

Cloud Server Infrastructure Management and Visualization

The required strategies for managing the resources efficiently

What is covered in the presentation?

- AWS Organization
 - Identity and Access Management (IAM)
 - Single Sign-On (SSO) with Google Workspace
- AWS Resources and Workloads
 - Applications
 - Data Processing
- Infrastructure Team Methodologies and Toolings
 - Graphical and Visualization Exchange
 - Slack
 - Documentation
 - Git Repository
 - Confluence

AWS Organization

The foundation of a well-managed infrastructure

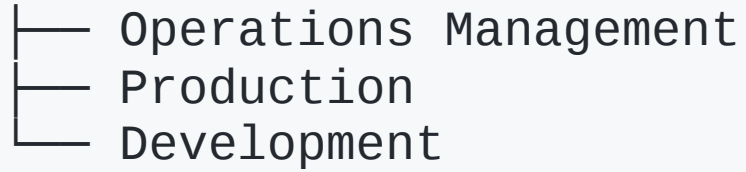
Identity and Access Management (IAM)

Is a web service that helps you securely control access to AWS resources

Managing Organization Units (OUs)

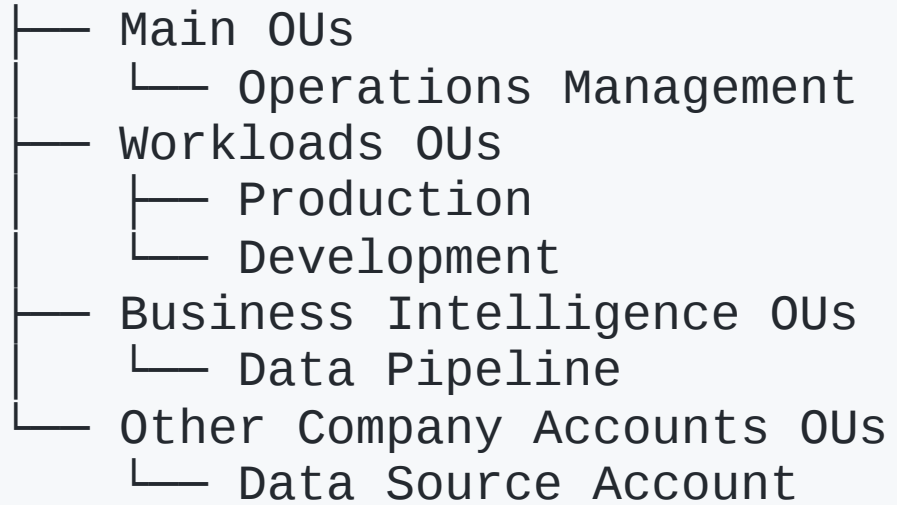
Scenario 1

Root OUs

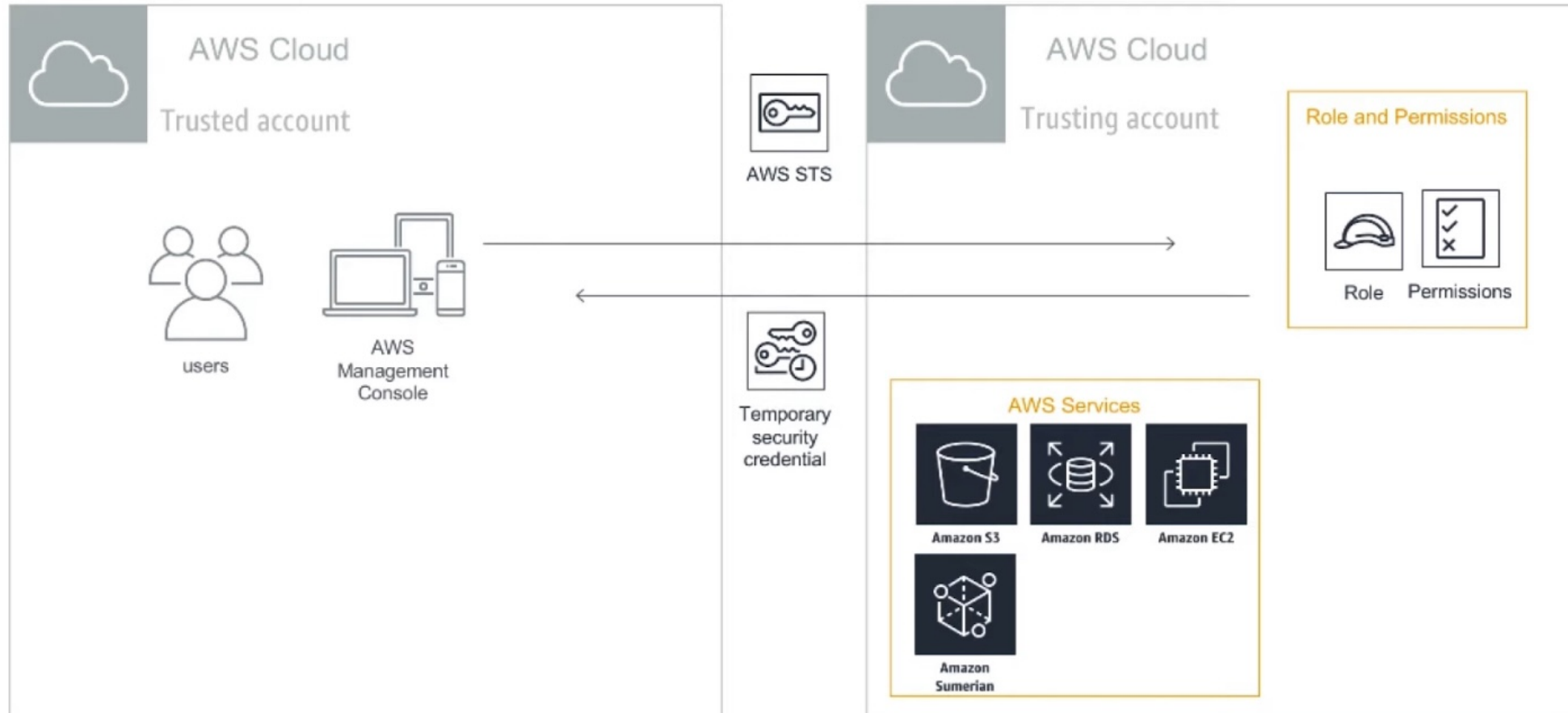


Scenario 2

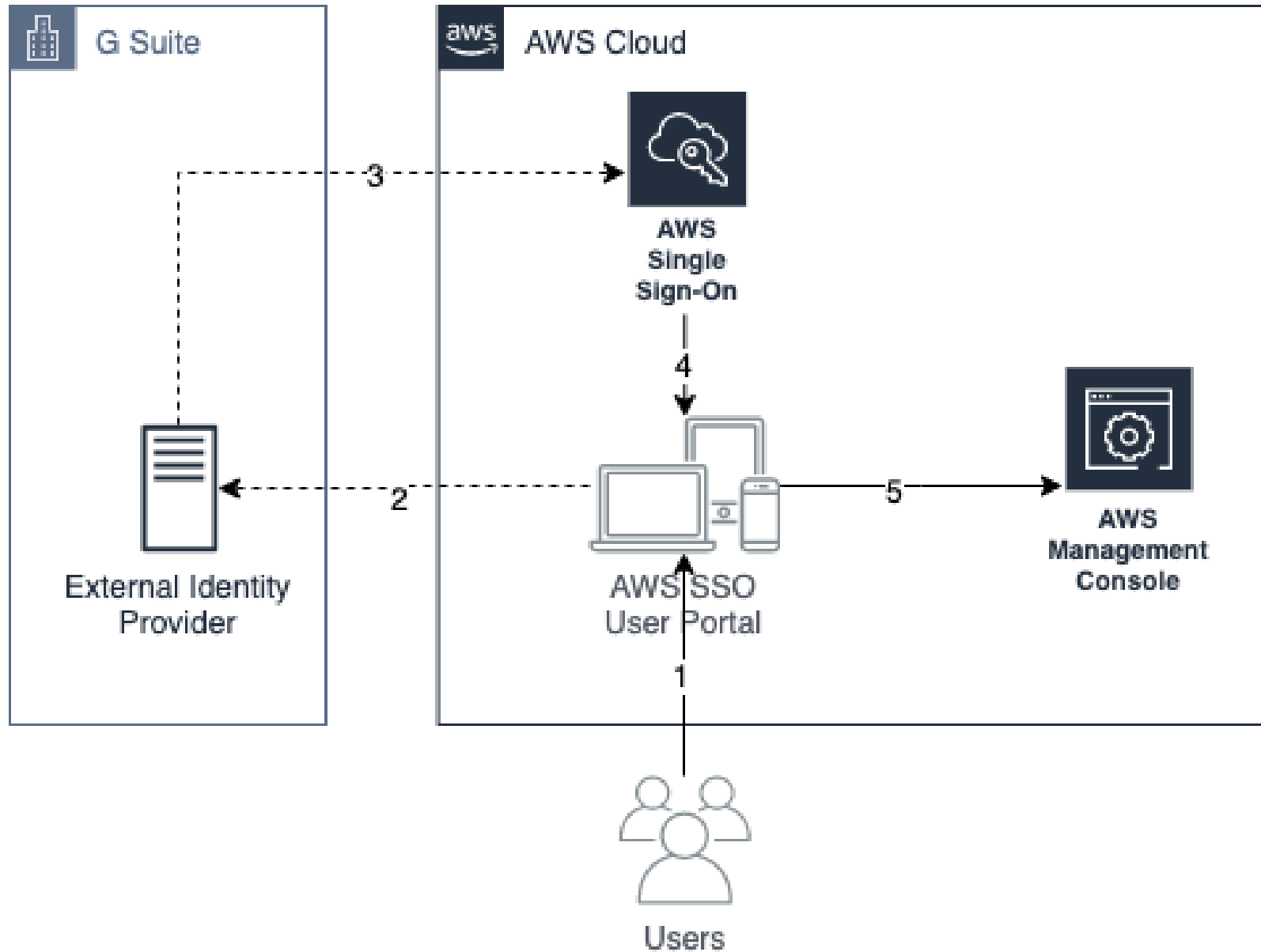
Root OUs



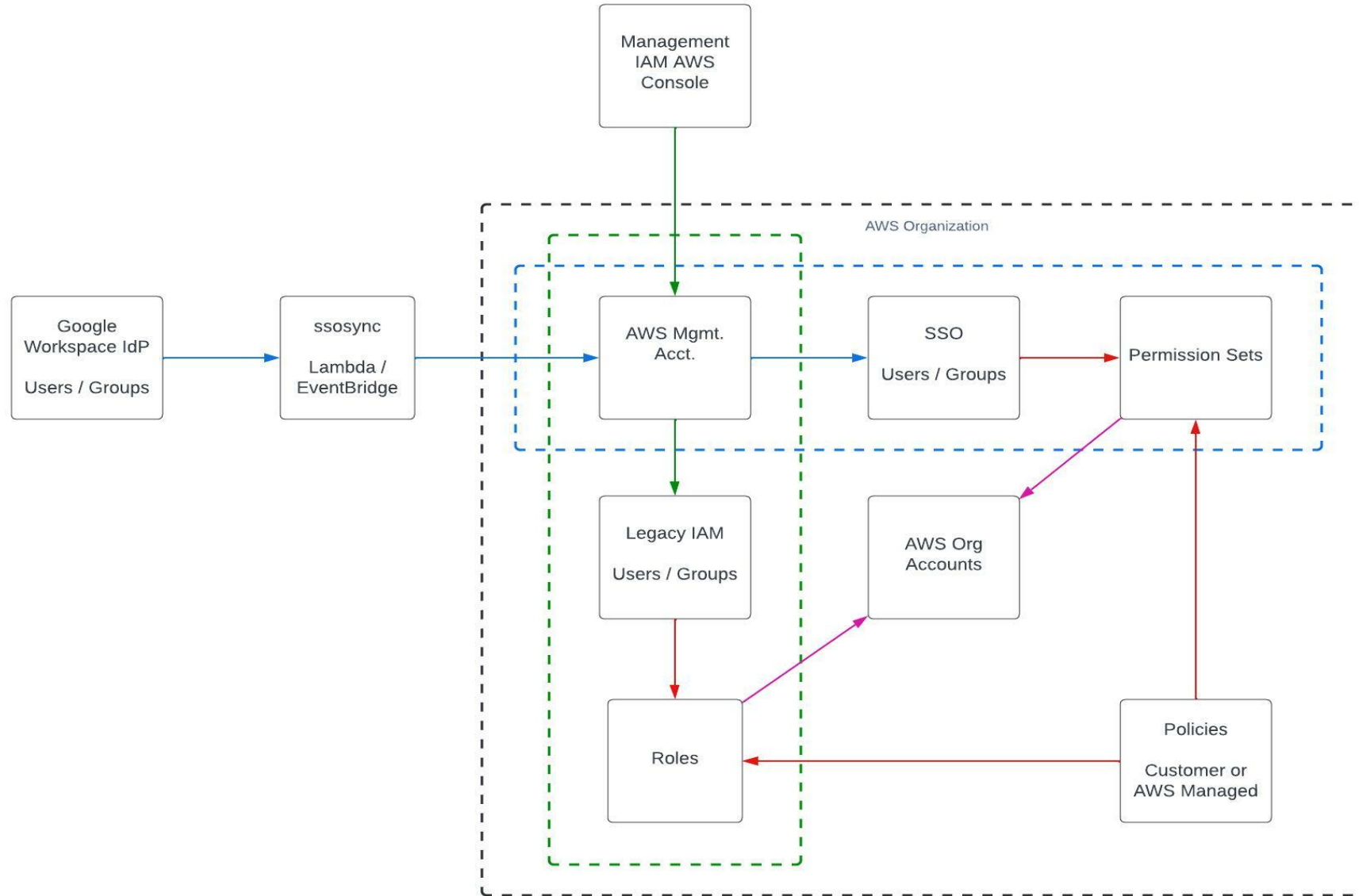
Assume Role Across Organization Units Account



