



27 & 28 October 2021

Modernization with containers and serverless technologies

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Container Services Lead, ANZ, AWS



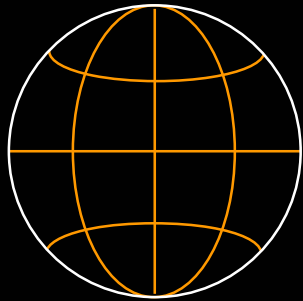
[linkedin.com/in/camersonsenese](https://www.linkedin.com/in/camersonsenese)



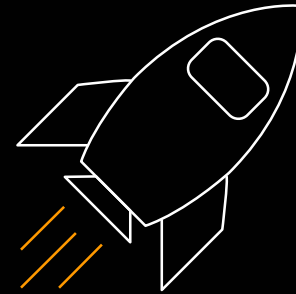
Modern Applications



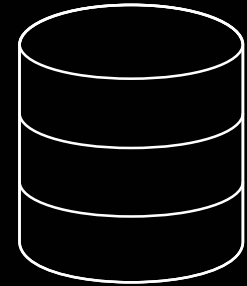
Scale to
millions of users



Global availability

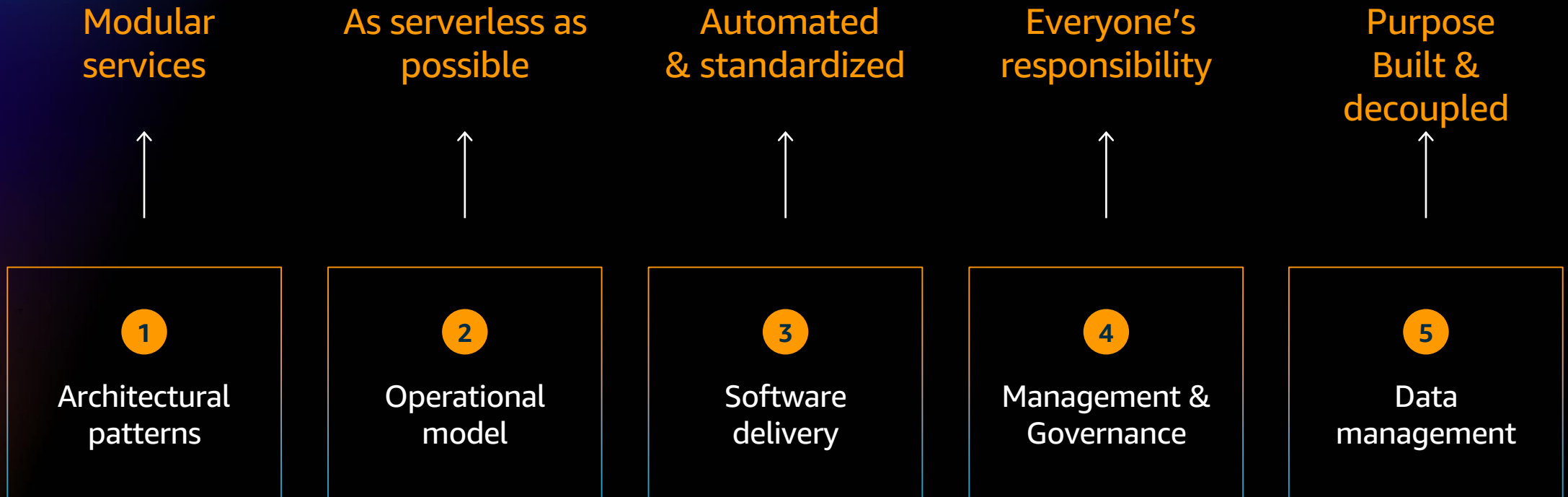


Respond
