



Serverless Kotlin and Apache Kafka®

with Google Cloud and Confluent Cloud

@gamussa

| @confluentinc

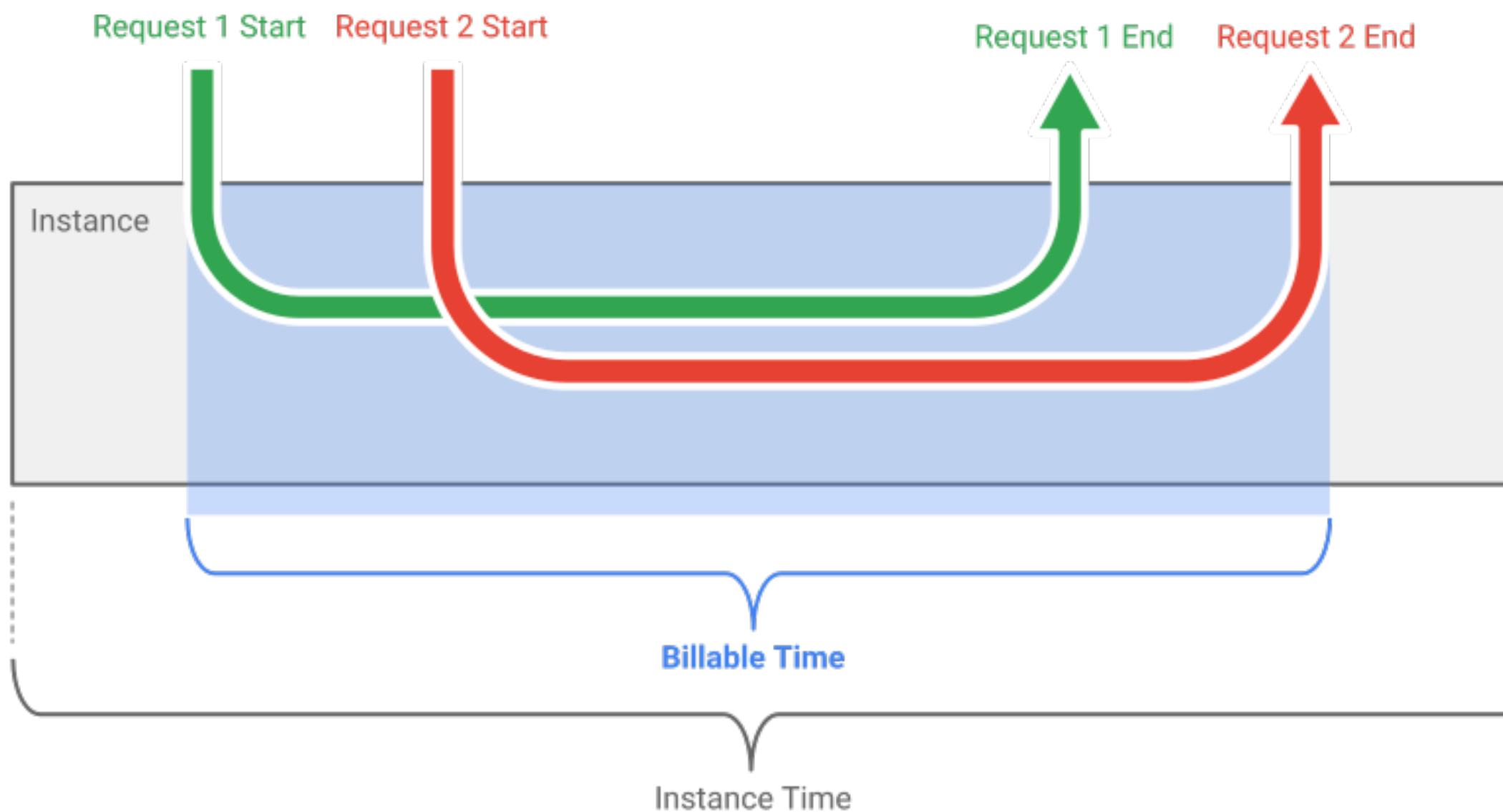
| <https://gamov.io>

What's Serverless

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

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

