

Security future



API

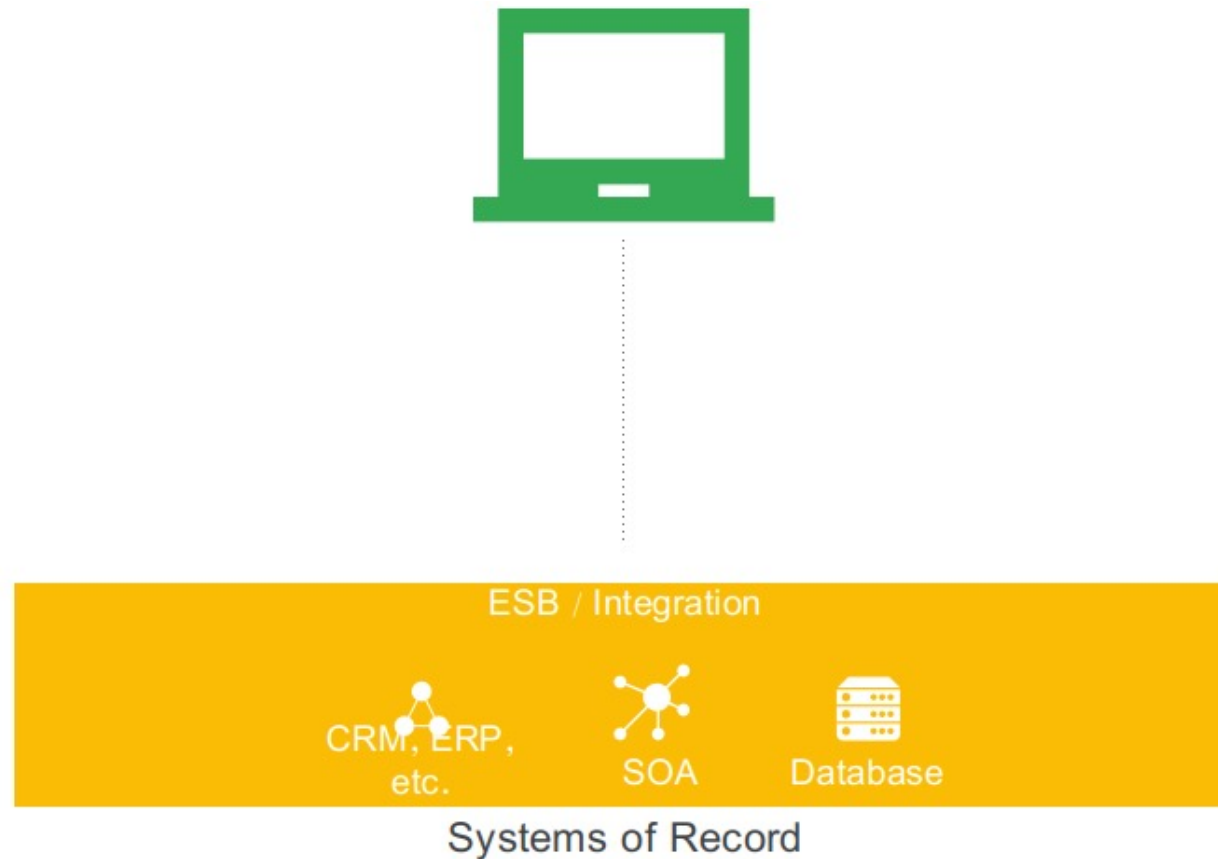
Auto scaling groups

API

Hybrid clouds

Early "API"

