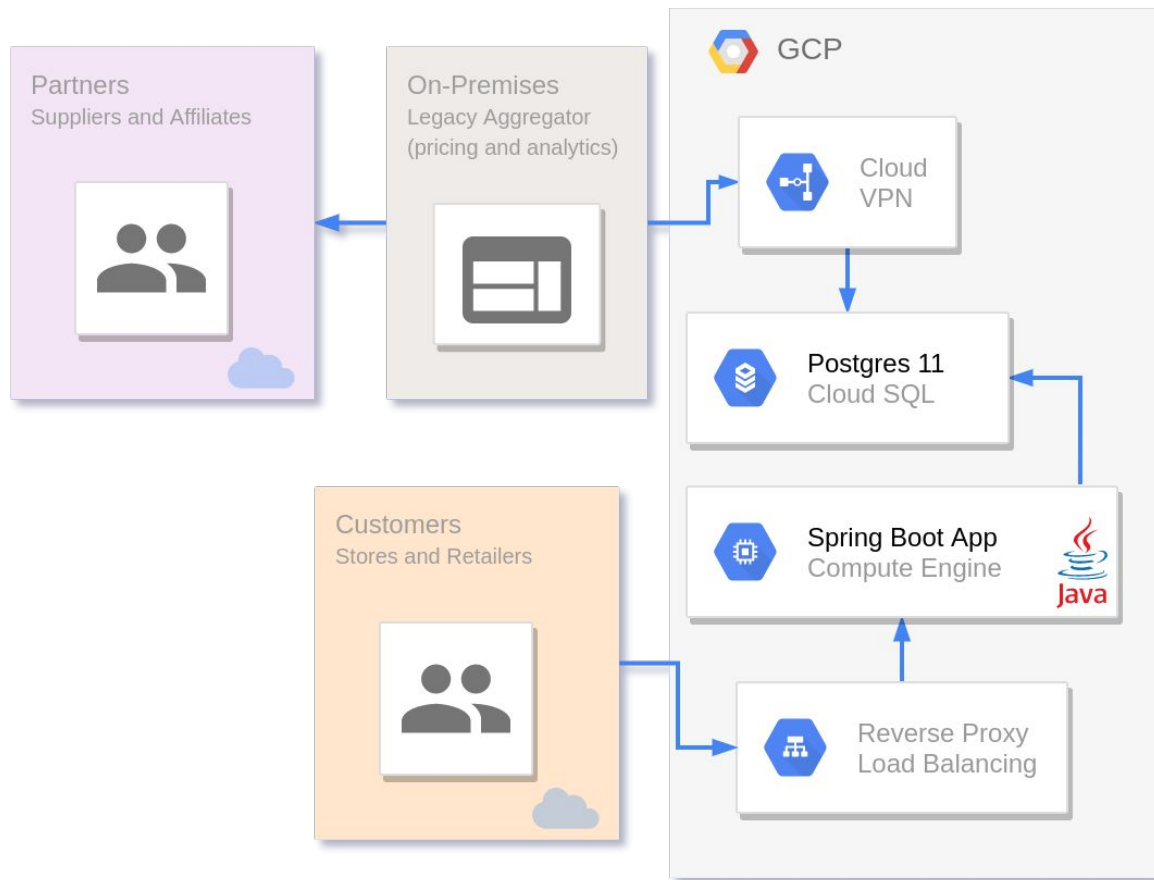

Modernize cloud infrastructure

Cangrejo SA

Requirements

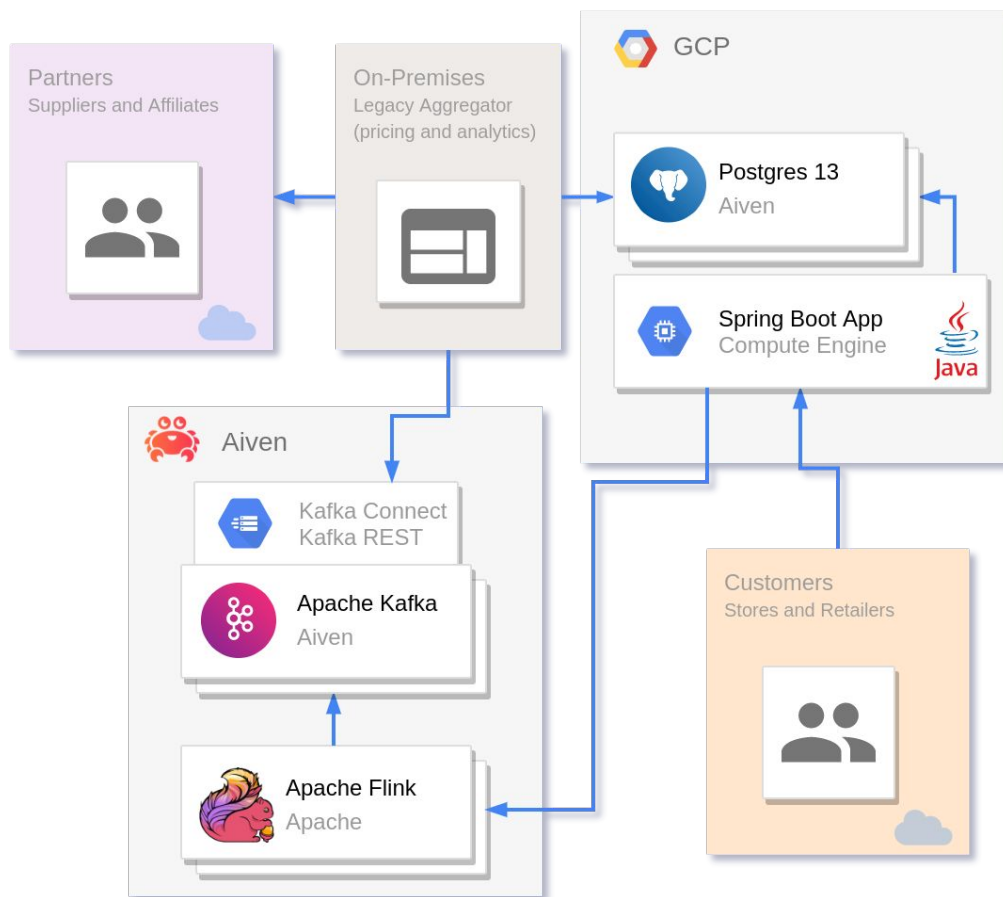
- Speed up slow pricing/analytics queries
- Update infrastructure to a more modern setup while still having existing system in place
- Prevent vendor lock-in
- Data security and GDPR compliance
- Integrate more with third parties

