

Week - 5

Microservices

Mandatory Hands-on

Creating Microservices for account and loan

i. For Account

```
package com.cognizant.account;

import org.springframework.web.bind.annotation.*;

@RestController
@RequestMapping("/accounts")
public class AccountController {

    @GetMapping("/{number}")
    public Account getAccountByNumber(@PathVariable String
number) {
        return new Account(number, "Savings", 927642);
    }

    static class Account {
        private String number;
        private String type;
        private double balance;

        public Account(String number, String type, double
balance) {
            this.number = number;
            this.type = type;
            this.balance = balance;
        }

        public String getNumber() { return number; }
        public void setNumber(String number) { this.number =
number; }

        public String getType() { return type; }
        public void setType(String type) { this.type = type; }

        public double getBalance() { return balance; }
```

```

        public void setBalance(double balance) { this.balance
= balance; }
    }
}

```

```

package com.cognizant.account;

import org.springframework.boot.SpringApplication;
import
org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class AccountApplication {

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

```

Console:



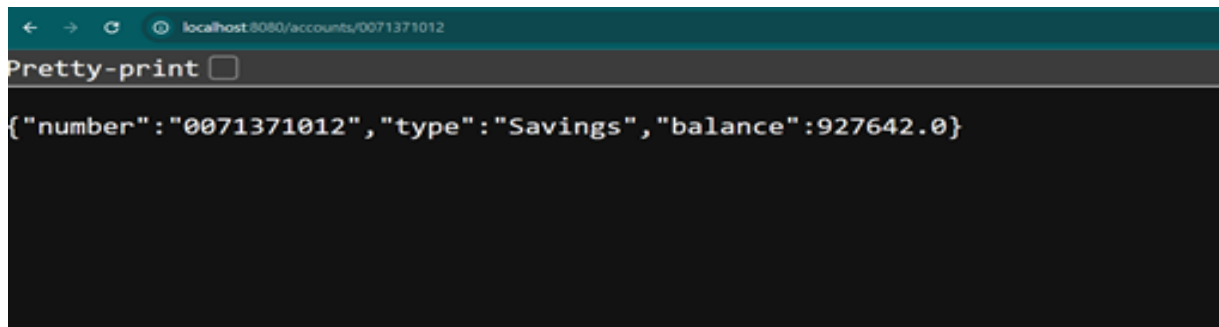
```

:: Spring Boot ::                (v3.5.3)

2025-07-19T09:39:44.686+05:30 INFO 9524 --- [account] [ restartedMain] c.cognizant.account.AccountApplication : Starting AccountApplicat
2025-07-19T09:39:44.690+05:30 INFO 9524 --- [account] [ restartedMain] c.cognizant.account.AccountApplication : No active profile set, f
2025-07-19T09:39:44.779+05:30 INFO 9524 --- [account] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : Devtools property default
2025-07-19T09:39:44.780+05:30 INFO 9524 --- [account] [ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor : For additional web relat
2025-07-19T09:39:46.588+05:30 INFO 9524 --- [account] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with
2025-07-19T09:39:46.614+05:30 INFO 9524 --- [account] [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat
2025-07-19T09:39:46.615+05:30 INFO 9524 --- [account] [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine:
2025-07-19T09:39:46.677+05:30 INFO 9524 --- [account] [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embed
2025-07-19T09:39:46.679+05:30 INFO 9524 --- [account] [ restartedMain] w.s.c.ServletWebServerApplicationContext : Root WebApplicationConte
2025-07-19T09:39:47.346+05:30 INFO 9524 --- [account] [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is runn
2025-07-19T09:39:47.405+05:30 INFO 9524 --- [account] [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 80
2025-07-19T09:39:47.422+05:30 INFO 9524 --- [account] [ restartedMain] c.cognizant.account.AccountApplication : Started AccountApplicati
2025-07-19T09:41:18.879+05:30 INFO 9524 --- [account] [nio-8080-exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring Dispa
2025-07-19T09:41:18.879+05:30 INFO 9524 --- [account] [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Initializing Servlet 'di
2025-07-19T09:41:18.882+05:30 INFO 9524 --- [account] [nio-8080-exec-1] o.s.web.servlet.DispatcherServlet : Completed initialization

```

Output:



