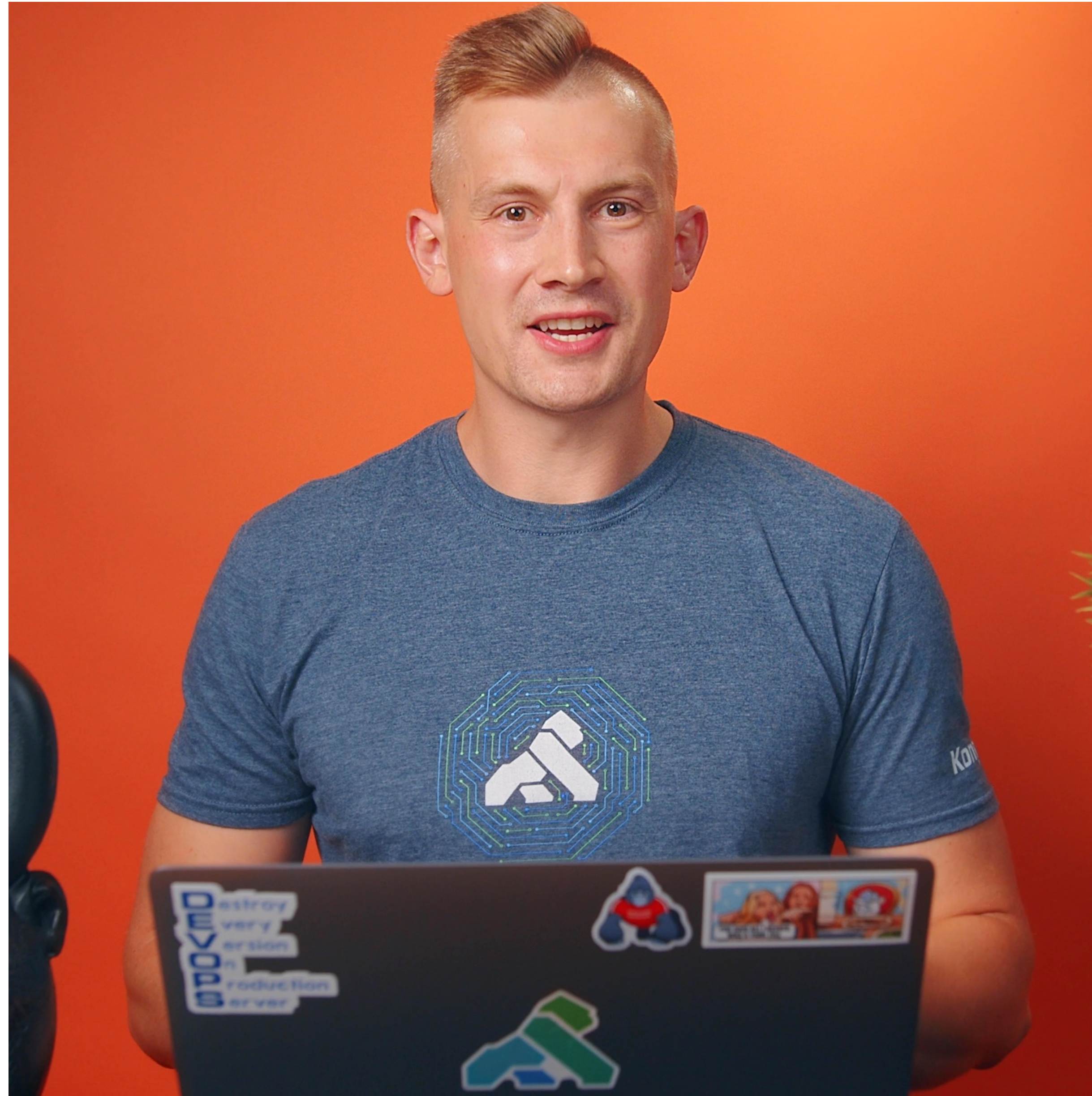


Serverless Kotlin and Apache Kafka®

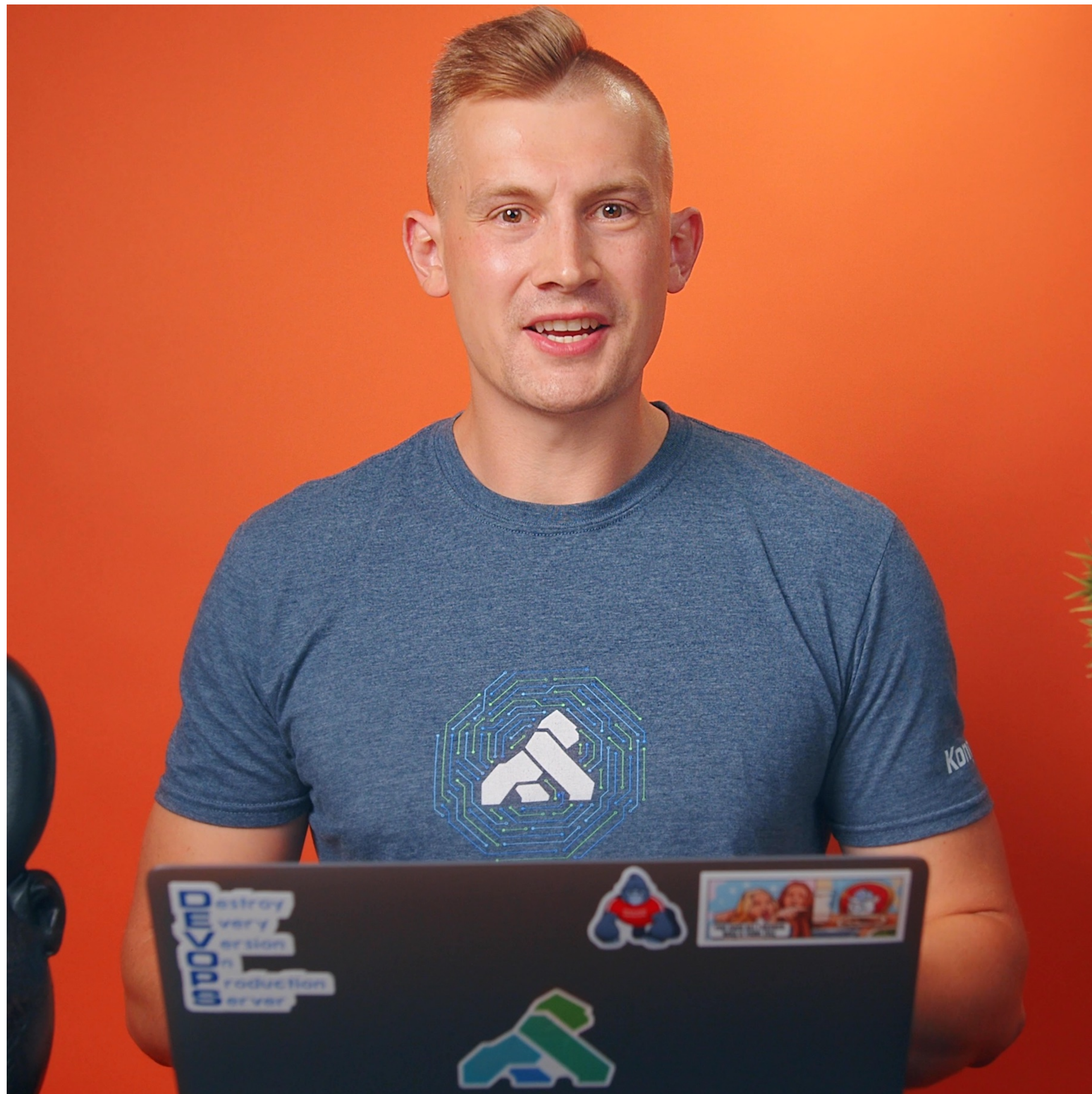
| Viktor Gamov | @gamussa
| August 2021

What's Serverless

