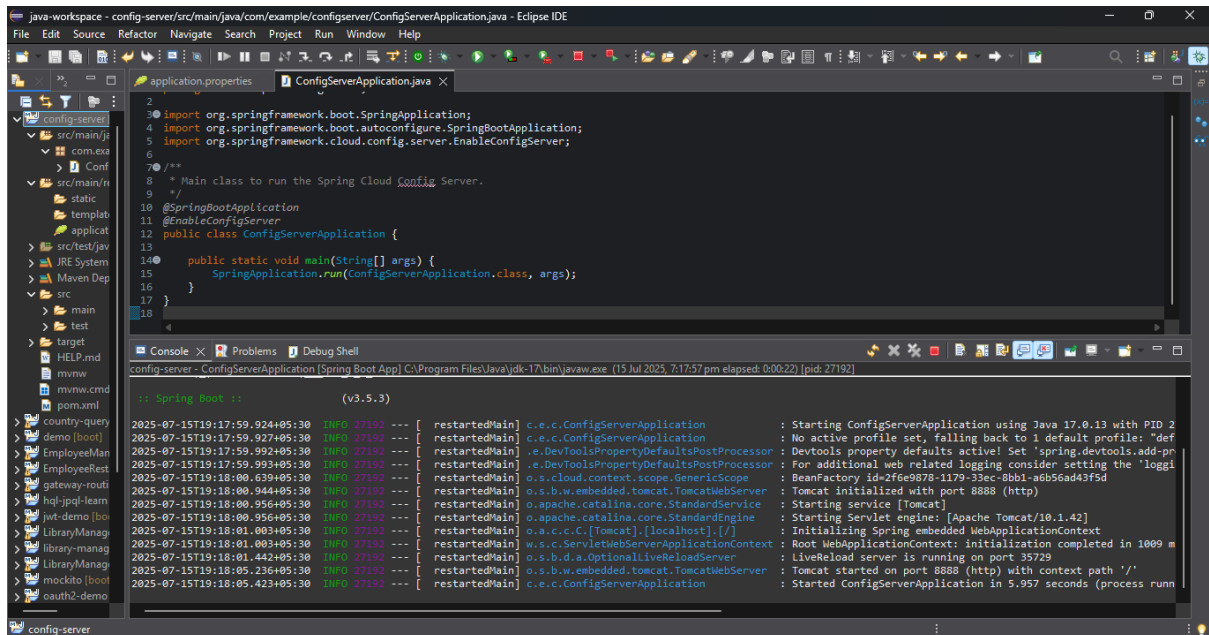


2. Inventory Management System with Service Discovery

Config-server Output:



The screenshot shows the Eclipse IDE with the `ConfigServerApplication.java` file open. The code is a Spring Boot application that uses Spring Cloud Config Server. The console output shows the application starting successfully on port 8888.

```
java -workspace - config-server/src/main/java/com/example/configserver/ConfigServerApplication.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

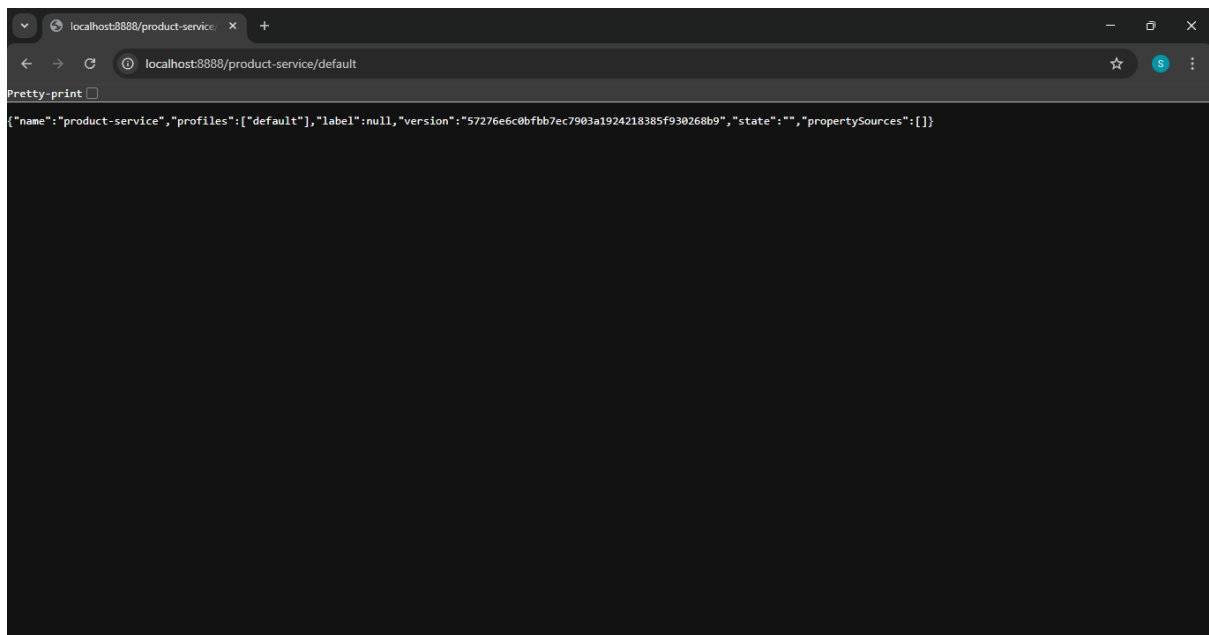
application.properties  ConfigServerApplication.java x

config-server
├── src/main/java
│   ├── com
│   │   └── example
│   │       └── configserver
│   │           └── ConfigServerApplication.java
│   └── test
│       ├── java
│       │   ├── ConfigServerApplicationTests.java
│       │   └── ConfigServerApplicationTests.java
│       └── resources
│           ├── application.properties
│           ├── application-test.properties
│           └── application-test.properties
└── src/main/resources
    ├── application.properties
    ├── application-test.properties
    └── application-test.properties

target
├── HELP.md
├── mvnw
├── mvnw.cmd
├── pom.xml
└── pom.xml

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hql-jpql-learn
jwt-demo [bo
LibraryManag
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mockito [boot
oauth2-demo

2025-07-15T19:17:59.924+05:30 INFO 27192 --- [ restartedMain] c.e.c.ConfigServerApplication : Starting ConfigServerApplication using Java 17.0.13 with PID 2
2025-07-15T19:17:59.927+05:30 INFO 27192 --- [ restartedMain] c.e.c.ConfigServerApplication : No active profile set, falling back to 1 default profile: "def
2025-07-15T19:17:59.993+05:30 INFO 27192 --- [ restartedMain] e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.add-pr
2025-07-15T19:18:00.639+05:30 INFO 27192 --- [ restartedMain] e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting the 'loggi
2025-07-15T19:18:00.639+05:30 INFO 27192 --- [ restartedMain] o.s.cloud.context.scope.GenericScope : BeanFactory id=2f6e9878-1179-53ec-8bb1-a6b56ad43f5d
2025-07-15T19:18:00.944+05:30 INFO 27192 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8888 (http)
2025-07-15T19:18:00.956+05:30 INFO 27192 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2025-07-15T19:18:00.956+05:30 INFO 27192 --- [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.42]
2025-07-15T19:18:01.003+05:30 INFO 27192 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationContext
2025-07-15T19:18:01.003+05:30 INFO 27192 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization completed in 1009 m
2025-07-15T19:18:01.442+05:30 INFO 27192 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729
2025-07-15T19:18:05.236+05:30 INFO 27192 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8888 (http) with context path '/'
2025-07-15T19:18:05.423+05:30 INFO 27192 --- [ restartedMain] c.e.c.ConfigServerApplication : Started ConfigServerApplication in 5.957 seconds (process runn
```



