Microservices with API gateway

EurekaServerApplication.java

```java
import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.netflix.eureka.server.EnableEurekaServer;

@SpringBootApplication
@EnableEurekaServer
public class EurekaServerApplication {

    public static void main(String[] args) {
        SpringApplication.run(EurekaServerApplication.class, args);
    }
}
```

pom.xml

```xml
<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">
    <modelVersion>4.0.0</modelVersion>
    <groupId>com.simple</groupId>
    <artifactId>eurekaserver</artifactId>
    <version>1.0.0</version>
    <packaging>jar</packaging>
    <name>Simple Eureka Server</name>
    <description>Spring Boot Eureka Discovery Server</description>
    <parent>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-starter-parent</artifactId>
        <version>2.7.5</version>
        <relativePath/>
    </parent>
    <properties>
        <java.version>11</java.version>
```

```xml
    </properties>
    <dependencies>
        <dependency>
            <groupId>org.springframework.cloud</groupId>
            <artifactId>spring-cloud-starter-netflix-eureka-server</artifactId>
        </dependency>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter</artifactId>
        </dependency>
        <dependency>
            <groupId>org.springframework.boot</groupId>
            <artifactId>spring-boot-starter-test</artifactId>
            <scope>test</scope>
        </dependency>
    </dependencies>
    <dependencyManagement>
        <dependencies>
            <dependency>
                <groupId>org.springframework.cloud</groupId>
                <artifactId>spring-cloud-dependencies</artifactId>
                <version>2021.0.3</version>
                <type>pom</type>
                <scope>import</scope>
            </dependency>
        </dependencies>
    </dependencyManagement>
    <build>
        <plugins>
            <plugin>
                <groupId>org.springframework.boot</groupId>
                <artifactId>spring-boot-maven-plugin</artifactId>
            </plugin>
        </plugins>
    </build>
</project>
```

Output

```
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 :: Spring Boot ::                (v2.7.5)

2025-08-07 14:04:16.688  INFO 20812 --- [           main] EurekaServerApplication                 : Starting EurekaServerApplication using Java 23.0.1 on MOKSHITH with
2025-08-07 14:04:16.695  INFO 20812 --- [           main] EurekaServerApplication                 : No active profile set, falling back to 1 default profile: "default"
2025-08-07 14:04:16.773  WARN 20812 --- [           main] ionWarningsApplicationContextInitializer :

** WARNING ** : Your ApplicationContext is unlikely to start due to a @ComponentScan of the default package.

2025-08-07 14:05:33.758  WARN 20812 --- [           main] ConfigServletWebServerApplicationContext : Exception encountered during context initialization - cancelling re
2025-08-07 14:05:33.775  INFO 20812 --- [           main] ConditionEvaluationReportLoggingListener :

Error starting ApplicationContext. To display the conditions report re-run your application with 'debug' enabled.
```

```
EUREKA

DS Replicas


Instances currently registered with Eureka
No instances available
```

```
objectivec


APPLICATION      AMI ID      AVAILABILITY ZONES      STATUS
MY-CLIENT        ...         ...                     UP
```