OH: It's just someone's else computer ©



@gamussa | @thekonginc



★ gamov.dev/twitter

★ gamov.dev/telegram

★ gamov.dev/youtube

@gamussa | @thekonginc

Kafka IN ACTION

Dylan D. Scott
Viktor Gamov
Dave Klein

MEAP

 MANNING



@gamussa | @thekonginc

Kafka IN ACTION

Dylan D. Scott
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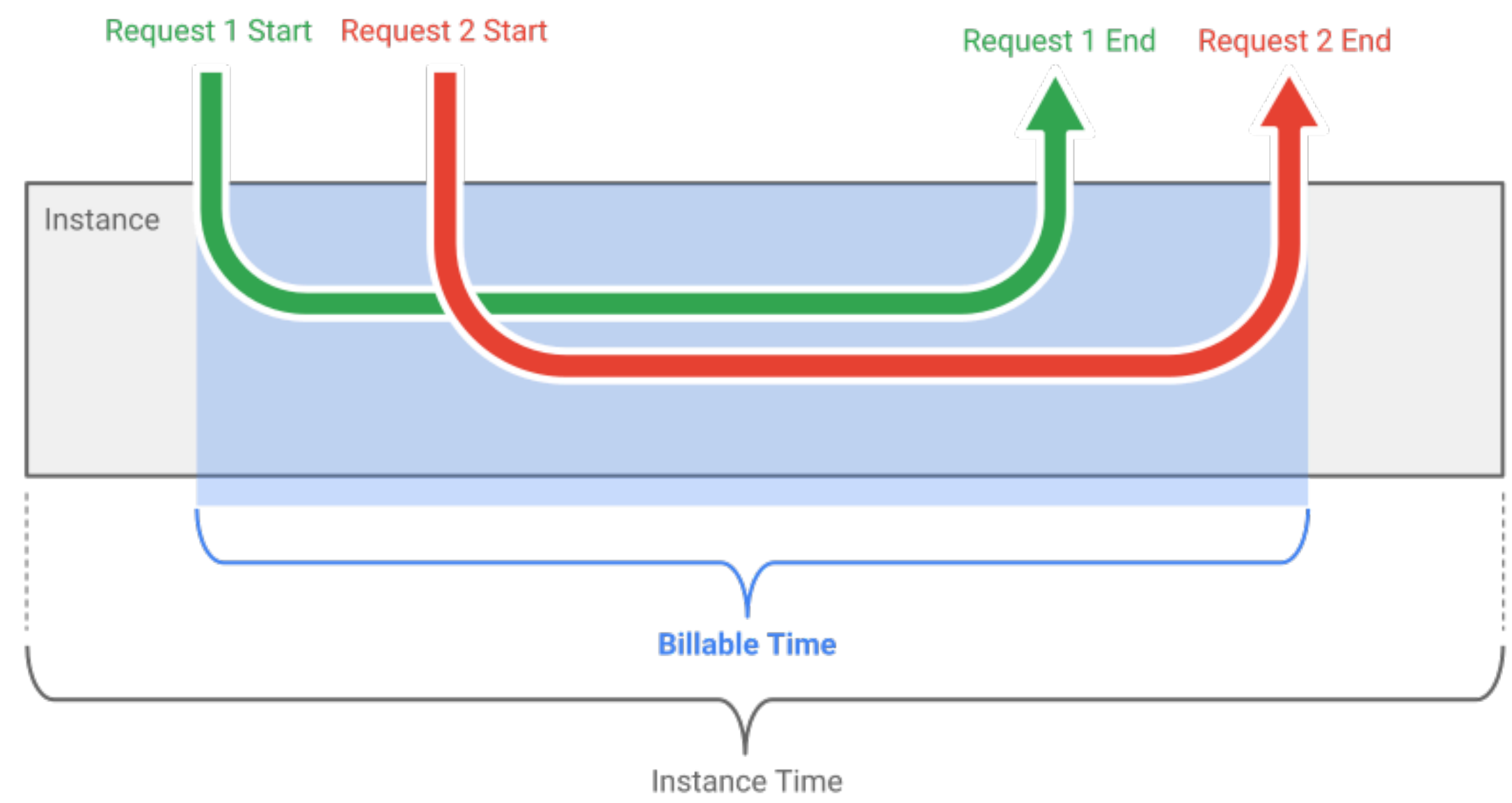
★ kafkainaction.org

