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| **Lab** | Lab 7 |
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**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?**

To solve this single point of failure problem, I can choose with some solutions as below.

* Solution 1: Cluster setup

Deploy it in a cluster to avoid a single point of failure as a set of replica peers.

* Solution 2: Multiple Servers on a single machine

I will configure it to run in different servers with different hostnames

* Solution 3: Ribbon Load Balancer  
  This load balancer is from Netflix that integrates with Eureka

**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, I will configure to scale up service instances of StockService. This solution is Peer Awareness configuration.

Below is an example for configuring two instances of StockService.

* First instance

server:  
 port: 8900  
  
eureka:

instance:

hostname: peer1  
 client:  
 serviceUrl:  
 defaultZone: http://peer1:8901/eureka/  
  
spring:  
 application:  
 name: StockService

* Second instance

server:  
 port: 8901  
  
eureka:

instance:

hostname: peer2  
 client:  
 serviceUrl:  
 defaultZone: http://peer2:8900/eureka/  
  
spring:  
 application:  
 name: StockService