



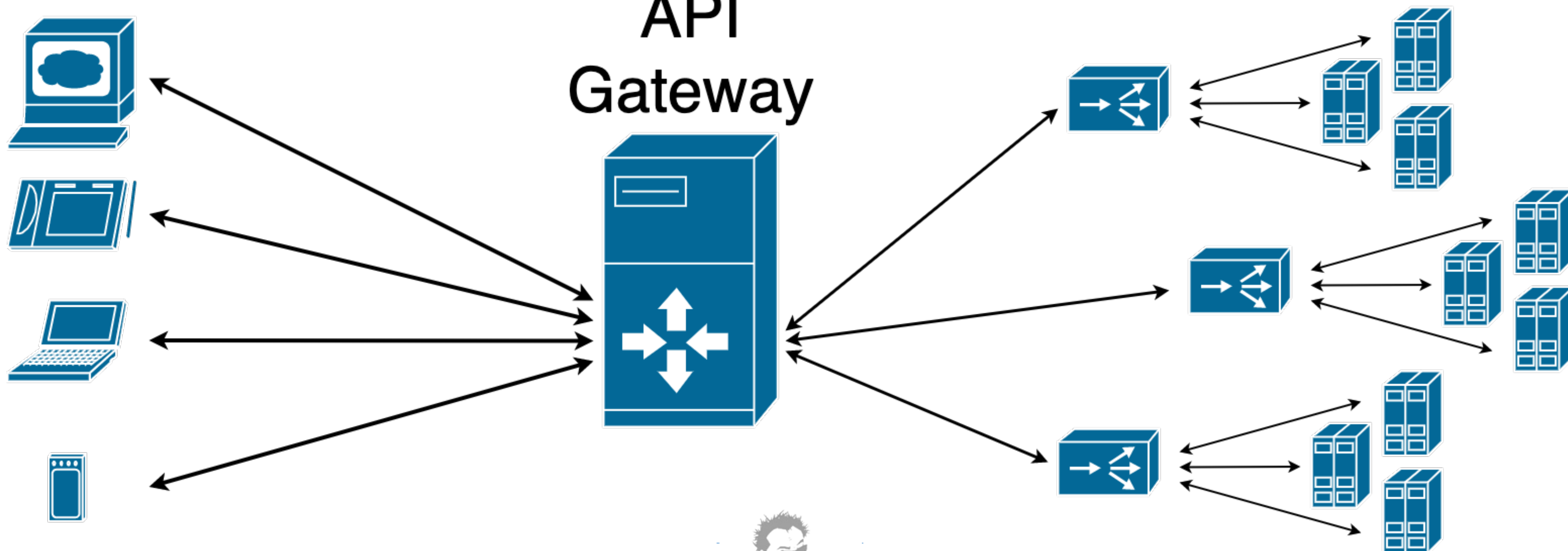
Spring Boot Microservices

Beginner to Guru

Introduction to Eureka



API Gateway

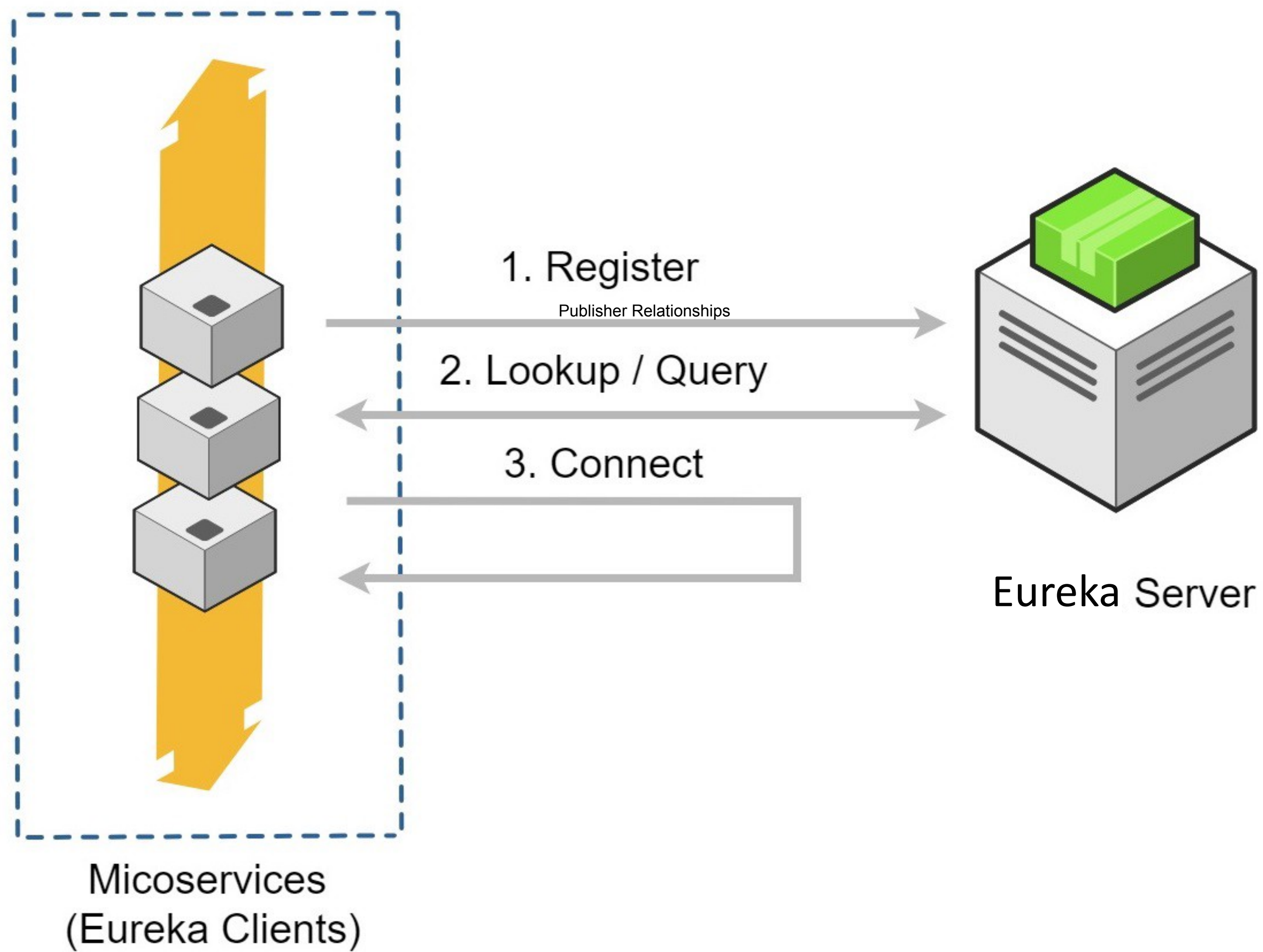




Netflix Eureka

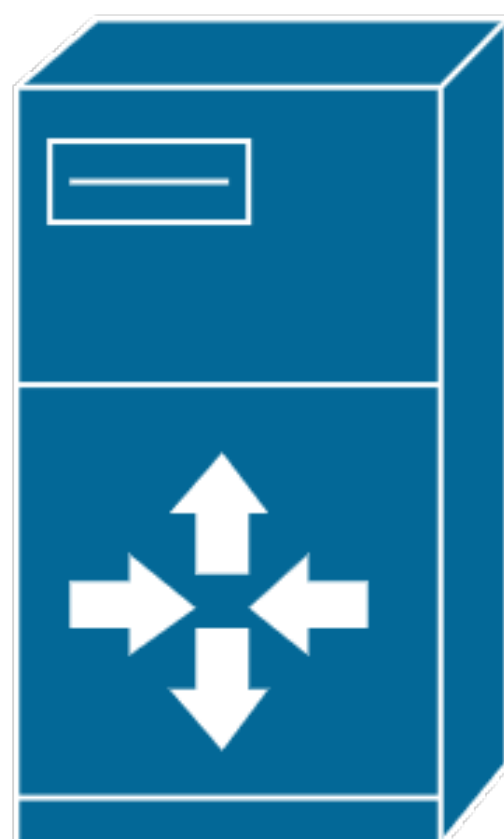
- Netflix Eureka is a Service Discovery and Registration service
 - When a microservice instance starts, it registers itself with the Eureka service
 - Provides host name / IP, port, and service name
 - Known as Service Registration
- Service Discovery is the process of discovering the available service instances