★ Use code **kafkaa35**

★ Release - Fall 2021

@gamussa | @thekonginc

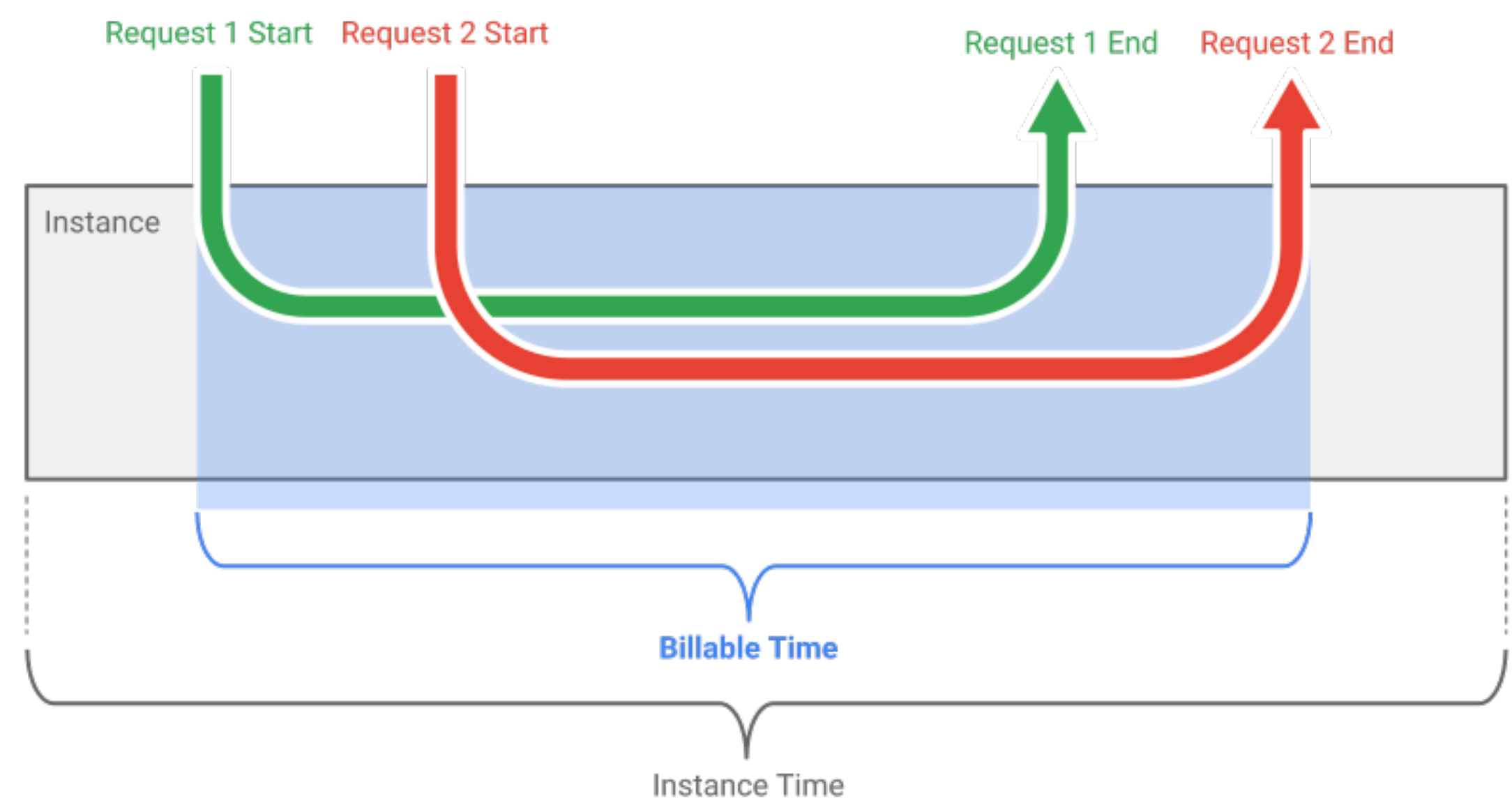
Serverless = Demand-Driven Infrastructure



Dimension	Unit of measure
Ingress	Cost per GB
Egress	Cost per GB
Storage	Cost per GB
Partitions	Cost per partition per hour (Effective July 1, 2020)

