

# Meet Snoop

A Discovery Service for **Java EE**

**Ivar Grimstad**

Principal Consultant, Cybercom Sweden





@ivar\_grimstad



<https://github.com/ivargrimstad>



<https://www.linkedin.com/in/ivargrimstad>



<http://lanyrd.com/profile/ivargrimstad/>





# Agenda

Service Discovery

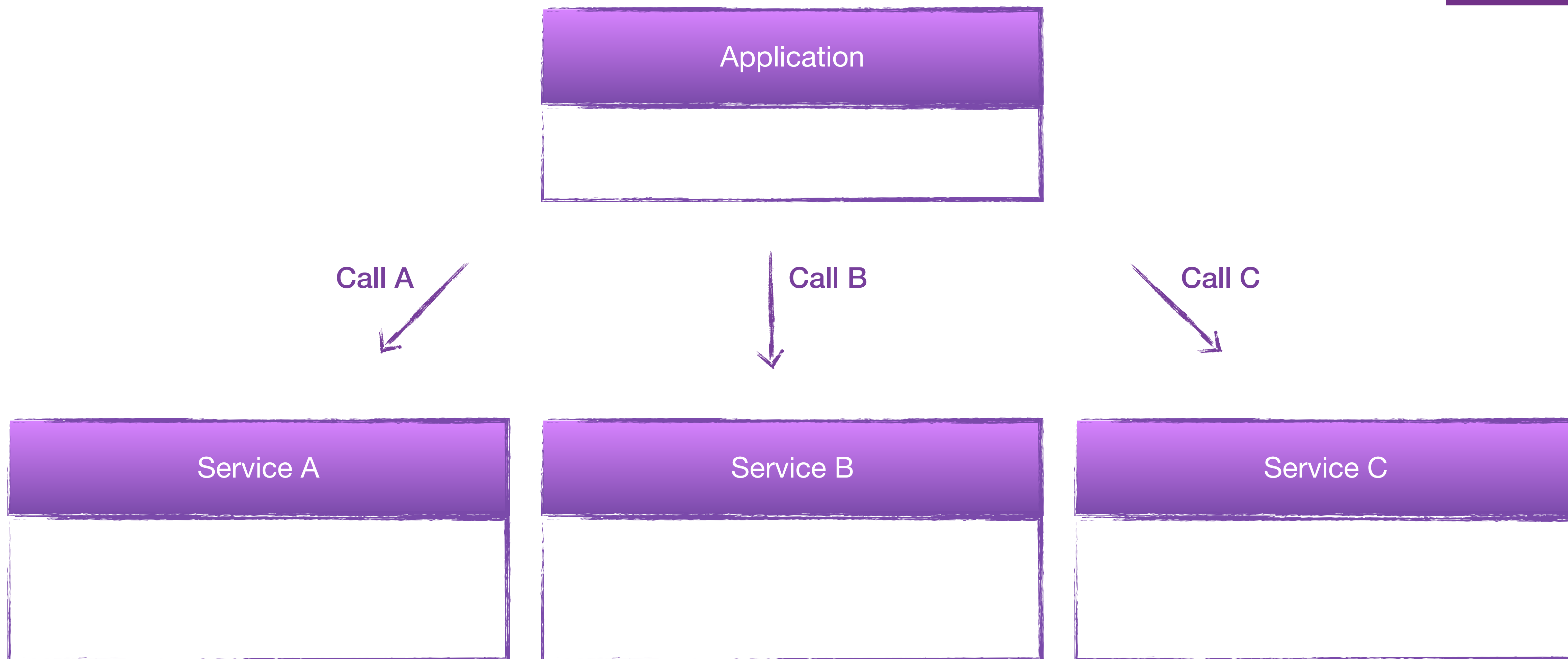
Snoop - a Discovery Service for Java EE

