



Microservices workshop














Somkiat

Home









Somkiat Puisungnoen

Update Info
1


View Activity Log
10+

...


Timeline
About
Friends 3,138
Photos
More ▾



When did you work at Opendream?
×


...
22 Pending Items



Intro

Software Craftsmanship


Software Practitioner at สยามชำนาญกิจ พ.ศ. 2556



Agile Practitioner and Technical at SPRINT3r



Post


Photo/Video


Live Video


Life Event


What's on your mind?


Public ▾

Post



Somkiat Puisungnoen
15 mins · Bangkok · ▾

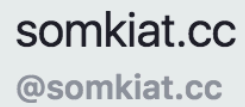
Java and Bigdata

...

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Microservices

3



Photos

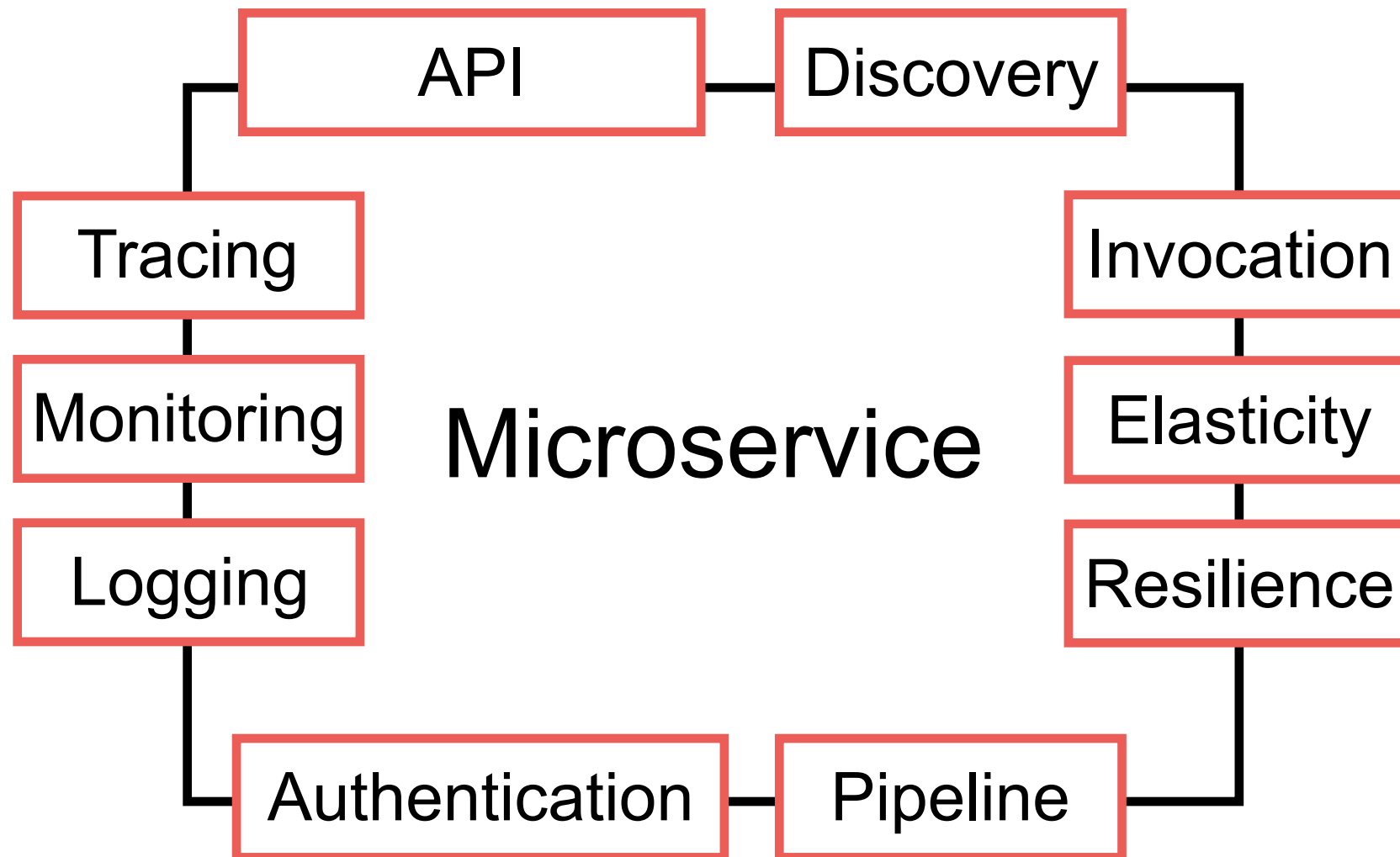


+ Add a Button

Workshop :: Develop service



Properties of Microservice



<https://github.com/up1/workshop-microservice-with-dot-net-core>



Point-to-Point communication

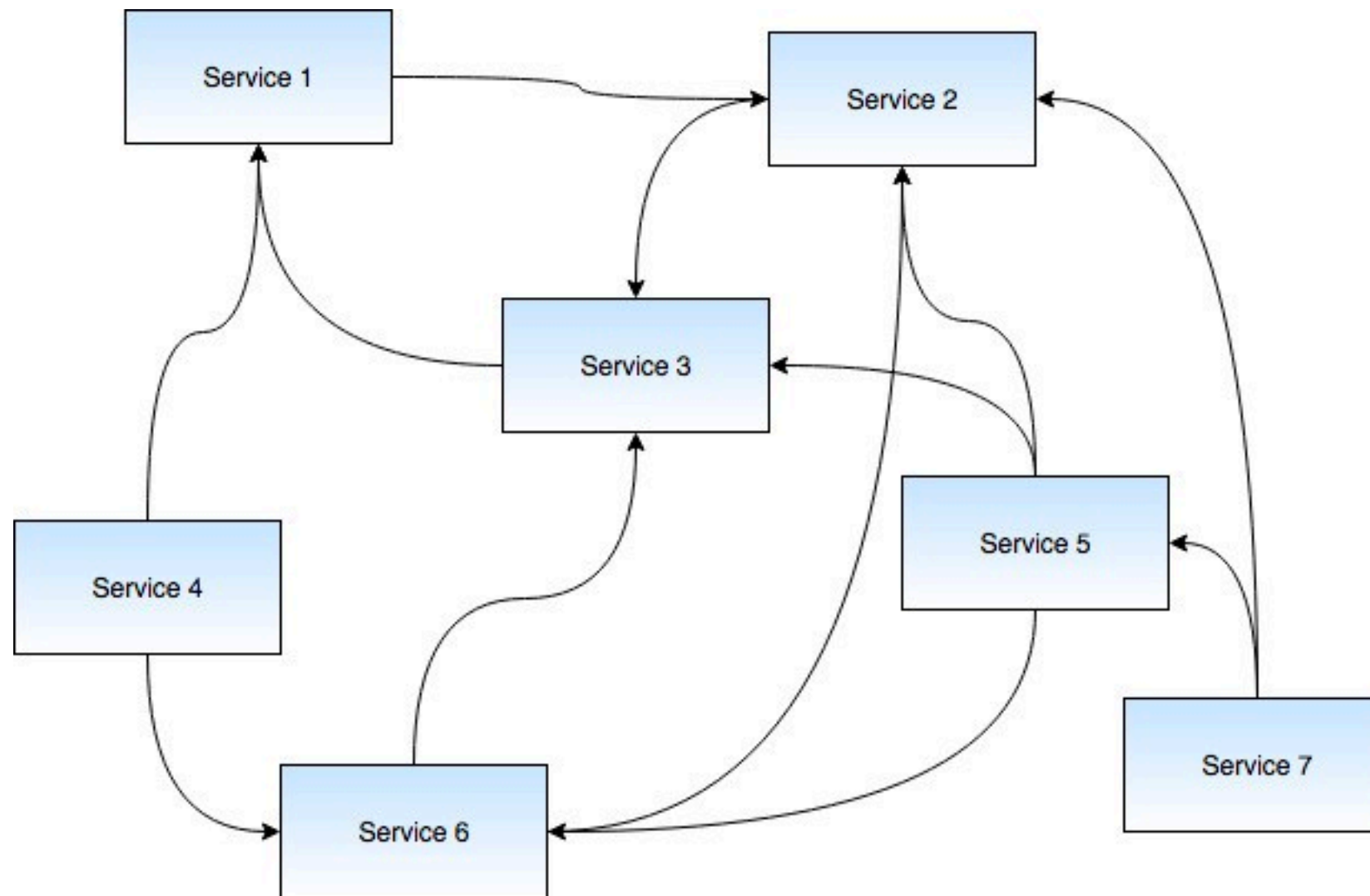
01-point-to-point



Point-to-Point communication



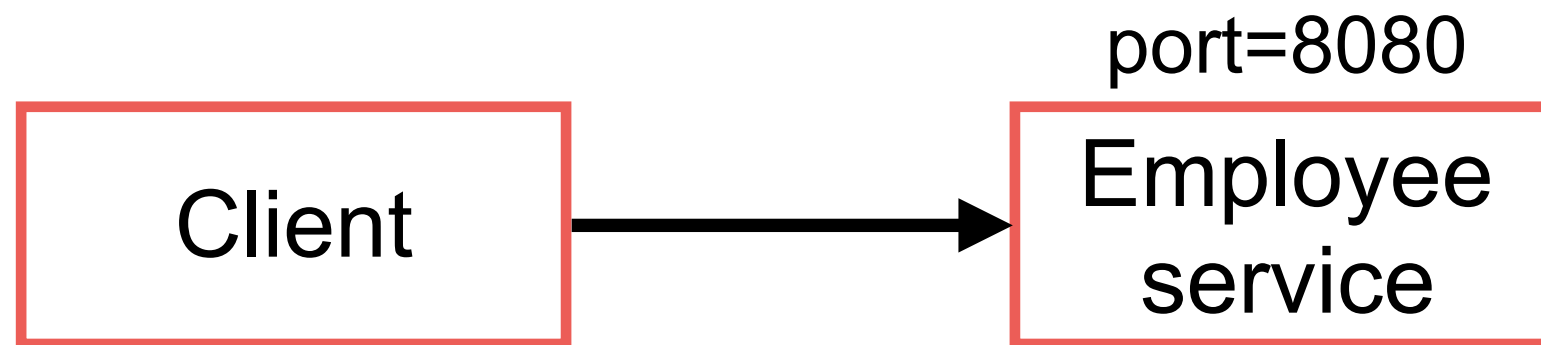
Many services !!



Using service discovery



Communication between services



Service Registry

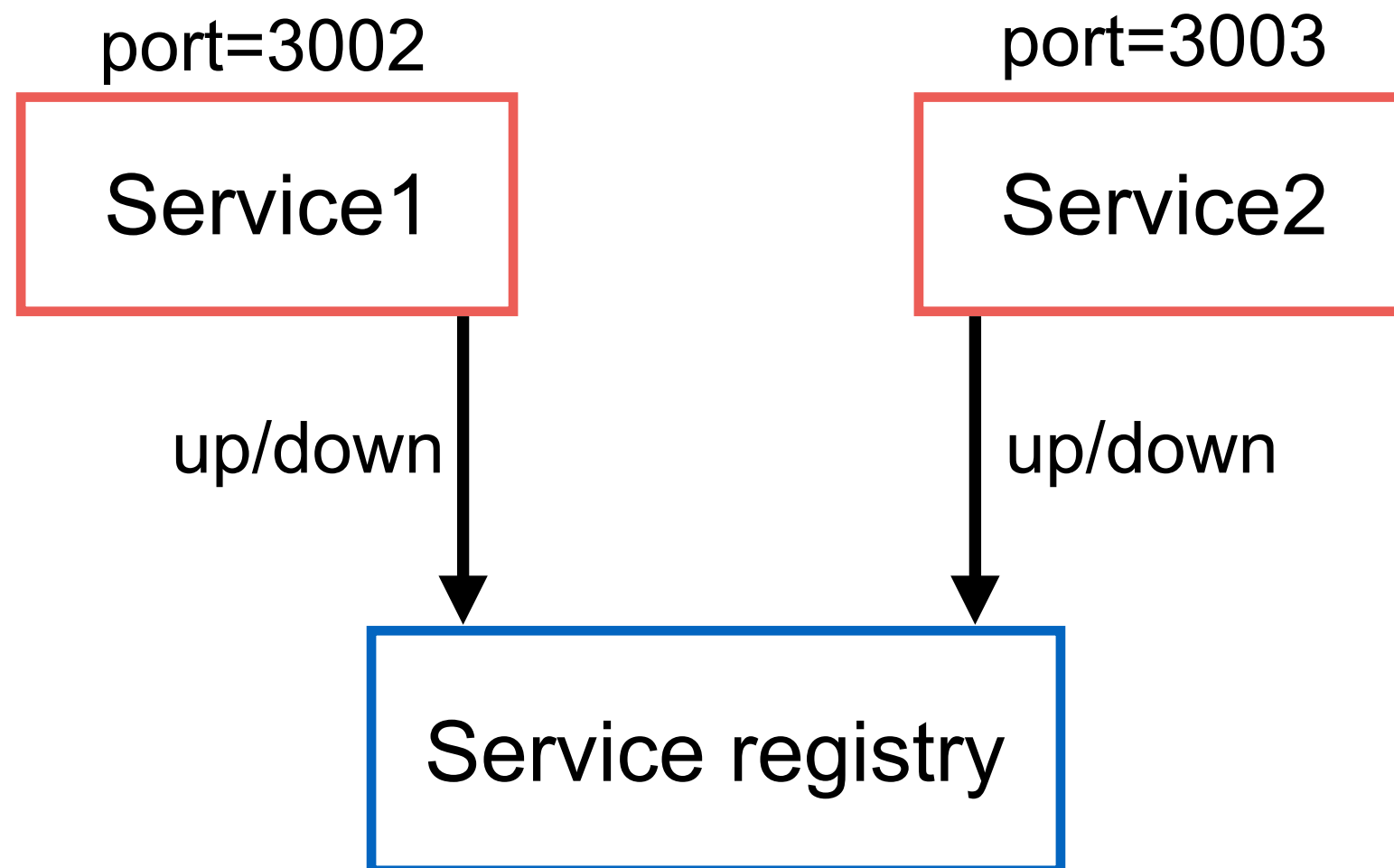
Database to keep data of services

How to register services ?

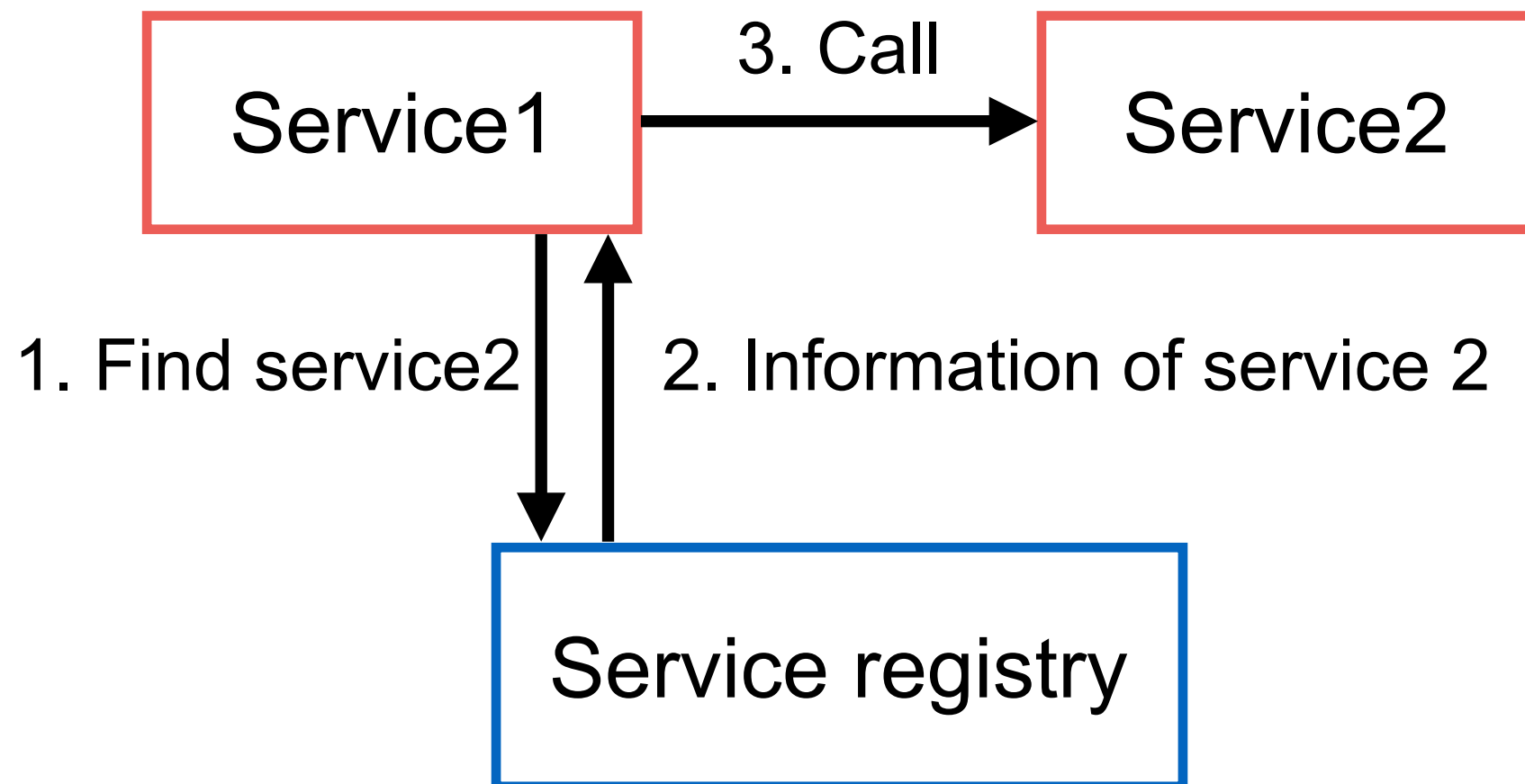
How to discover services ?