Serverless = Demand-Driven Infrastructure

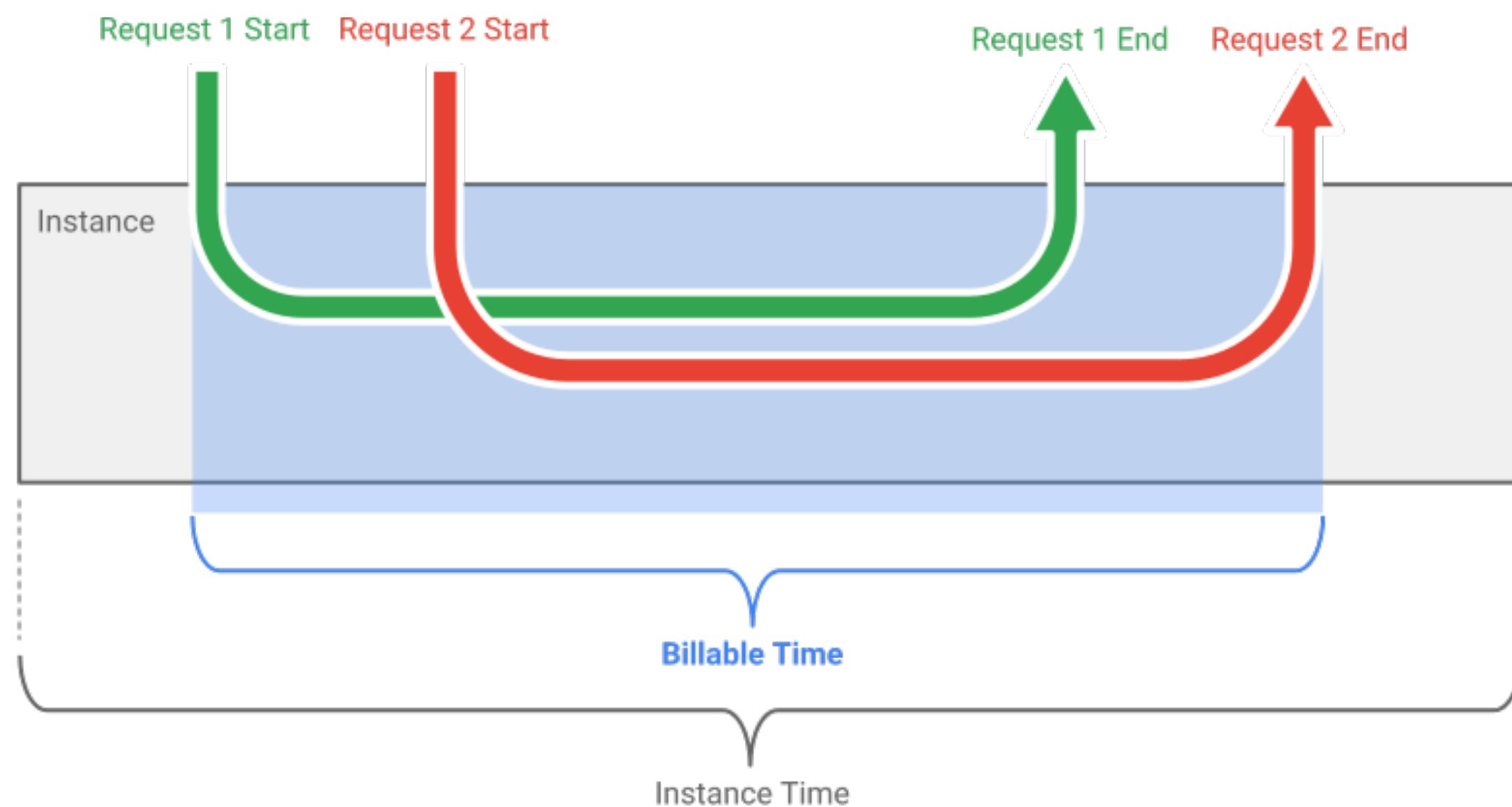
- Operational Model for Cloud Native / 12 Factor



Dimension	Unit of measure
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Serverless = Demand-Driven Infrastructure