ii. For loan

```
package com.cognizant.loan;

import org.springframework.web.bind.annotation.*;

@RestController
@RequestMapping("/loans")
public class LoanController {

    @GetMapping("/{loanNumber}")
    public Loan getLoanDetails(@PathVariable String
loanNumber) {
        return new Loan(loanNumber, "Personal", 280000, 7.5);
    }

    static class Loan {
        private String loanNumber;
        private String type;
        private double amount;
        private double interestRate;

        public Loan(String loanNumber, String type, double
amount, double interestRate) {
            this.loanNumber = loanNumber;
            this.type = type;
            this.amount = amount;
            this.interestRate = interestRate;
        }

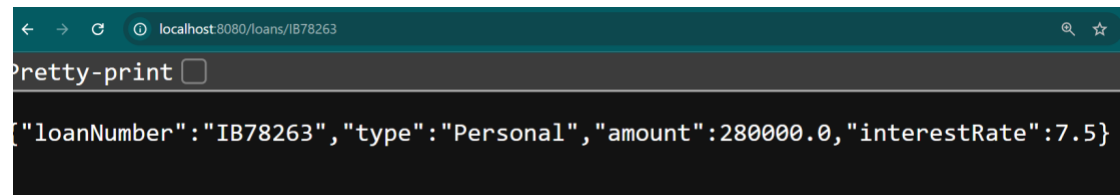
        public String getLoanNumber() { return loanNumber; }
        public void setLoanNumber(String loanNumber)
{ this.loanNumber = loanNumber; }

        public String getType() { return type; }
```



```
No active profile set, falling back to 1 default profile:
"default"
2025-07-19T12:55:27.541+05:30 INFO 6964 --- [loan]
[ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor :
Devtools property defaults active! Set 'spring.devtools.add-
properties' to 'false' to disable
2025-07-19T12:55:27.542+05:30 INFO 6964 --- [loan]
[ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor :
For additional web related logging consider setting the
'logging.level.web' property to 'DEBUG'
2025-07-19T12:55:29.172+05:30 INFO 6964 --- [loan]
[ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer :
Tomcat initialized with port 8080 (http)
2025-07-19T12:55:29.196+05:30 INFO 6964 --- [loan]
[ restartedMain] o.apache.catalina.core.StandardService :
Starting service [Tomcat]
2025-07-19T12:55:29.197+05:30 INFO 6964 --- [loan]
[ restartedMain] o.apache.catalina.core.StandardEngine :
Starting Servlet engine: [Apache Tomcat/10.1.42]
2025-07-19T12:55:29.247+05:30 INFO 6964 --- [loan]
[ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/] :
Initializing Spring embedded WebApplicationContext
2025-07-19T12:55:29.250+05:30 INFO 6964 --- [loan]
[ restartedMain] w.s.c.ServletWebServerApplicationContext :
Root WebApplicationContext: initialization completed in 1703
ms
2025-07-19T12:55:29.781+05:30 INFO 6964 --- [loan]
[ restartedMain] o.s.b.d.a.OptionalLiveReloadServer :
LiveReload server is running on port 35729
2025-07-19T12:55:29.834+05:30 INFO 6964 --- [loan]
[ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer :
Tomcat started on port 8080 (http) with context path '/'
2025-07-19T12:55:29.847+05:30 INFO 6964 --- [loan]
[ restartedMain] com.cognizant.loan.LoanApplication :
Started LoanApplication in 3.082 seconds (process running for
3.789)
2025-07-19T12:56:02.053+05:30 INFO 6964 --- [loan] [nio-8080-
exec-1] o.a.c.c.C.[Tomcat].[localhost].[/] :
Initializing Spring DispatcherServlet 'dispatcherServlet'
2025-07-19T12:56:02.053+05:30 INFO 6964 --- [loan] [nio-8080-
exec-1] o.s.web.servlet.DispatcherServlet :
Initializing Servlet 'dispatcherServlet'
2025-07-19T12:56:02.055+05:30 INFO 6964 --- [loan] [nio-8080-
exec-1] o.s.web.servlet.DispatcherServlet : Completed
initialization in 2 ms
```

Output:



A screenshot of a web browser window. The address bar shows 'localhost:8080/loans/IB78263'. Below the address bar, there is a dark grey bar with the text 'Pretty-print' and a small square icon. The main content area of the browser displays a JSON object: `{"loanNumber":"IB78263","type":"Personal","amount":280000.0,"interestRate":7.5}`.

```
localhost:8080/loans/IB78263
```

Pretty-print ☐

```
{"loanNumber":"IB78263","type":"Personal","amount":280000.0,"interestRate":7.5}
```

Additional Hands-on

Create Eureka Discovery Server and register microservices

```
package com.cognizant.eureka_discovery_server;

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

@EnableEurekaServer
@SpringBootApplication
public class EurekaDiscoveryServerApplication {
    public static void main(String[] args) {

        SpringApplication.run(EurekaDiscoveryServerApplication.class,
            args);
    }
}
```

```
spring.application.name=eureka-discovery-server
server.port=8761
eureka.client.register-with-eureka=false
eureka.client.fetch-registry=false
logging.level.com.netflix.eureka=OFF
logging.level.com.netflix.discovery=OFF
```

Console:

```

  .
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( ( ) \ ____ | | | | | | | | | | | | | | | | | | | | | | | |
 \ \  \ ____ | | | | | | | | | | | | | | | | | | | | | | | |
  '   | ____ | | | | | | | | | | | | | | | | | | | | | | | |
=====|_|=====|_|=====|_|=====|_|=====|_|=====|_|
:: Spring Boot ::                                (v3.5.3)
```

```
2025-07-19T17:32:20.808+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
c.c.e.EurekaDiscoveryServerApplication : Starting
EurekaDiscoveryServerApplication using Java 21.0.7 with PID
28820 (D:\7282\microservices\eureka-discovery-
server\target\classes started by admin in
D:\7282\microservices\eureka-discovery-server)
2025-07-19T17:32:20.817+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
c.c.e.EurekaDiscoveryServerApplication : No active profile
set, falling back to 1 default profile: "default"
2025-07-19T17:32:23.198+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.s.cloud.context.scope.GenericScope   : BeanFactory
id=d4b5e39c-8d2d-3834-94f8-dc636db86bcb
2025-07-19T17:32:23.894+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized
with port 8761 (http)
2025-07-19T17:32:23.924+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.apache.catalina.core.StandardService : Starting service
[Tomcat]
2025-07-19T17:32:23.924+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.apache.catalina.core.StandardEngine  : Starting Servlet
engine: [Apache Tomcat/10.1.42]
2025-07-19T17:32:24.055+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.a.c.c.C.[Tomcat].[localhost].[/]     : Initializing Spring
embedded WebApplicationContext
2025-07-19T17:32:24.057+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
w.s.c.ServletWebServerApplicationContext : Root
WebApplicationContext: initialization completed in 3097 ms
2025-07-19T17:32:26.572+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.s.v.b.OptionalValidatorFactoryBean    : Failed to set up a
Bean Validation provider:
jakarta.validation.NoProviderFoundException: Unable to create
a Configuration, because no Jakarta Bean Validation provider
could be found. Add a provider like Hibernate Validator (RI)
to your classpath.
2025-07-19T17:32:28.015+05:30 WARN 28820 --- [eureka-
discovery-server] [          main]
figuration$LoadBalancerCaffeineWarnLogger : Spring Cloud
LoadBalancer is currently working with the default cache.
While this cache implementation is useful for development and
tests, it's recommended to use Caffeine cache in
```