Current architecture



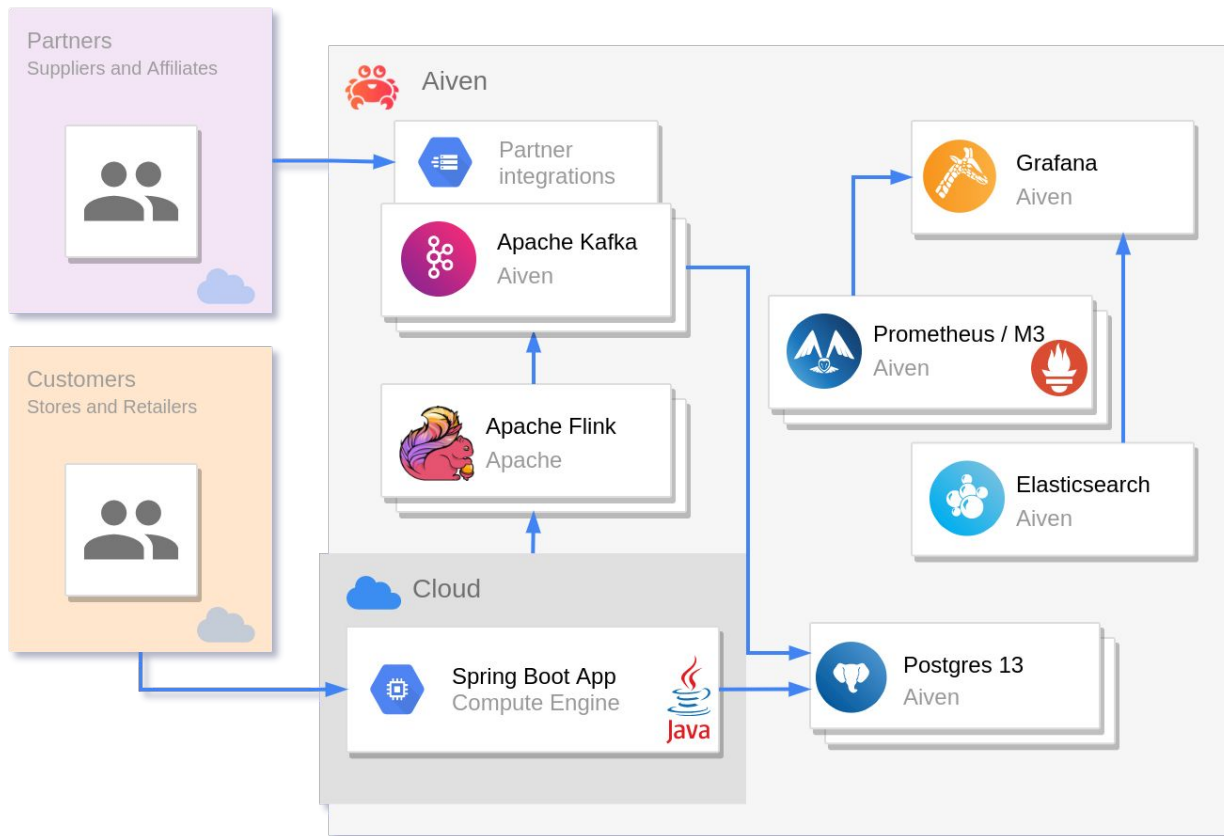
- GCP
- CloudSQL PG 11
- Spring Boot Web App
- on-prem daily updates
- 20 seconds queries

First stage - speed up queries



- Stream pricing and analytics data to Kafka
- Use Flink to process data in real-time
- Replace CloudSQL Postgres 11 with Aiven managed Postgres 13

Later stage



- Replace legacy software with modern integration APIs
- Monitoring and alerting
 - collect metrics with Prometheus/M3
 - implement Grafana dashboards
 - collect partners/customers and system logs to Elasticsearch
- Migrate from Puppet to Terraform or Ansible

—

All product and service names and icons used in this presentation are for identification purposes only