- ◆ This is how you exposed your resources back then



The gap

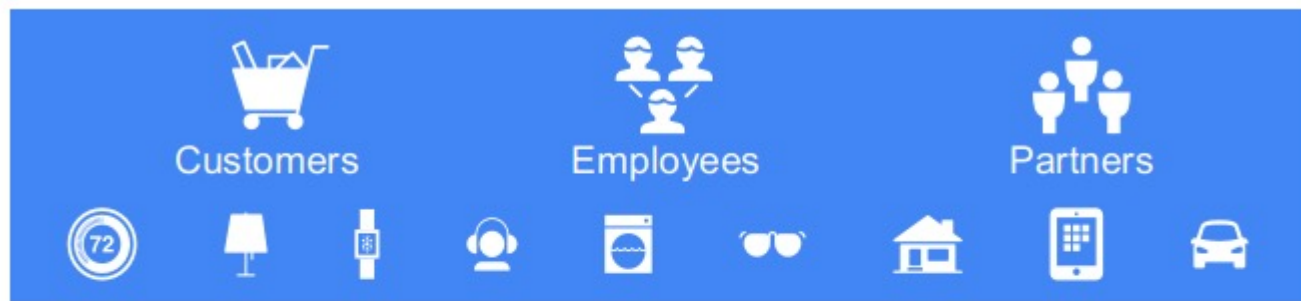
- ◆ How do you bridge the gap?
- ◆ Modern best practice is to decouple, or "bridge"



New architecture

- ◆ This is a complete layer
- ◆ You may not need all of it, but it is a good list