production. You can switch to using Caffeine cache, by adding it and org.springframework.cache.caffeine.CaffeineCacheManager to the classpath.

```
2025-07-19T17:32:28.064+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.s.c.n.eureka.InstanceInfoFactory      : Setting initial
instance status as: STARTING
2025-07-19T17:32:28.594+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.s.b.a.e.web.EndpointLinksResolver     : Exposing 1 endpoint
beneath base path '/actuator'
2025-07-19T17:32:28.744+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.s.c.n.e.s.EurekaServiceRegistry       : Registering
application EUREKA-DISCOVERY-SERVER with eureka with status UP
2025-07-19T17:32:28.770+05:30 INFO 28820 --- [eureka-
discovery-server] [          Thread-9]
o.s.c.n.e.server.EurekaServerBootstrap : isAws returned
false
2025-07-19T17:32:28.771+05:30 INFO 28820 --- [eureka-
discovery-server] [          Thread-9]
o.s.c.n.e.server.EurekaServerBootstrap : Initialized server
context
2025-07-19T17:32:28.783+05:30 INFO 28820 --- [eureka-
discovery-server] [          Thread-9]
e.s.EurekaServerInitializerConfiguration : Started Eureka
Server
2025-07-19T17:32:28.818+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on
port 8761 (http) with context path '/'
2025-07-19T17:32:28.820+05:30 INFO 28820 --- [eureka-
discovery-server]
[          main] .s.c.n.e.s.EurekaAutoServiceRegistration :
Updating port to 8761
2025-07-19T17:32:28.879+05:30 INFO 28820 --- [eureka-
discovery-server] [          main]
c.c.e.EurekaDiscoveryServerApplication  : Started
EurekaDiscoveryServerApplication in 9.161 seconds (process
running for 10.53)
2025-07-19T17:32:40.788+05:30 INFO 28820 --- [eureka-
discovery-server] [nio-8761-exec-6]
o.a.c.c.C.[Tomcat].[localhost].[/]      : Initializing Spring
DispatcherServlet 'dispatcherServlet'
2025-07-19T17:32:40.788+05:30 INFO 28820 --- [eureka-
discovery-server] [nio-8761-exec-6]
o.s.web.servlet.DispatcherServlet       : Initializing
Servlet 'dispatcherServlet'
```

```
2025-07-19T17:32:40.790+05:30 INFO 28820 --- [eureka-
discovery-server] [nio-8761-exec-6]
o.s.web.servlet.DispatcherServlet : Completed
initialization in 2 ms
```

Localhost:8761

System Status

Environment

test

Data center

default

Current time

2025-07-19T17:32:40 +0530

Uptime

00:00

Lease expiration enabled

false

Renews threshold

1

Renews (last min)

0

DS Replicas

localhost

Instances currently registered with Eureka

Application

Addr

Availability Zones

Status

No instances available

General Info

Name

Value

total-avail-memory

8Bno

num-of-cpus

8

current-memory-usage

68mb (77%)

server-uptime

00:00

registered-replicas

http://localhost:8761/eureka/

unavailable-replicas

http://localhost:8761/eureka/

available-replicas

Instance Info

Name

Value

ipAddr

192.168.137.1

status

UP

I) For account

```
package com.cognizant.account;

import org.springframework.boot.SpringApplication;
import
org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class AccountApplication {

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

}
```

```
package com.cognizant.account;

import org.springframework.web.bind.annotation.*;
import java.util.*;

@RestController
@RequestMapping("/accounts")
```

```
public class AccountController {

    @GetMapping("/{number}")
    public Map<String, Object> getAccount(@PathVariable String
number){

        return Map.of(
            "number", number,
            "type", "savings", "balance", 28173);
    }

}
```

Upon running eureka-discovery-server

System Status

Environment

test

Data center

default

Current time

2025-07-19T17:32:40 +0530

Uptime

00:00

Lease expiration enabled

false

Renews threshold

1

Renews (last min)

0

DS Replicas

localhost

Instances currently registered with Eureka

Application

Apps

Availability Zones

Status

No instances available

General Info

Name

Value

total-avail-memory

88mb

num-of-cpus

8

current-memory-usage

68mb (77%)

server-uptime

00:00

registered-replicas

http://localhost:8761/eureka/

unavailable-replicas

http://localhost:8761/eureka/,

available-replicas

Instance Info

Name

Value

ipAddr

192.168.137.1

status

UP

Secondly, upon running account

```

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  (  ) \ _ _ | _ _ _ _ ( ) _ _ _ _ \ \ \ \
  \ \ /  _ _ | _ _ | _ _ | _ _ \ \ \ \ \ \
    '   | _ _ | _ _ | _ _ | _ _ \ \ \ \ \ /
  =====|_|=====|_|/=/=/=/=/

