#### Microservices with Spring Cloud Spencer Gibb, Pivotal













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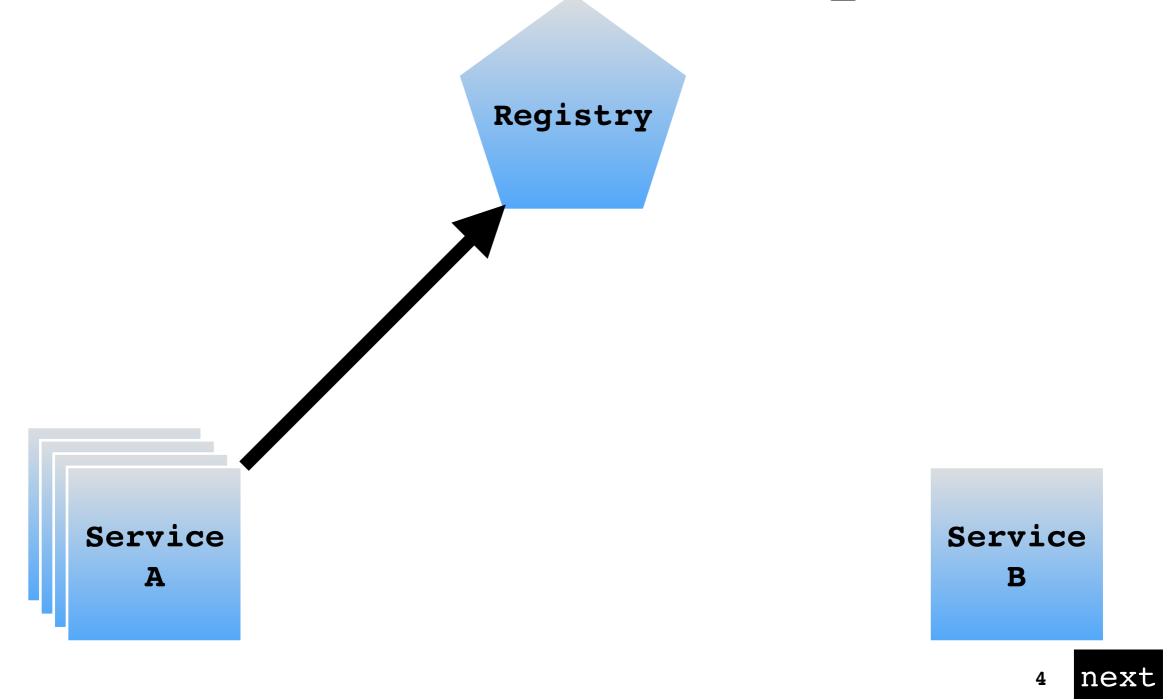
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**Consul** Discovery & Configuration

