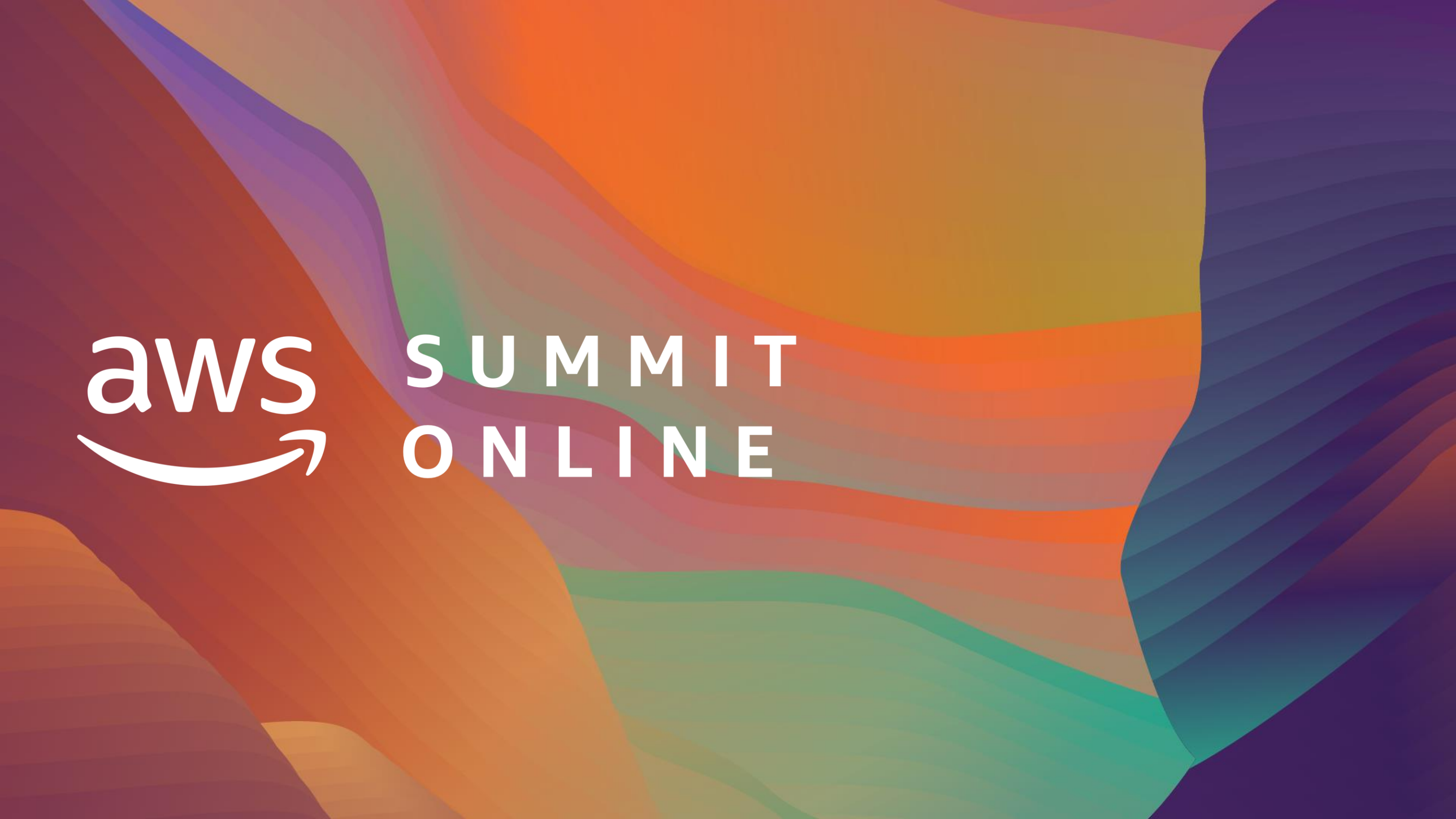
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IMM01