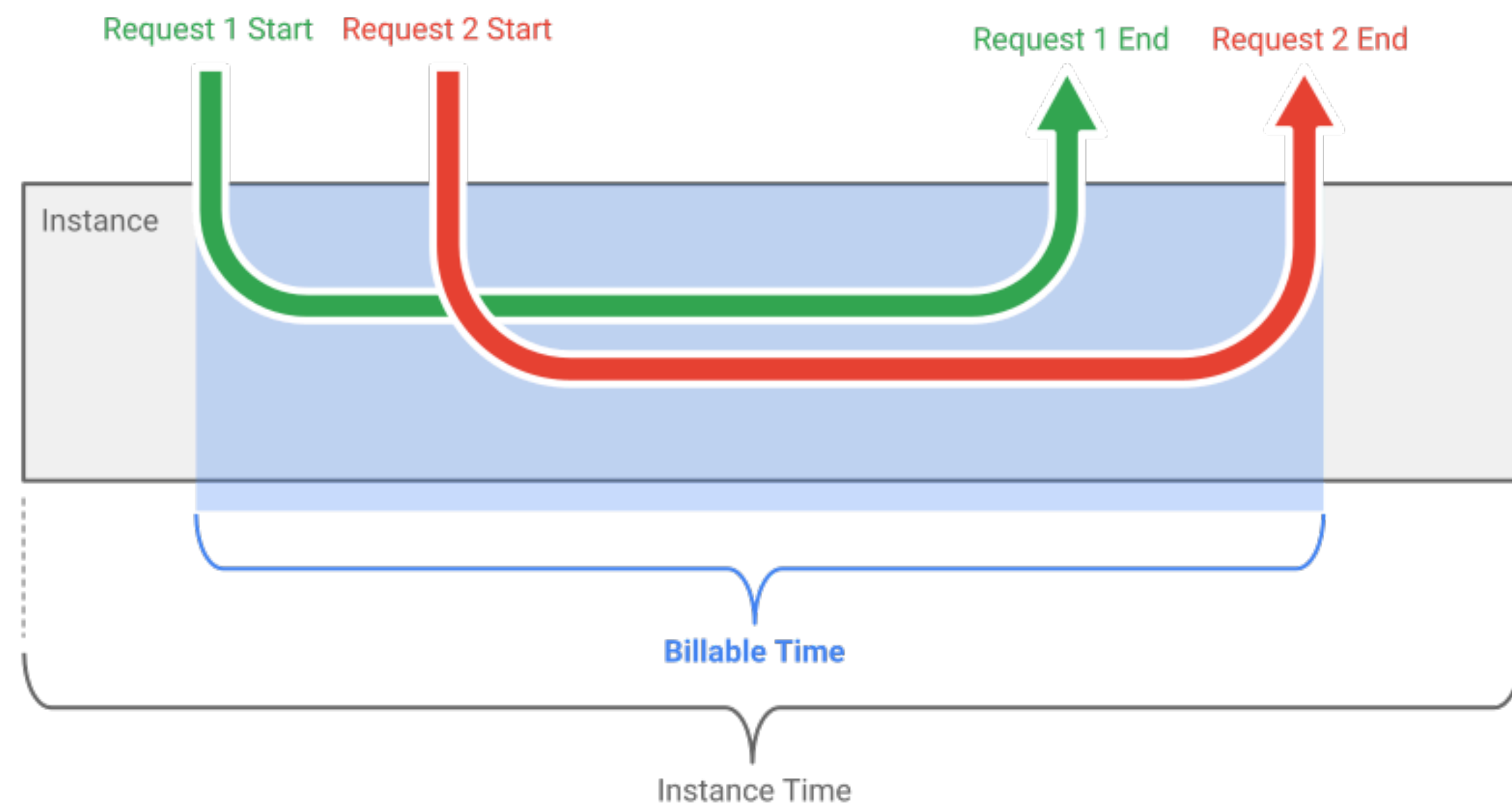
- Operational Model for Cloud Native / 12 Factor
- Cloud: Pay for what you use



Dimension	Unit of measure
Ingress	Cost per GB
Egress	Cost per GB
Storage	Cost per GB
Partitions	Cost per partition per hour (Effective July 1, 2020)

Serverless = Demand-Driven Infrastructure

- Operational Model for Cloud Native / 12 Factor
- Cloud: Pay for what you use
- On-Prem: Return unused resources to a "trough" for...



Dimension	Unit of measure
Ingress	Cost per GB
Egress	Cost per GB
Storage	Cost per GB
Partitions	Cost per partition per hour (Effective July 1, 2020)

Portable Serverless



Portable Serverless

- Works on *my machine* and yours and CI
(Testcontainers)



Portable Serverless

- Works on *my machine* and yours and CI
(Testcontainers)
- Works on your *own infrastructure* (**Kubernetes**)



Portable Serverless

- Works on *my machine* and yours and CI (Testcontainers)
- Works on your *own infrastructure* (Kubernetes)
- Works on *managed* serverless clouds (**Cloud Run, Confluent Cloud**)