API
Gateway



Service
Node

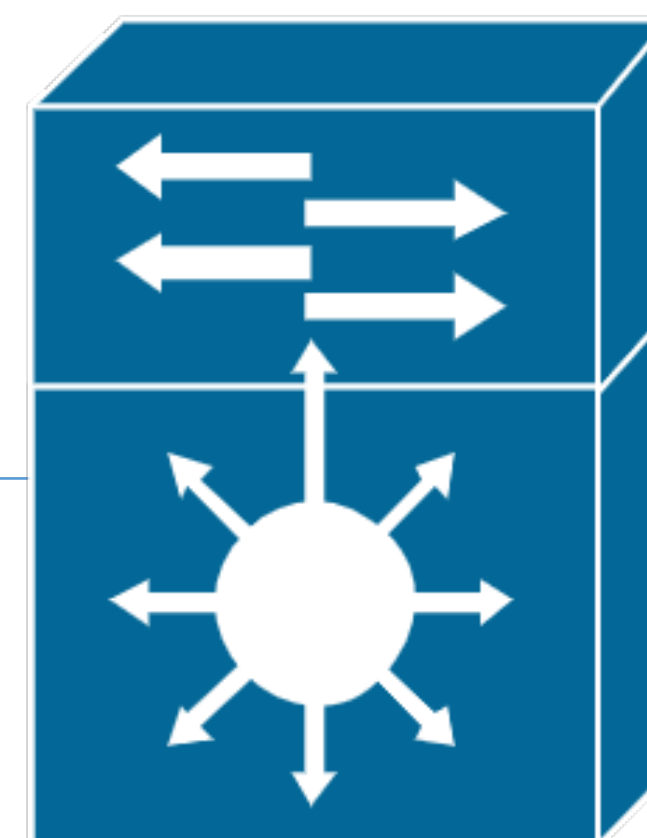


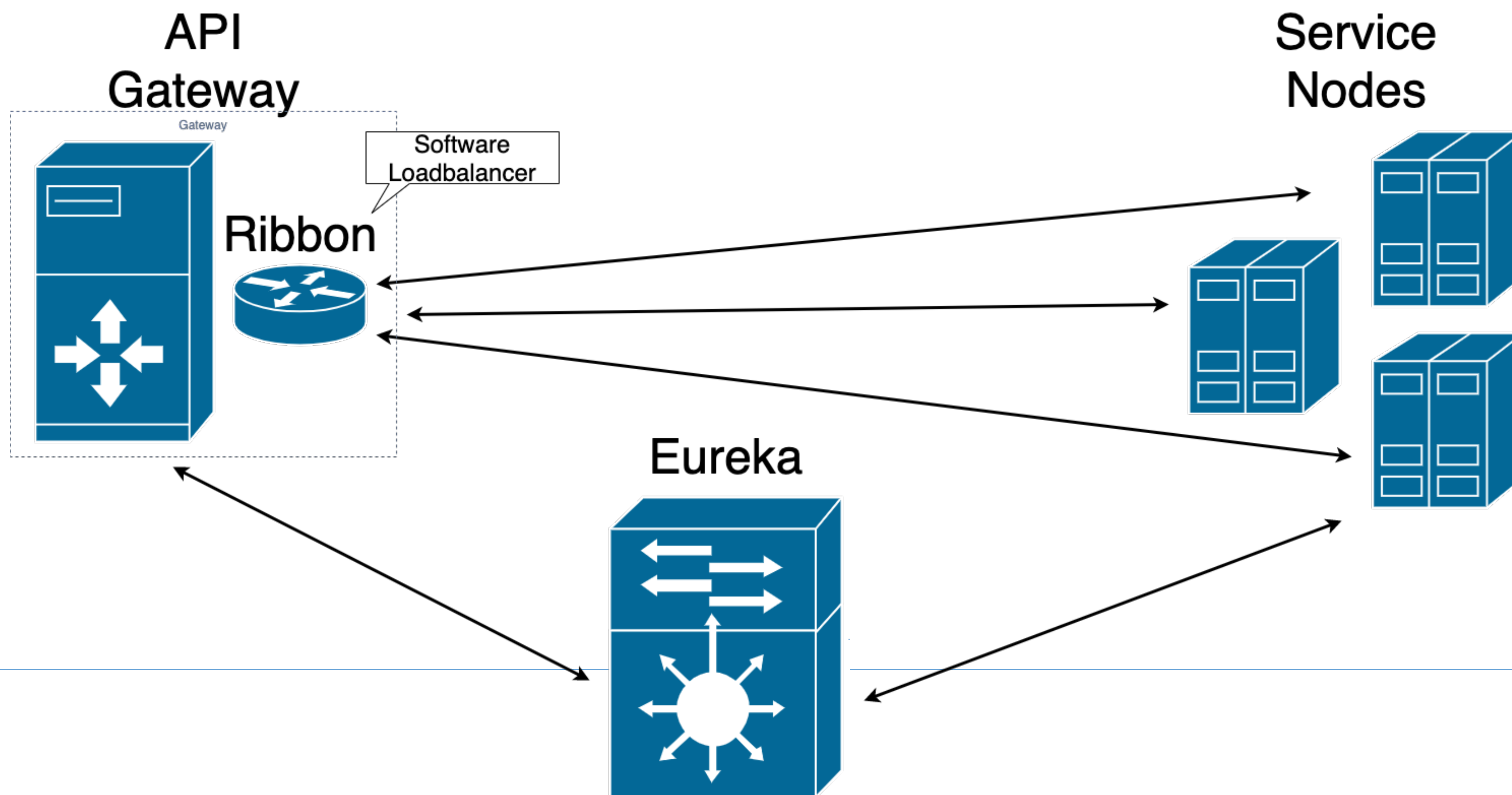
3. Use Service

Eureka

1. Register

2. Discover







Service Registration

- Spring Boot provides a Spring Boot Starter for a Eureka Server
- Spring Boot also provides a starter for Eureka clients
 - Both will self configure for localhost operations
- Important to configure service name in application.properties
 - This is the value used to lookup the service in Eureka



Service Discovery

- Spring Cloud Open Feign allows for easy service discovery between microservices
 - Works in connection with Eureka and Ribbon
- Spring Cloud Gateway can be configured to lookup services in Eureka
 - Works in conjunction with Ribbon to load balance requests



Next Steps

- Create Eureka Server
- Configure Services to Register with Eureka
- Create OpenFeign Service for Inventory Requests
- Configure Spring Cloud Gateway to use Eureka for Service Discovery