Connected Digital Experiences



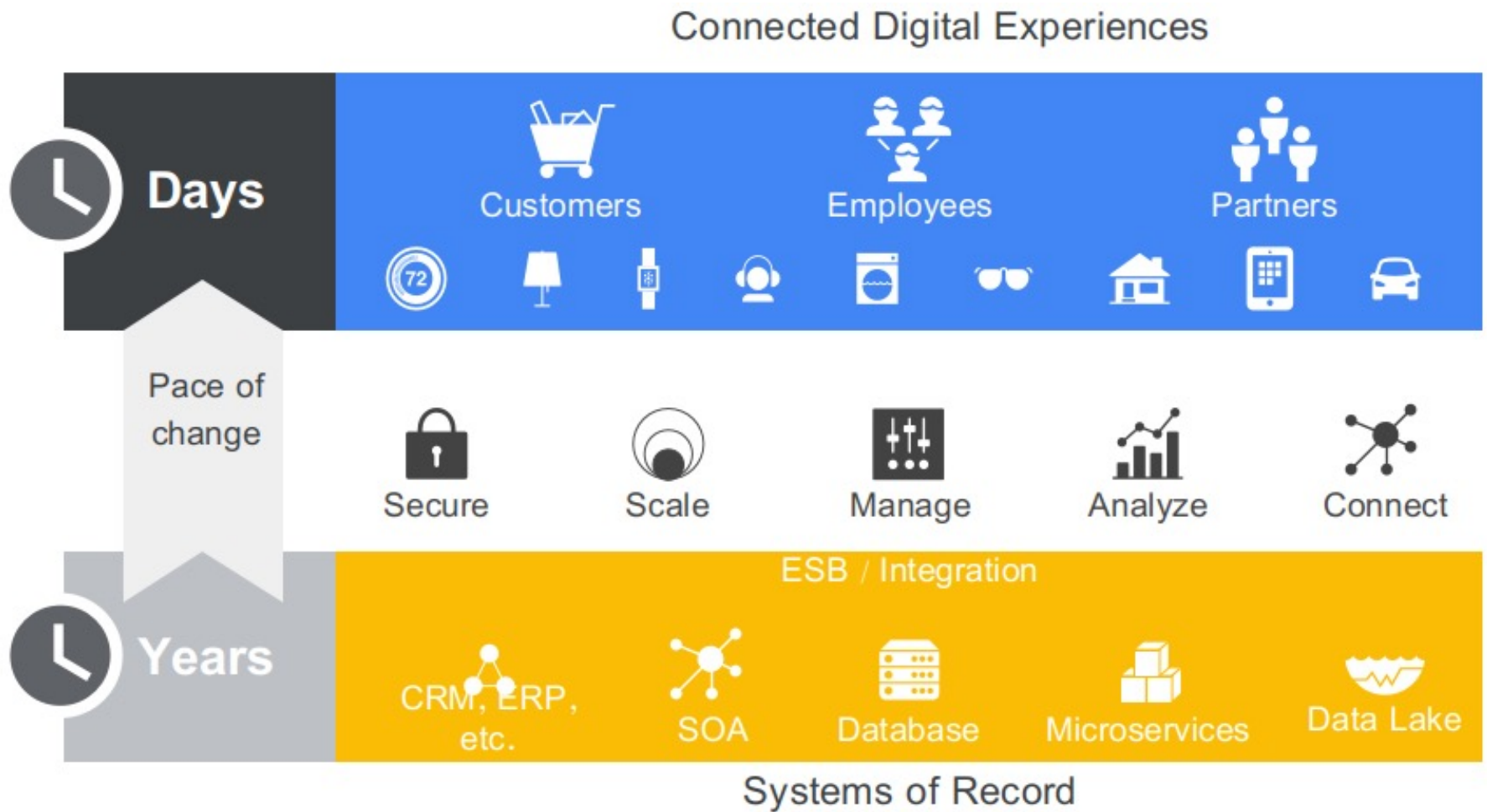
ESB / Integration



Systems of Record

Pace

- ◆ The speed of development is increasing





















Apigee, the "all-out" solution

Connected Digital Experiences

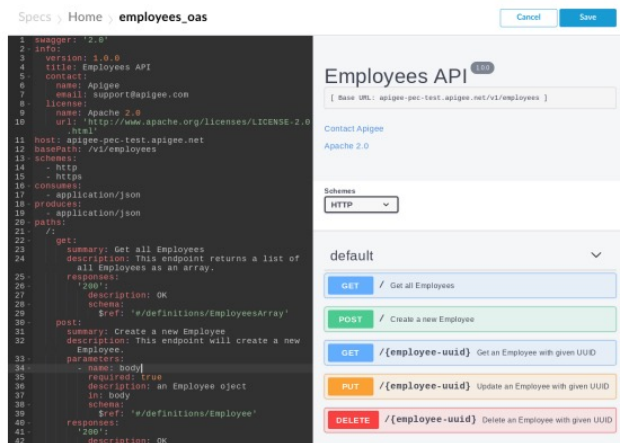


Apigee is on GCP

Developer Ecosystem	 API Catalog	 Client SDK	 API Products	 API Monetization	 API Marketplace
API Analytics	 Developer Engagement Metrics	 Business Metrics	 Operational Metrics	 API Program Metrics	 API Monitoring and Alerting
Mediation	 Security	 Transformation	 Extensions	 Orchestration	 API Abuse Prevention
API Runtime	 Enterprise Gateway	 Hybrid Gateway	 Microgateway	 Apigee Istio Adapter	 Hosted Targets

OpenAPI is the common language

- ◆ You may or may not need to use API right now
- ◆ But it is an upcoming architectural design pattern
- ◆ So, it is good to know