# @EnableSnoopClient

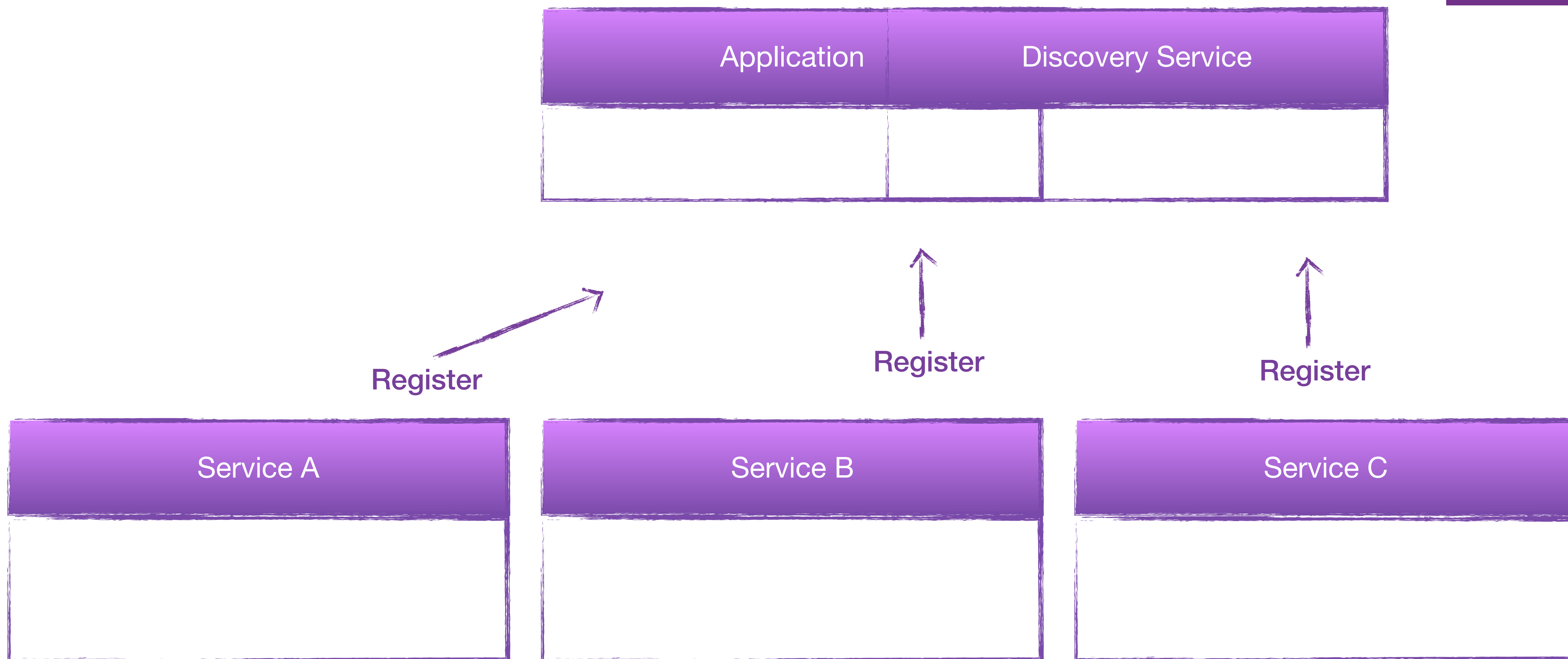


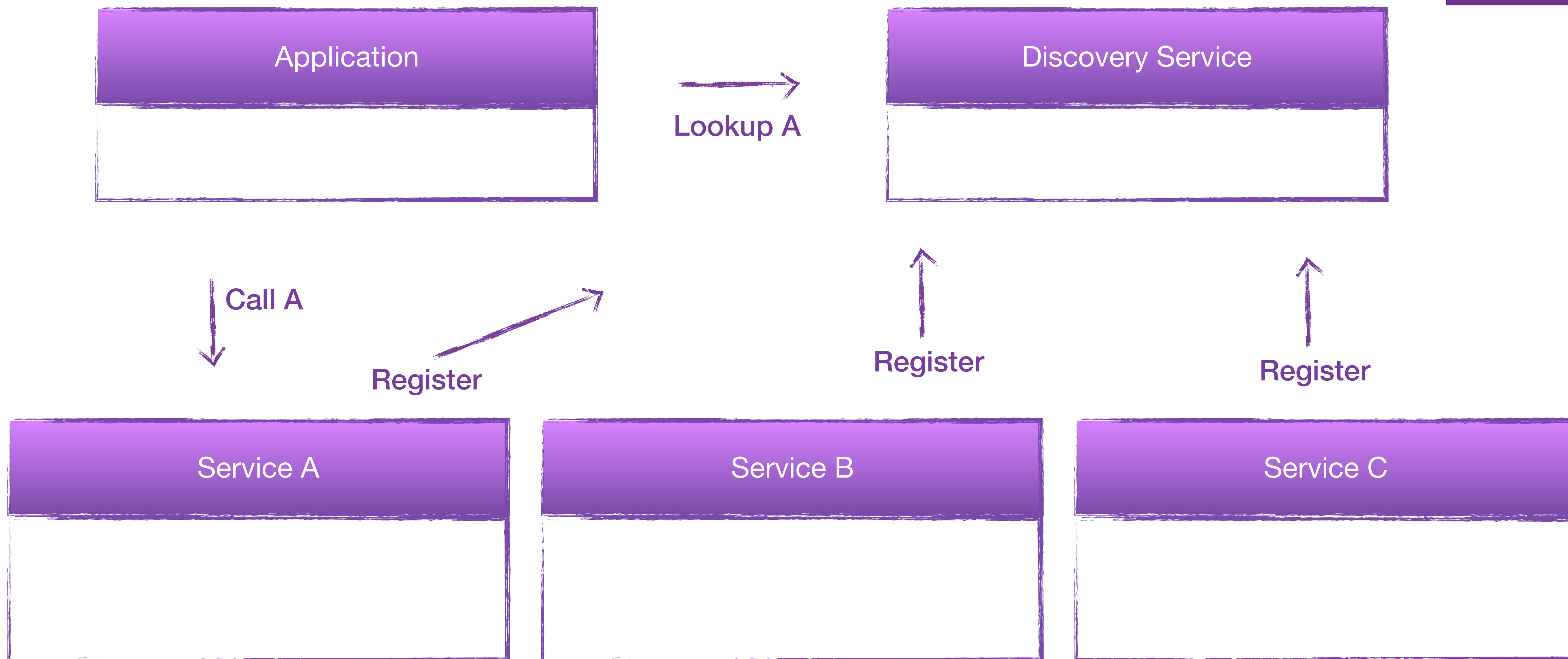
# Discovering Microservices

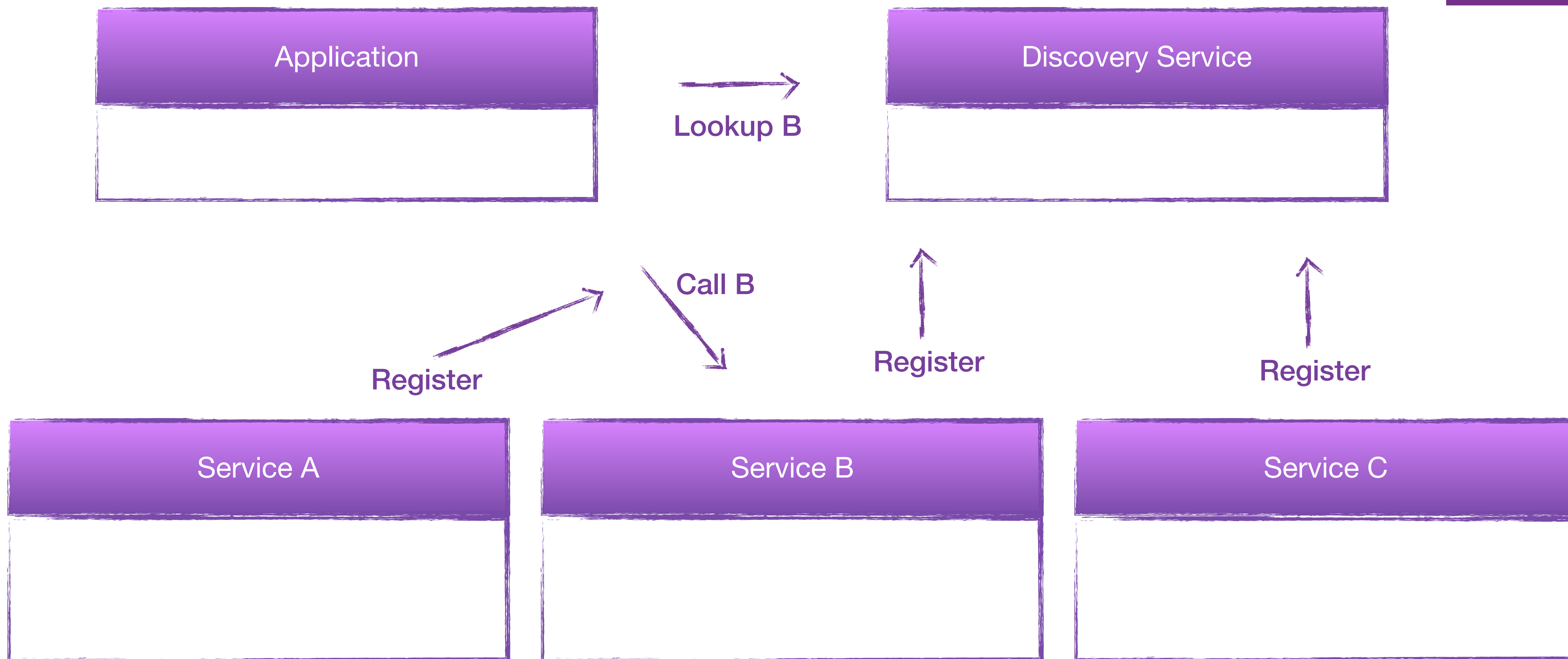