Google Workspace as an external identity provider for AWS SSO



IAM and SSO in a Whole Picture

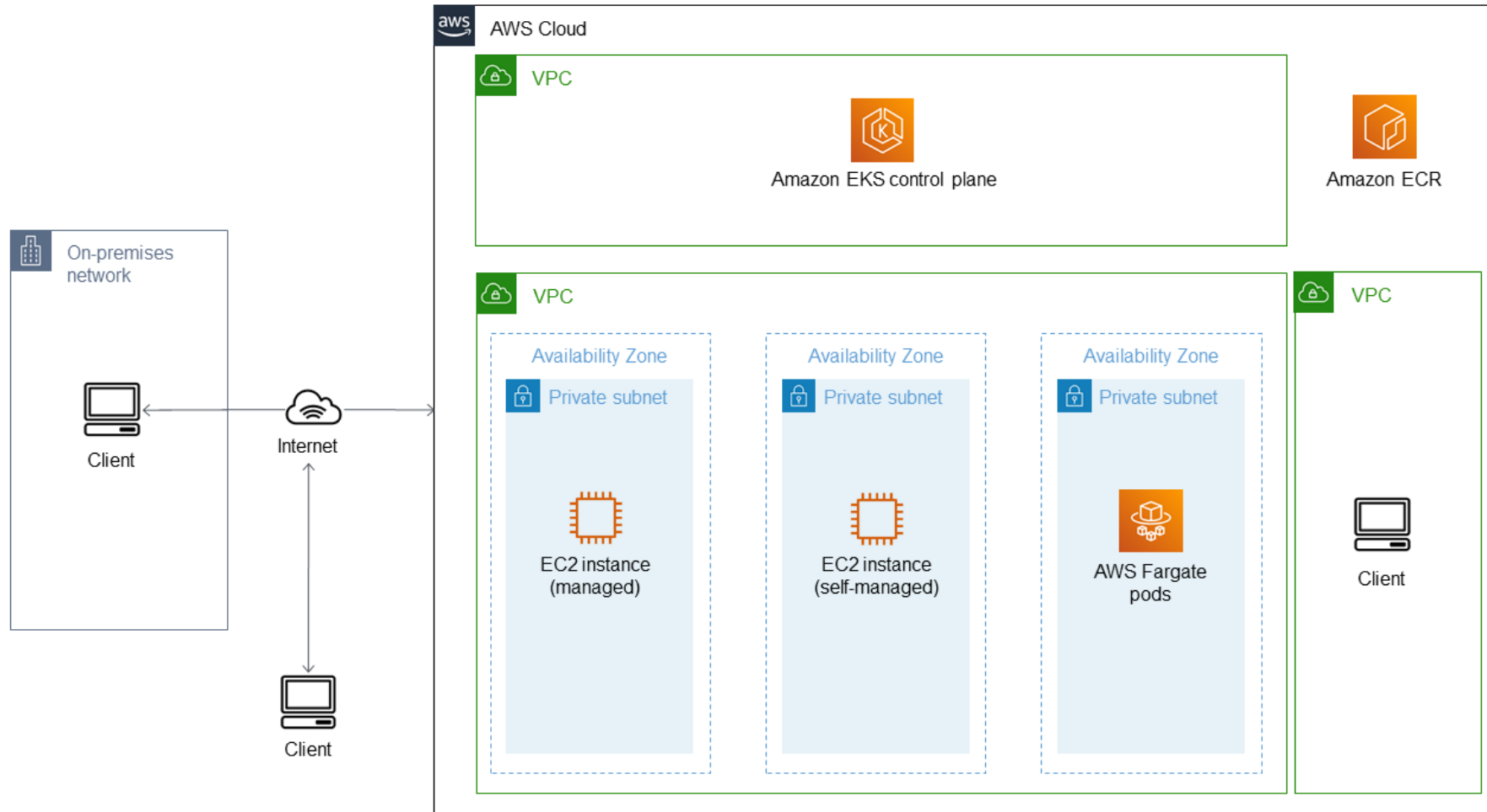


Orchestrated Services

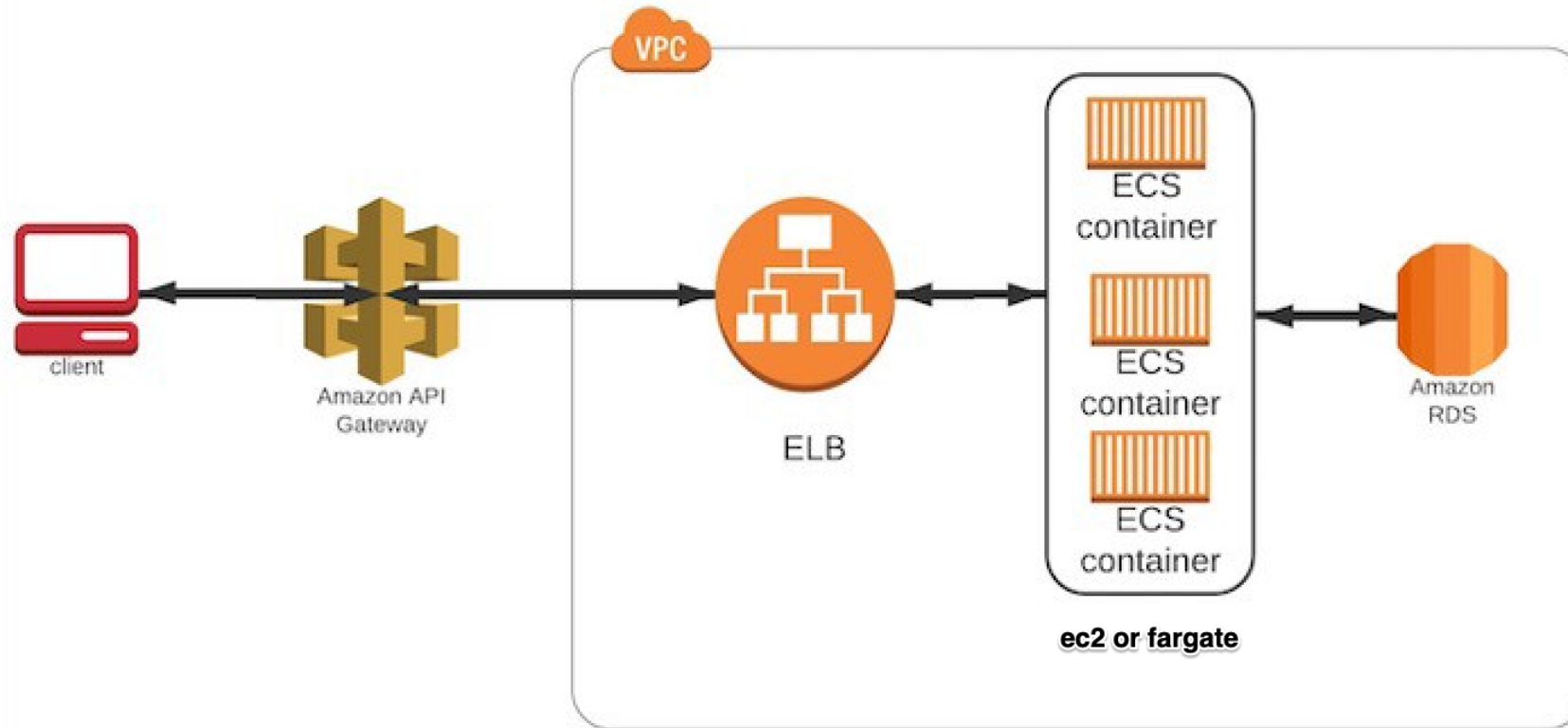
Amazon Kubernetes Service (Amazon EKS)

