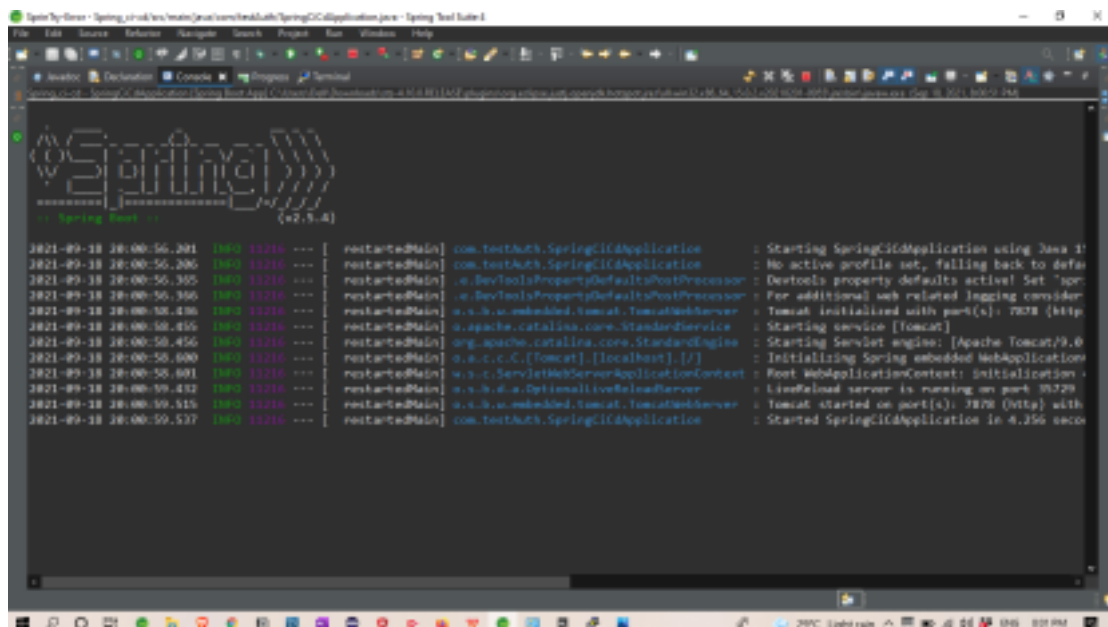


Eclipse

1.

I create Simple Spring boot Application to

build a CI/CD pipeline to demonstrate continuous deployment



The screenshot shows the Eclipse IDE interface with the 'Spring Tool Suite' window open. The 'Console' tab is active, displaying the startup logs of a Spring Boot application. The logs show the application starting successfully on port 8080. The logs are as follows:

```
2021-09-18 20:00:56.201 [INFO] 12216 --- [ restartedMain] com.testhubs.SpringCIApplication : Starting SpringCIApplication using Java 11
2021-09-18 20:00:56.206 [INFO] 12216 --- [ restartedMain] com.testhubs.SpringCIApplication : No active profile set, falling back to default
2021-09-18 20:00:56.305 [INFO] 12216 --- [ restartedMain] org.springframework.boot.devtools.properties.DefaultPropertySourceLoader : Devtools property defaults active! Set 'spring.devtools.properties.defaults' to false to disable
2021-09-18 20:00:56.366 [INFO] 12216 --- [ restartedMain] org.springframework.boot.devtools.properties.DefaultPropertySourceLoader : For additional web related logging consider 'spring.devtools.properties.defaults.web'
2021-09-18 20:00:56.436 [INFO] 12216 --- [ restartedMain] org.springframework.boot.devtools.properties.DefaultPropertySourceLoader : Tomcat initialized with port(s): 8080 (http)
2021-09-18 20:00:56.455 [INFO] 12216 --- [ restartedMain] org.apache.catalina.core.StandardService : Starting service [Tomcat]
2021-09-18 20:00:56.456 [INFO] 12216 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.45]
2021-09-18 20:00:56.601 [INFO] 12216 --- [ restartedMain] org.apache.catalina.core.StandardEngine : Initializing Spring web application context
2021-09-18 20:00:56.601 [INFO] 12216 --- [ restartedMain] org.springframework.web.context.support.AnnotationConfigWebApplicationContext : Root WebApplicationContext: initialization completed
2021-09-18 20:00:56.601 [INFO] 12216 --- [ restartedMain] org.springframework.web.context.support.AnnotationConfigWebApplicationContext : LiveReload server is running on port 35729
2021-09-18 20:00:56.601 [INFO] 12216 --- [ restartedMain] org.springframework.web.context.support.AnnotationConfigWebApplicationContext : Tomcat started on port(s): 8080 (http) with
2021-09-18 20:00:56.601 [INFO] 12216 --- [ restartedMain] com.testhubs.SpringCIApplication : Started SpringCIApplication in 4.356 secs
```

