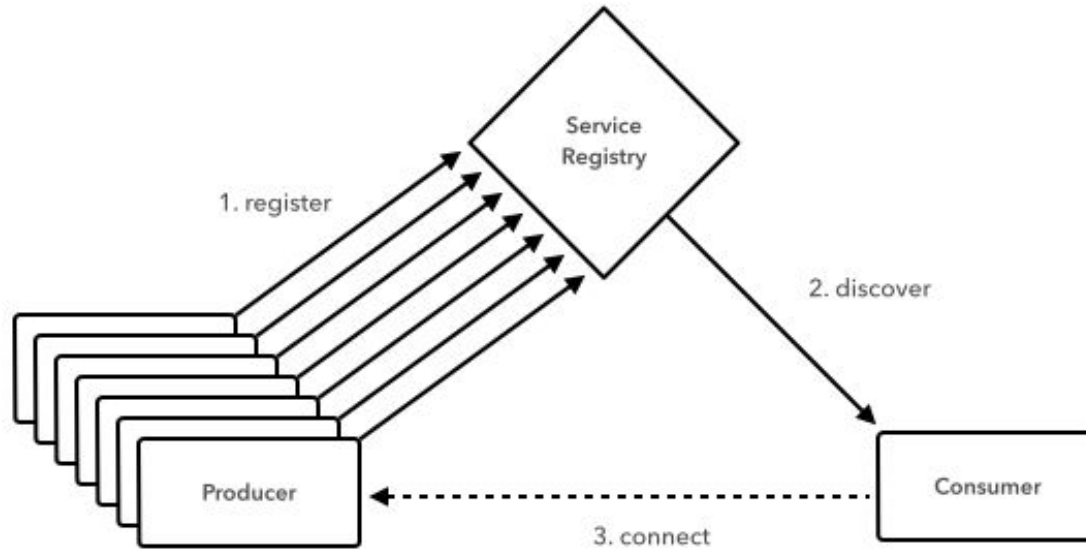# Pivotal

Service Registry Pattern

Spring Cloud

Problems

- Collaborating service instances must know where to find each other
- Disposability
- Elastic Scaling
- Dynamic application instance lookup capabilities
- Telemetry of large scale systems

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Pattern

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Producers and Consumers

- *Producers* register themselves to the Service Registry by name and location (usually by IP address:port combination, or DNS name).

- *Consumers* look up the *Producers* from the Service Registry.

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Discovery Clients

- A *Discovery Client* is a component that interacts with a particular *Service Registry* implementation
- *Consumers* and *Producers* each use a *Discovery Client* to lookup from, and register to a *Service Registry*

You will see more about Discovery Clients later in the course.

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Spring Cloud Service Registry Implementations

- Spring Cloud Netflix - Eureka
- Spring Cloud Zookeeper
- Spring Cloud Consul
- Spring Cloud Kubernetes

Platform Provided Service Registry Implementations

- DNS
- Service Mesh

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