Part 3: Solving the Single Point of Failure in Registry

- **High Availability (HA):** Deploy multiple instances of the registry (e.g., Eureka) across different locations to ensure redundancy.
- **Client-Side Caching:** Cache registry data on clients so services can still communicate if the registry is down.
- **Self-Preservation Mode:** Utilize Eureka's self-preservation mode to maintain service registration during failures.
- **Cluster Management:** Use tools like Kubernetes to automatically manage and restart failed registry instances.