```

:: Spring Boot :: (v3.5.3)

```


2025-07-20T19:51:34.803+05:30 INFO 31996 --- [account]
[ restartedMain] c.cognizant.account.AccountApplication :
Starting AccountApplication using Java 21.0.7 with PID 31996
(D:\7282\microservices\account\target\classes started by admin
in D:\7282\microservices\account)
2025-07-20T19:51:34.806+05:30 INFO 31996 --- [account]
[ restartedMain] c.cognizant.account.AccountApplication :
No active profile set, falling back to 1 default profile:
"default"
2025-07-20T19:51:34.914+05:30 INFO 31996 --- [account]
[ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor :

```

```
Devtools property defaults active! Set 'spring.devtools.add-
properties' to 'false' to disable
2025-07-20T19:51:34.915+05:30 INFO 31996 --- [account]
[ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor :
For additional web related logging consider setting the
'logging.level.web' property to 'DEBUG'
2025-07-20T19:51:36.634+05:30 INFO 31996 --- [account]
[ restartedMain] o.s.cloud.context.scope.GenericScope      :
BeanFactory id=f2cea789-6c08-3c31-b460-448982ab026a
2025-07-20T19:51:37.280+05:30 INFO 31996 --- [account]
[ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer   :
Tomcat initialized with port 8080 (http)
2025-07-20T19:51:37.299+05:30 INFO 31996 --- [account]
[ restartedMain] o.apache.catalina.core.StandardService   :
Starting service [Tomcat]
2025-07-20T19:51:37.300+05:30 INFO 31996 --- [account]
[ restartedMain] o.apache.catalina.core.StandardEngine    :
Starting Servlet engine: [Apache Tomcat/10.1.42]
2025-07-20T19:51:37.374+05:30 INFO 31996 --- [account]
[ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/]       :
Initializing Spring embedded WebApplicationContext
2025-07-20T19:51:37.376+05:30 INFO 31996 --- [account]
[ restartedMain] w.s.c.ServletWebServerApplicationContext :
Root WebApplicationContext: initialization completed in 2459
ms
2025-07-20T19:51:38.442+05:30 INFO 31996 --- [account]
[ restartedMain] o.s.b.d.a.OptionalLiveReloadServer          :
LiveReload server is running on port 35729
2025-07-20T19:51:38.578+05:30 INFO 31996 --- [account]
[ restartedMain] DiscoveryClientOptionalArgsConfiguration :
Eureka HTTP Client uses RestTemplate.
2025-07-20T19:51:38.677+05:30 WARN 31996 --- [account]
[ restartedMain] iguration$LoadBalancerCaffeineWarnLogger :
Spring Cloud LoadBalancer is currently working with the
default cache. While this cache implementation is useful for
development and tests, it's recommended to use Caffeine cache
in production.You can switch to using Caffeine cache, by
adding it and
org.springframework.cache.caffeine.CaffeineCacheManager to the
classpath.
2025-07-20T19:51:38.726+05:30 INFO 31996 --- [account]
[ restartedMain] o.s.c.n.eureka.InstanceInfoFactory      :
Setting initial instance status as: STARTING
2025-07-20T19:51:38.783+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient   :
Initializing Eureka in region us-east-1
2025-07-20T19:51:38.800+05:30 INFO 31996 --- [account]
[ restartedMain] c.n.d.s.r.aws.ConfigClusterResolver    :
Resolving eureka endpoints via configuration
```

```
2025-07-20T19:51:38.825+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Disable delta property : false
2025-07-20T19:51:38.825+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Single vip registry refresh property : null
2025-07-20T19:51:38.825+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Force full registry fetch : false
2025-07-20T19:51:38.825+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Application is null : false
2025-07-20T19:51:38.826+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Registered Applications size is zero : true
2025-07-20T19:51:38.826+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Application version is -1: true
2025-07-20T19:51:38.826+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Getting all instance registry info from the eureka server
2025-07-20T19:51:39.724+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
The response status is 200
2025-07-20T19:51:39.726+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Starting heartbeat executor: renew interval is: 30
2025-07-20T19:51:39.728+05:30 INFO 31996 --- [account]
[ restartedMain] c.n.discovery.InstanceInfoReplicator :
InstanceInfoReplicator onDemand update allowed rate per min is
4
2025-07-20T19:51:39.733+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Discovery Client initialized at timestamp 1753021299730 with
initial instances count: 0
2025-07-20T19:51:39.739+05:30 INFO 31996 --- [account]
[ restartedMain] o.s.c.n.e.s.EurekaServiceRegistry :
Registering application ACCOUNT with eureka with status UP
2025-07-20T19:51:39.740+05:30 INFO 31996 --- [account]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Saw local status change event StatusChangeEvent
[timestamp=1753021299740, current=UP, previous=STARTING]
2025-07-20T19:51:39.743+05:30 INFO 31996 --- [account]
[foReplicator-%d] com.netflix.discovery.DiscoveryClient :
DiscoveryClient_ACCOUNT/DESKTOP-KQJ5G19:account:8080:
registering service...
2025-07-20T19:51:39.794+05:30 INFO 31996 --- [account]
[ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer :
Tomcat started on port 8080 (http) with context path '/'
```

```
2025-07-20T19:51:39.797+05:30 INFO 31996 --- [account]
[ restartedMain] .s.c.n.e.s.EurekaAutoServiceRegistration :
Updating port to 8080
2025-07-20T19:51:39.822+05:30 INFO 31996 --- [account]
[ restartedMain] c.cognizant.account.AccountApplication :
Started AccountApplication in 5.851 seconds (process running
for 7.029)
2025-07-20T19:51:39.997+05:30 INFO 31996 --- [account]
[foReplicator-%d] com.netflix.discovery.DiscoveryClient :
DiscoveryClient_ACCOUNT/DESKTOP-KQJ5G19:account:8080 -
registration status: 204
2025-07-20T19:52:09.742+05:30 INFO 31996 --- [account]
[reshExecutor-%d] com.netflix.discovery.DiscoveryClient :
Disable delta property : false
2025-07-20T19:52:09.743+05:30 INFO 31996 --- [account]
[reshExecutor-%d] com.netflix.discovery.DiscoveryClient :
Single vip registry refresh property : null
2025-07-20T19:52:09.743+05:30 INFO 31996 --- [account]
[reshExecutor-%d] com.netflix.discovery.DiscoveryClient :
Force full registry fetch : false
2025-07-20T19:52:09.743+05:30 INFO 31996 --- [account]
[reshExecutor-%d] com.netflix.discovery.DiscoveryClient :
Application is null : false
2025-07-20T19:52:09.744+05:30 INFO 31996 --- [account]
[reshExecutor-%d] com.netflix.discovery.DiscoveryClient :
Registered Applications size is zero : true
2025-07-20T19:52:09.744+05:30 INFO 31996 --- [account]
[reshExecutor-%d] com.netflix.discovery.DiscoveryClient :
Application version is -1: false
2025-07-20T19:52:09.745+05:30 INFO 31996 --- [account]
[reshExecutor-%d] com.netflix.discovery.DiscoveryClient :
Getting all instance registry info from the eureka server
2025-07-20T19:52:09.856+05:30 INFO 31996 --- [account]
[reshExecutor-%d] com.netflix.discovery.DiscoveryClient :
The response status is 200
```


