

Part 3

A problem with a registry is that it is a single point of failure. Describe how you would solve this single point of failure problem?

Ans: We can assign multiple service registry servers in a service by creating multiple eureka servers and then adding the address to these servers in the config of an application as a comma separated value. By doing this, we can have a failover in place so if one eureka server fails, the service will use other server to get the registered services.

Part 4

A problem with services is that a service can be down. If the StockService is down, the ProductService cannot work properly. Describe how you would solve this problem?

To solve this problem, we can create multiple instances of StockService and run them in different port. All the instance of StockService will be registered in the service registry with the same service name. Now if one instance is down, the service registry will automatically assign the request to the active instance. Also, implementing Ribbon in ProductService allows client-side load balancing to distribute the requests among all the active StockServices.