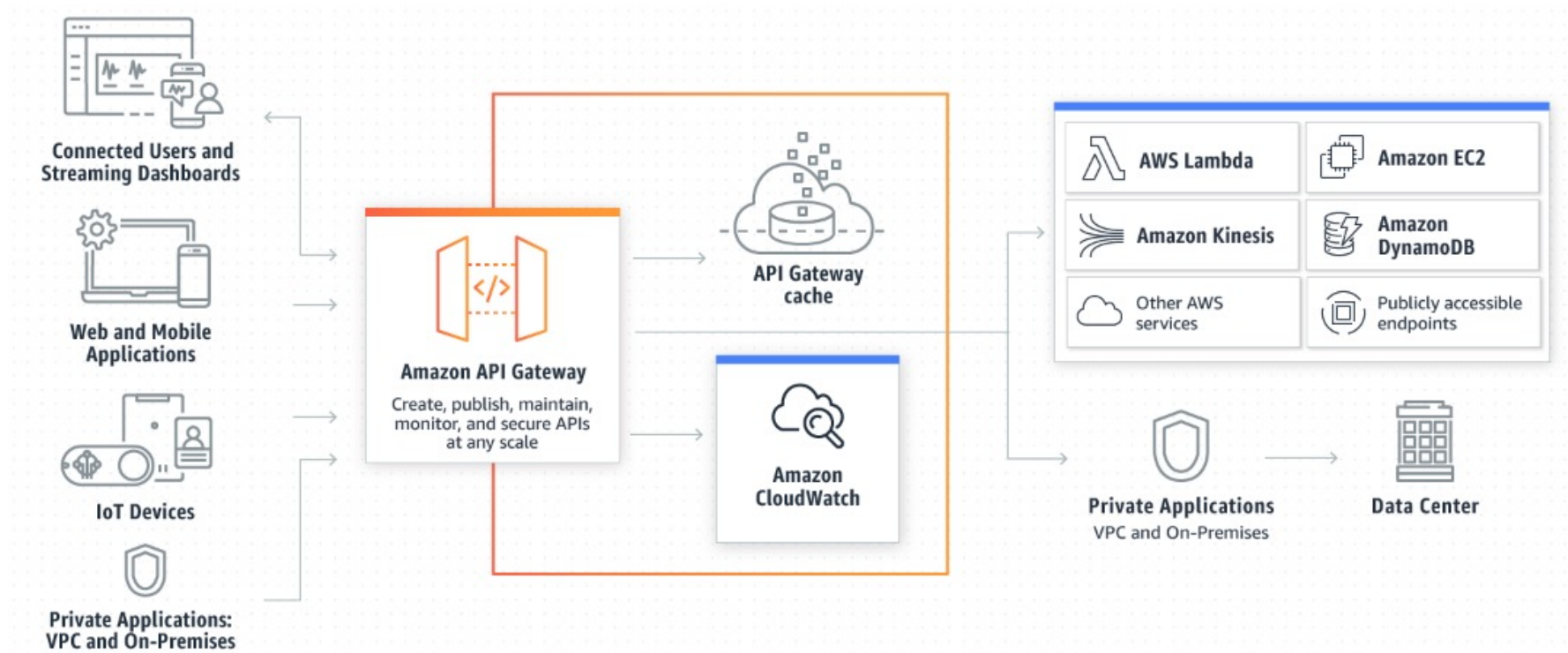
Quiz

- ◆ Which versioning scheme follows Apigee's API design best practices?
 - A. GET /customers/{customerid}/v1
 - B. GET /customers/v1/{customerid}
 - C. GET /v1/customers/{customerid}
 - D. GET /customers?customerid={customerid}&version=v1

Amazon API Gateway

- ◆ API Types
- ◆ RESTful APIs
 - Build RESTful APIs optimized for serverless workloads and HTTP backends using HTTP APIs.
- ◆ WEBSOCKET APIs
 - Build real-time two-way communication applications, such as chat apps and streaming dashboards


How AWS API Gateway Works



Azure API gateway

- ◆ Azure **API management service** is between your APIs and the Internet
- ◆ An **Azure API gateway** is an instance of the Azure API management service
- ◆ Azure portal controls how particular APIs are exposed to consumers

Building API on Azure

 **swagger**

Select a spec NorthWindShoes API V1

NorthWindShoes Products ^{v1}

[Base URL: shoecoapi61e0ec7c74.azurewebsites.net]
</swagger/v1/swagger.json>

Inventory

GET

/api/Inventory Retrieve the entire product inventory for the company.

GET

/api/Inventory/{productid} Retrieve the number in stock for the specified product