HOME LAST 1000 SINCE STARTUP

System Status

Environment	test	Current time	2025-07-20T19:51:49 +0530
Data center	default	Uptime	00:01
		Lease expiration enabled	false
		Renews threshold	3
		Renews (last min)	0

DS Replicas

[localhost](#)

Instances currently registered with Eureka

Application	AMIs	Availability Zones	Status
ACCOUNT	n/a (1)	(1)	UP (1) - (DSGTOE.XO.DSG19.account.0000)

General Info

Name	Value
total-avail-memory	108mb
num-of-cpus	8
current-memory-usage	56mb (51%)
server-up-time	00:01
registered-replicas	http://localhost:8761/eureka/
unavailable-replicas	http://localhost:8761/eureka/
available-replicas	

Instance Info

Name	Value
ipAddr	192.168.1.5

II) For loan

```

package com.cognizant.loan;

import org.springframework.boot.SpringApplication;
import
org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class LoanApplication {

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

}

```

Upon running eureka-discover-server

System Status

Environment	test	Current time	2025-07-19T17:32:40 +0530
Data center	default	Uptime	00:00
		Lease expiration enabled	false
		Renews threshold	1
		Renews (last min)	0

DS Replicas

localhost

Instances currently registered with Eureka

Application	Aliases	Availability Zones	Status
No instances available			

General Info

Name	Value
total-avail-memory	88mb
num-of-cpus	8
current-memory-usage	68mb (77%)
server-up-time	00:00
registered-replicas	http://localhost:8761/eureka/
unavailable-replicas	http://localhost:8761/eureka/
available-replicas	

Instance Info

Name	Value
ipAddr	192.168.137.1
status	UP

Secondly, upon running loan-service

spring

Eureka

HOME LAST 1000 SINCE STARTUP

System Status

Environment

test

Data center

default

Current time

2025-07-20T20:07:10 +0530

Uptime

00:00

Lease expiration enabled

false

Renews threshold

3

Renews (last min)

0

DS Replicas

localhost

Instances currently registered with Eureka

Application

Aliases

Availability Zones

Status

LOAN-SERVICE

n/a (1)

(1)

UP (1) - [DESKTOP-KOJG612\loan-service@082](#)

General Info

Name

Value

total-avail-memory

90mb

num-of-cpus

8

current-memory-usage

55mb (61%)

server-up-time

00:00

registered-replicas

[http://localhost:8761/eureka/](#)

unavailable-replicas

[http://localhost:8761/eureka/](#)

available-replicas

Instance Info

Name

Value

ipAddr

192.168.1.5

III) For greet-service

```
package com.cognizant.greet_service;

import org.springframework.web.bind.annotation.*;
import java.util.*;

@RestController
public class GreetController {
    @GetMapping("/greet")
    public String greet() {
        return "Hello World";
    }
}
```


$$\left. \begin{array}{l} \{ \\ \} \end{array} \right\}$$

```
package com.cognizant.greet_service;

import org.springframework.boot.SpringApplication;
import org.springframework.boot.autoconfigure.SpringBootApplication;
import org.springframework.cloud.client.discovery.EnableDiscoveryClient;

@SpringBootApplication
@EnableDiscoveryClient
public class GreetServiceApplication {

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

}
```