Enterprise cloud migration meets application containerisation on AWS

Gaurav Arora

Senior Partner Solutions Architect
Amazon Web Services

aws SUMMIT ONLINE

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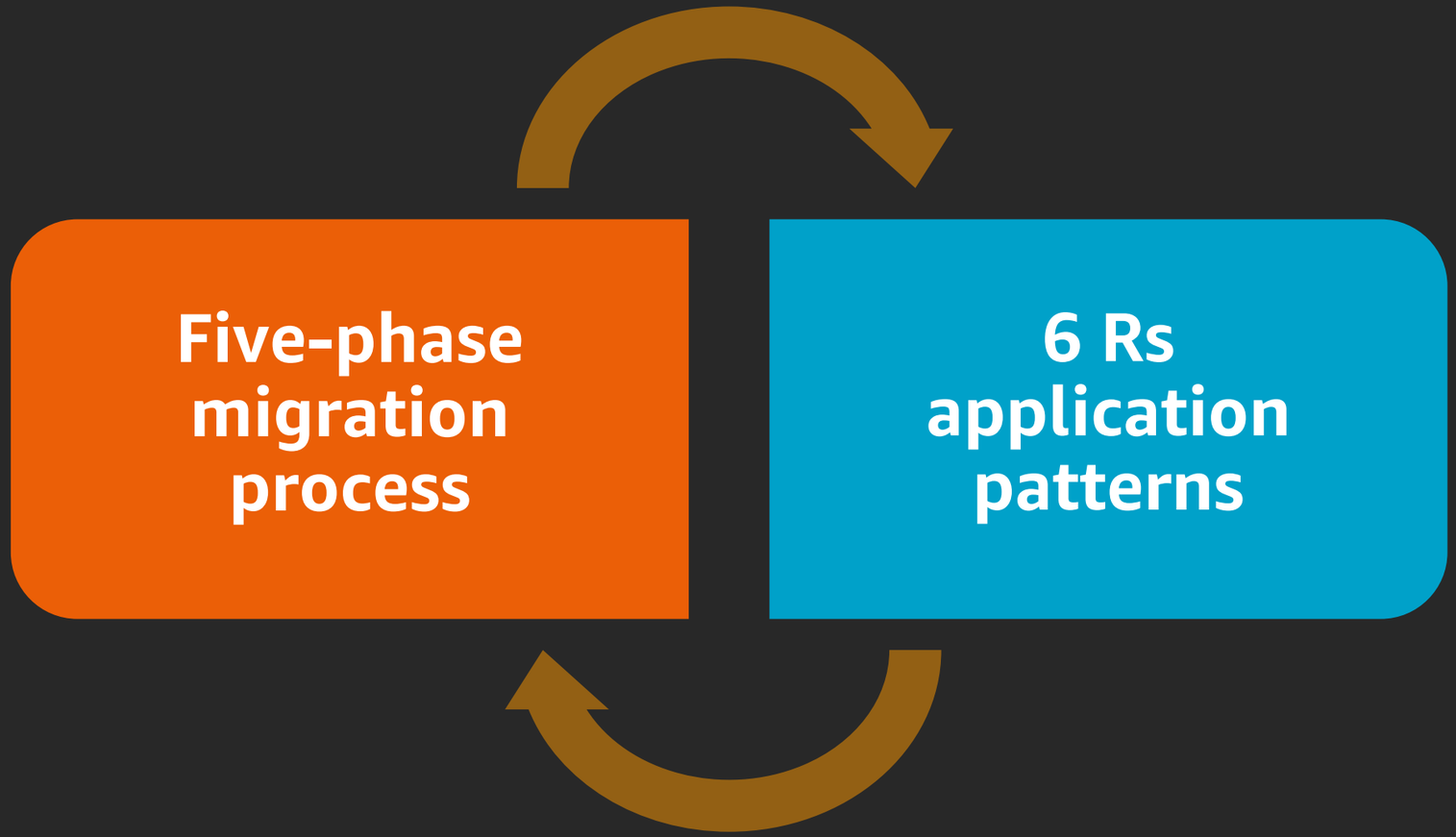
AWS cloud migration framework



