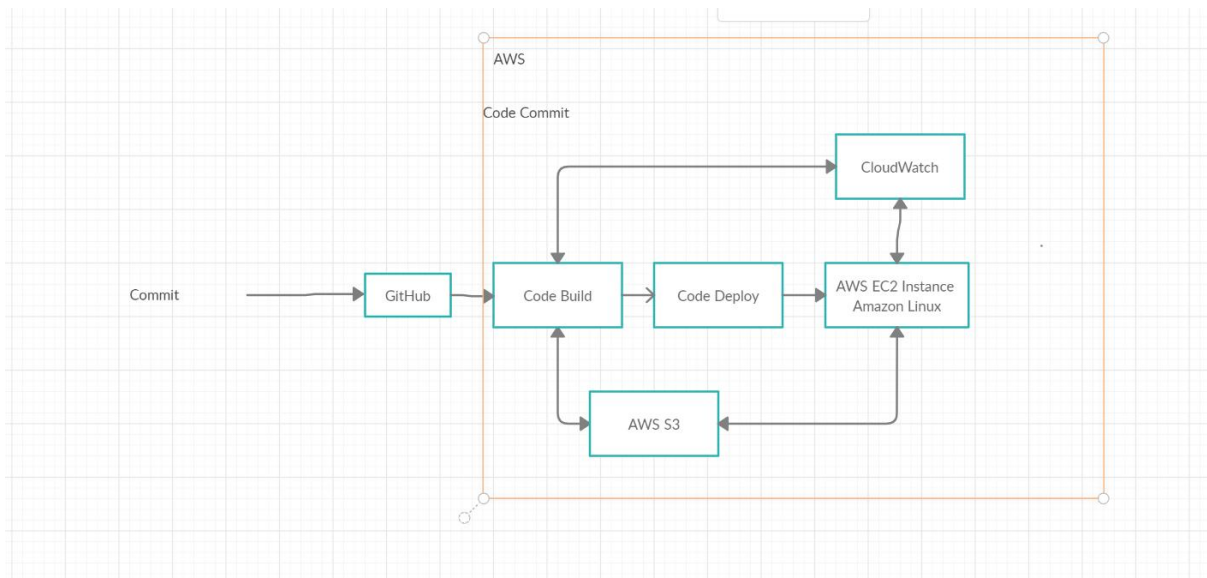


Phase 5 project

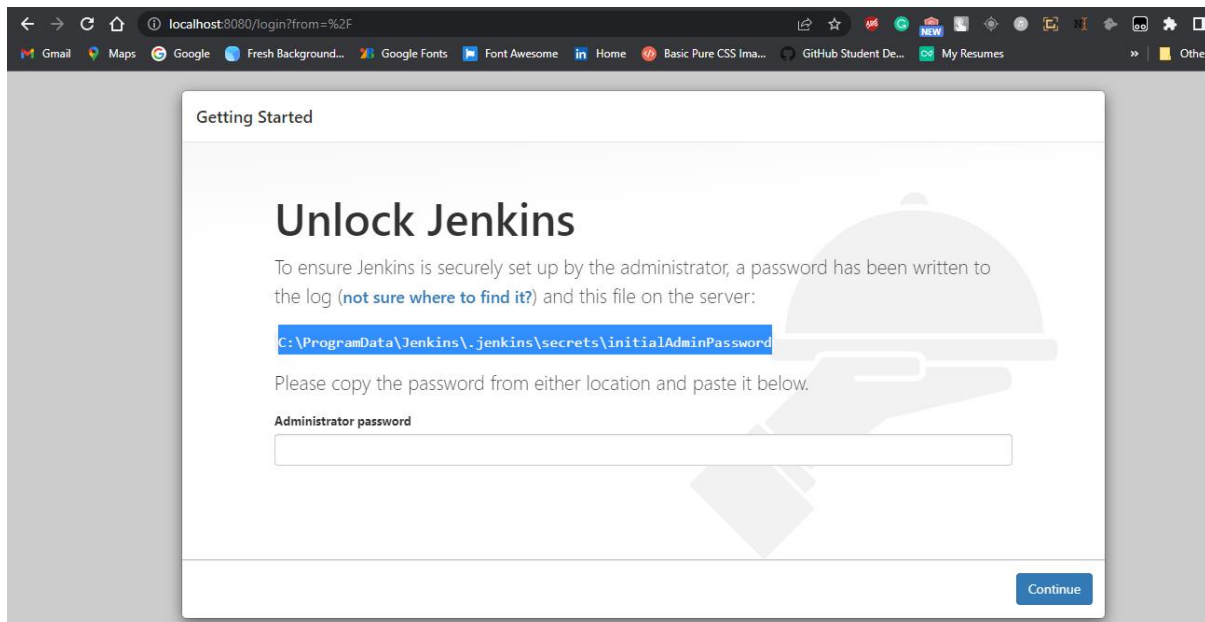
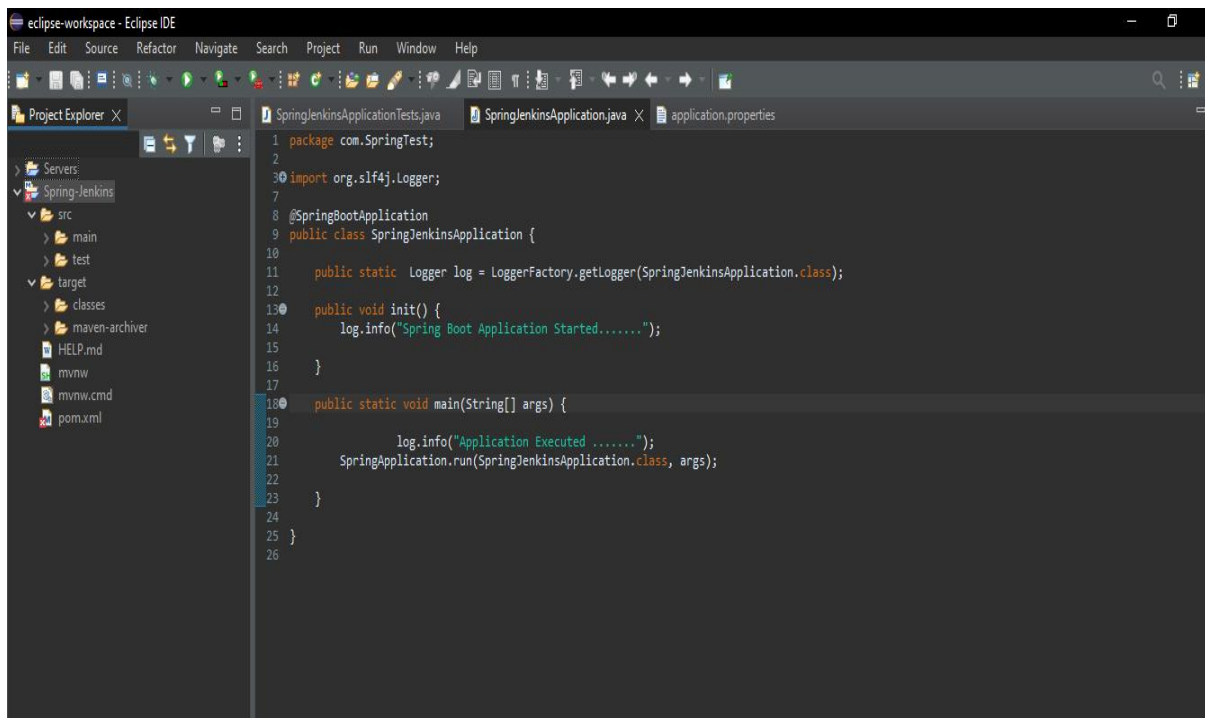
CI/CD Deployment for Springboot Application

OUPUTS:

Flow chart:



Eclipse



1. I create Simple Spring boot Application to build a CI/CD pipeline to demonstrate continuous deployment:

Dashboard ▶ Deployment Spring Jenkins ci-cd ▶ #22

```
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Auth ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Auth ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ Auth ---
[INFO] Building jar: C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ Auth ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\hi\.m2\repository\com\ci-cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\pom.xml to C:\Users\hi\.m2\repository\com\ci-cd-dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.pom
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 39.186 s
[INFO] Finished at: 2022-05-02T18:30:19+05:30
[INFO]
Triggering a new build of Testing Spring Jenkins
Finished: SUCCESS
```