1. Service register



2. Service Discovery

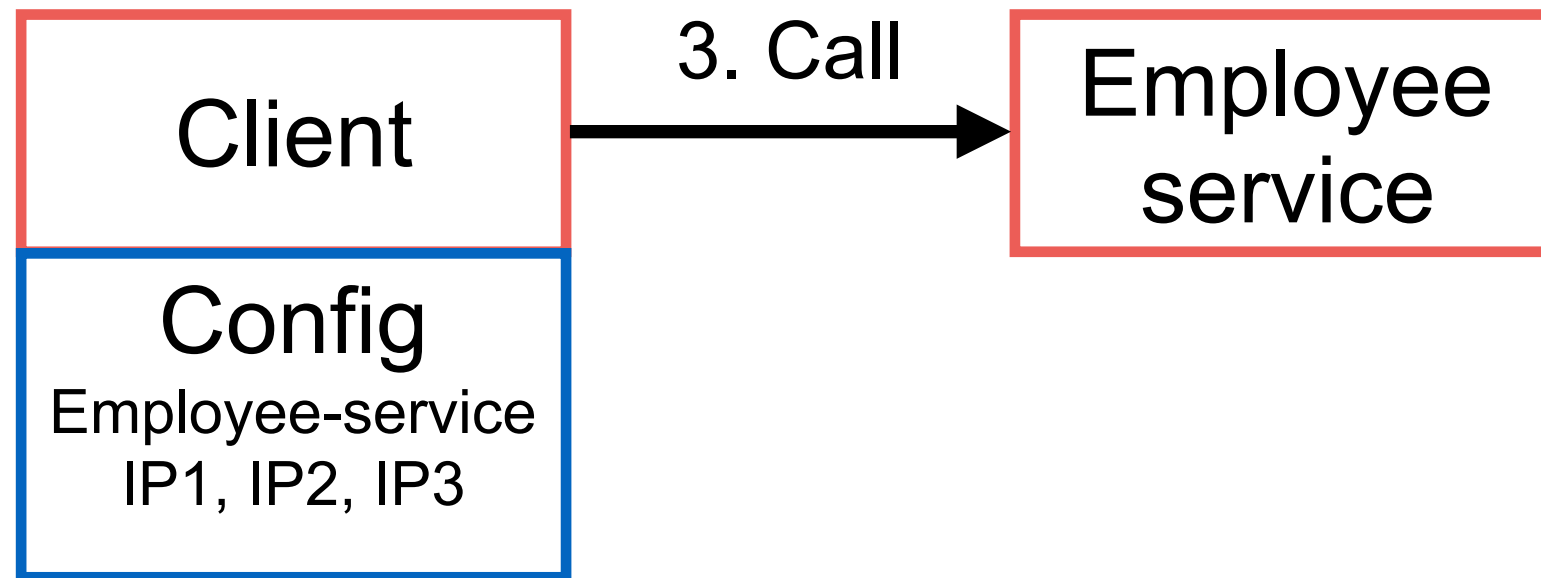


Service Registry

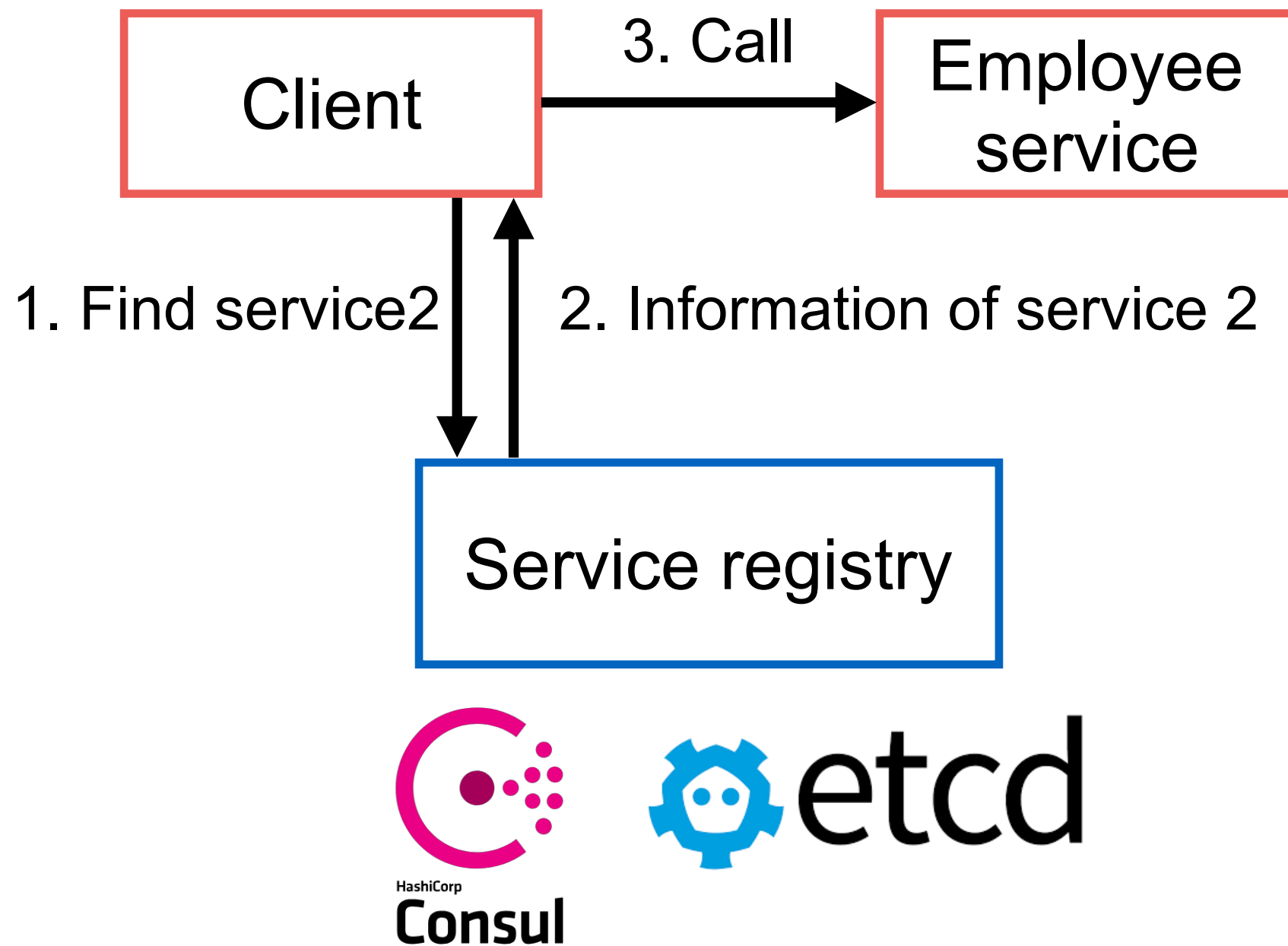
Client-side
Server-side



Client-side



Server-side

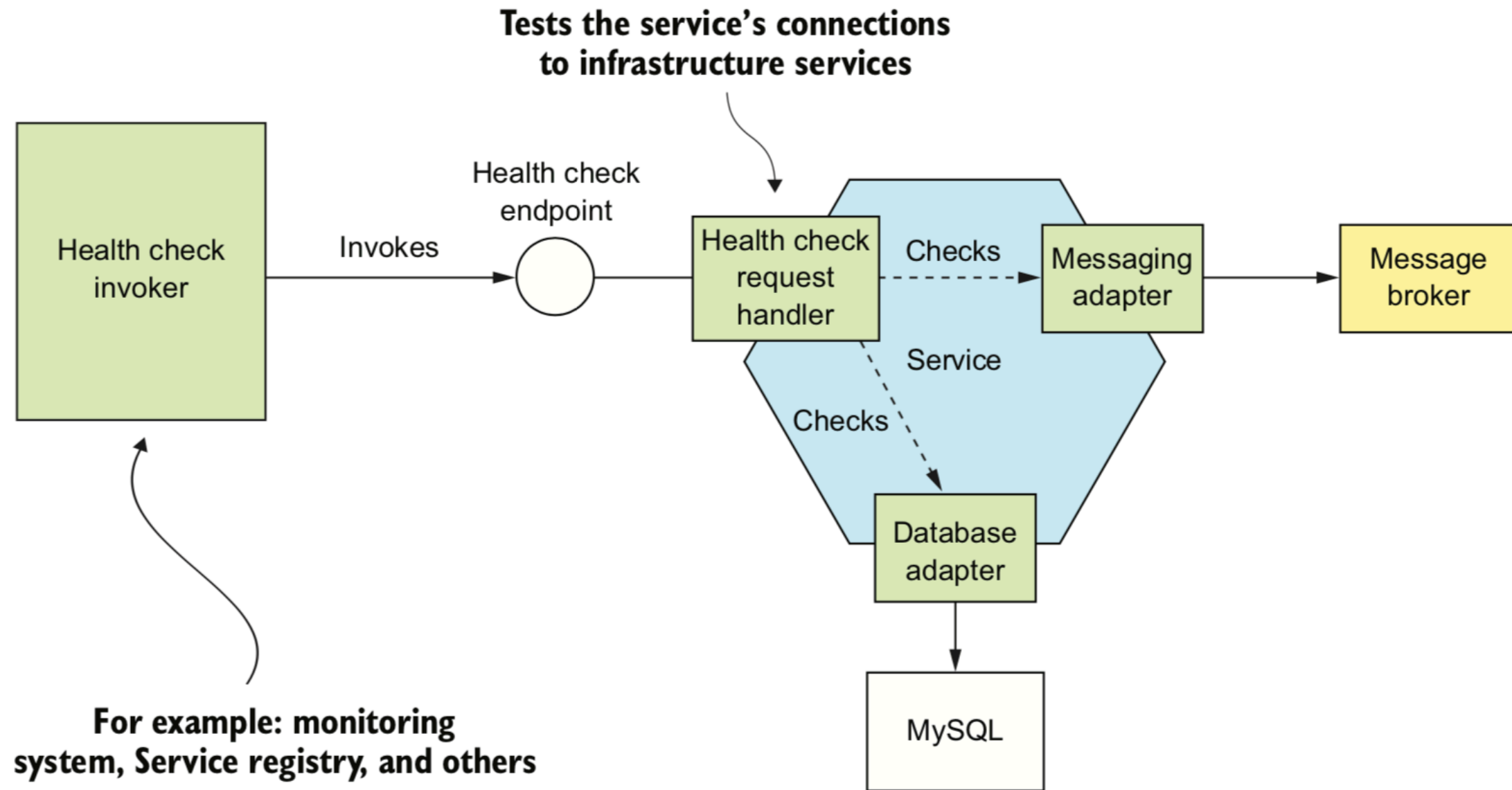


Health check API