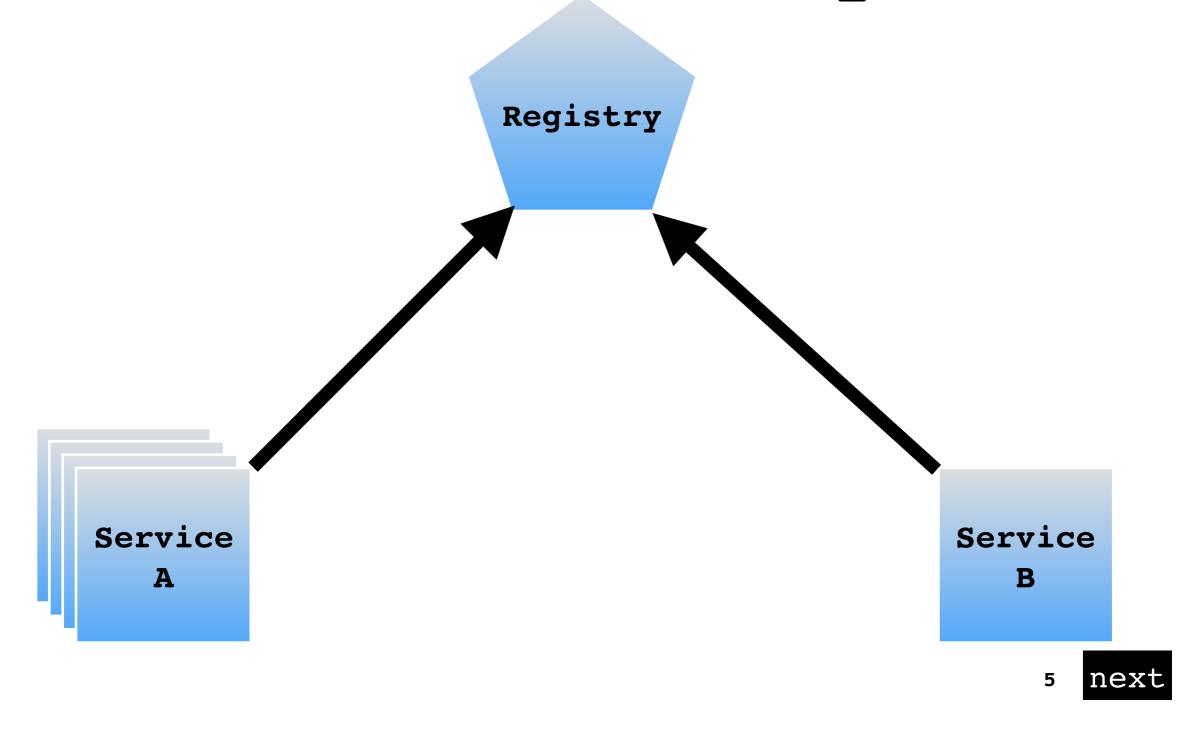
**Zookeeper** Discovery &

Configuration

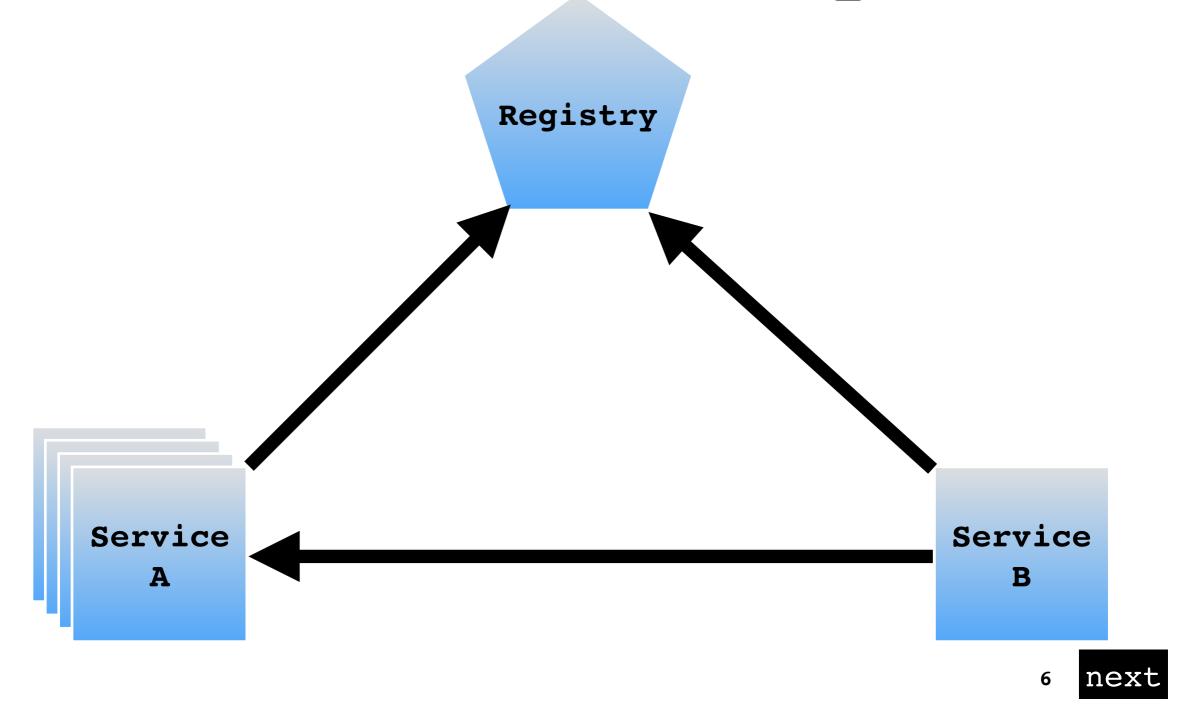