Output :-



GitHub link

<https://github.com/Mayuri-1998/ProjectPhase5.git>

Jenkins : Run Jenkins

```

2021-09-16 06:15:47.677+0000 [iio-1] INFO org.eclipse.jetty.util.log.Log#initialized: Logging initialized @2834ms to org.eclipse.jetty.util.log.JavaUtilLog
2021-09-16 06:15:47.818+0000 [iio-1] INFO winstone.Logger#logInternal: Beginning extraction from war file
2021-09-16 06:15:48.806+0000 [iio-1] WARNING org.eclipse.jetty.handler.ContextHandler$setContextPath: Empty contextPath
2021-09-16 06:15:48.175+0000 [iio-1] INFO org.eclipse.jetty.server.Server#doStart: jetty-9.4.43.v20230620; built: 2021-06-18T11:07:22.254Z; git: 53f006ecfa3af7f1a7ef1a3f0e2a0f0a3af7f1a
2021-09-16 06:15:52.318+0000 [iio-1] INFO org.eclipse.jetty.server.Server#doStart: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
2021-09-16 06:15:52.572+0000 [iio-1] INFO org.eclipse.jetty.server.session.SessionManager#doStart: DefaultSessionManager workerName=worker0
2021-09-16 06:15:52.573+0000 [iio-1] INFO org.eclipse.jetty.server.session.SessionManager#doStart: No SessionManager set, using defaults
2021-09-16 06:15:52.578+0000 [iio-1] INFO org.eclipse.jetty.server.session.SessionManager#doStart: Scavenging: enabled Scavenging every 600000ms
2021-09-16 06:15:54.819+0000 [iio-1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: C:/Users/Dell/.jenkins found at: {user.home}/.jenkins
2021-09-16 06:15:55.778+0000 [iio-1] INFO org.eclipse.jetty.handler.ContextHandler#doStart: Started org.eclipse.jetty.server.handler.ContextHandler@3059770e/jenkins.v2.389.0./file:///C:/Users/Dell/.jenkins/war/WEB-INF/classes/
2021-09-16 06:15:55.930+0000 [iio-1] INFO org.eclipse.jetty.server.AbstractConnector#doStart: Started ServerConnector@3059770e/HTTP/1.1, (http://1.1.1.1:8080)
2021-09-16 06:15:55.933+0000 [iio-1] INFO org.eclipse.jetty.server.Server#doStart: Started @11096ms
2021-09-16 06:15:55.939+0000 [iio-251] INFO winstone.Logger#logInternal: Winstone Servlet Engine running: controlPort=disabled
2021-09-16 06:15:56.873+0000 [iio-211] INFO jenkins.InitReactorRunner$1#doTrained: Started initialization
2021-09-16 06:16:03.362+0000 [iio-201] INFO jenkins.InitReactorRunner$1#doTrained: Listed all plugins
WARNING: An illegal reflective access operation has occurred
WARNING: Illegal reflective access by com.google.inject.internal.cglib$2.$ReflectUtils$2 (file:/C:/Users/Dell/.jenkins/war/WEB-INF/lib/guice-4.0.jar) to method java.lang.ClassLoader.defineClass(java.lang.String,byte[],int,int,java.security.ProtectionDomain)
WARNING: Please consider reporting this to the maintainers of com.google.inject.internal.cglib$2.$ReflectUtils$2
WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
WARNING: All illegal access operations will be denied in a future release
2021-09-16 06:16:10.918+0000 [iio-201] INFO jenkins.InitReactorRunner$1#doTrained: Prepared all plugins
2021-09-16 06:16:17.888+0000 [iio-277] INFO jenkins.InitReactorRunner$1#doTrained: Started all plugins
2021-09-16 06:16:23.300+0000 [iio-241] INFO jenkins.InitReactorRunner$1#doTrained: Augmented all extensions
2021-09-16 06:16:23.519+0000 [iio-261] INFO jenkins.InitReactorRunner$1#doTrained: System config loaded
2021-09-16 06:16:23.608+0000 [iio-261] INFO jenkins.InitReactorRunner$1#doTrained: System config adapted
2021-09-16 06:16:23.771+0000 [iio-251] INFO jenkins.InitReactorRunner$1#doTrained: Loaded all jobs
2021-09-16 06:16:23.772+0000 [iio-201] INFO jenkins.InitReactorRunner$1#doTrained: Configuration for all jobs updated
2021-09-16 06:16:24.276+0000 [iio-581] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Started Download metadata
2021-09-16 06:16:24.511+0000 [iio-581] INFO hudson.model.AsyncPeriodicWork$lambda$doRun$0: Finished Download metadata, 238 ms
2021-09-16 06:16:24.573+0000 [iio-277] INFO jenkins.InitReactorRunner$1#doTrained: Completed initialization
2021-09-16 06:16:24.652+0000 [iio-241] INFO hudson.WebAppMain$3$run: Jenkins is fully up and running

```

CREATE THREE JENKINS PROJECT DEPLOYMENT:-

DEPLOYMENT-TESTING-PRODUCTION

TESTING

PRODUCTION

3) in Jenkins I create three build for continues deployment

And pipeline them

**build a CI/CD pipeline to demonstrate
continuous deployment**

AWS EC2

1. First I create EC2 instance

2. Create Spring boot Application jar file

(Spring_CI-CD-deployment-exe.jar) 3.

then its store in s3 bucket

**4. then open command line and deploy
Application in EC2 Instance**

5. Application Started running with Port no 7878

6. **Last host the application on AWS EC2 instance.**

Application running with this URL:-

ec2-18-221-78-17.us-east
2.compute.amazonaws.com:7878/