Dashboard ▶ Testing Spring Jenkins ▶ #8

```
2022-05-02T18:30:19.111 INFO 15660 --- [main] com.testAuth.SpringCiCdApplicationTests : Starting SpringCiCdApplicationTests using Java
11.0.12 on DESKTOP-LBUFTMI with PID 15660 (started by Dell in C:\Users\hi\.jenkins\workspace\Testing Spring Jenkins)
2022-05-02T18:30:19.123 INFO 15660 --- [main] com.testAuth.SpringCiCdApplicationTests : No active profile set, falling back to default
profiles: default
2022-05-02T18:30:54.842 INFO 15660 --- [main] com.testAuth.SpringCiCdApplicationTests : Started SpringCiCdApplicationTests in 9.085 seconds
(JVM running for 12.535)
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 11.737 s - in com.testAuth.SpringCiCdApplicationTests
[INFO]
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 0 resource
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ Auth ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ Auth ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
```

Jenkins : Run Jenkins

```

C:\Program Files\Jenkins>.\Java\jdk-11.0.15\bin\java -jar jenkins.war --httpPort=8080
Running from: C:\Program Files\Jenkins\Jenkins.war
webroot: $user.home/.jenkins
2022-05-01 06:02:40.068+0000 [id=1] INFO org.eclipse.jetty.util.log.Log#initialized: Logging initialized @1513ms to org.eclipse.jetty.util.log.JavaUtilLog
2022-05-01 06:02:40.278+0000 [id=1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2022-05-01 06:02:44.934+0000 [id=1] WARNING o.e.j.s.handler.ContextHandler#setContextPath: Empty contextPath
2022-05-01 06:02:45.106+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-9.4.43.v20210629; built: 2021-06-30T11:07:22.254Z; git: 526006ecfa3af7f1a
27ef3a288e2bef7ea9dd7e8; JVM 11.0.15+8-LTS-149
2022-05-01 06:02:47.086+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
2022-05-01 06:02:47.227+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: DefaultSessionIdManager workerName=node0
2022-05-01 06:02:47.227+0000 [id=1] INFO o.e.j.s.s.DefaultSessionIdManager#doStart: No SessionScavenger set, using defaults
2022-05-01 06:02:47.233+0000 [id=1] INFO o.e.j.server.session.HouseKeeper#startScavenging: node0 Scavenging every 60000ms
2022-05-01 06:02:49.851+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: C:\Users\hi\.jenkins found at: $user.home/.jenkins
2022-05-01 06:02:50.373+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w.@2b9f74d0(Jenkins v2.332.2,/,file:///C:/Users/hi/.jenkins/war/,AVAILABLE)[C:\Users\hi\.jenkins\war]
2022-05-01 06:02:50.411+0000 [id=1] INFO o.e.j.server.AbstractConnector#doStop: Stopped ServerConnector@7756c3cd(HTTP/1.1, (http/1.1)){0.0.0.0:8080}
2022-05-01 06:02:50.433+0000 [id=1] INFO o.e.j.server.session.HouseKeeper#stopScavenging: node0 Stopped scavenging
2022-05-01 06:02:50.454+0000 [id=1] INFO hudson.WebAppMain#contextDestroyed: Shutting down a Jenkins instance that was still starting up
java.lang.Throwable: reason
    at hudson.WebAppMain.contextDestroyed(WebAppMain.java:386)
    at org.eclipse.jetty.server.handler.ContextHandler.callContextDestroyed(ContextHandler.java:1074)
    at org.eclipse.jetty.servlet.ServletContextHandler.callContextDestroyed(ServletContextHandler.java:584)
    at org.eclipse.jetty.server.handler.ContextHandler.contextDestroyed(ContextHandler.java:1037)
    at org.eclipse.jetty.servlet.ServletHandler.doStop(ServletHandler.java:319)
    at org.eclipse.jetty.util.component.AbstractLifecycle.stop(AbstractLifecycle.java:94)
    at org.eclipse.jetty.util.component.ContainerLifecycle.stop(ContainerLifecycle.java:180)
    at org.eclipse.jetty.util.component.ContainerLifecycle.doStop(ContainerLifecycle.java:201)
    at org.eclipse.jetty.server.handler.AbstractHandler.doStop(AbstractHandler.java:108)
    at org.eclipse.jetty.security.SecurityHandler.doStop(SecurityHandler.java:437)
    at org.eclipse.jetty.security.ConstraintSecurityHandler.doStop(ConstraintSecurityHandler.java:423)
    at org.eclipse.jetty.util.component.AbstractLifecycle.stop(AbstractLifecycle.java:94)
    at org.eclipse.jetty.util.component.ContainerLifecycle.stop(ContainerLifecycle.java:180)
    at org.eclipse.jetty.util.component.ContainerLifecycle.doStop(ContainerLifecycle.java:201)
    at org.eclipse.jetty.server.handler.AbstractHandler.doStop(AbstractHandler.java:108)
    at org.eclipse.jetty.server.session.SessionHandler.doStop(SessionHandler.java:520)
    at org.eclipse.jetty.util.component.AbstractLifecycle.stop(AbstractLifecycle.java:94)
    at org.eclipse.jetty.util.component.ContainerLifecycle.stop(ContainerLifecycle.java:180)
    at org.eclipse.jetty.util.component.ContainerLifecycle.doStop(ContainerLifecycle.java:201)
    at org.eclipse.jetty.server.handler.AbstractHandler.doStop(AbstractHandler.java:108)
    at org.eclipse.jetty.servlet.ServletContextHandler.stopContext(ServletContextHandler.java:386)
    at org.eclipse.jetty.webapp.WebAppContext.stopWebapp(WebAppContext.java:1454)
    at org.eclipse.jetty.webapp.WebAppContext.stopContext(WebAppContext.java:1420)
    at org.eclipse.jetty.server.handler.ContextHandler.doStop(ContextHandler.java:1114)
    at org.eclipse.jetty.servlet.ServletContextHandler.doStop(ServletContextHandler.java:297)