# Monolithic Application



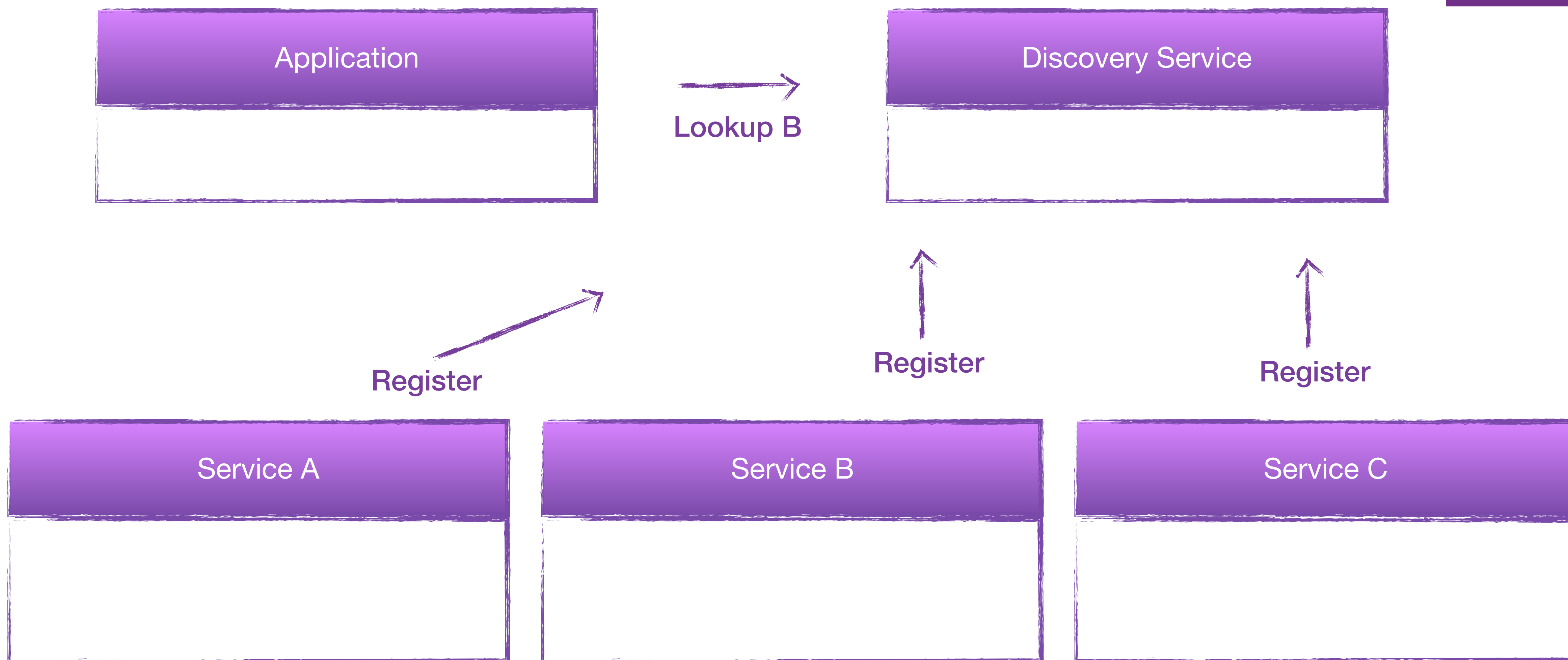












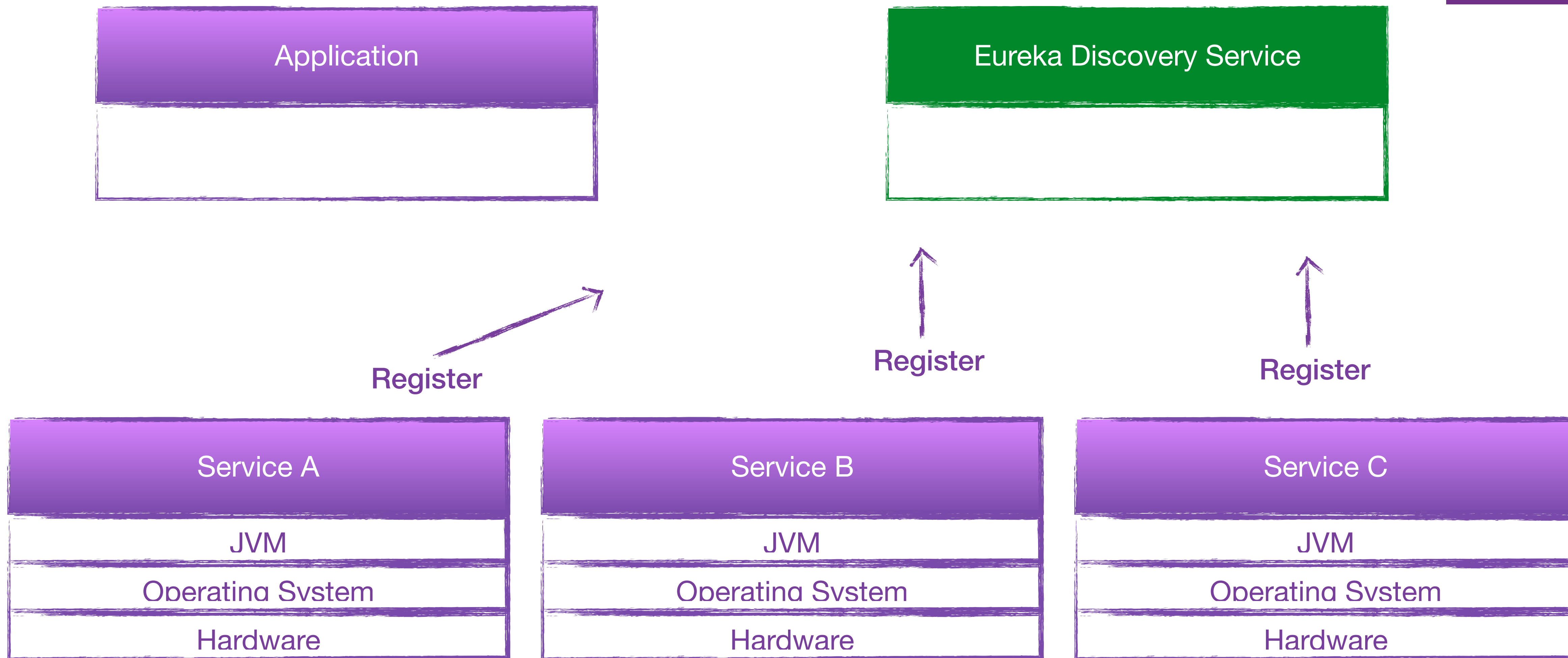
# Introducing Snoop

# Background

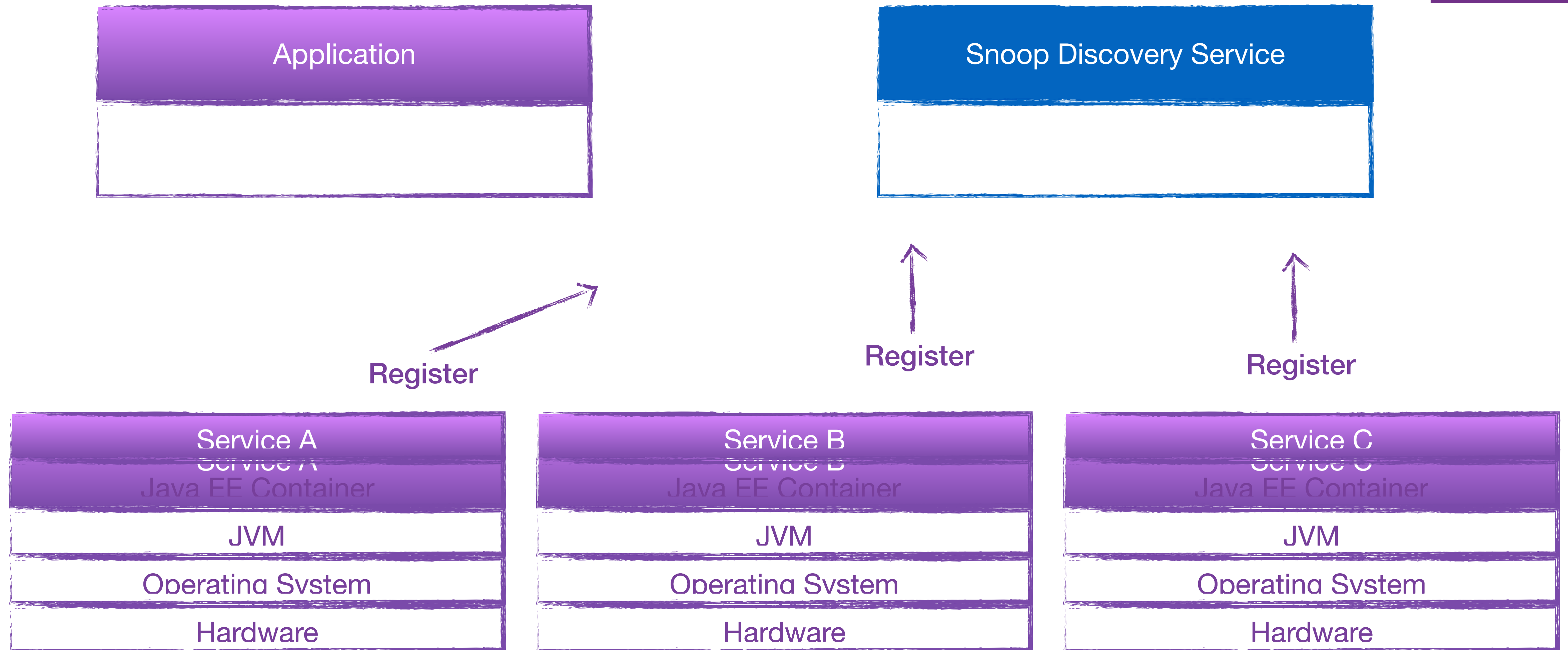


