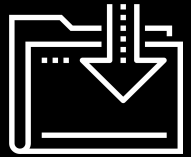# Edge Services

Course: Java

S2

Learning Outcomes

By the end of this lesson, you will be able to:

| 01 | Explain what an edge service is. |

| 02 | Discuss when to use an edge service. |

| 03 | Use a Feign client in an edge service. |

| 04 | Use an edge service in a microservices architecture. |

Edge Services

What Is a Edge Service?

- An entry point into a service that sits in front of an API.

- Edge service is exposed to the public internet.

- Acts as a gateway to other services.

- Routes HTTP requests to the appropriate service(s).

Why Use an Edge Service?

May improve security through authentication.

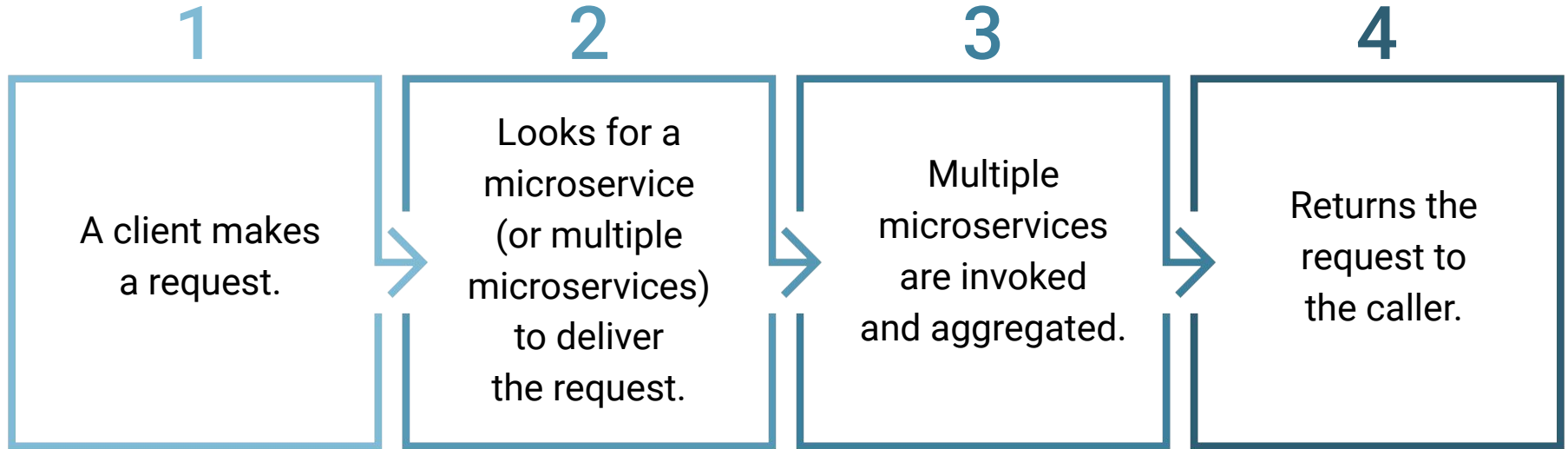May improve performance through load balancing.

Improves the user experience.

Can be tailored to specific clients.

Allows us to request from multiple services with a single request.

How Does an Edge Service Work?

1

A client makes a request.

2

Looks for a microservice (or multiple microservices) to deliver the request.

3

Multiple microservices are invoked and aggregated.

4

Returns the request to the caller.

Things to Consider when Using an Edge Service

Benefits

- Encapsulates the internal structure of the app.
  - Each kind of client gets their own API.

Concerns

- Another component to manage and update.

Feign REST Client Library

Feign REST Client Library

Feign is another library developed by Netflix for use in their platform and then subsequently open-sourced.

Its main purpose is to make creation of RESTAPI clients easier and faster.

Feign automatically integrates with the Eureka service registry/service discovery server.

The annotations used to create a client method to consume a REST endpoint are the same as we use to create a REST endpoint with Spring:
- ○ @RequestMapping
- ○ @PathVariable
- ○ Etc.

The details of using the Feign client are introduced in the tutorial for this lesson.

RECAP

Learning Outcomes

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