



Pivotal®

Spring Cloud Netflix Hystrix - Circuit Breaker

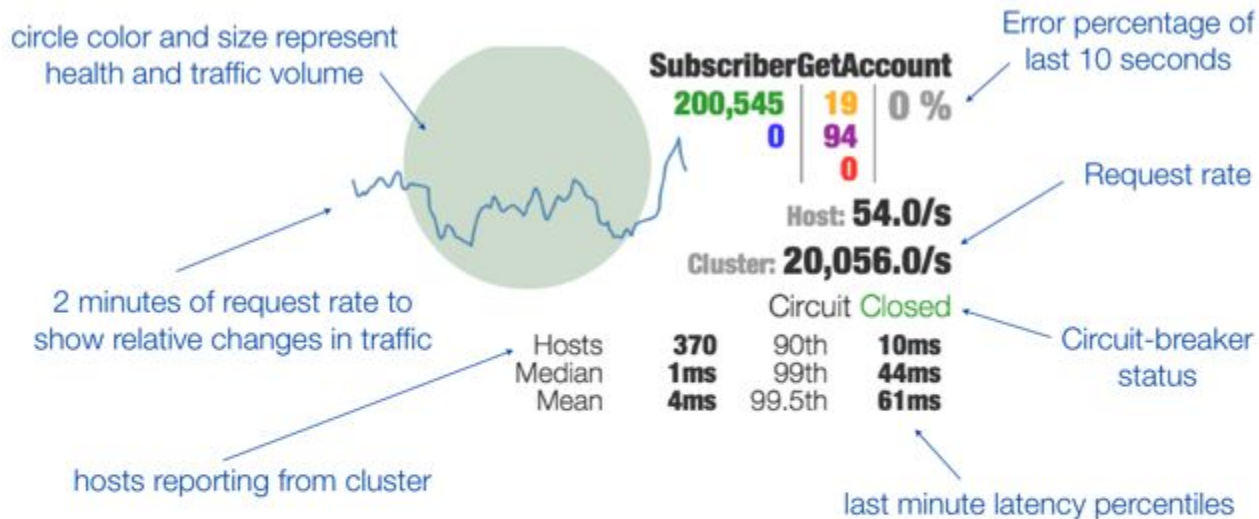
Circuit Breaker

- Determine when to “trip” a protected code’s circuit breaker based upon configurable rate failure thresholds
- Detect recovery of failure, and “close” the circuit.

Monitoring and Contribution to Circuit Breaker

- Hystrix dashboard renders the *Short Circuit* count in blue. These are the rejections by the Circuit Breaker.
- The Circuit Breaker Status may show:
 - **Closed**: The circuit breaker is not rejecting requests due to Circuit Breaker algorithm.
 - **Open**: The circuit breaker is rejecting requests due to Circuit Breaker algorithm.
 - **Indeterminate** (not rendered in Closed or Open State: When running multiple application instances with same command, Hystrix will aggregate the stats. Some instances may be in an open state, while others may be in a closed state

Hystrix Monitoring



Rolling 10 second counters
with 1 second granularity

Successes	200,545	19	Thread timeouts
Short-circuited (rejected)	0	94	Thread-pool Rejections
		0	Failures/Exceptions