Pivotal.

Circuit Breaker Pattern

Circuit Breaker isolates calls to other services

Caller

Fallback

Http Request

Endpoint

Circuit Breaker

Method

Service

Endpoint

Hystrix Library

Other Dependencies

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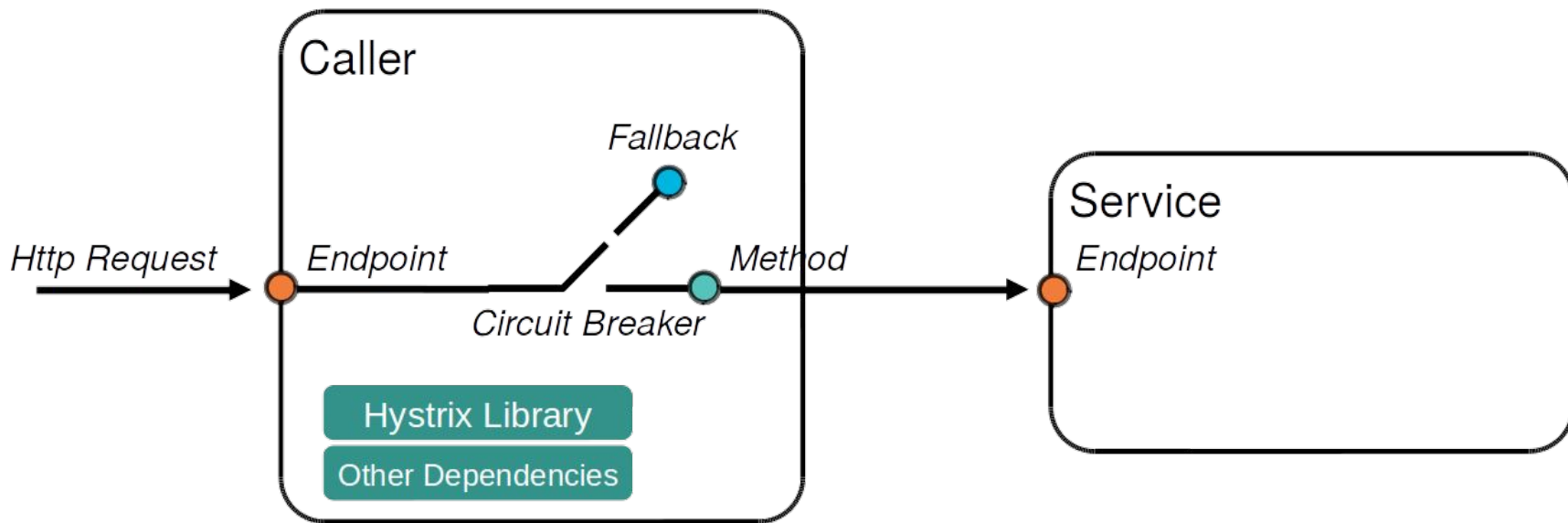
Circuit Breaker Lifecycle

Closed

on call / pass through
call succeeds / reset count
call fails / count failure
threshold reached / trip breaker

trip breaker

Open

on call / fail
on timeout / attempt reset

trip breaker

attempt reset

reset

Half-Open

on call / pass through
call succeeds / reset
call fails / trip breaker

Pivotal
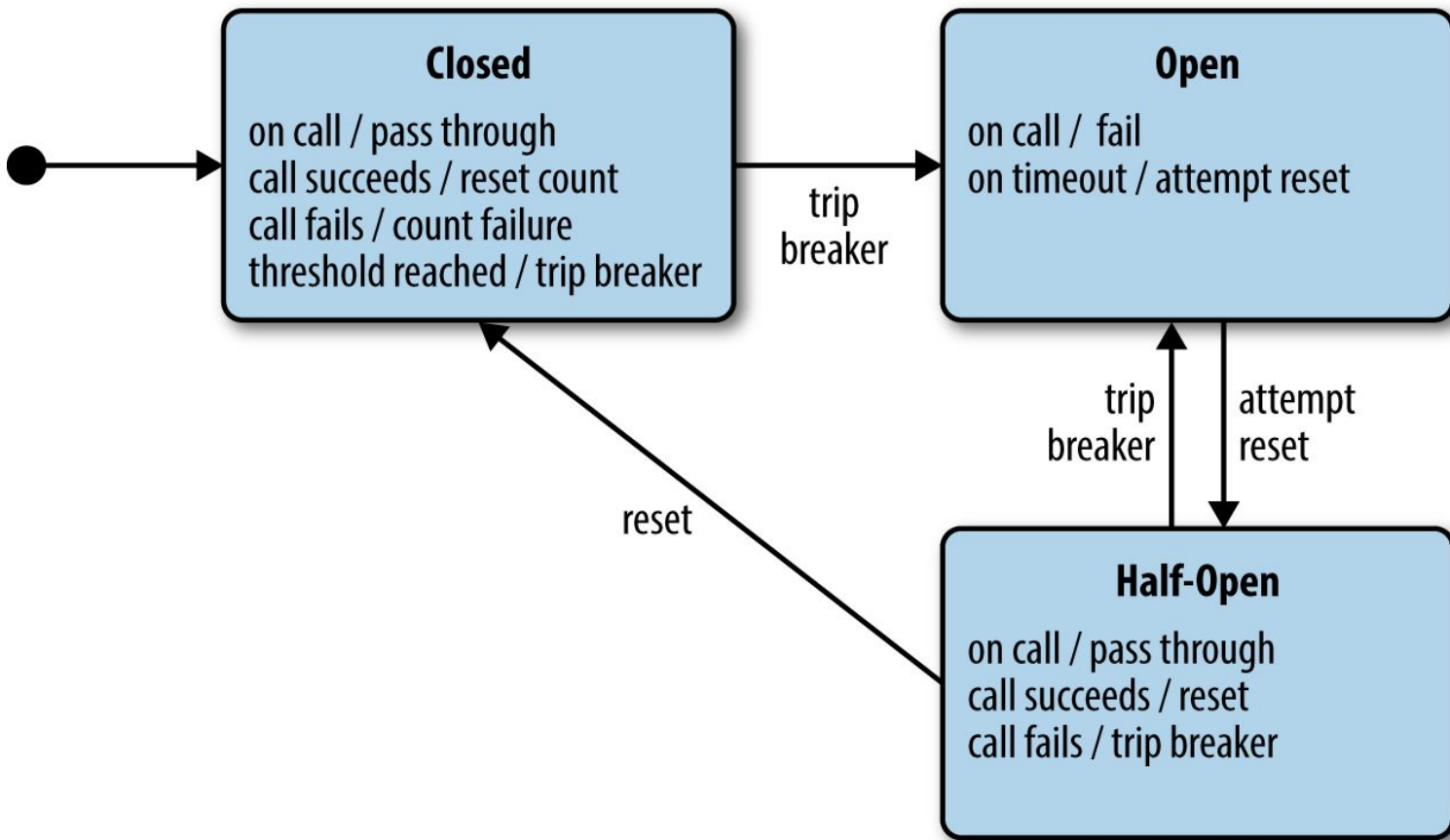
Application Protected with Circuit Breaker

- Application is isolated from a misbehaving backing service
- When backing service health is restored, calling application will automatically reconfigure itself to call it once more

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