Amazon Elastic Container Service (Amazon ECS)

Amazon Kubernetes Service (Amazon EKS)



Amazon Elastic Container Service (Amazon ECS)



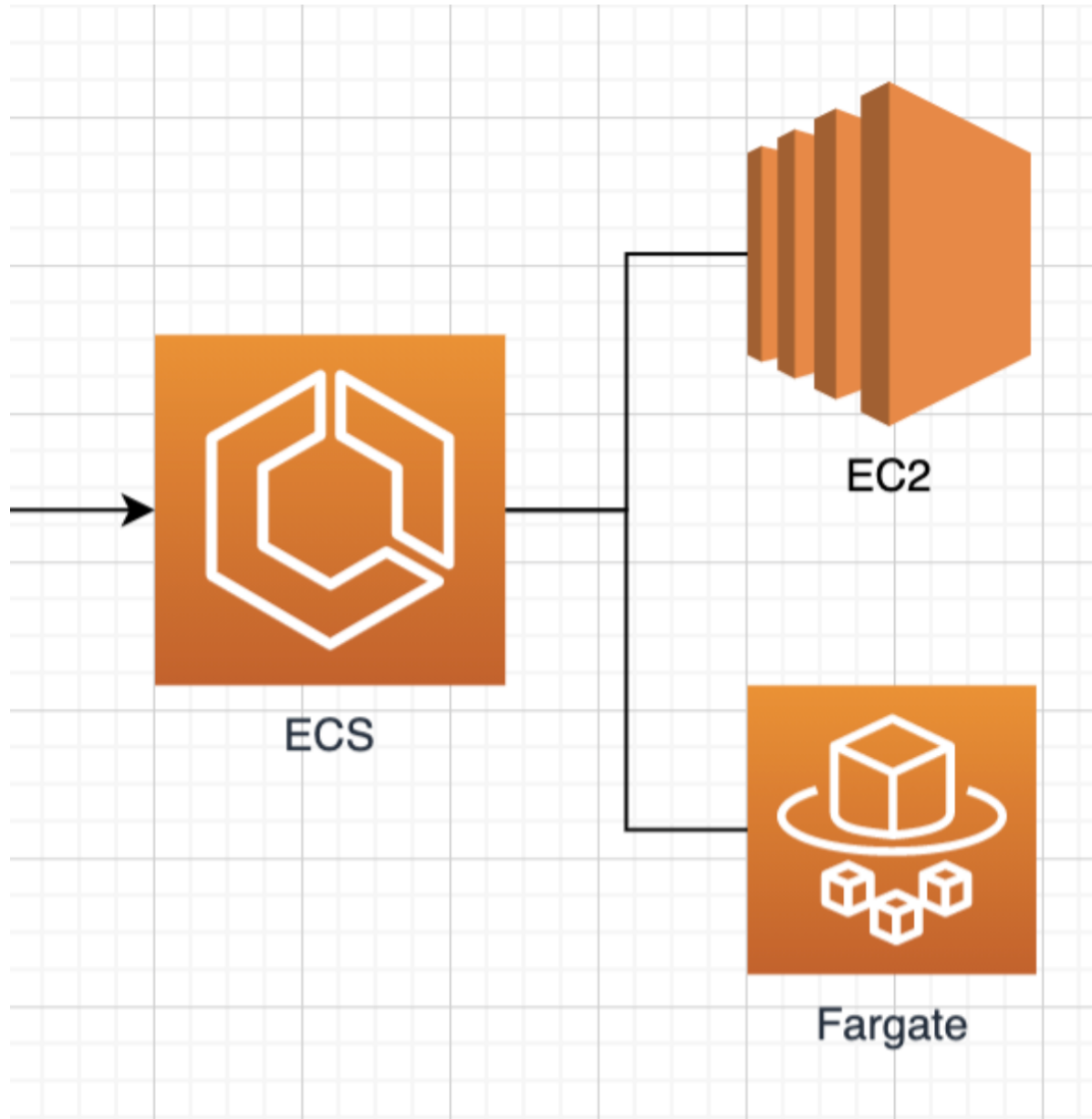