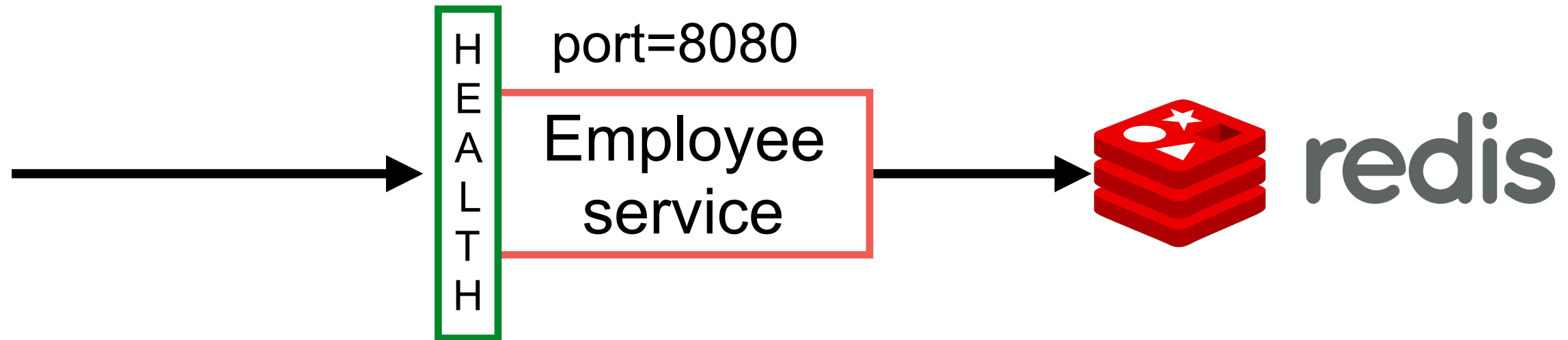
04-health-check



Health check API



Health check API

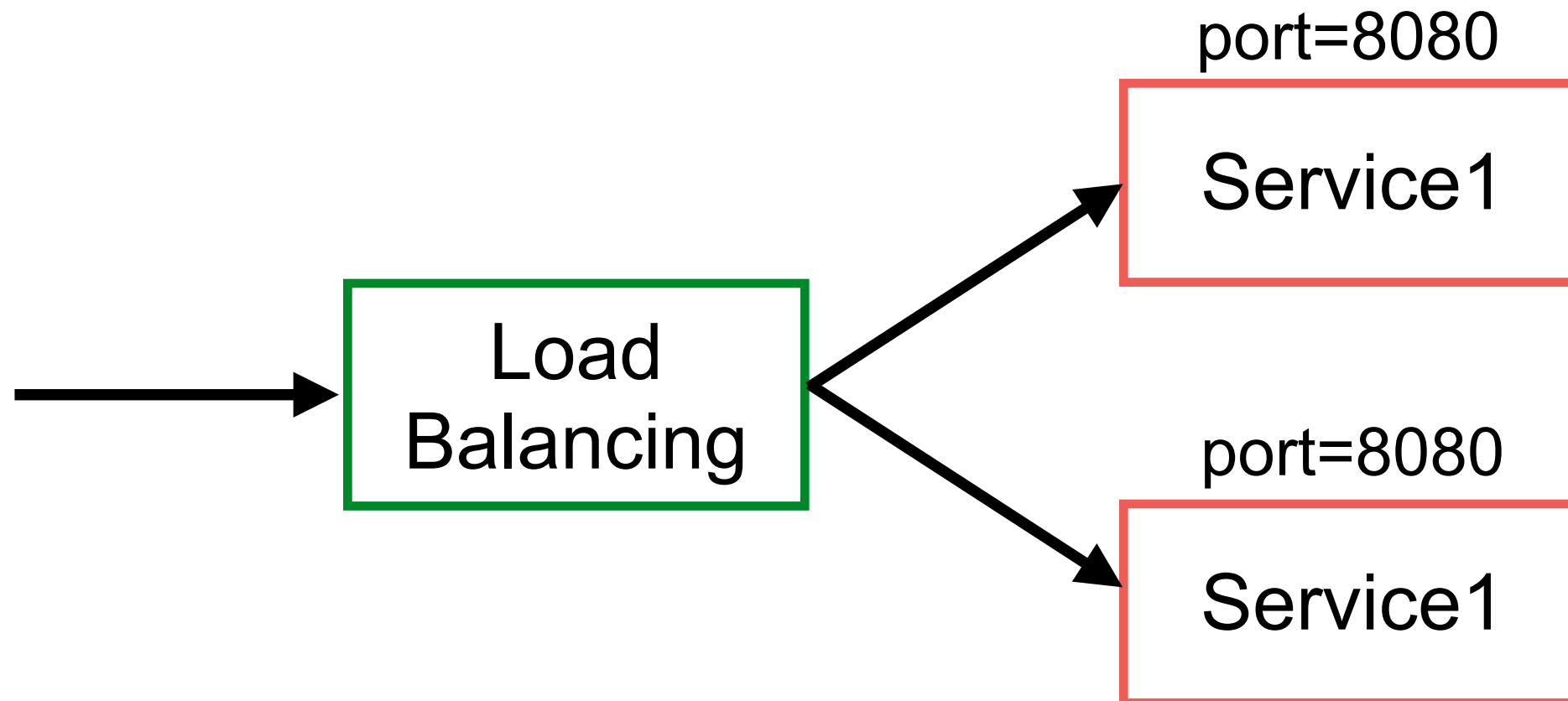


Load Balancing

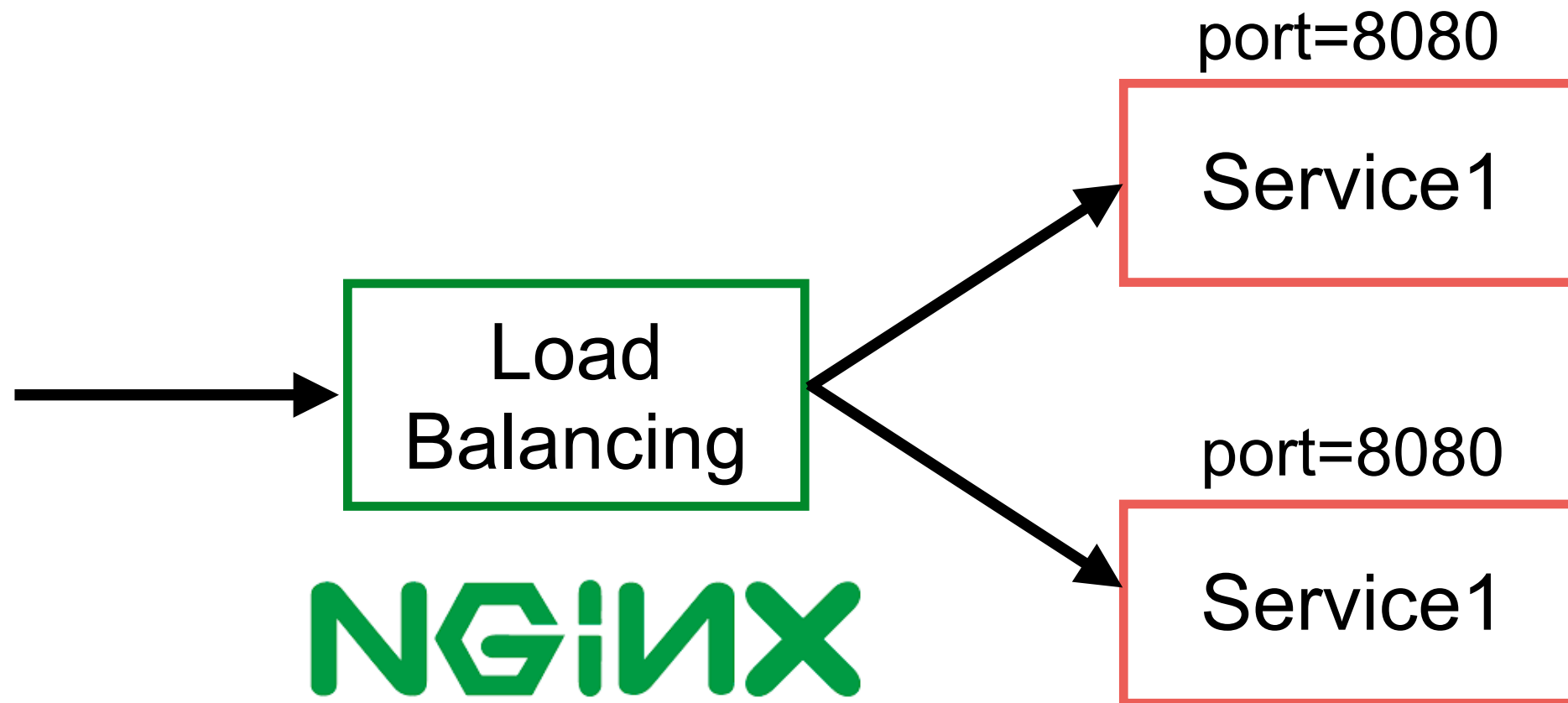
05-load-balancing



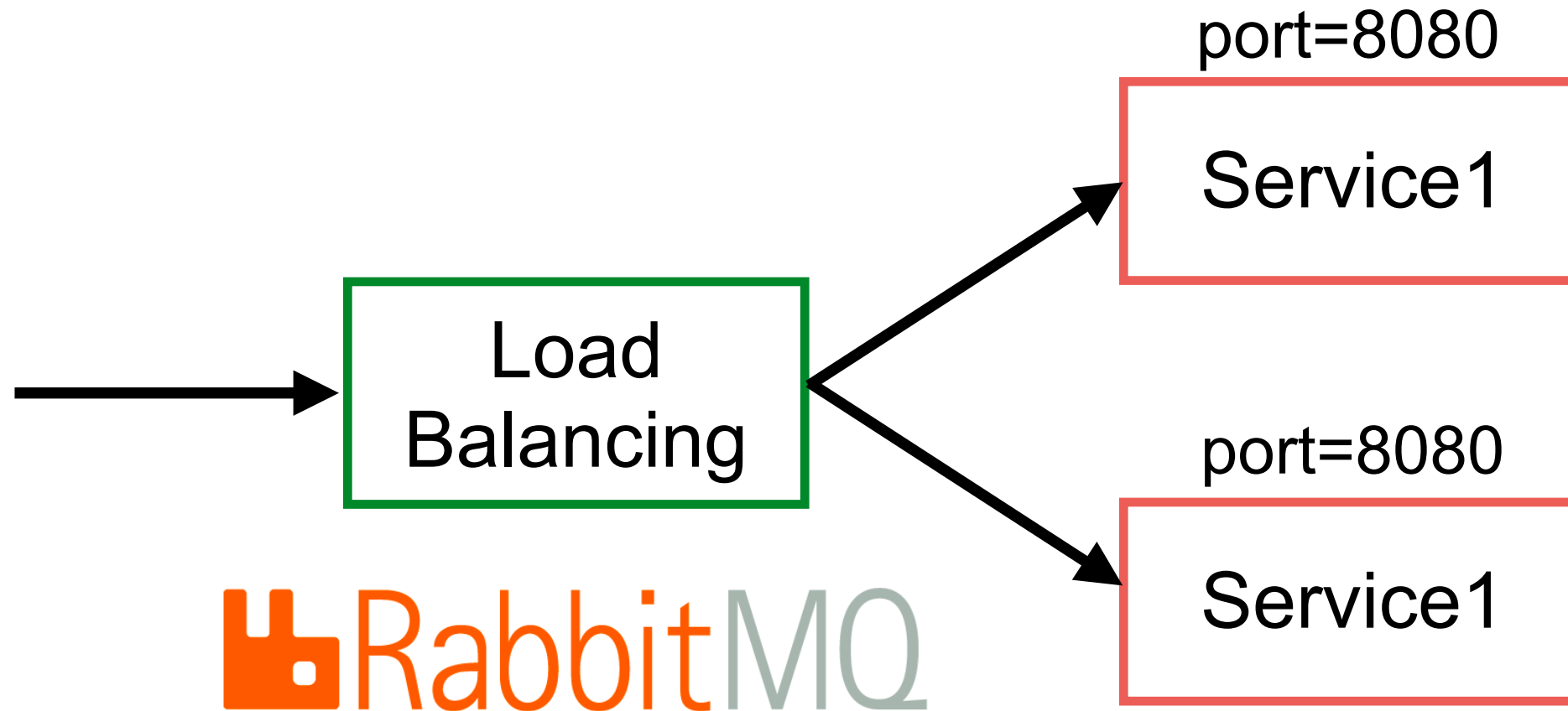
Load Balancing