Console:

```
:: Spring Boot ::      (v3.5.3)
```

```
2025-07-20T20:15:12.275+05:30 INFO 33236 --- [greet-service]
[ restartedMain] c.c.g.GreetServiceApplication          :
Starting GreetServiceApplication using Java 21.0.7 with PID
33236 (D:\7282\microservices\greet-service\target\classes
started by admin in D:\7282\microservices\greet-service)
2025-07-20T20:15:12.281+05:30 INFO 33236 --- [greet-service]
[ restartedMain] c.c.g.GreetServiceApplication          :
No active profile set, falling back to 1 default profile:
"default"
2025-07-20T20:15:12.394+05:30 INFO 33236 --- [greet-service]
[ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor :
Devtools property defaults active! Set 'spring.devtools.add-
properties' to 'false' to disable
```

```
2025-07-20T20:15:12.394+05:30 INFO 33236 --- [greet-service]
[ restartedMain] .e.DevToolsPropertyDefaultsPostProcessor :
For additional web related logging consider setting the
'logging.level.web' property to 'DEBUG'
2025-07-20T20:15:13.920+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.s.cloud.context.scope.GenericScope      :
BeanFactory id=9536fd0b-8d58-3268-a2fb-285f9fa8febe
2025-07-20T20:15:14.611+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer  :
Tomcat initialized with port 8083 (http)
2025-07-20T20:15:14.641+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.apache.catalina.core.StandardService  :
Starting service [Tomcat]
2025-07-20T20:15:14.641+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.apache.catalina.core.StandardEngine    :
Starting Servlet engine: [Apache Tomcat/10.1.42]
2025-07-20T20:15:14.718+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/]         :
Initializing Spring embedded WebApplicationContext
2025-07-20T20:15:14.720+05:30 INFO 33236 --- [greet-service]
[ restartedMain] w.s.c.ServletWebServerApplicationContext :
Root WebApplicationContext: initialization completed in 2324
ms
2025-07-20T20:15:15.820+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.s.b.d.a.OptionalLiveReloadServer      :
LiveReload server is running on port 35729
2025-07-20T20:15:15.955+05:30 INFO 33236 --- [greet-service]
[ restartedMain] DiscoveryClientOptionalArgsConfiguration :
Eureka HTTP Client uses RestTemplate.
2025-07-20T20:15:16.035+05:30 WARN 33236 --- [greet-service]
[ restartedMain] iguration$LoadBalancerCaffeineWarnLogger  :
Spring Cloud LoadBalancer is currently working with the
default cache. While this cache implementation is useful for
development and tests, it's recommended to use Caffeine cache
in production.You can switch to using Caffeine cache, by
adding it and
org.springframework.cache.caffeine.CaffeineCacheManager to the
classpath.
2025-07-20T20:15:16.083+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.s.c.n.eureka.InstanceInfoFactory      :
Setting initial instance status as: STARTING
2025-07-20T20:15:16.135+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient    :
Initializing Eureka in region us-east-1
2025-07-20T20:15:16.144+05:30 INFO 33236 --- [greet-service]
[ restartedMain] c.n.d.s.r.aws.ConfigClusterResolver     :
Resolving eureka endpoints via configuration
```

```
2025-07-20T20:15:16.176+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Disable delta property : false
2025-07-20T20:15:16.177+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Single vip registry refresh property : null
2025-07-20T20:15:16.177+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Force full registry fetch : false
2025-07-20T20:15:16.177+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Application is null : false
2025-07-20T20:15:16.177+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Registered Applications size is zero : true
2025-07-20T20:15:16.177+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Application version is -1: true
2025-07-20T20:15:16.178+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Getting all instance registry info from the eureka server
2025-07-20T20:15:16.913+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
The response status is 200
2025-07-20T20:15:16.917+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Starting heartbeat executor: renew interval is: 30
2025-07-20T20:15:16.926+05:30 INFO 33236 --- [greet-service]
[ restartedMain] c.n.discovery.InstanceInfoReplicator :
InstanceInfoReplicator onDemand update allowed rate per min is
4
2025-07-20T20:15:16.929+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Discovery Client initialized at timestamp 1753022716928 with
initial instances count: 1
2025-07-20T20:15:16.934+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.s.c.n.e.s.EurekaServiceRegistry :
Registering application GREET-SERVICE with eureka with status
UP
2025-07-20T20:15:16.935+05:30 INFO 33236 --- [greet-service]
[ restartedMain] com.netflix.discovery.DiscoveryClient :
Saw local status change event StatusChangeEvent
[timestamp=1753022716935, current=UP, previous=STARTING]
2025-07-20T20:15:16.938+05:30 INFO 33236 --- [greet-service]
[foReplicator-%d] com.netflix.discovery.DiscoveryClient :
DiscoveryClient_GREET-SERVICE/DESKTOP-KQJ5G19:greet-
service:8083: registering service...
```

```

2025-07-20T20:15:16.993+05:30 INFO 33236 --- [greet-service]
[ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer :
Tomcat started on port 8083 (http) with context path '/'
2025-07-20T20:15:16.995+05:30 INFO 33236 --- [greet-service]
[ restartedMain] .s.c.n.e.s.EurekaAutoServiceRegistration :
Updating port to 8083
2025-07-20T20:15:17.019+05:30 INFO 33236 --- [greet-service]
[ restartedMain] c.c.g.GreetServiceApplication :
Started GreetServiceApplication in 5.498 seconds (process
running for 6.682)
2025-07-20T20:15:17.040+05:30 INFO 33236 --- [greet-service]
[foReplicator-%d] com.netflix.discovery.DiscoveryClient :
DiscoveryClient_GREET-SERVICE/DESKTOP-KQJ5G19:greet-
service:8083 - registration status: 204