- EC2 Compute, or
- ECS/Fargate

Microservice and Serverless Architecture

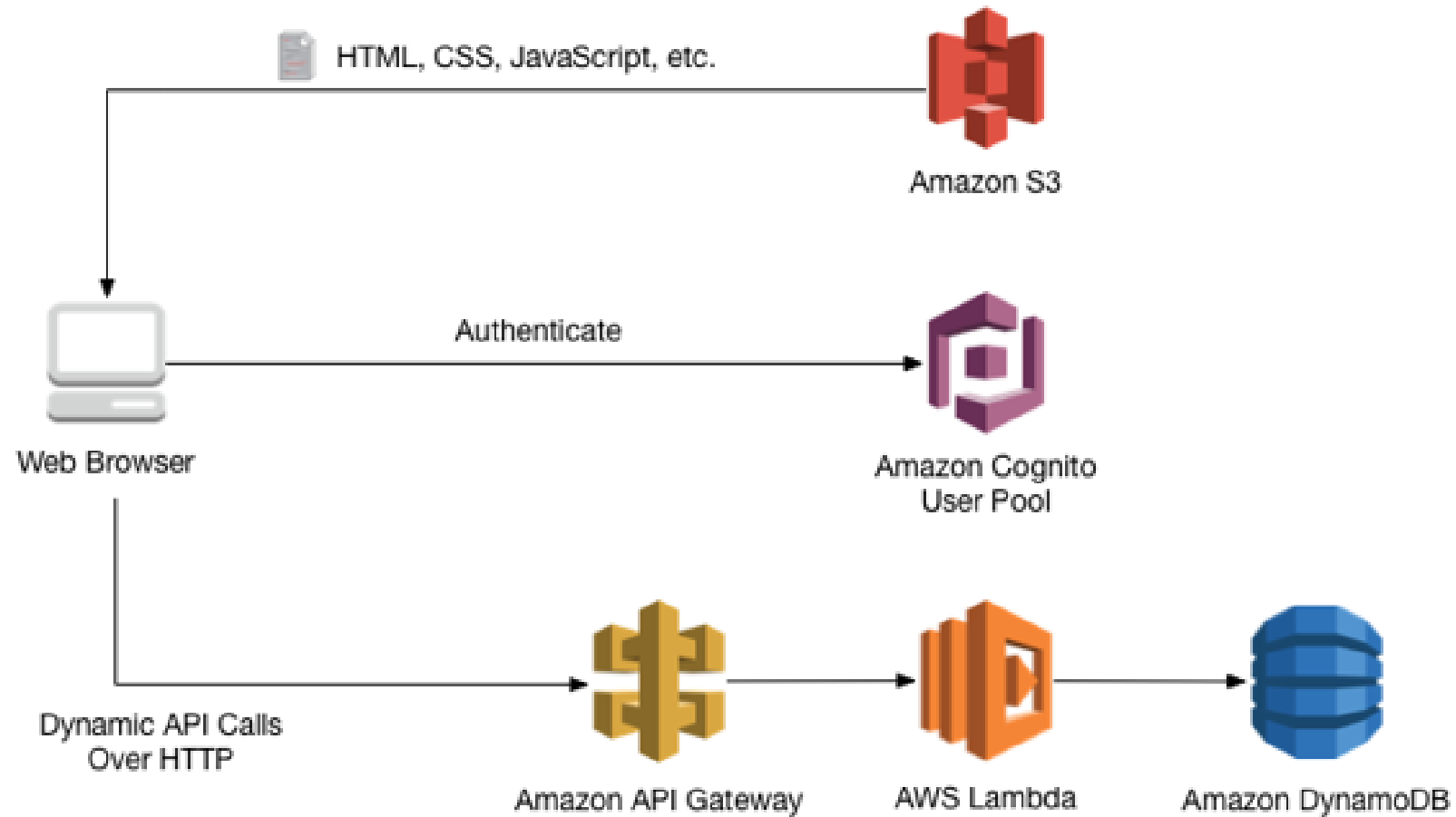
Amazon ECS/Fargate

Amazon Lambda

