

Service Registry

```
@SpringBootApplication
@EnableEurekaServer
public class ServiceRegistryApplication {
    public static void main(String[] args) {
        SpringApplication.run(ServiceRegistryApplication.class, args);
    }
}
```

```
spring-cloud-starter-netflix-eureka-server
```

```
server.port=8761
spring.application.name=service-registry
```

```
eureka.client.register-with-eureka=false
eureka.client.fetch-registry=false
```

Config Server

```
@SpringBootApplication
@EnableConfigServer
public class ConfigServerApplication {
    public static void main(String[] args) {
        SpringApplication.run(ConfigServerApplication.class, args);
    }
}
```

```
spring-cloud-config-server
spring-cloud-starter-netflix-eureka-client
```

```
server.port=8888
spring.application.name=SPRING-CLOUD-CONFIG-SERVER
```

```
spring.cloud.config.server.git.uri=file:///C:/Users/sujith.manchala/Desktop/config-
server-repo
```

```
spring.cloud.config.server.git.clone-on-start=true
management.endpoint.serviceregistry.enabled=false
```

```
eureka.client.register-with-eureka=true
eureka.client.fetch-registry=true
eureka.client.service-url.defaultZone: http://localhost:8761/eureka/
eureka.instance.hostname=localhost
```

Limit Service

```
server.port=8081
spring.application.name=limit-service
spring.profiles.active=dev

# spring.cloud.config.uri= http://localhost:8888
# A bootstrap file (properties or yaml) is not needed for the Spring Boot Config
Data method of import via spring.config.import.

spring.config.import=optional:configserver:http://localhost:8888

# spring.config.import=configserver:http://localhost:8888

#spring.cloud.config.enabled=true

spring-cloud-starter-netflix-eureka-client
spring-cloud-starter-config
```

```
@SpringBootApplication
@EnableEurekaClient
public class LimitServerApplication {
    public static void main(String[] args) {
        SpringApplication.run(LimitServerApplication.class, args);
    }
}
```

```
limit-server.max : 999
limit-server.min : 111

eureka.client.register-with-eureka=true
eureka.client.fetch-registry=true
eureka.client.service-url.defaultZone: http://localhost:8761/eureka/
eureka.instance.hostname=localhost
```

Print Service

```
server.port=8082
spring.application.name=print-service

spring.config.import=configserver:http://localhost:8888
```

```
print-service.msg=This message is from REpo Edit 1

eureka.client.register-with-eureka=true
eureka.client.fetch-registry=true
eureka.client.service-url.defaultZone: http://localhost:8761/eureka/
eureka.instance.hostname=localhost
```

```
spring-cloud-starter-netflix-eureka-client
spring-cloud-starter-config
```

```

@SpringBootApplication
@EnableEurekaClient
public class PrintServiceApplication {

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

    @Bean
    @LoadBalanced
    public RestTemplate restTemplate() {
        return new RestTemplate();
    }
}

```

```

@RestController
@RequestMapping("/print")

public class PrintController {

    @Autowired
    private ConfigMessage config;

    @Autowired
    private RestTemplate restTemplate;

    @GetMapping("/")
    public Map<String, Object> print(){
        var map = new HashMap<String, Object>();

        LimitDetails details = restTemplate.getForObject("http://LIMIT-
SERVICE/limit/", LimitDetails.class);
        map.put("MAX", details.getMax());
        map.put("MIN", details.getMin());
        map.put("Msg", config.getMsg());

        return map;
    }
}

```

API Gateway

```

spring-cloud-starter-config
spring-cloud-starter-gateway
spring-cloud-starter-netflix-eureka-client
spring-boot-starter-actuator
spring-cloud-starter-netflix-hystrix

```

```

@SpringBootApplication
@EnableEurekaClient
public class CouldGatewayApplication {

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

```

```

server:
  port: 9191

spring:
  application:
    name: api-gateway

cloud:
  gateway:
    routes:

      - id: LIMIT-SERVICE
        uri: lb://LIMIT-SERVICE
        predicates:
          - Path=/limit/**

      - id: PRINT-SERVICE
        uri: lb://PRINT-SERVICE
        predicates:
          - Path=/print/**

config:
  import: configserver:http://localhost:8888

```

```

eureka.client.register-with-eureka=true
eureka.client.fetch-registry=true
eureka.client.service-url.defaultZone: http://localhost:8761/eureka/
eureka.instance.hostname=localhost

```