in milliseconds

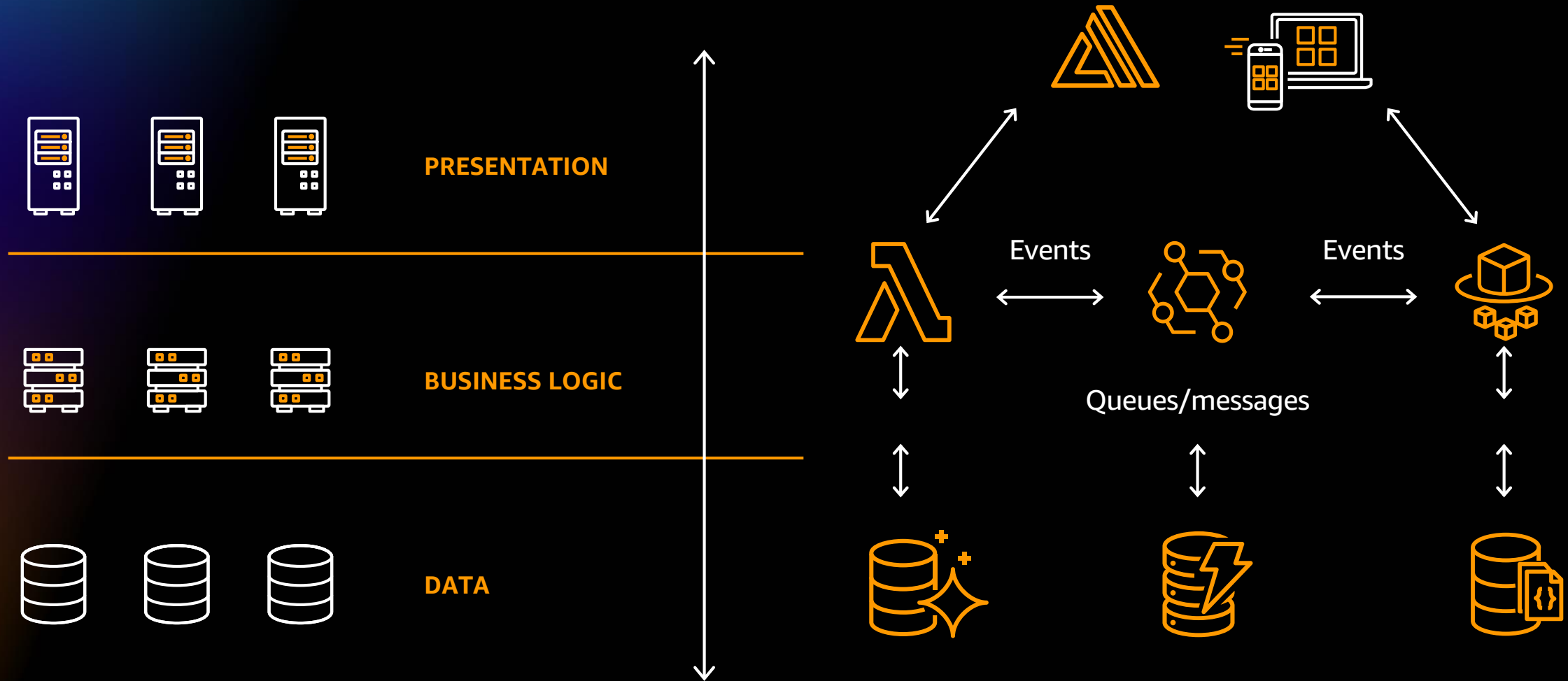


Handle
petabytes of data

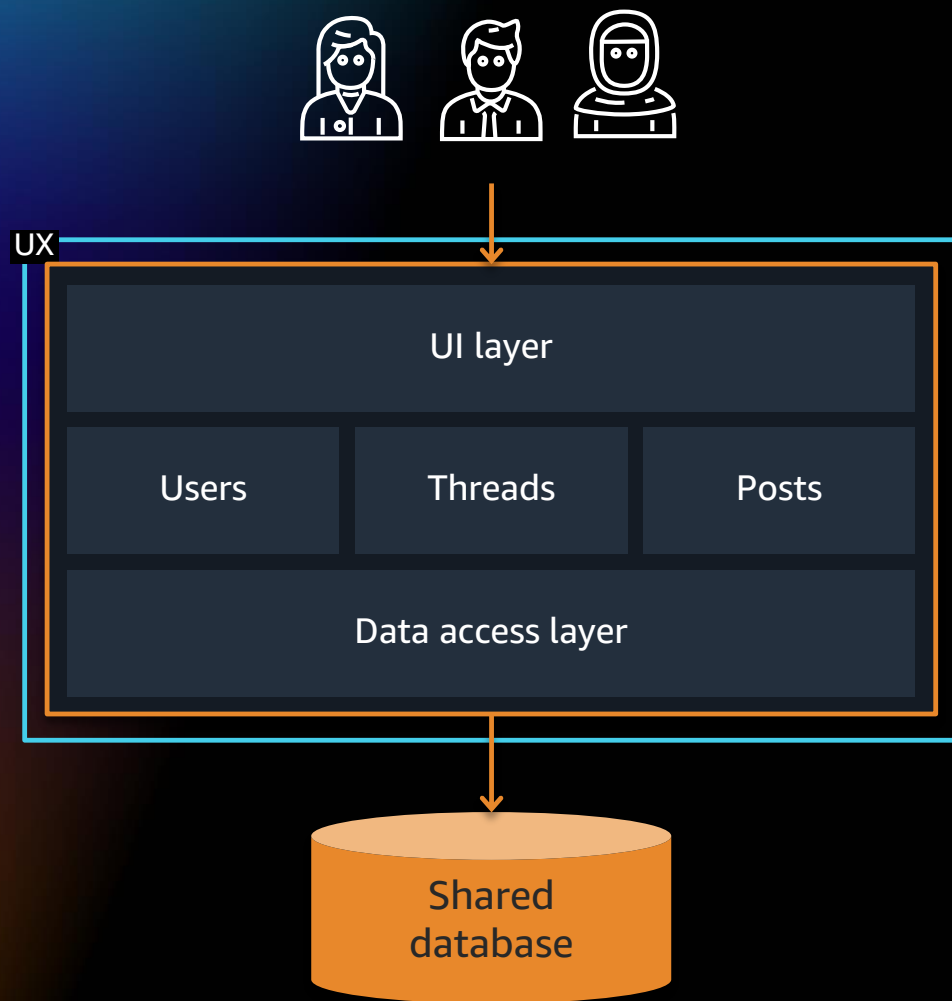
Modern Application characteristics



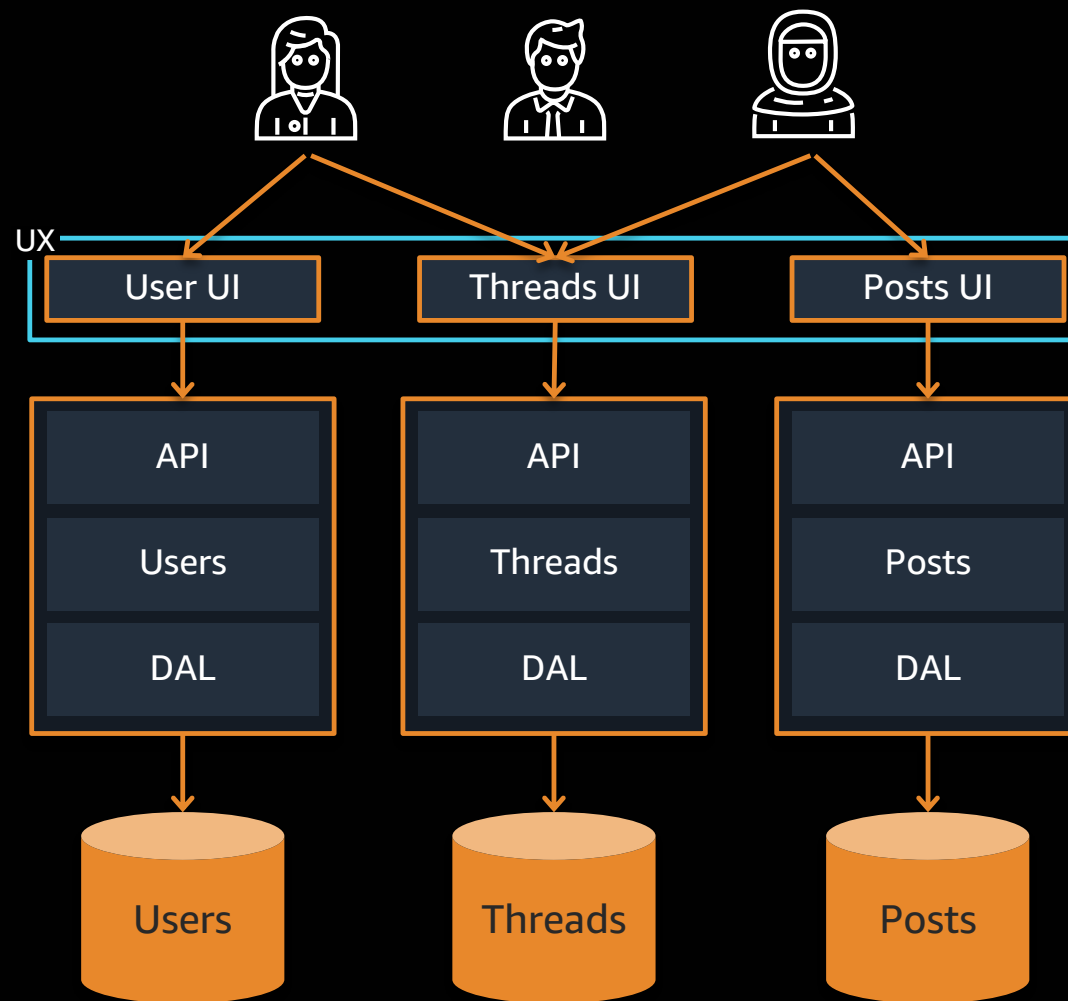
Application Architecture: Modular microservices