Nginx



Messaging

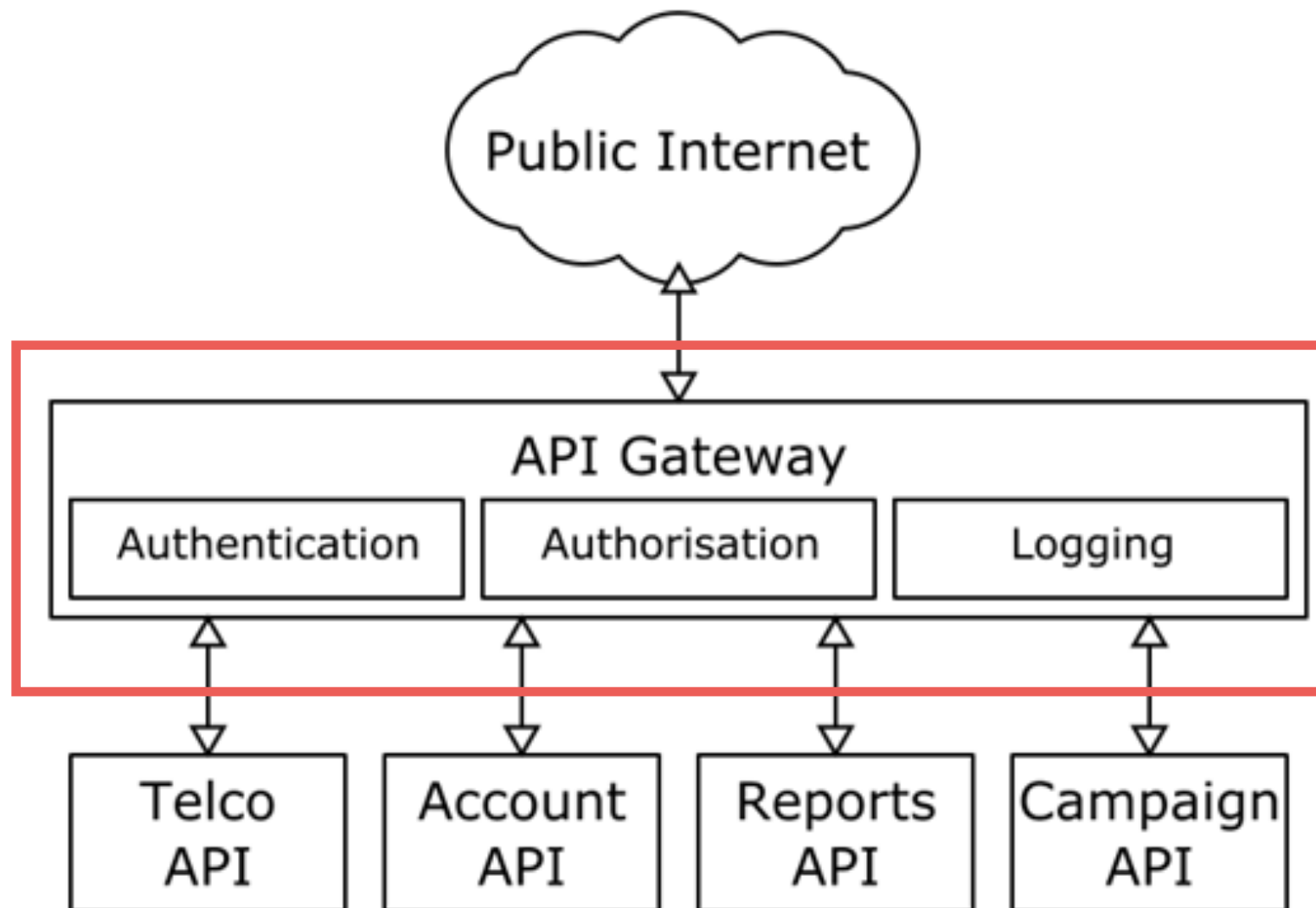


API gateway

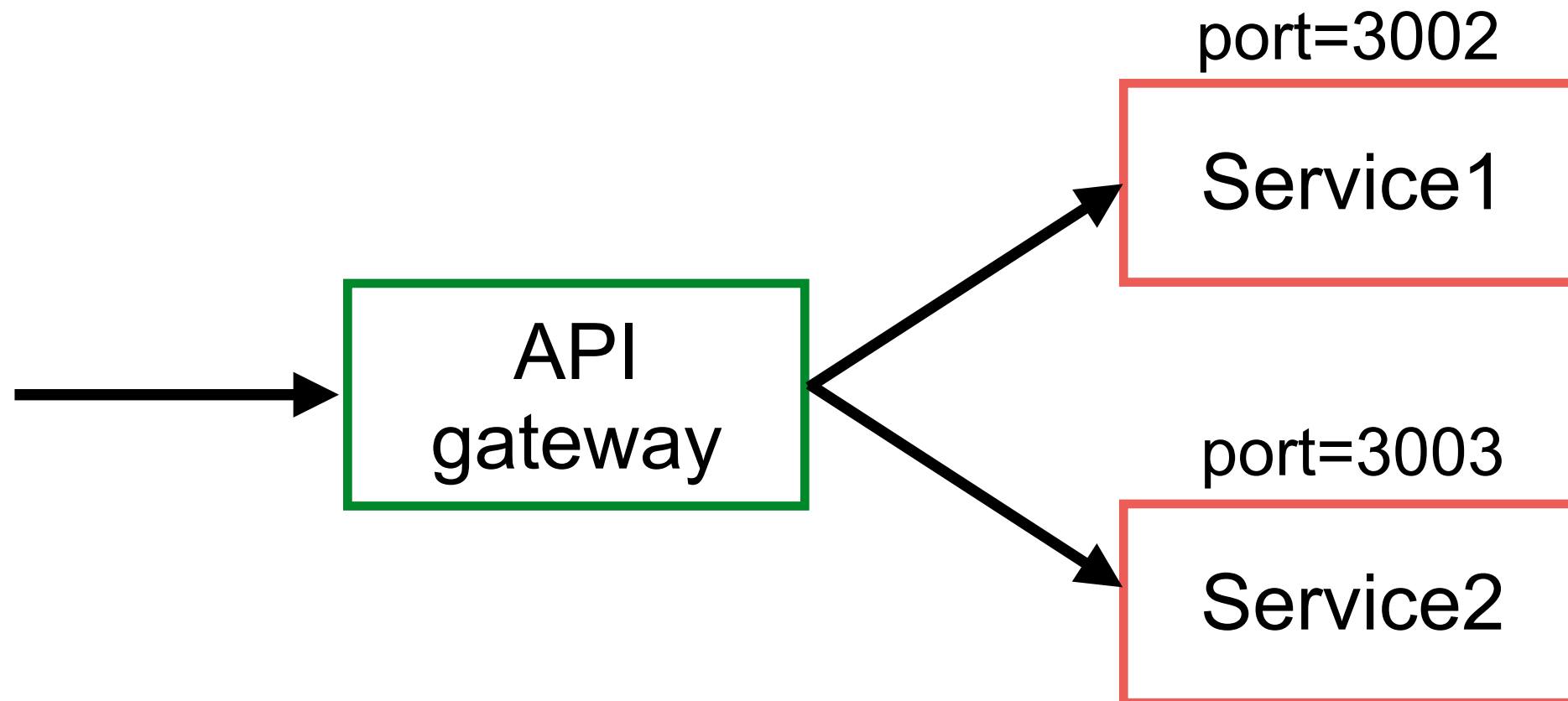
06-api-gateway



API gateway



API gateway

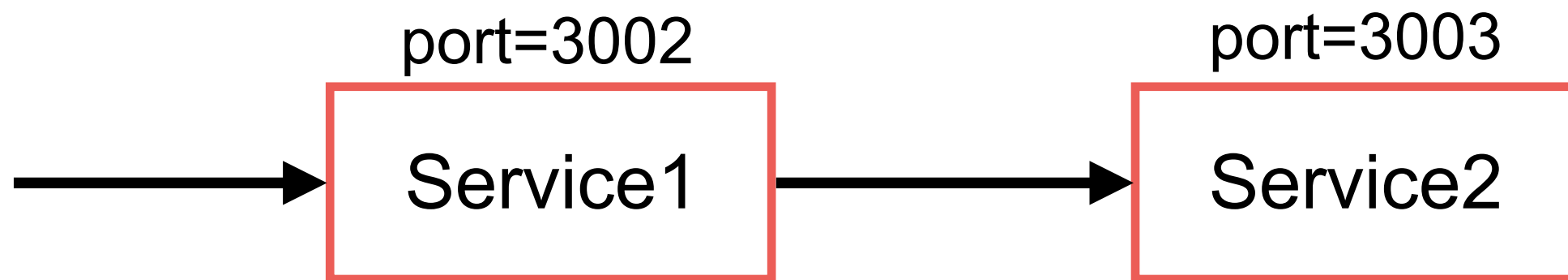


Distributed tracing

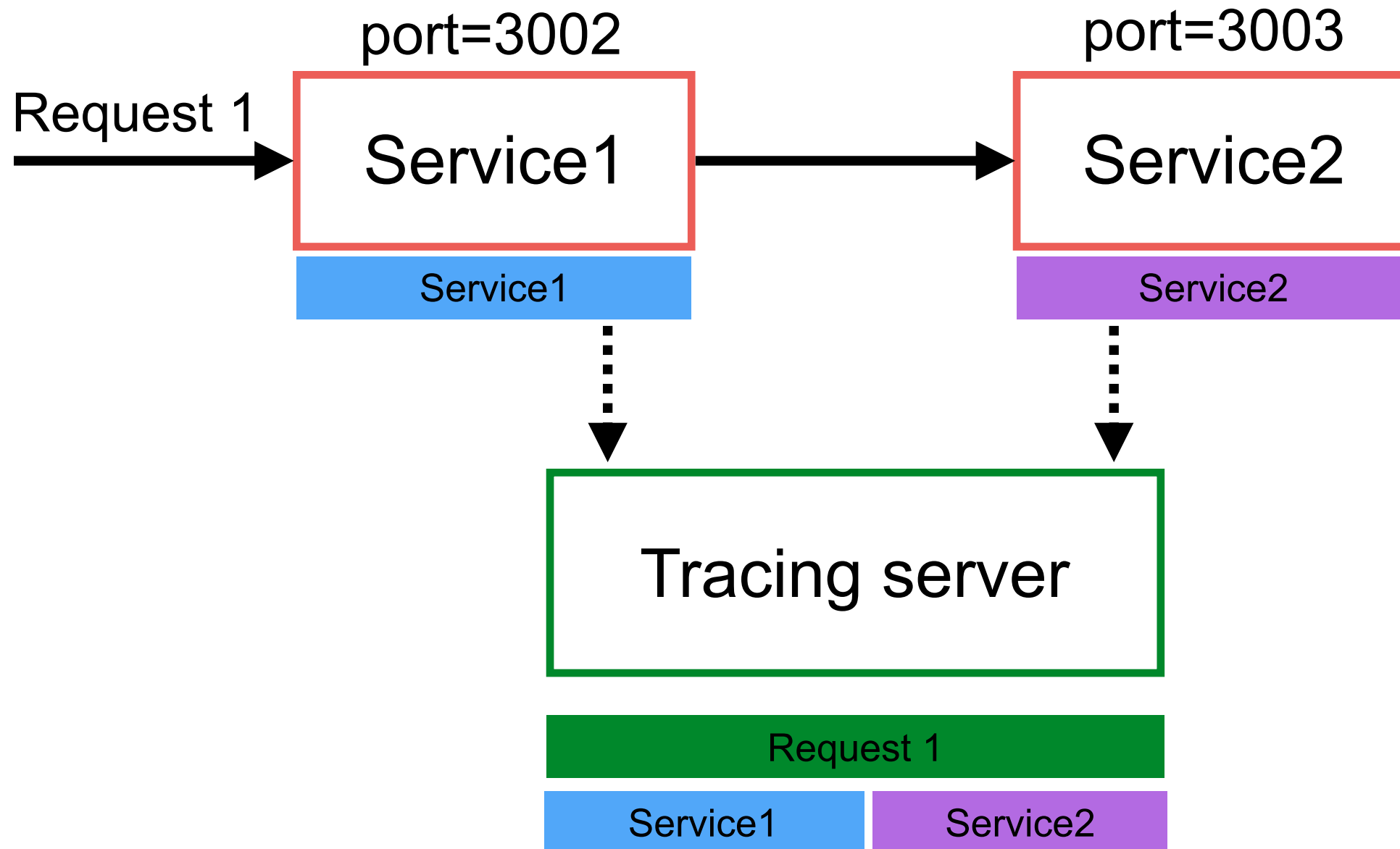
07-tracing



Communication between services



Distributed tracing



Jaeger dashboard

http://localhost:16686

Jaeger UI

Lookup by Trace ID...

Search

Compare

Dependencies

About Jaeger ▾

Find Traces

Service (0)

Select A Service ▾

Operation (0)

all ▾

Tags ?