Products

GET

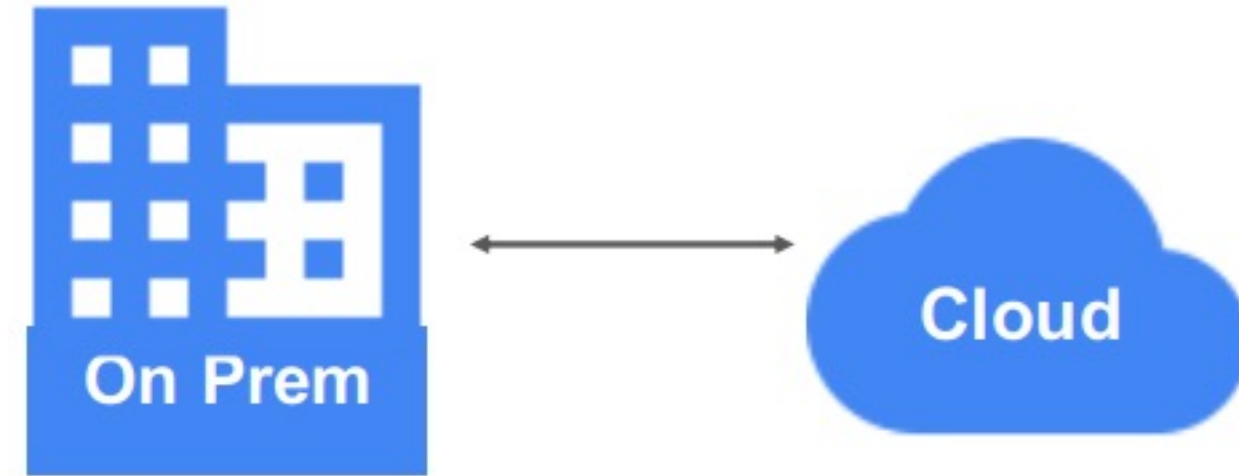
/api/Products Retrieve the details of every product sold

GET

/api/Products/{productid} Find the details of the specified product

Hybrid Clouds

- ◆ This, and more...