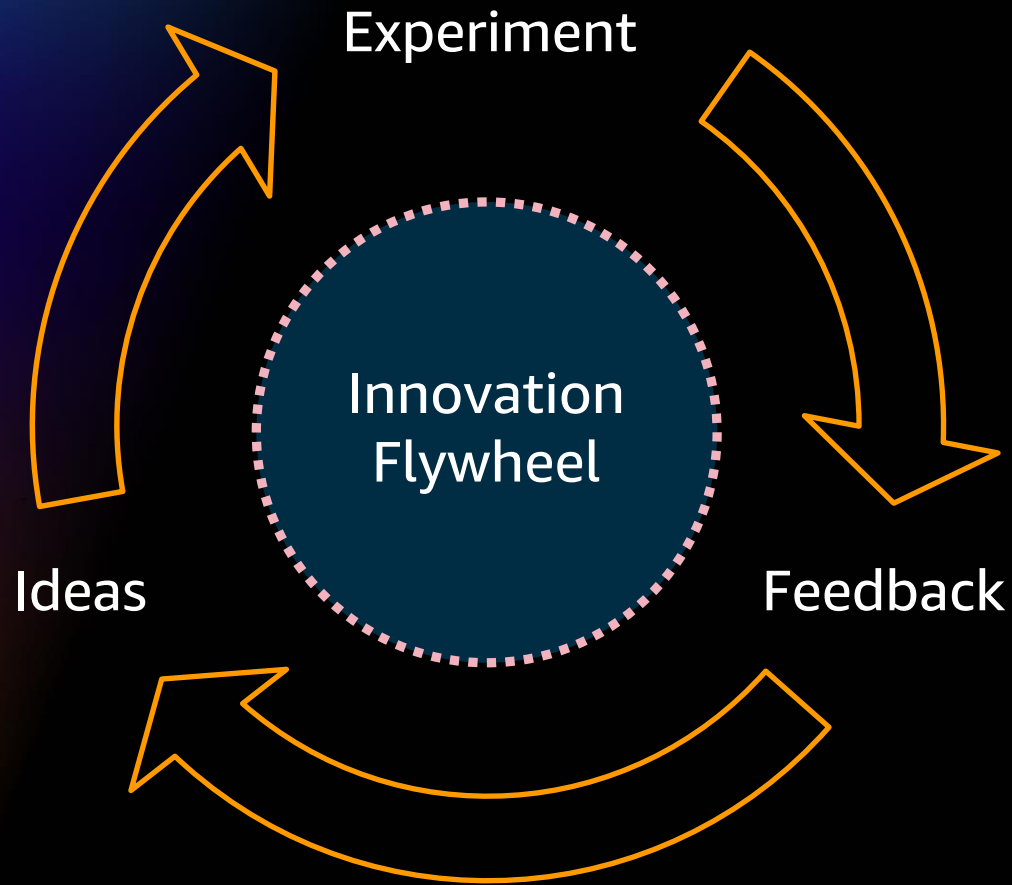
Monolith



Microservice



Microservices advantages



Implications for IT

- Modular architectures
- Faster release cycles
- Smaller units, lower risks
- Continually improving systems
- Data driven insights
- Automation

