

# Microservices Setup Guide

To run the microservices in your local environment, follow the steps below mentioned steps. Ensure that you have an Integrated Development Environment (IDE) such as STS or Eclipse or IntelliJ installed.

## Prerequisites

### IDE Setup:

- Open each microservice project in your preferred IDE.

### Dependency Loading:

- Load all project dependencies as specified in the respective pom.xml file

## Starting Microservices

Start the microservices in the following order:

### 1. Eureka Server(Service Registry):

- Start the Eureka Server, which serves as the service registry.
- Microservices instances automatically register themselves with Eureka Server.
- It also provides load balancing.

### 2. Config Server:

- Start the Config Server to manage centralized configurations.
- In our case we have used github to manage common configuration and restricted emails for adding and withdrawing money
- <https://github.com/shrashti-pokharna/microservices-configuration>

### 3. Account Service:

- Start the Account Service, responsible for account-related operations

#### 4. Customer Service:

- Start the Customer Service, handling customer related operations

#### 5. API Gateway:

- Start the API Gateway, acting as a central entry point for requests.
- It also manages load balancing , authentication and authorization.

## Running the Services

After starting all services, use the provided URLs to interact with the APIs using a tool like Postman. Refer to the API documentation for detailed information on how to make requests and attached postman collection.

## Order of Service Startup

Follow the sequence below to ensure proper service startup:

1. Eureka Server
2. Config Server
3. Account Service
4. Customer Service
5. API Gateway

## Conclusion

Upon successfully starting all microservices, you can use the provided APIs to test and interact with the functionality of your system. Refer to the API documentation for details on how to use each service's endpoints.

Note: Ensure that you have the necessary configurations and dependencies correctly set up to avoid any issues during the startup process.