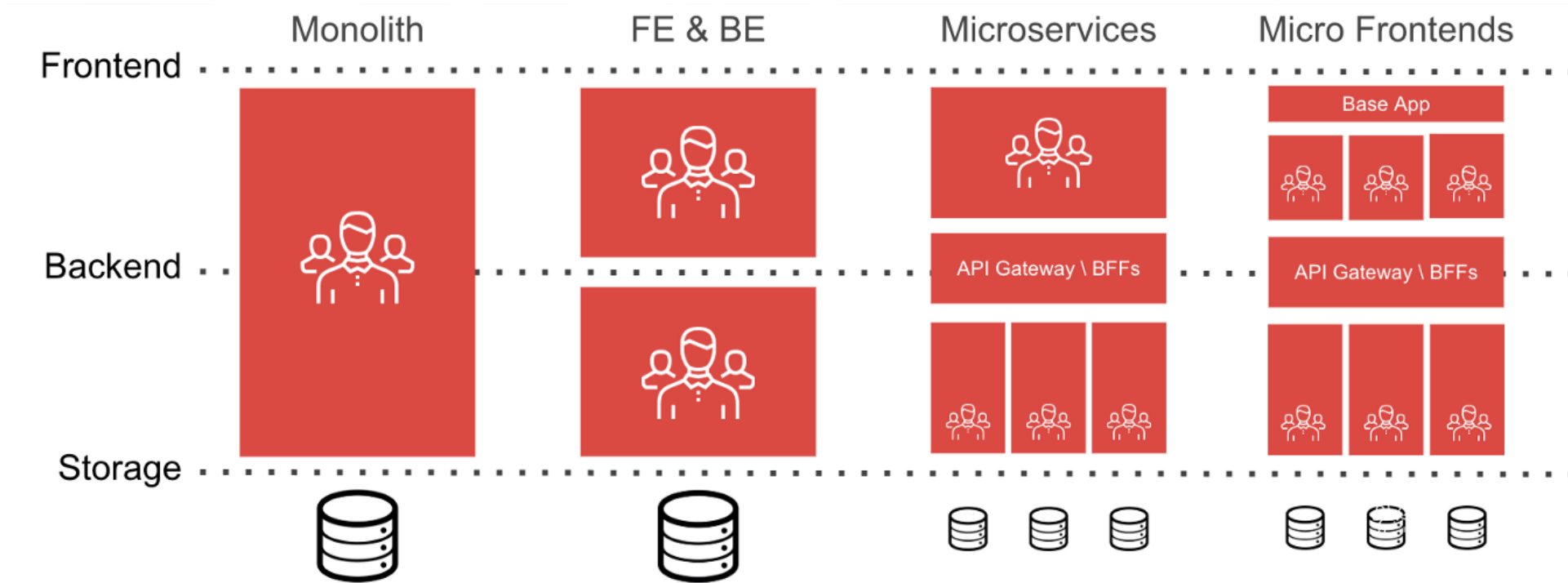
Amazon ECS/Fargate



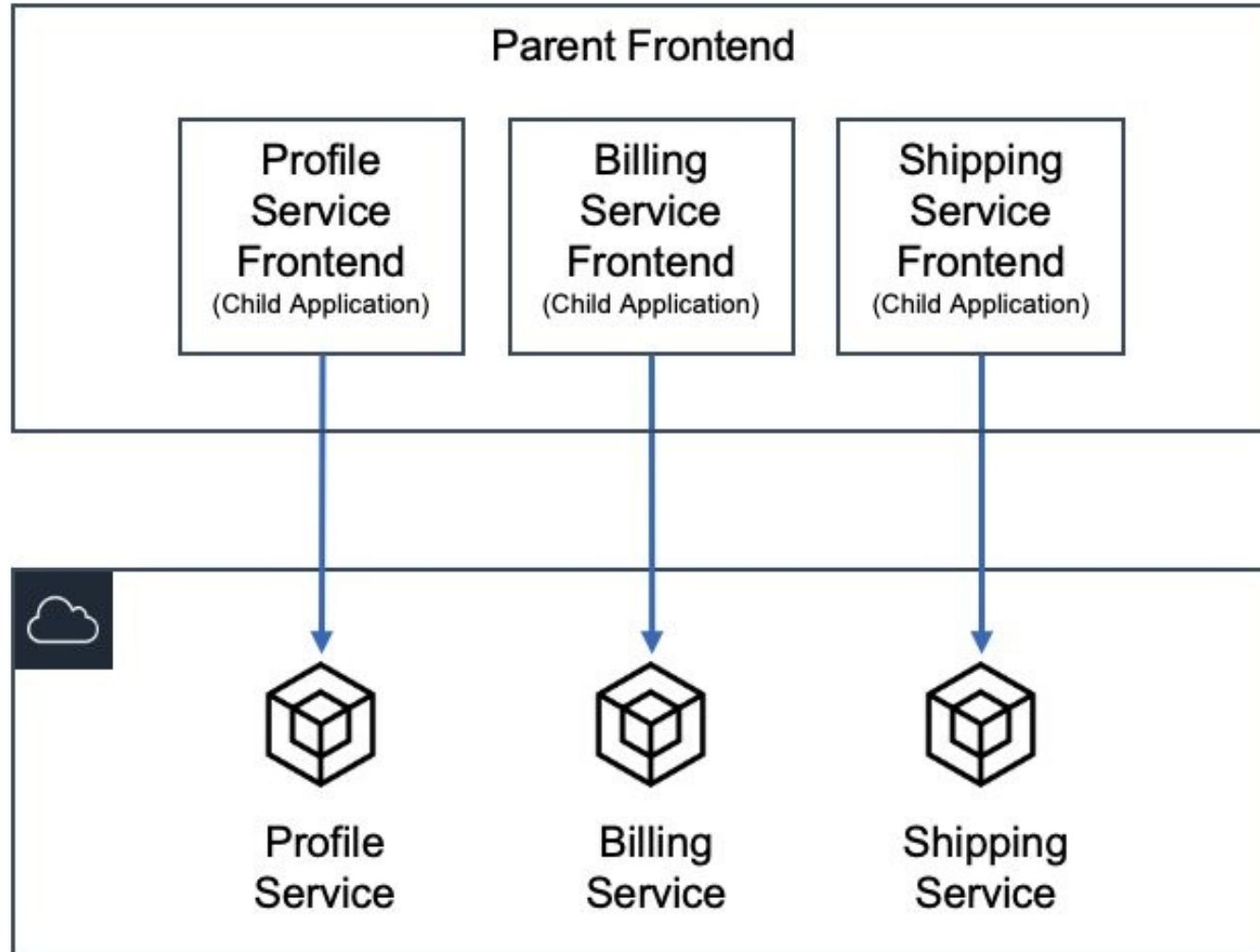
Amazon Lambda



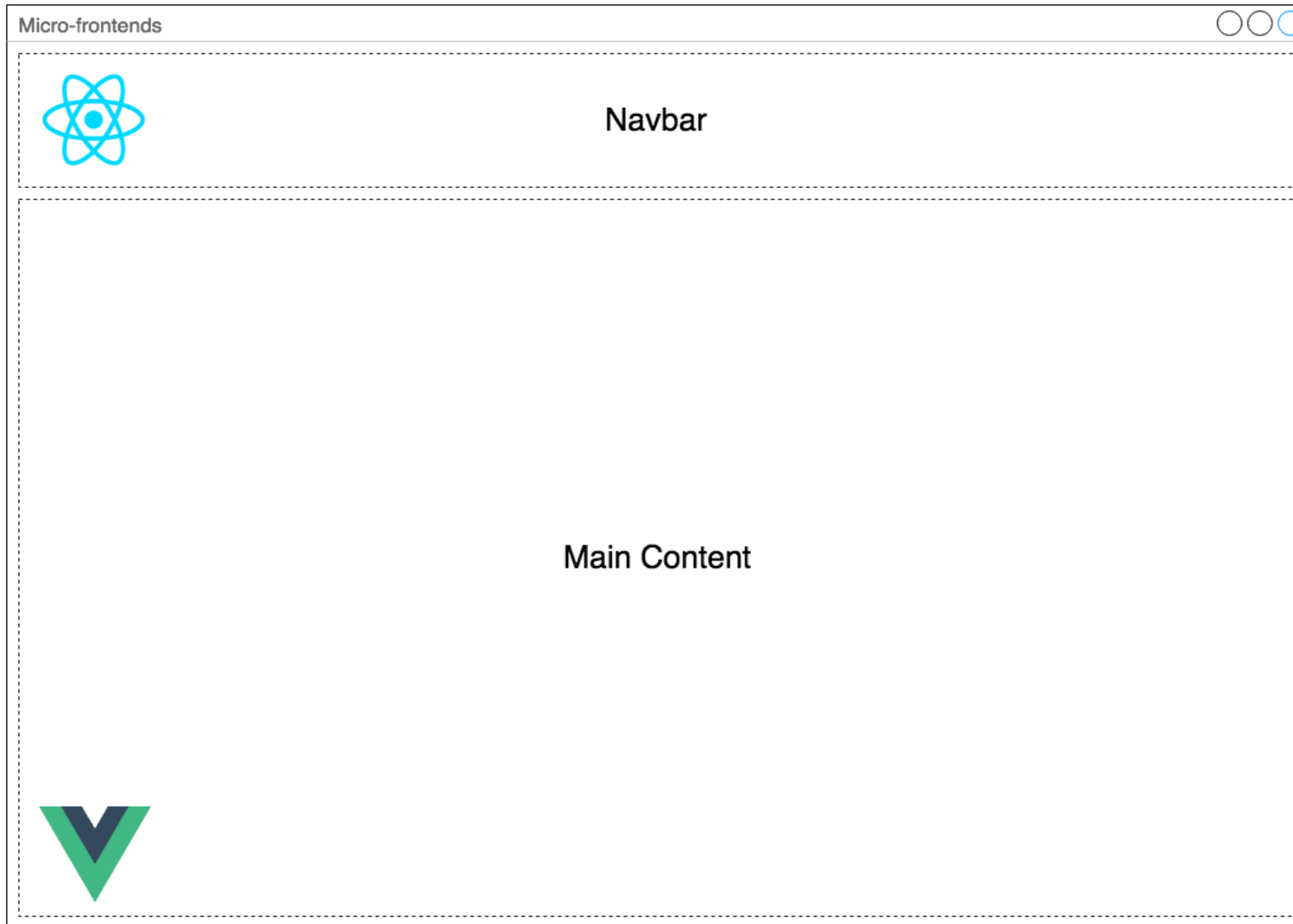
Evolution of Software Architecture



Example: Micro-Frontend Architecture



Example: Micro-Frontend UIs



Infrastructure Team Methodologies and Toolings

DEMO