AWS cloud migration framework

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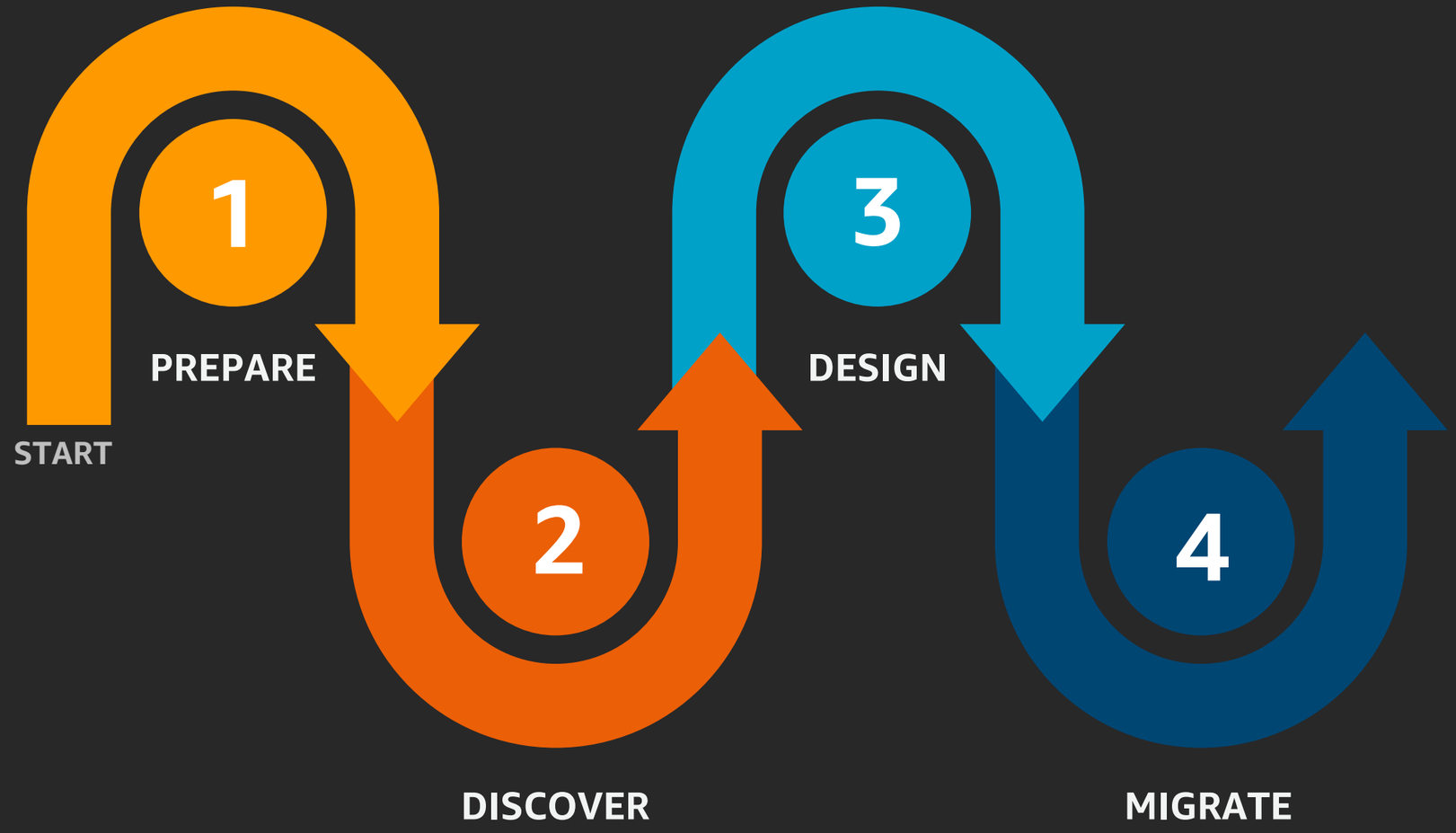
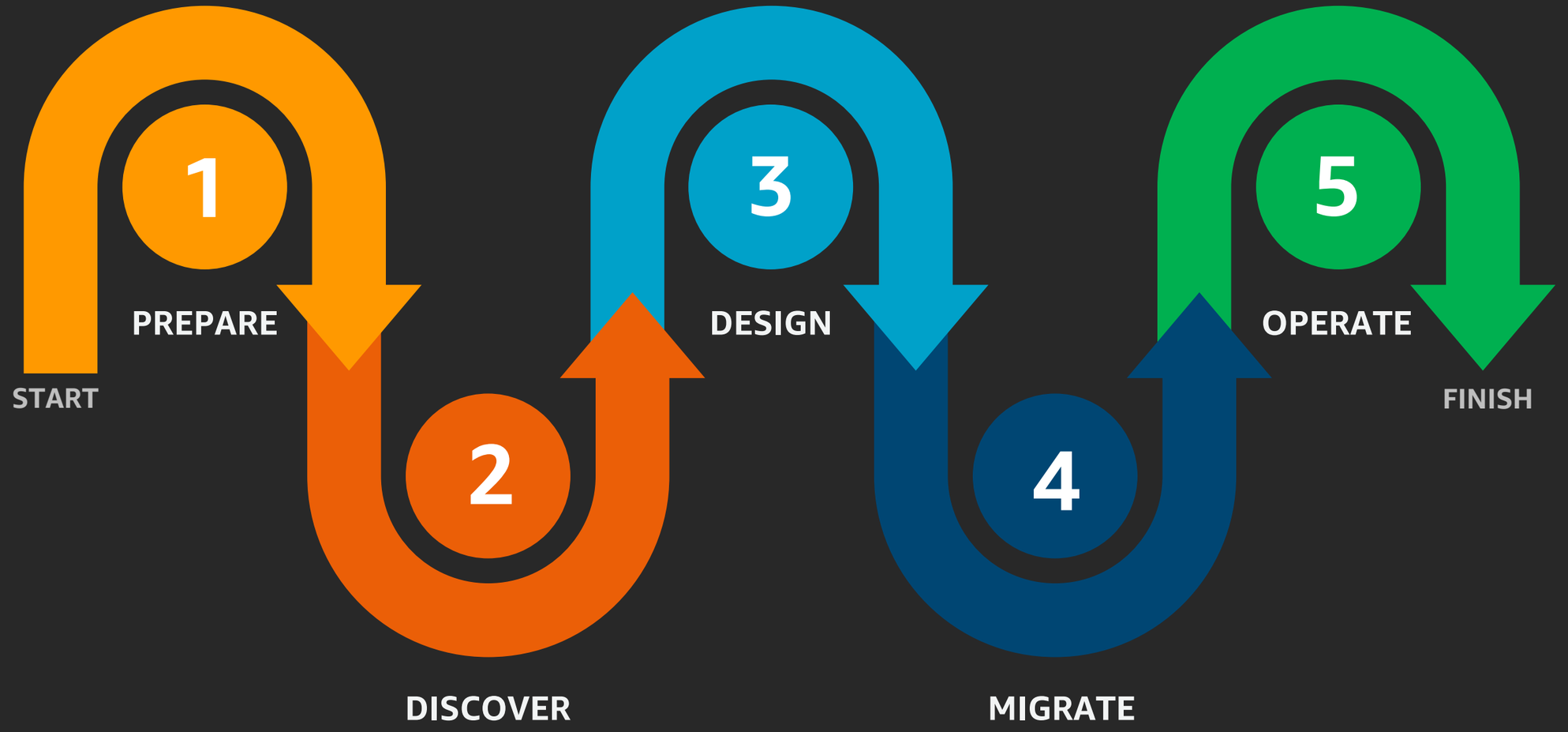