Modernize: Refactor and re-platform

Reduce the size of
your estate*



Retire



SaaS

Move to AWS



**Lift and
Shift**

Modernize on AWS

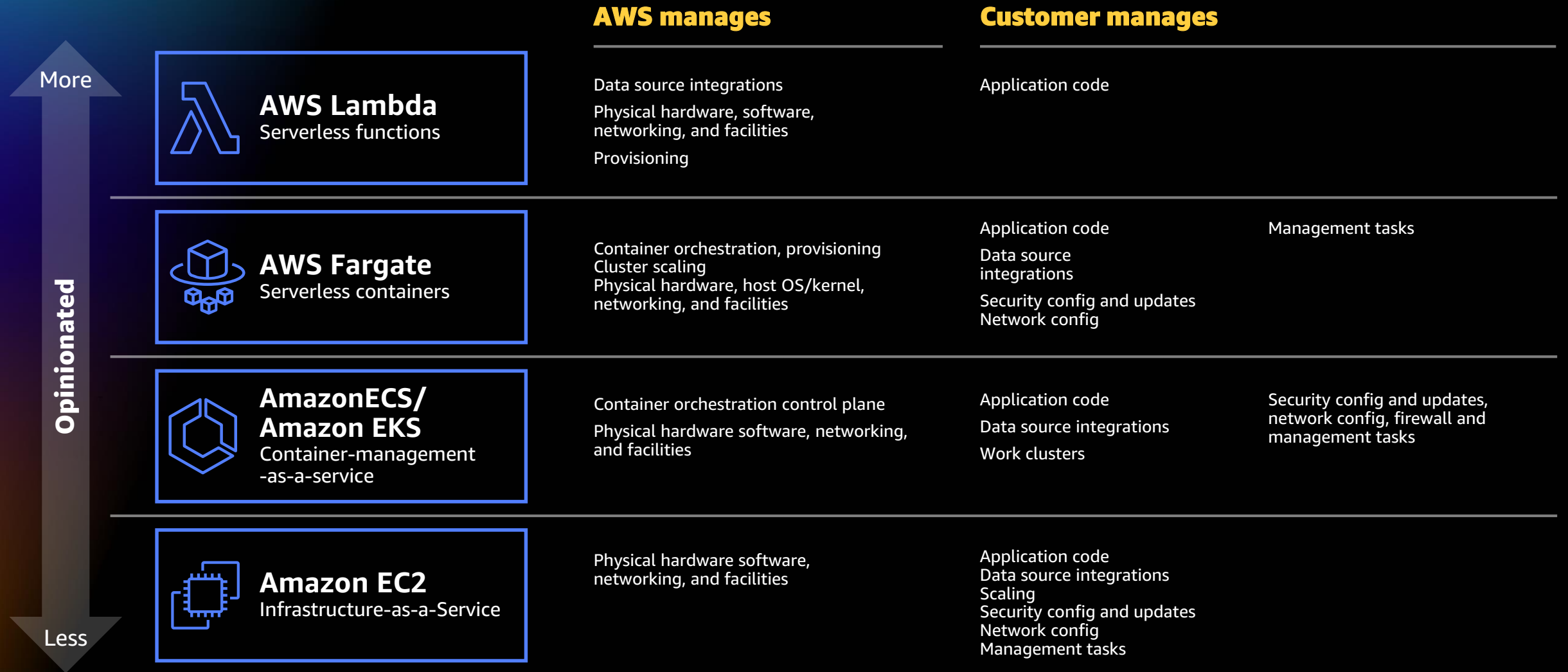


Refactor



**Re-
platform**

Compute and operations



AWS container services

Service Discovery And Service Mesh



AWS Cloud Map



AWS App Mesh

Management

Deployment, scheduling, scaling
& management of containerized
applications



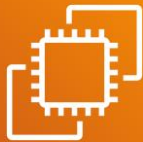
Amazon Elastic
Container Service
(Amazon ECS)



Amazon Elastic
Kubernetes Service
(Amazon EKS)

Hosting

Where the containers run



Amazon EC2



AWS Fargate

Image Registry

Container Image Repository



Amazon Elastic
Container Registry
(Amazon ECR)

AWS serverless services

Compute



AWS Lambda



AWS Fargate

Data Stores



Amazon S3



Amazon Aurora



Amazon DynamoDB

Integration



Amazon EventBridge



Amazon API Gateway



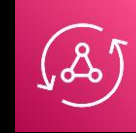
Amazon Simple
Notification Service
(Amazon SNS)



Amazon Simple
Queue Service
(Amazon SQS)