# Inspired by **Eureka**

# @EnableEurekaClient

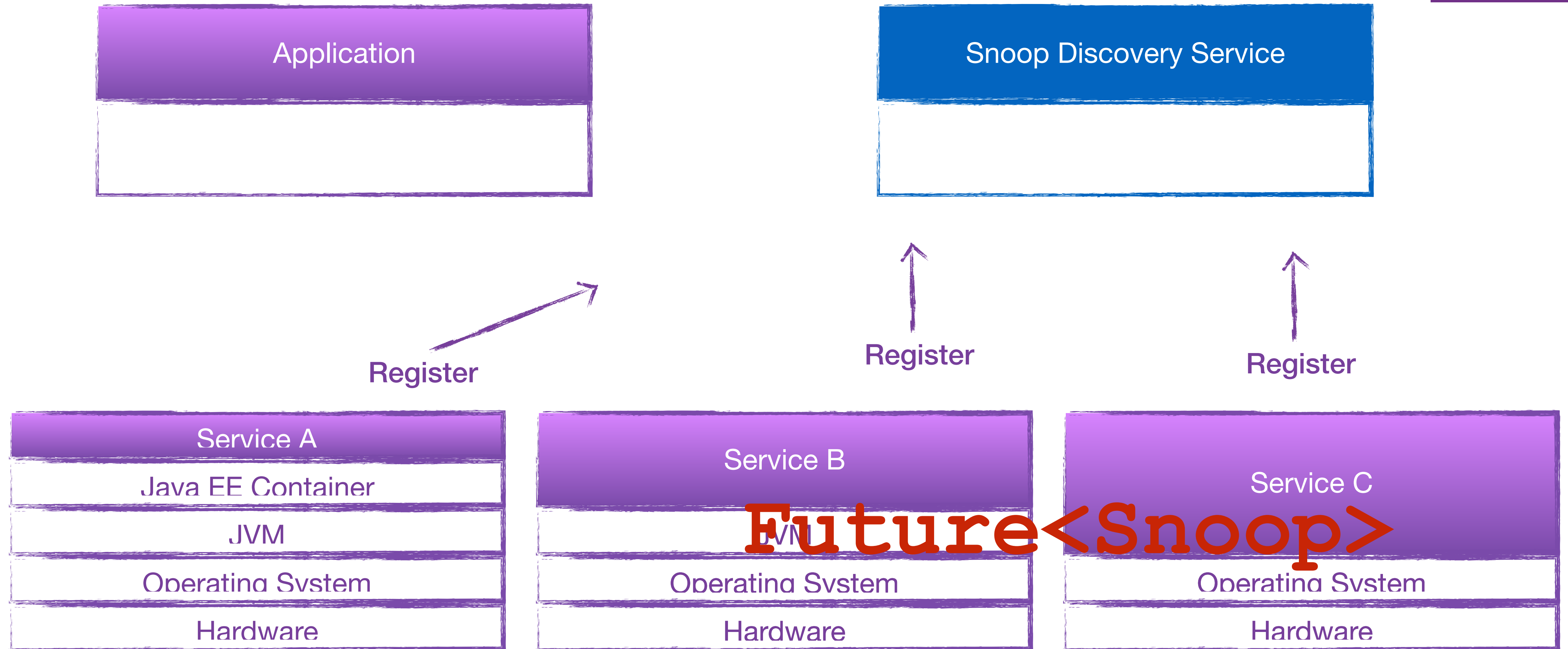


# @EnableSnoopClient



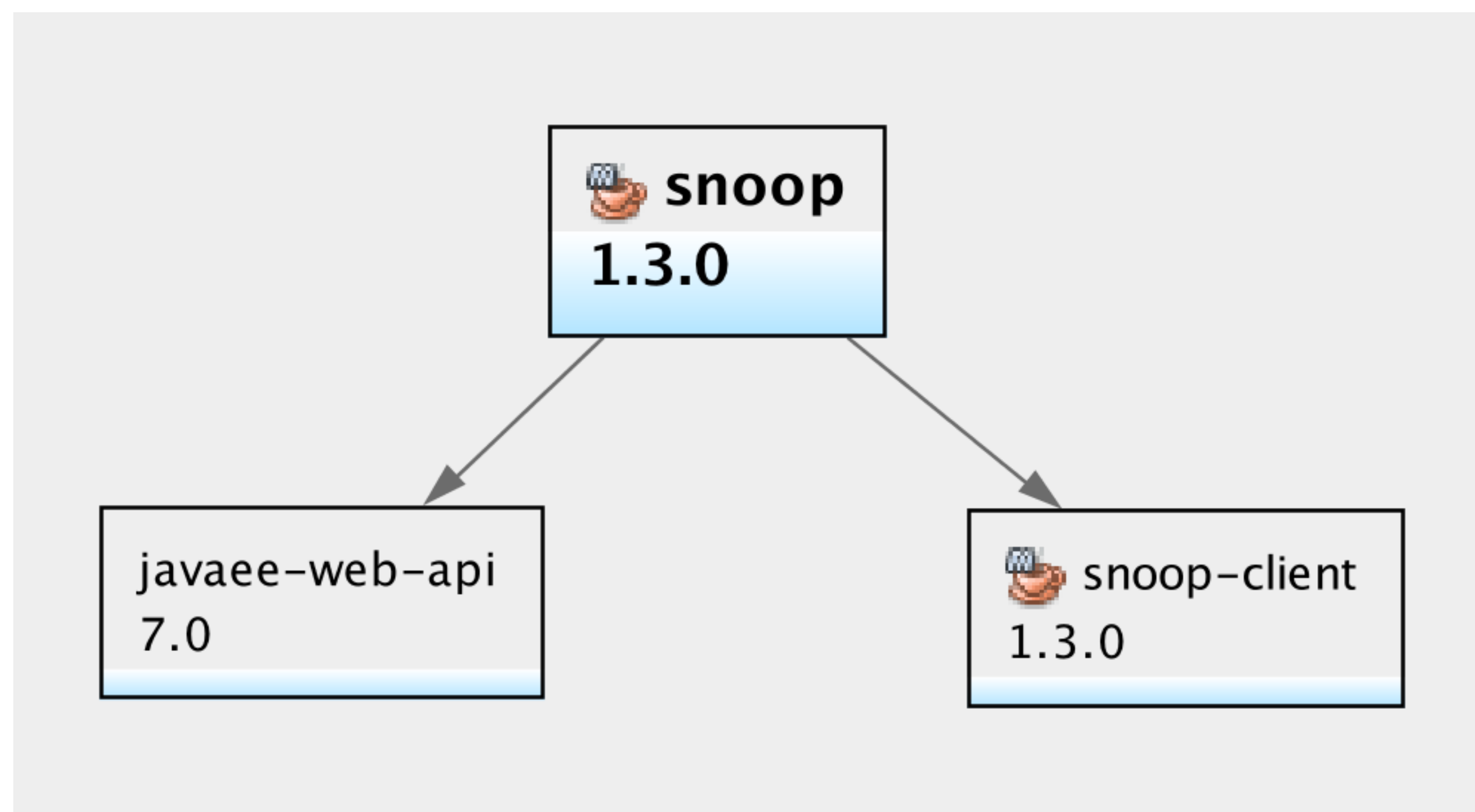


# @EnableSnoopClient



# The Philosophy of **Snoop**

# Lean Non-intrusive Intuitive Configurable



```
MMA-C02MJ24PFH04:target ivar.grimstad$ ls -lahr
total 24
-rw-r--r--  1 ivar.grimstad 1675172734  9.6K Oct 27 13:07 snoop-1.3.0.jar
```