- 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

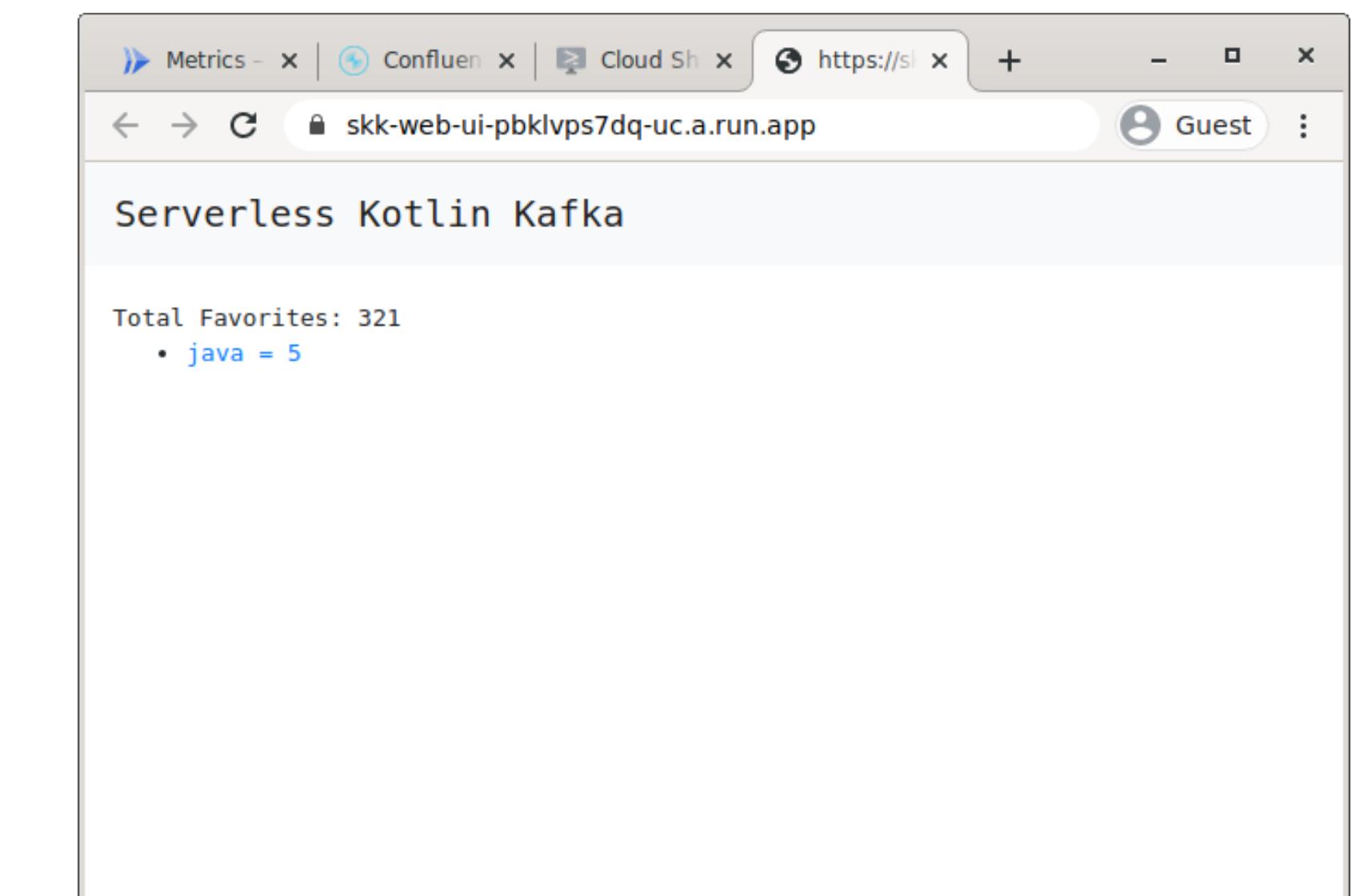
Stream Viewer

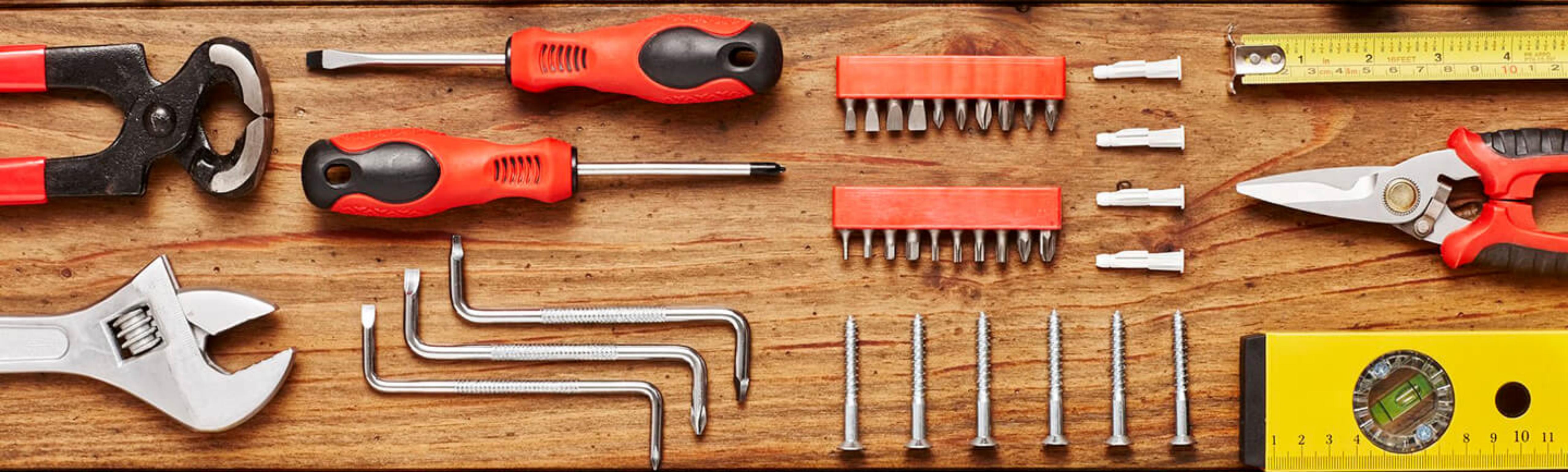
stackoverflow-to-ws-x5ht4amjia-uc.a.run.app

```
{  
    "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 | @confluentinc | #snowone

As Always
Have A Nice Day

Viktor Gamov