## Service Registration & Discovery



## Service Registration & Discovery



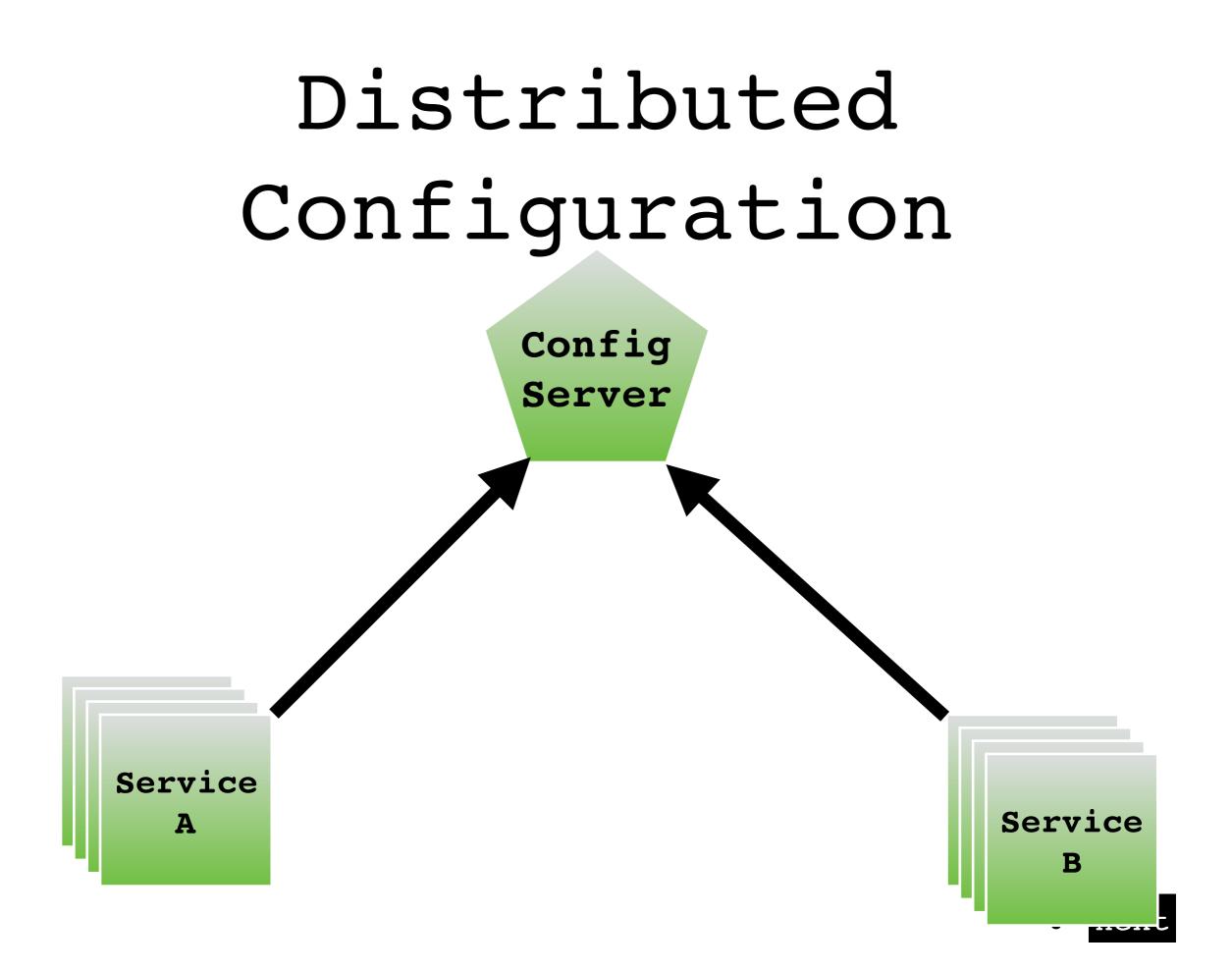
## Service Registration & Discovery