http.status_code=200 error=true

Lookback

Last Hour ▾

Min Duration

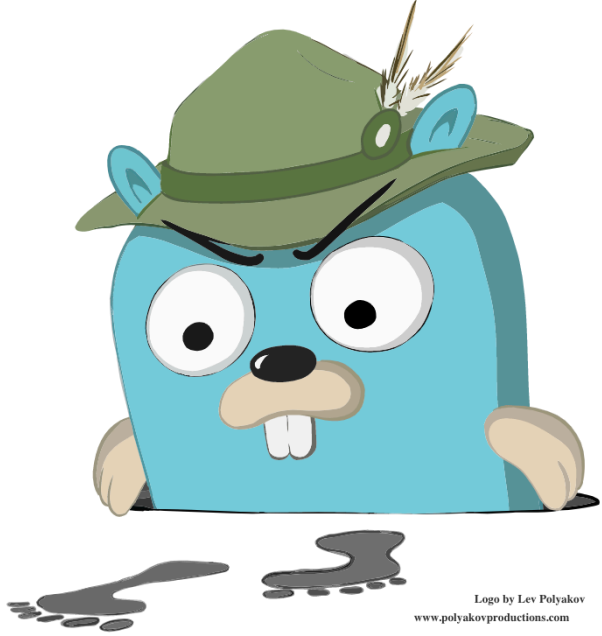
e.g. 1.2s, 100ms, 500us

Max Duration

e.g. 1.1s

Limit Results

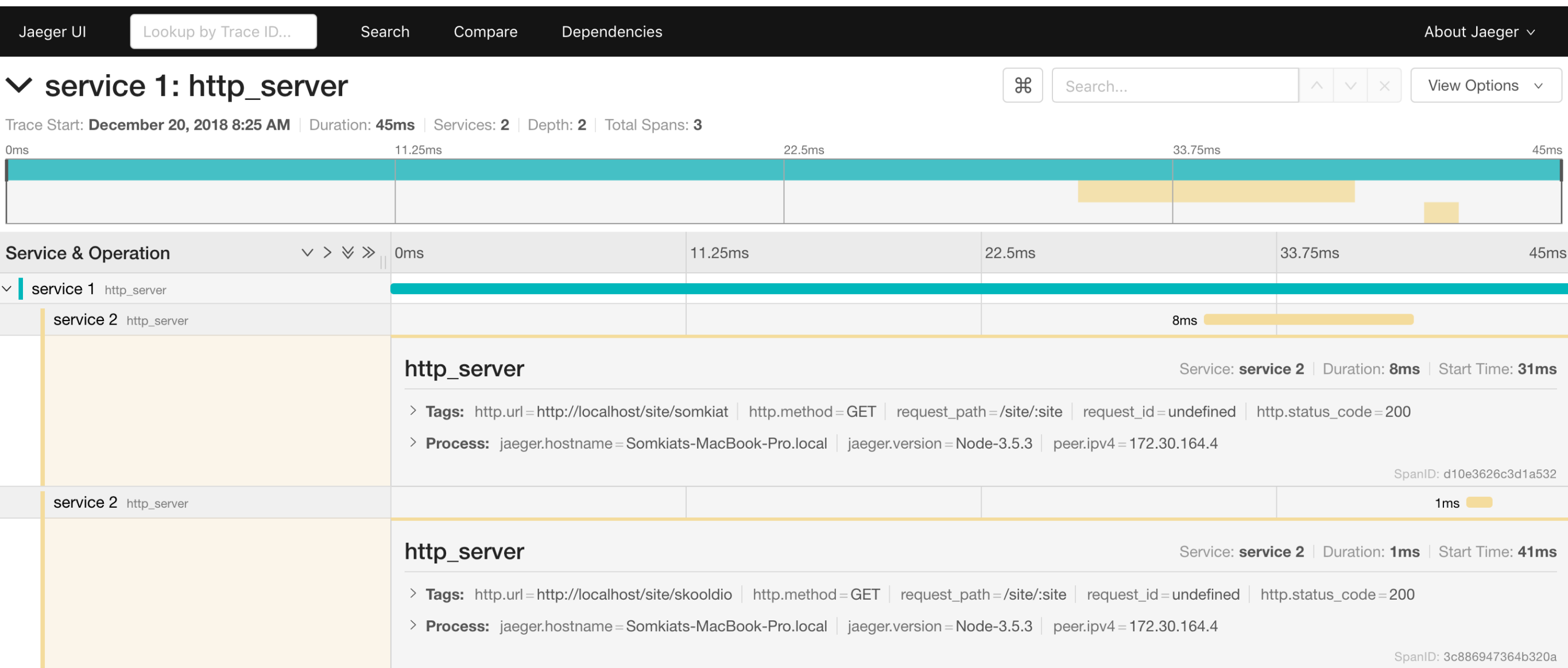
20