Hybrid environment wishlist

- ◆ This may or may not be your goal though

**Write once,
deploy in any
cloud**

**Accelerate
developer
velocity**

**Consistency
across
environments**

**Interoperability
with legacy
workloads**

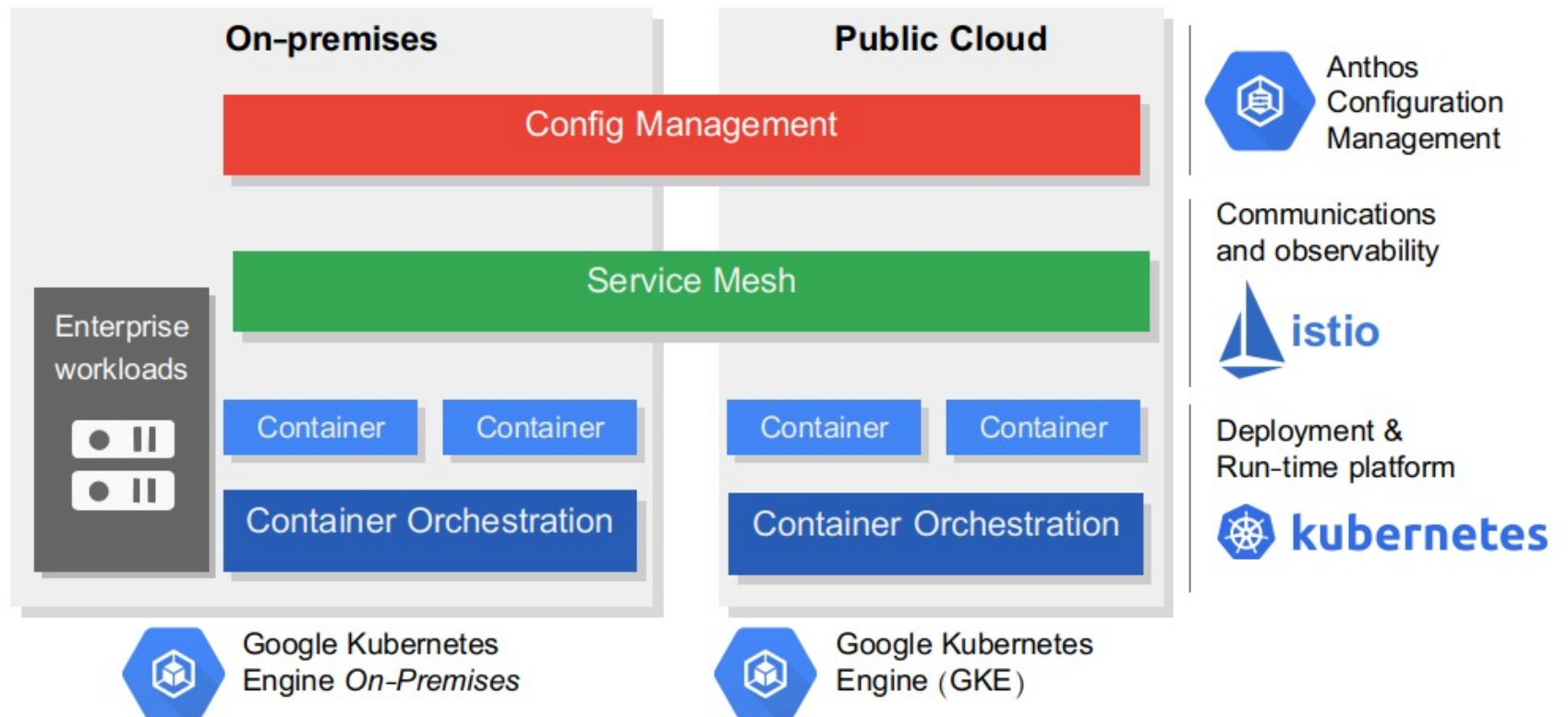
**Increased
observability
and SLO**

**Decoupling
across critical
components**

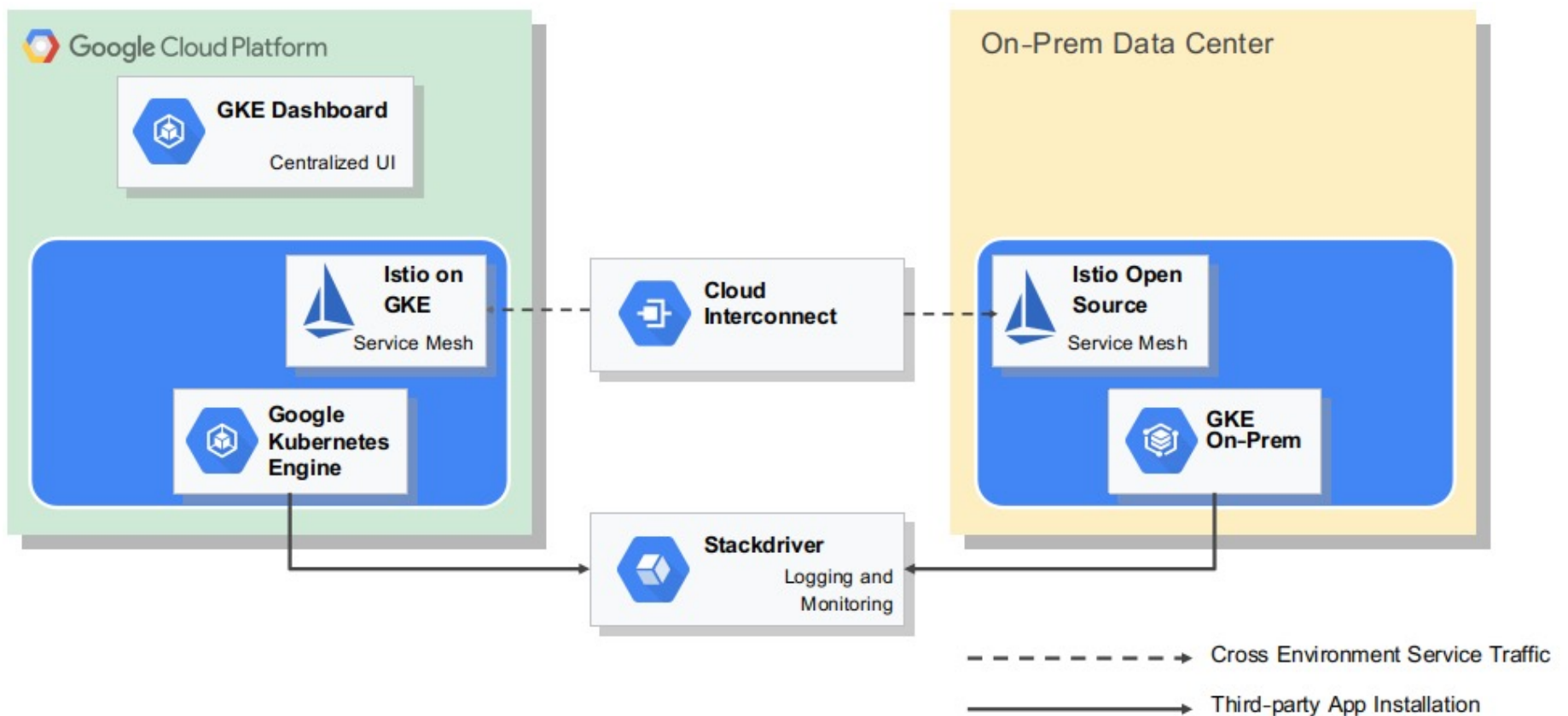
**Increased
workload
mobility**

**Avoid vendor
lock in**