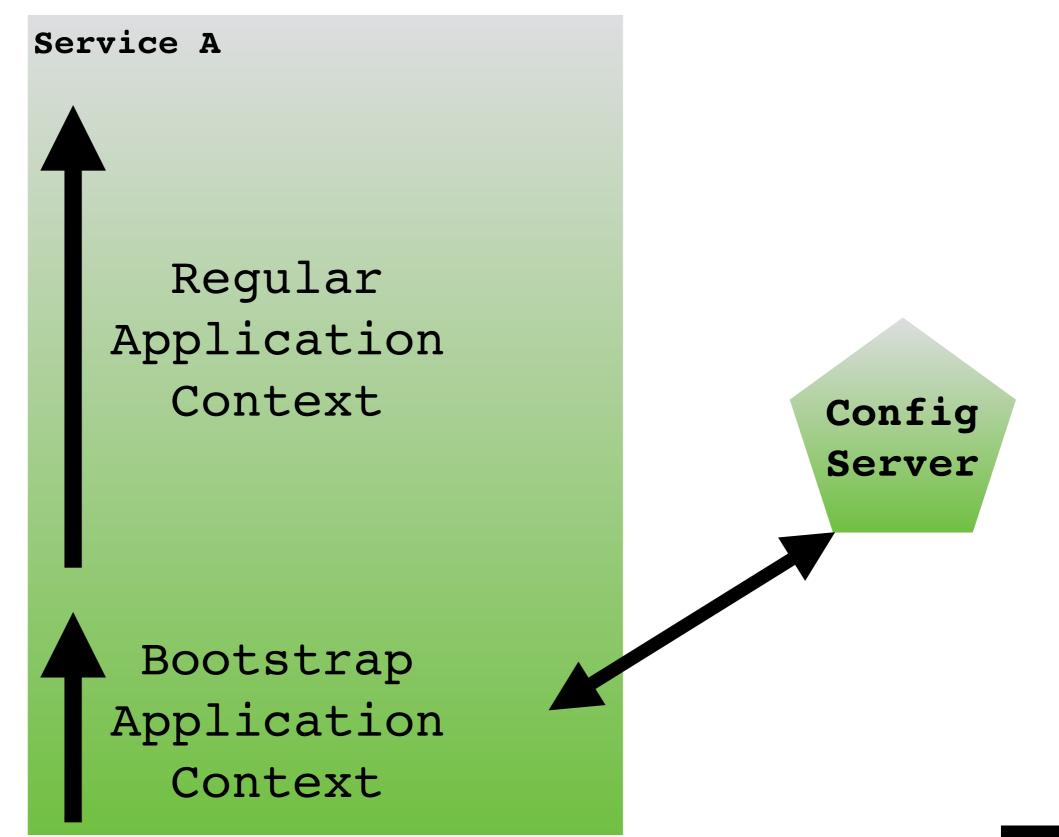


# DiscoveryClient

#### @EnableDiscoveryClient

ServiceInstance si =
discoveryClient.choose("serviceId")