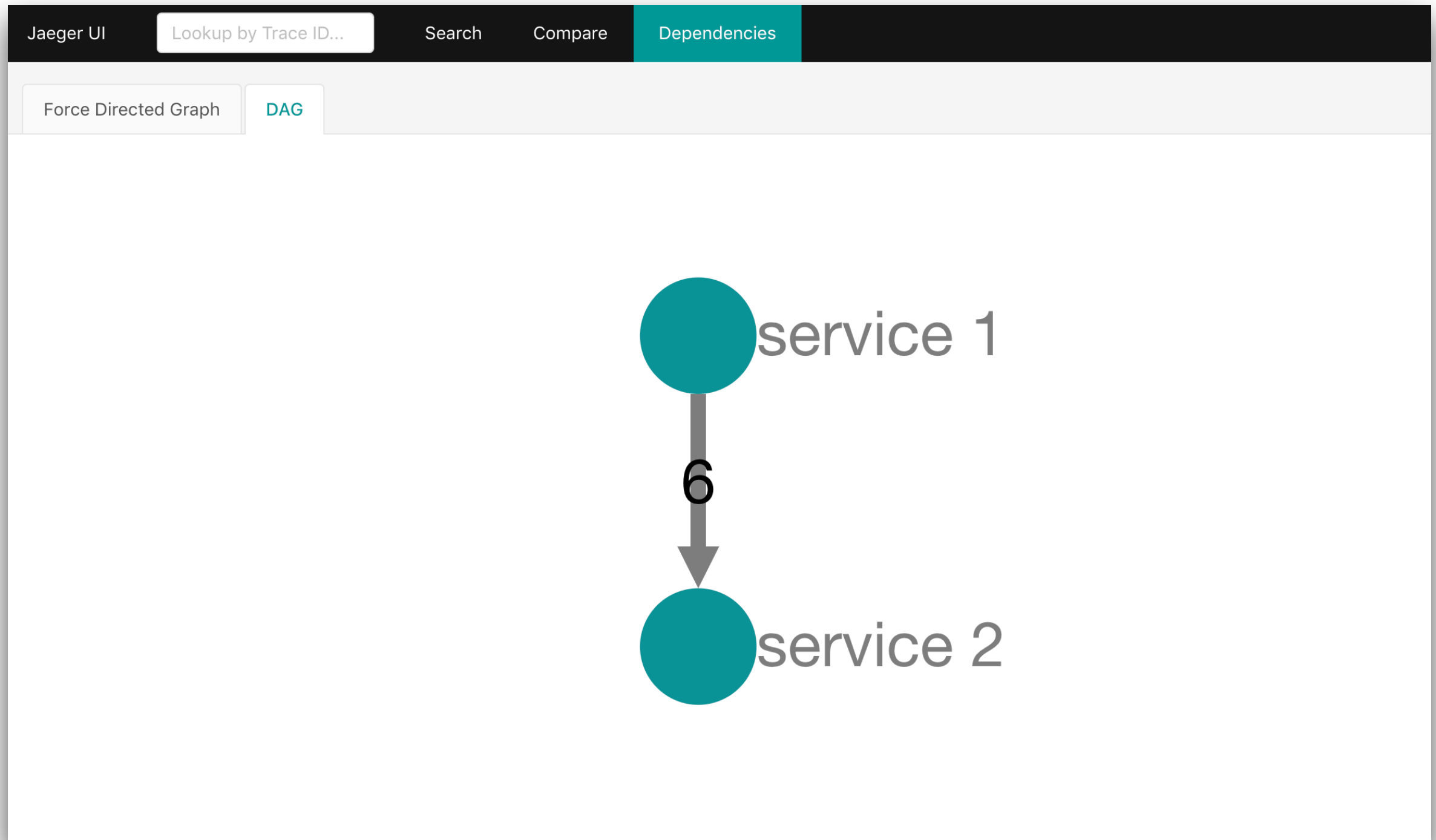
Logo by Lev Polyakov
www.polyakovproductions.com



See detail in each request



Dependencies of services

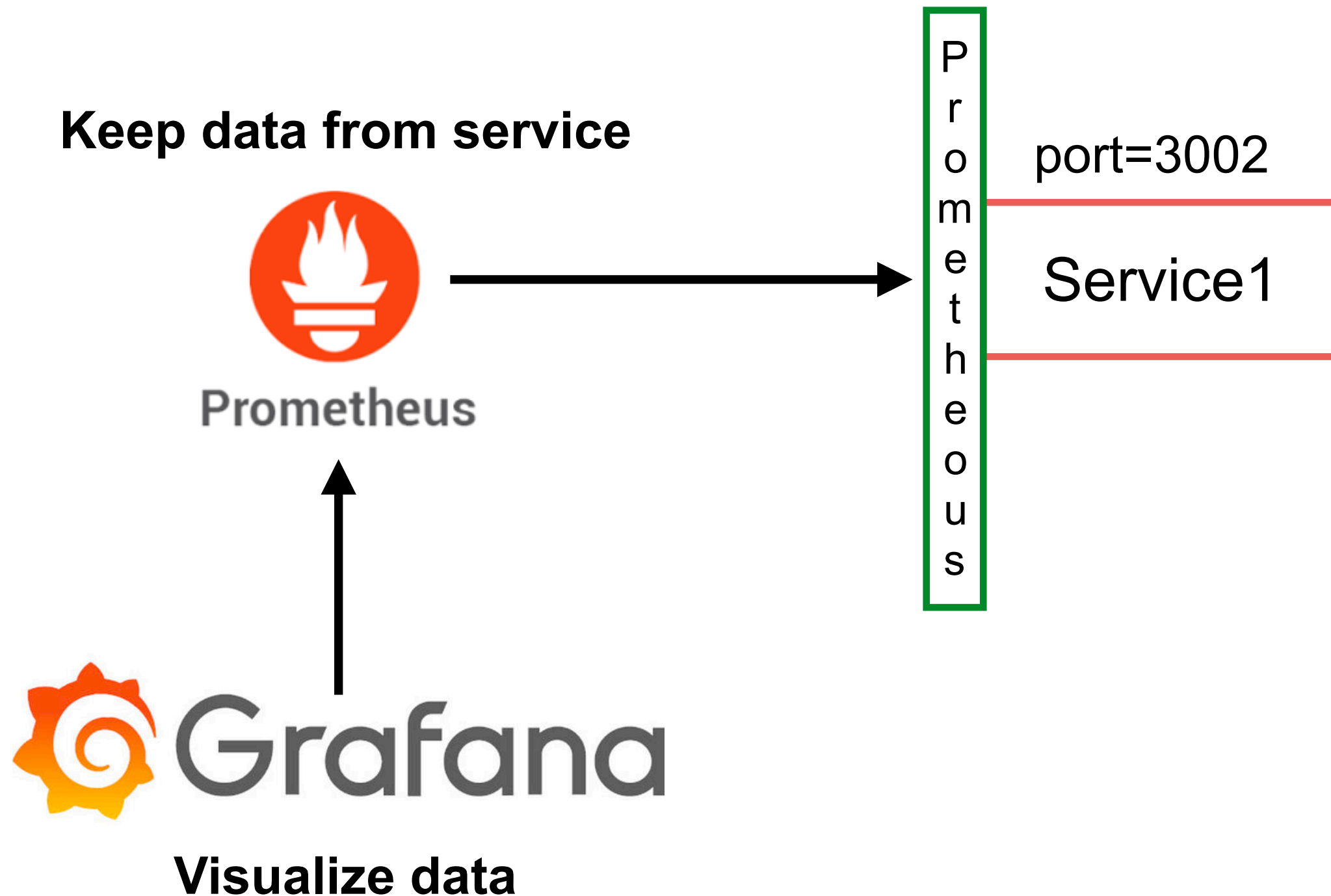


Monitoring

Xxxx



Monitoring with Prometheus



Logging

Xxxx