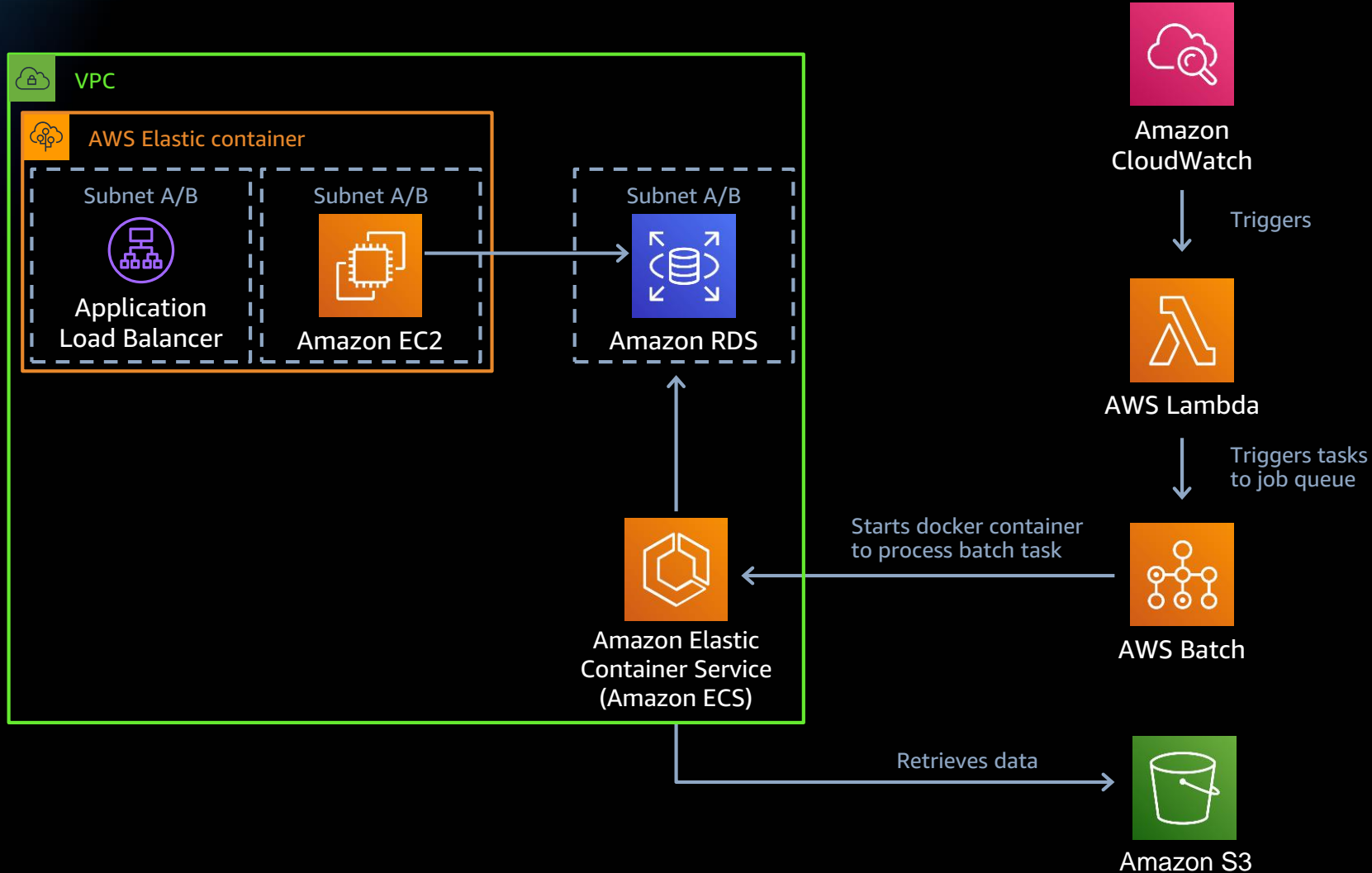


AWS Step Function



AWS AppSync

Bigger benefits when working together !





**The only constant
is change**

Businesses today
face unprecedented
business challenges
**BUT they also have
incredible opportunities
to reinvent themselves**

Visit the Modern Applications Resource Hub for more resources

Dive deeper with these resources to help you develop an effective plan for your modernization journey.

- Build modern applications on AWS e-book
- Build mobile and web apps faster e-book
- Modernize today with containers on AWS e-book
- Adopting a modern Dev+Ops model e-book
- Modern apps need modern ops e-book
- Determining the total cost of ownership: Comparing Serverless and Server-based technologies paper
- Continuous learning, continuous modernization e-book
- ... and more!



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