```

IV) For api-gateway

```

package com.cognizant.api_gateway;

import org.springframework.boot.SpringApplication;
import
org.springframework.boot.autoconfigure.SpringBootApplication;

@SpringBootApplication
public class ApiGatewayApplication {

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

}

```

```

package com.cognizant.api_gateway;

import org.slf4j.Logger;
import org.slf4j.LoggerFactory;
import org.springframework.cloud.gateway.filter.GlobalFilter;
import
org.springframework.cloud.gateway.filter.GatewayFilterChain;
import org.springframework.core.Ordered;
import org.springframework.core.annotation.Order;
import org.springframework.stereotype.Component;
import org.springframework.web.server.ServerWebExchange;
import reactor.core.publisher.Mono;

@Component

```

```
public class LogFilter implements GlobalFilter, Ordered {

    private static final Logger logger =
        LoggerFactory.getLogger(LogFilter.class);

    @Override
    public Mono<Void> filter(ServerWebExchange exchange,
        GatewayFilterChain chain) {
        logger.info("Request Path: {} ",
            exchange.getRequest().getPath());
        return chain.filter(exchange);
    }

    @Override
    public int getOrder() {
        return -1;
    }
}
```

Console and Output:

```

  .
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( ( ) \
\\ \ / \
' |
=====|_|=====|_/=/_/_/_/

:: Spring Boot ::                      (v3.5.3)

2025-07-20T20:37:07.581+05:30 INFO 18480 --- [api-gateway]
[      main] c.c.api_gateway.ApiGatewayApplication :
Starting ApiGatewayApplication using Java 21.0.7 with PID
18480 (D:\7282\microservices\api-gateway\target\classes
started by admin in D:\7282\microservices\api-gateway)
2025-07-20T20:37:07.586+05:30 INFO 18480 --- [api-gateway]
[      main] c.c.api_gateway.ApiGatewayApplication :
No active profile set, falling back to 1 default profile:
"default"
2025-07-20T20:37:09.531+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.cloud.context.scope.GenericScope :
BeanFactory id=8b518e1f-496e-339a-aef0-70114078920d
2025-07-20T20:37:09.654+05:30 WARN 18480 --- [api-gateway]
[      main] trationDelegate$BeanPostProcessorChecker :
Bean
'org.springframework.cloud.client.loadbalancer.reactive.LoadBa
lancerBeanPostProcessorAutoConfiguration' of type
[org.springframework.cloud.client.loadbalancer.reactive.LoadBa