# Snoop

# Service Registration

```
@EnableSnoopClient(serviceName="hello")
```

```
@EnableSnoopClient(name = "hello")  
@ApplicationPath("api")  
public class ApplicationConfig  
    extends Application {  
}
```

# Snoop Service Lookup



```
@Snoop (serviceName="hello")
```

```
@Inject  
@Snoop(serviceName = "hello")  
private SnoopServiceClient helloService;
```

# Snoop Service Consumption

# SnoopServiceClient

```
@Inject  
@Snoop(serviceName = "hello")  
private SnoopServiceClient helloService;
```



# Method Summary

All Methods	Instance Methods	Concrete Methods
Modifier and Type		Method and Description
javax.ws.rs.client.WebTarget		<b>getServiceRoot</b> ( ) Locator to get the service root for the service registered with Snoop.
<b>Optional</b> <javax.ws.rs.core.Response>		<b>simpleDelete</b> ( <b>String</b> resourcePath) Convenience method for making a simple DELETE request on a resource.
<b>Optional</b> <javax.ws.rs.core.Response>		<b>simpleGet</b> ( <b>String</b> resourcePath) Convenience method for making a simple GET request on a resource.
<b>Optional</b> <javax.ws.rs.core.Response>		<b>simplePost</b> ( <b>String</b> resourcePath, <b>Object</b> resource) Convenience method for making a simple POST request on a resource.
<b>Optional</b> <javax.ws.rs.core.Response>		<b>simplePut</b> ( <b>String</b> resourcePath, <b>Object</b> resource) Convenience method for making a simple PUT request on a resource.

```
String helloResponse =  
    helloService.simpleGet("hello")  
        .filter(r -> r.getStatus() == 200)  
        .map(r ->  
            r.readEntity(String.class))  
        .orElse("goodbye");
```