```

CREATE THREE JENKINS PROJECT DEPLOYMENT:-

DEPLOYMENT-TESTING-PRODUCTION

Dashboard

New Item

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Lockable Resources

New View

Build Queue

No builds in the queue.

Build Executor Status

Hello I Am OC

All

CI-CD Pipeline Spring-Jenkins

S	W	Name	Last Success	Last Failure	Last Duration
		Deployment Spring Jenkins ci-cd	1 hr 32 min - #22	N/A	58 sec
		Production Spring Jenkins	1 hr 30 min - #8	N/A	54 sec
		Testing Spring Jenkins	1 hr 31 min - #8	N/A	37 sec

Icon: S M L

Icon legend

Atom feed for all

Atom feed for failures

Atom feed for just latest builds

```
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\src\test\resources
[INFO]
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ Auth ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\test-classes
[INFO]
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ Auth ---
[INFO] Skipping execution of surefire because it has already been run for this configuration
[INFO]
[INFO] --- maven-jar-plugin:3.2.0:jar (default-jar) @ Auth ---
[INFO] Building jar: C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:2.5.4:repackage (repackage) @ Auth ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ Auth ---
[INFO] Installing C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\target\Auth-0.0.1-SNAPSHOT.jar to C:\Users\hi.m2\repository\com\ci-cd-
dep\Auth\0.0.1-SNAPSHOT\Auth-0.0.1-SNAPSHOT.jar
[INFO] Installing C:\Users\hi\.jenkins\workspace\Spring Jenkins ci-cd\pom.xml to C:\Users\hi.m2\repository\com\ci-cd-dep\Auth\0.0.1-SNAPSHOT\Auth-
0.0.1-SNAPSHOT.pom
[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 39.186 s
[INFO] Finished at: 2022-05-02T18:30:19+05:30
[INFO] -----
Triggering a new build of Testing Spring Jenkins
Finished: SUCCESS
```

Dashboard › Testing Spring Jenkins › #8

[illegible]

Final Output:-

Last host the application on AWS EC2 instance:



Welcome To Spring Boot CI-CD deployment