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# Spring Cloud Config - Fault Tolerance Features

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# Spring Cloud Config Client Default Behavior

- On startup, if a failure of Spring Cloud Client to pull from Spring Cloud Config server occurs, degrade to standard Spring Boot environment sourcing:

<https://docs.spring.io/spring-boot/docs/current/reference/html/boot-features-external-config.html>

- After startup:
  - Revert to cache if config server unavailable

# Spring Cloud Client Fault Tolerance Configurable Features

- **Fail Fast:** Fail the client startup if client cannot successfully pull from Config Server
- **Timeout:**
  - Connect
  - Read
- **Retry**
- **Backoff**

# Spring Cloud Server Fault Tolerance Configurable Features

- **Health Indicator:** Checks for availability of configured *EnvironmentRepository* instances
- **Timeout:** Git or Vault repo access can be bound by timeout
- **Force-Pull:** in case Config Server local Git repo is dirty
- **Git Refresh Rate:** to tune/limit frequency of access to Git repo from a Config Server

# Reference

- See following for more information:

[https://cloud.spring.io/spring-cloud-static/Greenwich.SR3/single/spring-cloud.html#\\_spring\\_cloud\\_config\\_server](https://cloud.spring.io/spring-cloud-static/Greenwich.SR3/single/spring-cloud.html#_spring_cloud_config_server)