Anthos

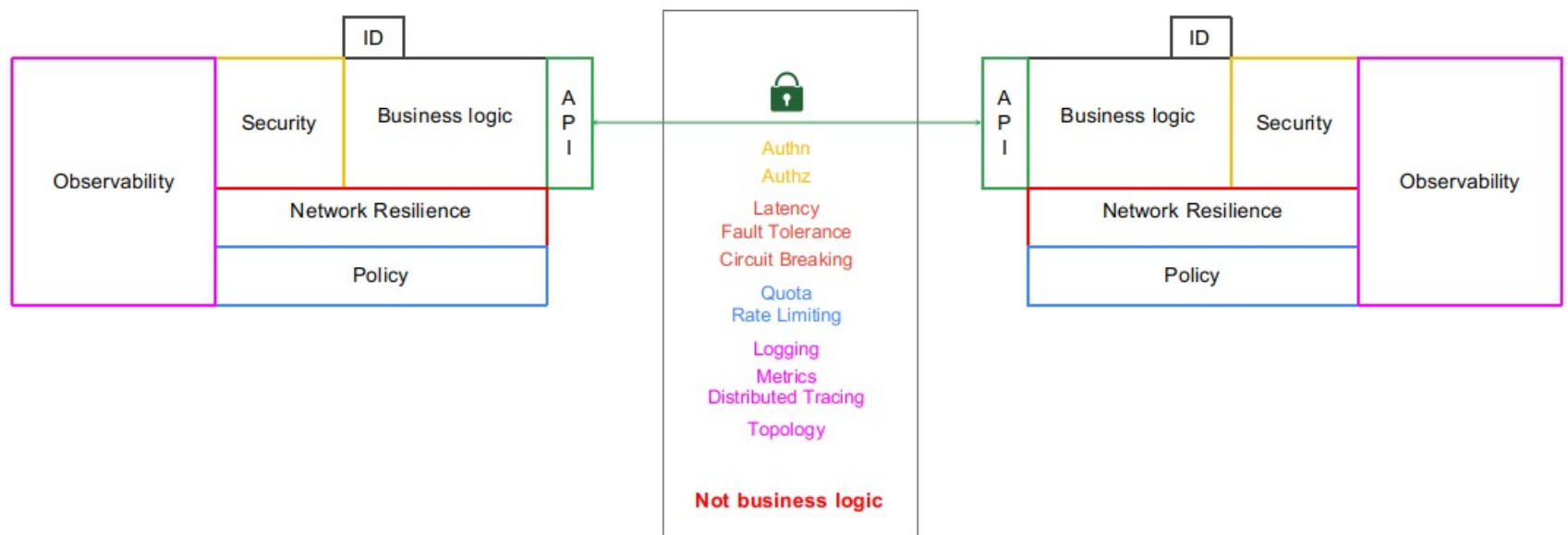


Anthos more details

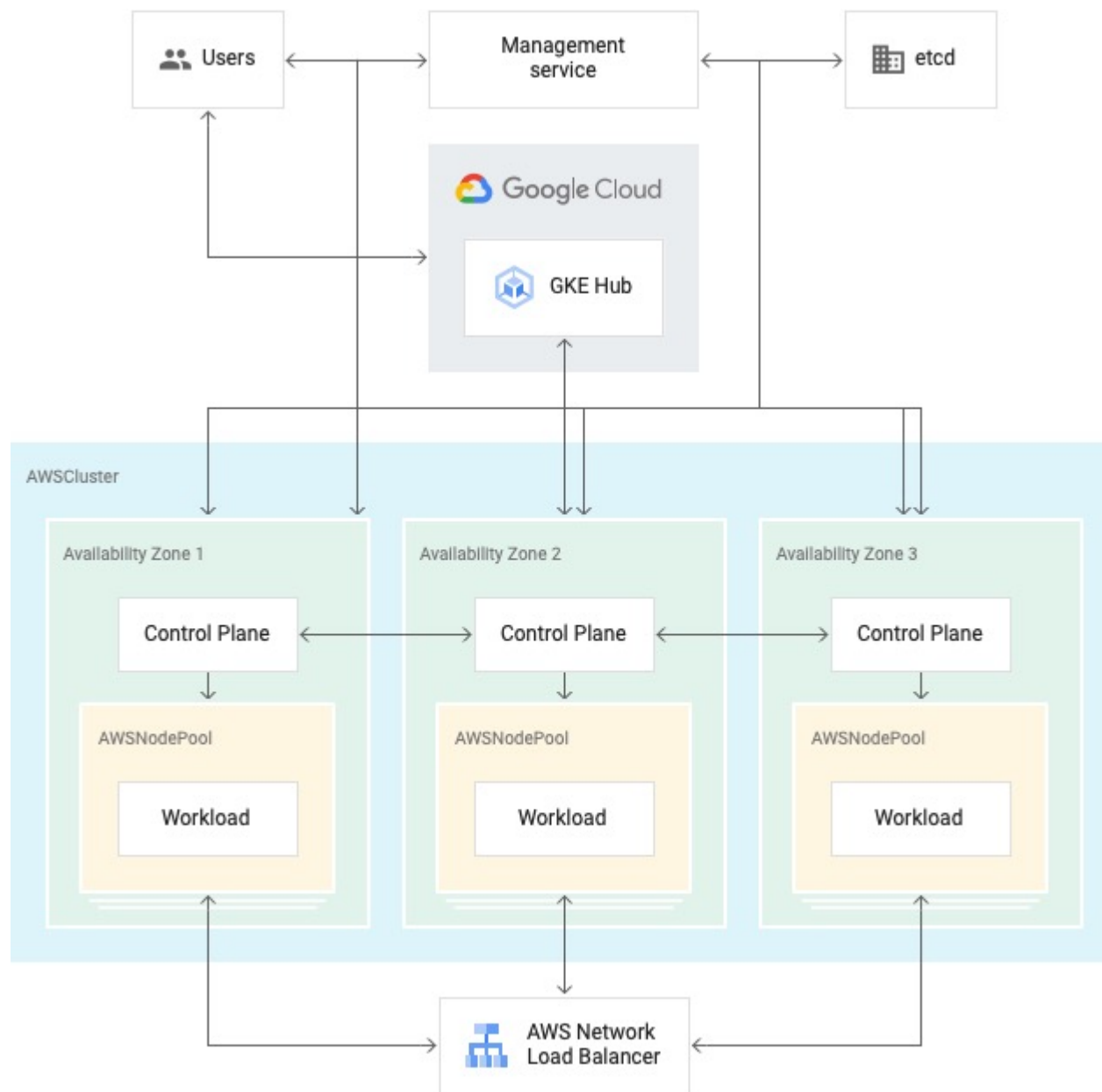


Enabler

◆ Service mesh (ISTIO)



Anthos on AWS



Congrats on completion

Congratulations