```

```
lancerBeanPostProcessorAutoConfiguration] is not eligible for
getting processed by all BeanPostProcessors (for example: not
eligible for auto-proxying). The currently created
BeanPostProcessor
[loadBalancerWebClientBuilderBeanPostProcessor] is declared
through a non-static factory method on that class; consider
declaring it as static instead.
2025-07-20T20:37:09.656+05:30 WARN 18480 --- [api-gateway]
[      main] trationDelegate$BeanPostProcessorChecker :
Bean
'org.springframework.cloud.client.loadbalancer.reactive.LoadBa
lancerBeanPostProcessorAutoConfiguration$ReactorDeferringLoadB
alancerFilterConfig' of type
[org.springframework.cloud.client.loadbalancer.reactive.LoadBa
lancerBeanPostProcessorAutoConfiguration$ReactorDeferringLoadB
alancerFilterConfig] is not eligible for getting processed by
all BeanPostProcessors (for example: not eligible for auto-
proxying). Is this bean getting eagerly injected/applied to a
currently created BeanPostProcessor
[loadBalancerWebClientBuilderBeanPostProcessor]? Check the
corresponding BeanPostProcessor declaration and its
dependencies/advisors. If this bean does not have to be post-
processed, declare it with ROLE_INFRASTRUCTURE.
2025-07-20T20:37:09.660+05:30 WARN 18480 --- [api-gateway]
[      main] trationDelegate$BeanPostProcessorChecker :
Bean 'reactorDeferringLoadBalancerExchangeFilterFunction' of
type
[org.springframework.cloud.client.loadbalancer.reactive.Deferr
ingLoadBalancerExchangeFilterFunction] is not eligible for
getting processed by all BeanPostProcessors (for example: not
eligible for auto-proxying). Is this bean getting eagerly
injected/applied to a currently created BeanPostProcessor
[loadBalancerWebClientBuilderBeanPostProcessor]? Check the
corresponding BeanPostProcessor declaration and its
dependencies/advisors. If this bean does not have to be post-
processed, declare it with ROLE_INFRASTRUCTURE.
2025-07-20T20:37:11.237+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator      :
Loaded RoutePredicateFactory [After]
2025-07-20T20:37:11.238+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator      :
Loaded RoutePredicateFactory [Before]
2025-07-20T20:37:11.238+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator      :
Loaded RoutePredicateFactory [Between]
2025-07-20T20:37:11.238+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator      :
Loaded RoutePredicateFactory [Cookie]
```

```
2025-07-20T20:37:11.238+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [Header]
2025-07-20T20:37:11.238+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [Host]
2025-07-20T20:37:11.238+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [Method]
2025-07-20T20:37:11.238+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [Path]
2025-07-20T20:37:11.238+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [Query]
2025-07-20T20:37:11.239+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [ReadBody]
2025-07-20T20:37:11.239+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [RemoteAddr]
2025-07-20T20:37:11.239+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [XForwardedRemoteAddr]
2025-07-20T20:37:11.239+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [Weight]
2025-07-20T20:37:11.239+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.g.r.RouteDefinitionRouteLocator :
Loaded RoutePredicateFactory [CloudFoundryRouteService]
2025-07-20T20:37:11.786+05:30 INFO 18480 --- [api-gateway]
[      main] DiscoveryClientOptionalArgsConfiguration :
Eureka HTTP Client uses RestTemplate.
2025-07-20T20:37:11.874+05:30 WARN 18480 --- [api-gateway]
[      main] igation$LoadBalancerCaffeineWarnLogger :
Spring Cloud LoadBalancer is currently working with the
default cache. While this cache implementation is useful for
development and tests, it's recommended to use Caffeine cache
in production.You can switch to using Caffeine cache, by
adding it and
org.springframework.cache.caffeine.CaffeineCacheManager to the
classpath.
2025-07-20T20:37:11.935+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.n.eureka.InstanceInfoFactory :
Setting initial instance status as: STARTING
2025-07-20T20:37:12.215+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient :
Initializing Eureka in region us-east-1
```

```
2025-07-20T20:37:12.225+05:30 INFO 18480 --- [api-gateway]
[      main] c.n.d.s.r.aws.ConfigClusterResolver      :
Resolving eureka endpoints via configuration
2025-07-20T20:37:12.289+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Disable delta property : false
2025-07-20T20:37:12.290+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Single vip registry refresh property : null
2025-07-20T20:37:12.290+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Force full registry fetch : false
2025-07-20T20:37:12.290+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Application is null : false
2025-07-20T20:37:12.290+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Registered Applications size is zero : true
2025-07-20T20:37:12.291+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Application version is -1: true
2025-07-20T20:37:12.291+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Getting all instance registry info from the eureka server
2025-07-20T20:37:13.186+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
The response status is 200
2025-07-20T20:37:13.191+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Starting heartbeat executor: renew interval is: 30
2025-07-20T20:37:13.196+05:30 INFO 18480 --- [api-gateway]
[      main] c.n.discovery.InstanceInfoReplicator      :
InstanceInfoReplicator onDemand update allowed rate per min is
4
2025-07-20T20:37:13.209+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Discovery Client initialized at timestamp 1753024033207 with
initial instances count: 1
2025-07-20T20:37:13.213+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.c.n.e.s.EurekaServiceRegistry      :
Registering application API-GATEWAY with eureka with status UP
2025-07-20T20:37:13.215+05:30 INFO 18480 --- [api-gateway]
[      main] com.netflix.discovery.DiscoveryClient      :
Saw local status change event StatusChangeEvent
[timestamp=1753024033215, current=UP, previous=STARTING]
2025-07-20T20:37:13.218+05:30 INFO 18480 --- [api-gateway]
[nfoReplicator-0] com.netflix.discovery.DiscoveryClient      :
DiscoveryClient_API-GATEWAY/DESKTOP-KQJ5G19:api-gateway:9090:
registering service...
```



```

2025-07-20T20:37:13.336+05:30 INFO 18480 --- [api-gateway]
[nfoReplicator-0] com.netflix.discovery.DiscoveryClient :
DiscoveryClient_API-GATEWAY/DESKTOP-KQJ5G19:api-gateway:9090 -
registration status: 204
2025-07-20T20:37:13.649+05:30 INFO 18480 --- [api-gateway]
[      main] o.s.b.web.embedded.netty.NettyWebServer :
Netty started on port 9090 (http)
2025-07-20T20:37:13.652+05:30 INFO 18480 --- [api-gateway]
[      main] .s.c.n.e.s.EurekaAutoServiceRegistration :
Updating port to 9090
2025-07-20T20:37:13.686+05:30 INFO 18480 --- [api-gateway]
[      main] c.c.api_gateway.ApiGatewayApplication :
Started ApiGatewayApplication in 6.926 seconds (process
running for 7.655)
2025-07-20T20:37:55.520+05:30 INFO 18480 --- [api-gateway]
[ctor-http-nio-2] com.cognizant.api_gateway.LogFilter :
Request Path: /greet-service/greet
2025-07-20T22:14:15.350+05:30 INFO 18480 --- [api-gateway]
[trap-executor-0] c.n.d.s.r.aws.ConfigClusterResolver :
Resolving eureka endpoints via configuration

```

← → ↻ localhost:8761			
DS Replicas			
localhost			
Instances currently registered with Eureka			
Application	AMIs	Availability Zones	Status
GREET-SERVICE	n/a (1)	(1)	UP (1) - 192.168.1.41:greet-service:8082
← → ↻ localhost:9090/greet-service/greet 🔍 ☆			

Hello World

Microservice REST API Outputs

Account Service

<http://localhost:8080/accounts/123456>

```

{
  "number": "123456",
  "type": "savings",
  "balance": 234343
}

```

Loan Service

<http://localhost:8081/loans/H98765>

```
{  
  "number": "H98765",  
  "type": "car",  
  "loan": 400000,  
  "emi": 3258,  
  "tenure": 18  
}
```