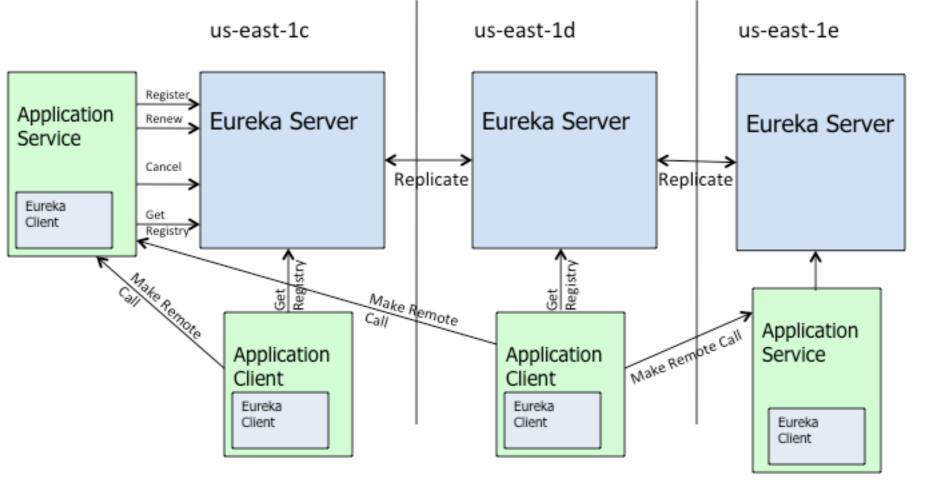


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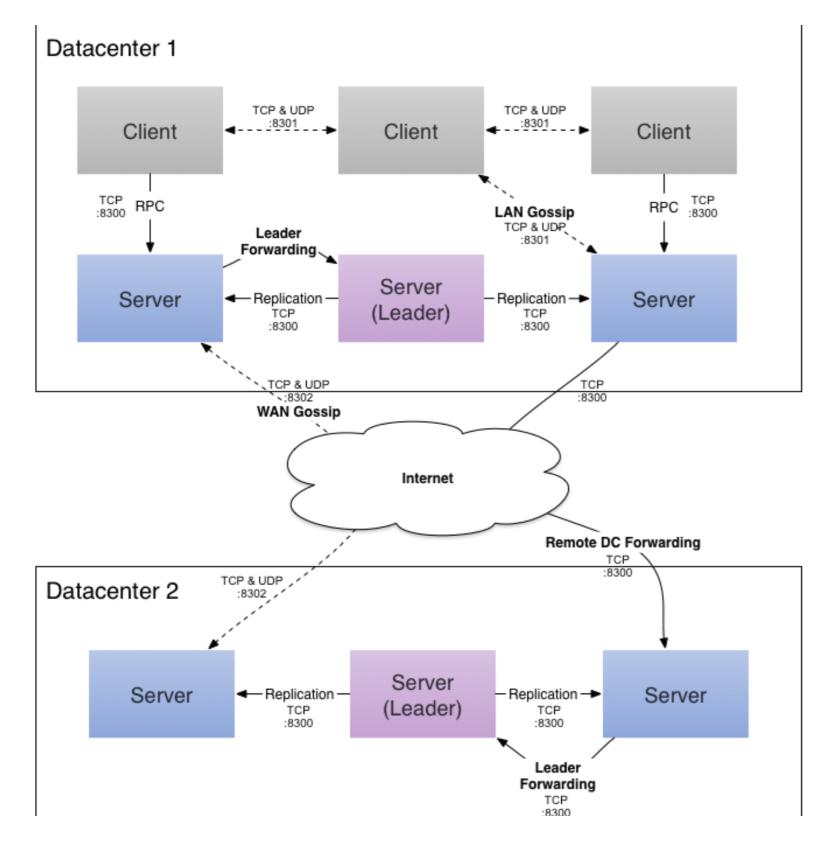
# Environment

@ConfigurationProperties

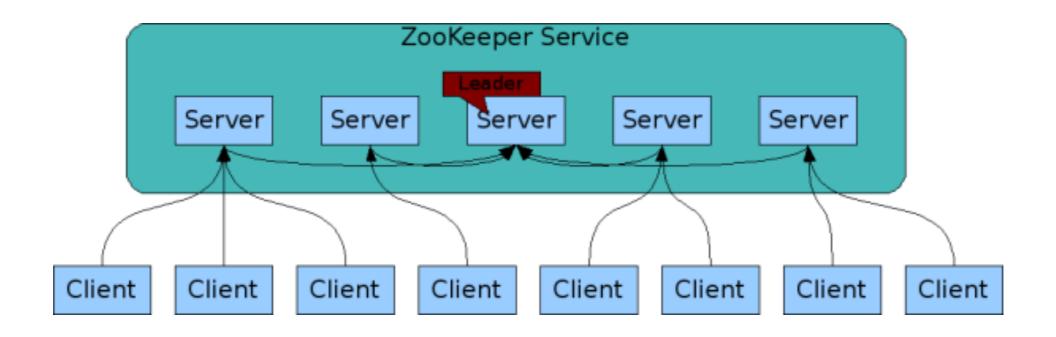
@Value



# Eureka NETFLX



## Consul Hashicorp



### Zookeeper





## Spring Cloud Sleuth

- Via Josh Long @starbuxman
- Sleuth is a distributed tracing framework: propagate correlation IDs across processes to understand request path
- Sleuth has traces (aggregate journey of a request) and Spans (each hop in journey from egress to ingress point)
- Sleuth Stream marshals captured Sleuth Spans over a Spring Cloud Stream binder (RabbitMQ, Kafka, etc.)
- Stream Zipkin takes marshaled Spans & writes to Zipkin DB for analysis
- Once you have instrumented nodes emitting Spans via Sleuth Stream to Zipkin Stream server, fire up https://github.com/openzipkin/zipkin/tree/ master/zipkin-web