The screenshot shows a web browser window with the URL `localhost:8888/product-service/default`. The page displays the output of the `ConfigServerApplication` as a JSON object.

```
localhost:8888/product-service/ x +
localhost:8888/product-service/default
Pretty-print
{"name":"product-service","profiles":["default"],"label":null,"version":"57276e6c0fb7ec7903a1924218385f930268b9","state":"","propertySources":[]}
```

eureka-server Output:

```
java-workspace - eureka-server/src/main/java/com/example/eureka/EurekaServerApplication.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

application.properties  EurekaServerApplication.java x
1 package com.example.eureka;
2
3
4 import org.springframework.boot.SpringApplication;
5 import org.springframework.boot.autoconfigure.SpringBootApplication;
6 import org.springframework.cloud.netflix.eureka.server.EnableEurekaServer;
7
8 //
9 * Main class to bootstrap the Eureka Server.
10 */
11
12 @SpringBootApplication
13 @EnableEurekaServer
14 public class EurekaServerApplication {
15     public static void main(String[] args) {
16         SpringApplication.run(EurekaServerApplication.class, args);
17     }
18 }
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```

Product-service output:

The screenshot shows the Eclipse IDE with the `product-service/pom.xml` file open. The pom.xml contains the following content:

```
<?xml version="1.0" encoding="UTF-8" ?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-maven-plugin</artifactId>
    </project>
```

The console output shows the following log messages:

```
2025-07-15T19:49:38.935+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 9ms
2025-07-15T19:50:30.936+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2025-07-15T19:51:38.939+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 3ms
2025-07-15T19:52:38.944+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 5ms
2025-07-15T19:53:38.944+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2025-07-15T19:54:38.944+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2025-07-15T19:55:38.944+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2025-07-15T20:00:38.985+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 11ms
2025-07-15T20:01:38.987+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 1ms
2025-07-15T20:02:38.995+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 8ms
2025-07-15T20:03:38.994+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 8ms
```

Inventory-Service output:

The screenshot shows the Eclipse IDE with the `InventoryController.java` file open. The code contains the following content:

```
package com.example.inventoryservice.controller;
import org.springframework.web.bind.annotation.*;
@RestController
@RequestMapping("/inventory")
public class InventoryController {
    @GetMapping("/{productId}")
    public String checkStock(@PathVariable("productId") String productId) {
        // In real use, you'd query a database or service for actual stock
        return "Stock available for product: " + productId;
    }
}
```

The console output shows the following log messages:

```
2025-07-15T20:04:39.084+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 8ms
2025-07-15T20:05:39.084+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2025-07-15T20:06:39.011+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 7ms
2025-07-15T20:07:39.014+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 2ms
2025-07-15T20:08:39.017+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 2ms
2025-07-15T20:09:39.029+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 12ms
2025-07-15T20:10:39.030+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 0ms
2025-07-15T20:11:39.033+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 3ms
2025-07-15T20:12:39.096+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 13ms
2025-07-15T20:13:39.059+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 12ms
2025-07-15T20:14:39.072+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 12ms
2025-07-15T20:15:39.087+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 14ms
2025-07-15T20:16:39.101+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 14ms
2025-07-15T20:17:39.115+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 13ms
2025-07-15T20:18:39.123+05:30 INFO 27408 --- [a-EvictionTimer] c.n.e.registry.AbstractInstanceRegistry : Running the evict task with compensationTime 8ms
```