Goal: Stackoverflow Question Stream Processor

Question Stream

Transform

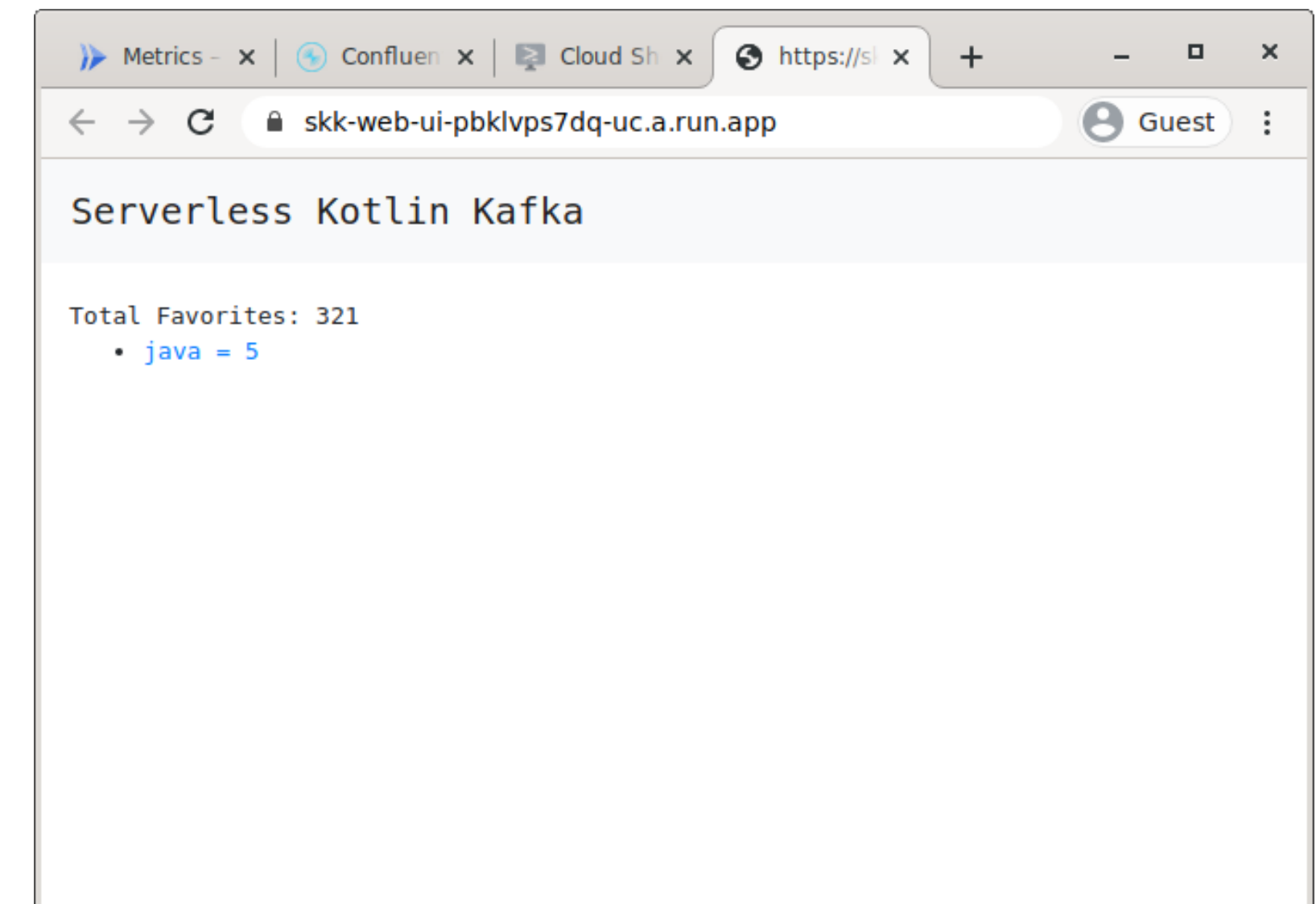
Stream Viewer

stackoverflow-to-ws-x5ht4amjia-uc.a.run.app

```
{  
  "url": URL,  
  "title": String,  
  "body": String,  
  "favorite_count": Int,  
  "view_count": Int,  
  "tags": Array<String>  
}
```

SUM(favorite_count)

COUNT(tag)





Tools we use

- gcloud
- ccloud
- jq
- Spring Boot

<https://gamov.dev/serverless-kotkaf>



@gamussa | @thekonginc

<https://gamov.dev/kong-krakow>

AUGUST 26, 2021

POLAND MEETUP @ DEVOXX POLAND

Our 1st Meetup

Kubernetes Ingress
on Steroids

VIKTOR GAMOV

Principal Developer Advocate



@gamussa | @thekonginc

As Always
Have A Nice Day

Viktor Gamov

@gamussa | @thekonginc