# Snoop Configuration

# System Properties

## Environment Variables

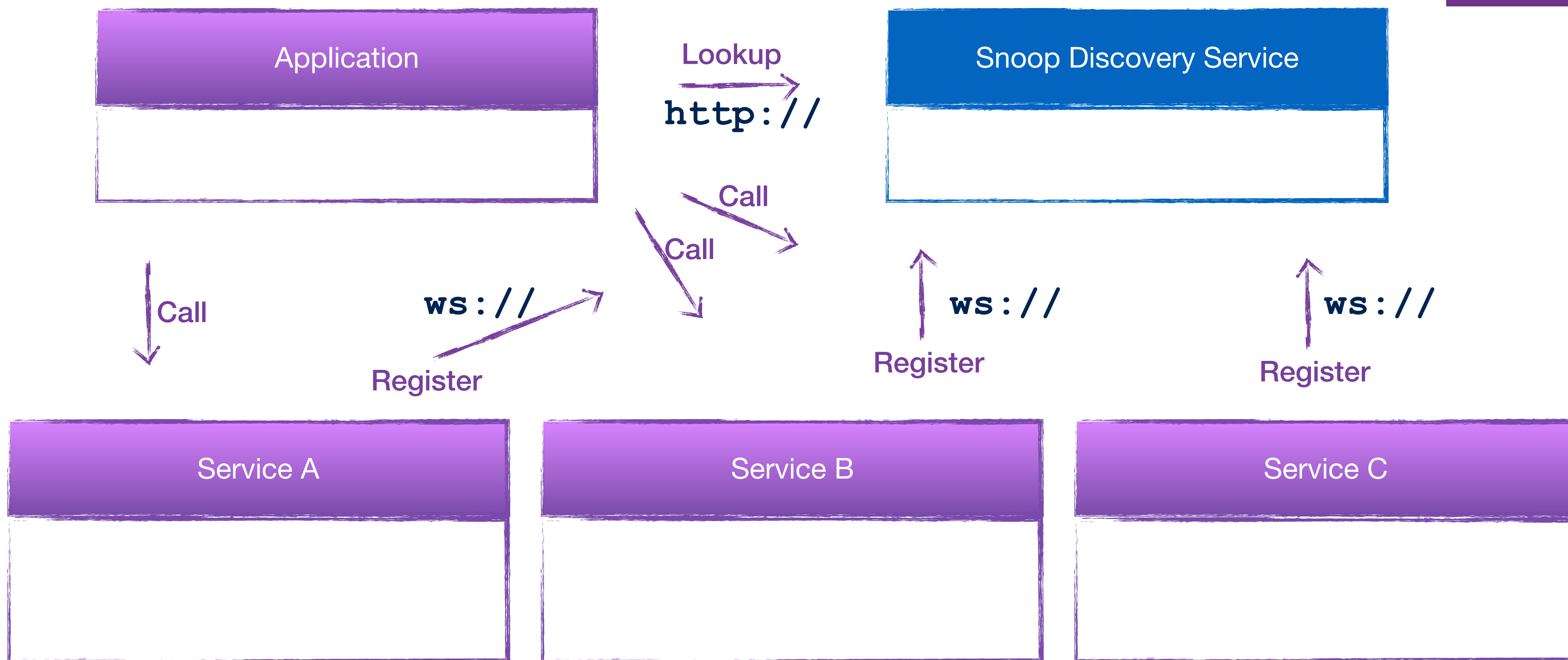


## Application Configuration (`snoop.yml`)

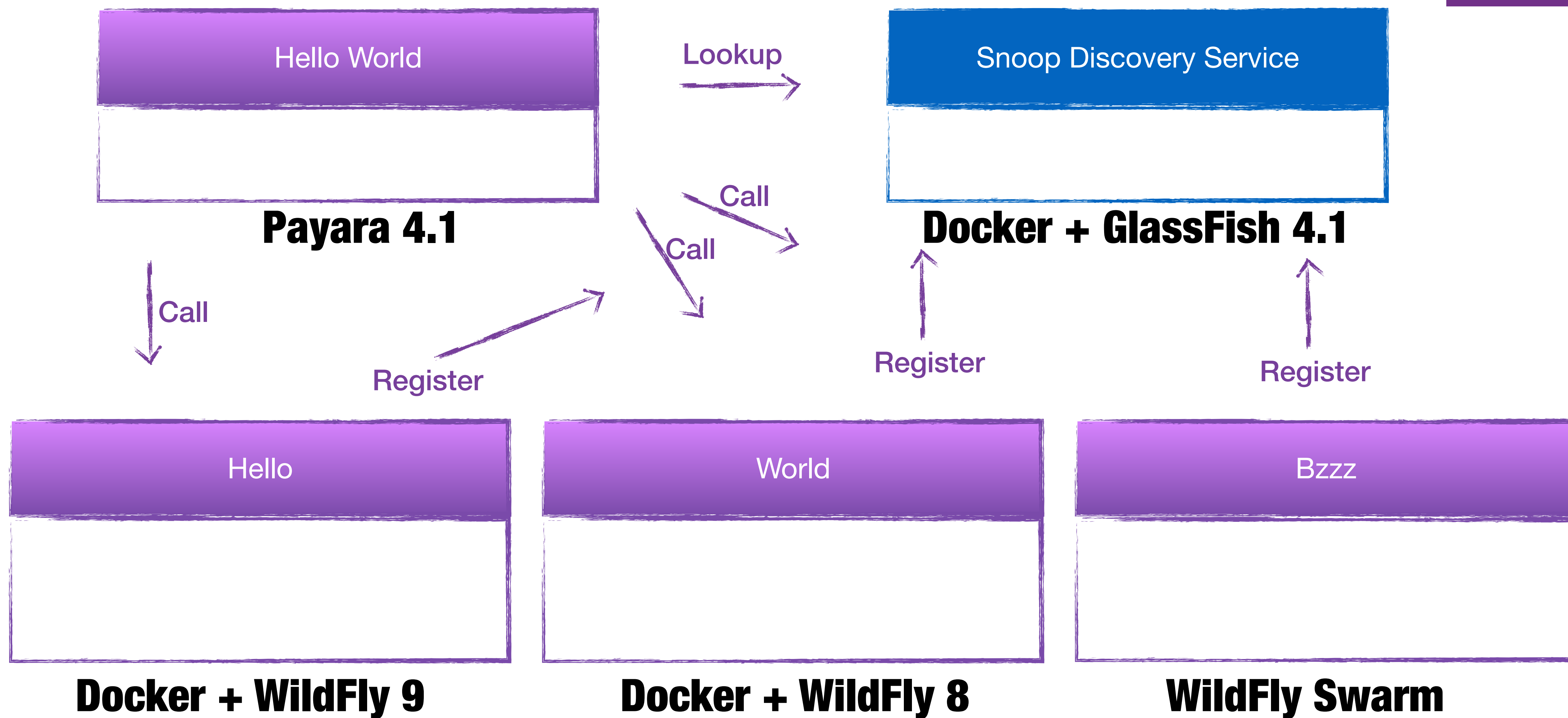
# snoop.yml

```
snoop:  
  host: http://localhost  
  port: 8080  
  serviceRoot: snoop-hello-service/api  
  snoopService: 192.168.59.103:8081/snoop-service/
```





# DEMO !



# Summary

# Getting Started with **Snoop**



# 1. Add Maven Dependency

```
<dependency>  
  <groupId>eu.agilejava</groupId>  
  <artifactId>snoop</artifactId>  
  <version>${snoop.version}</version>  
</dependency>
```



## 2. Snoop-Enable the Service

```
@EnableSnoopClient(serviceName="hello")
```

# 3. Configure the Service

**snoop:**

**host: http://localhost**

**port: 8080**

**serviceRoot: snoop-hello-service/api**

**snoopService: 192.168.59.103:8081/snoop-service/**

# 4. Configure the Application

**snoop:**

**snoopService: 192.168.59.103:8081/snoop-service/**

# Sources

[\*\*https://github.com/ivargrimstad/snoop\*\*](https://github.com/ivargrimstad/snoop)

[\*\*https://github.com/ivargrimstad/snoop-samples\*\*](https://github.com/ivargrimstad/snoop-samples)

[\*\*https://hub.docker.com/u/ivargrimstad\*\*](https://hub.docker.com/u/ivargrimstad)

# @EnableSnoopClient

**cybercom.com**