AWS cloud migration framework

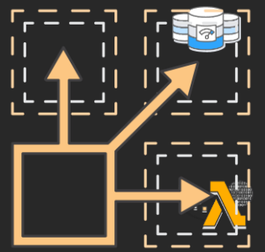


AWS migration patterns (“6 R’s”)

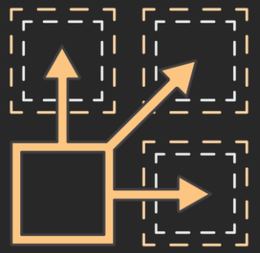
Retain

Replace

Retire



Replatform



Rehost

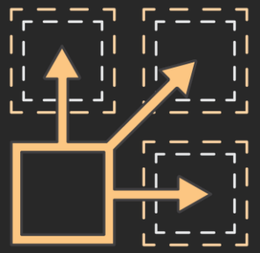
Refactor

AWS migration patterns (“6 R’s”)

Retain

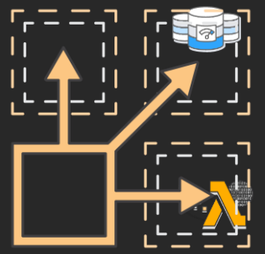
Replace

Retire



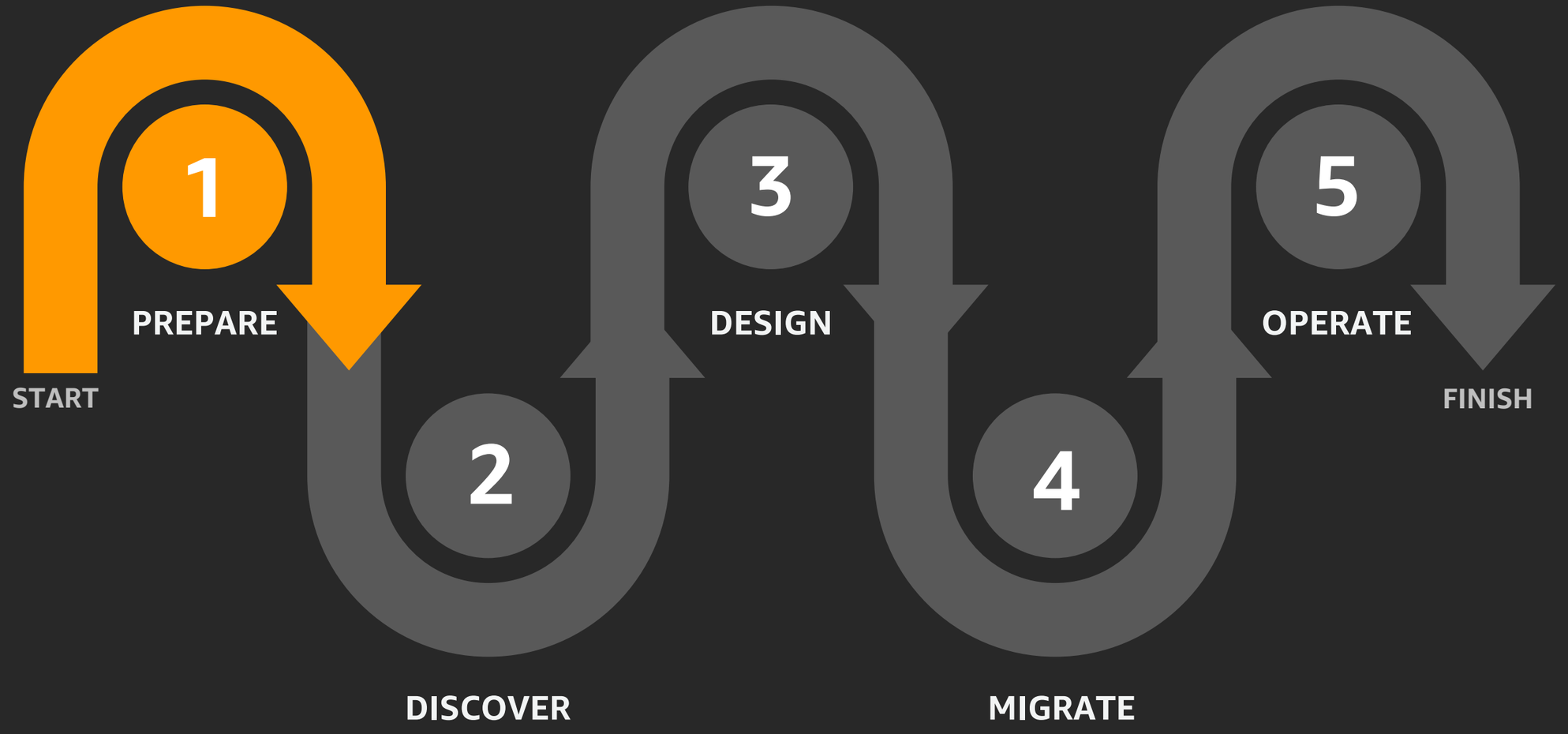
Rehost

Container Focus



Replatform

Refactor


1
PREPARE
START
2
DISCOVER
3
DESIGN
4
MIGRATE
5
OPERATE
FINISH

Proof
ALL HANDS
4/24/2019
WIN
ANNAPOLIS, MD
#CUSTOMER OBSESSED
HUNGRY
YOU
SMART
HUMBLE
BRAZOS
80

Business value

kubernetes

docker

=

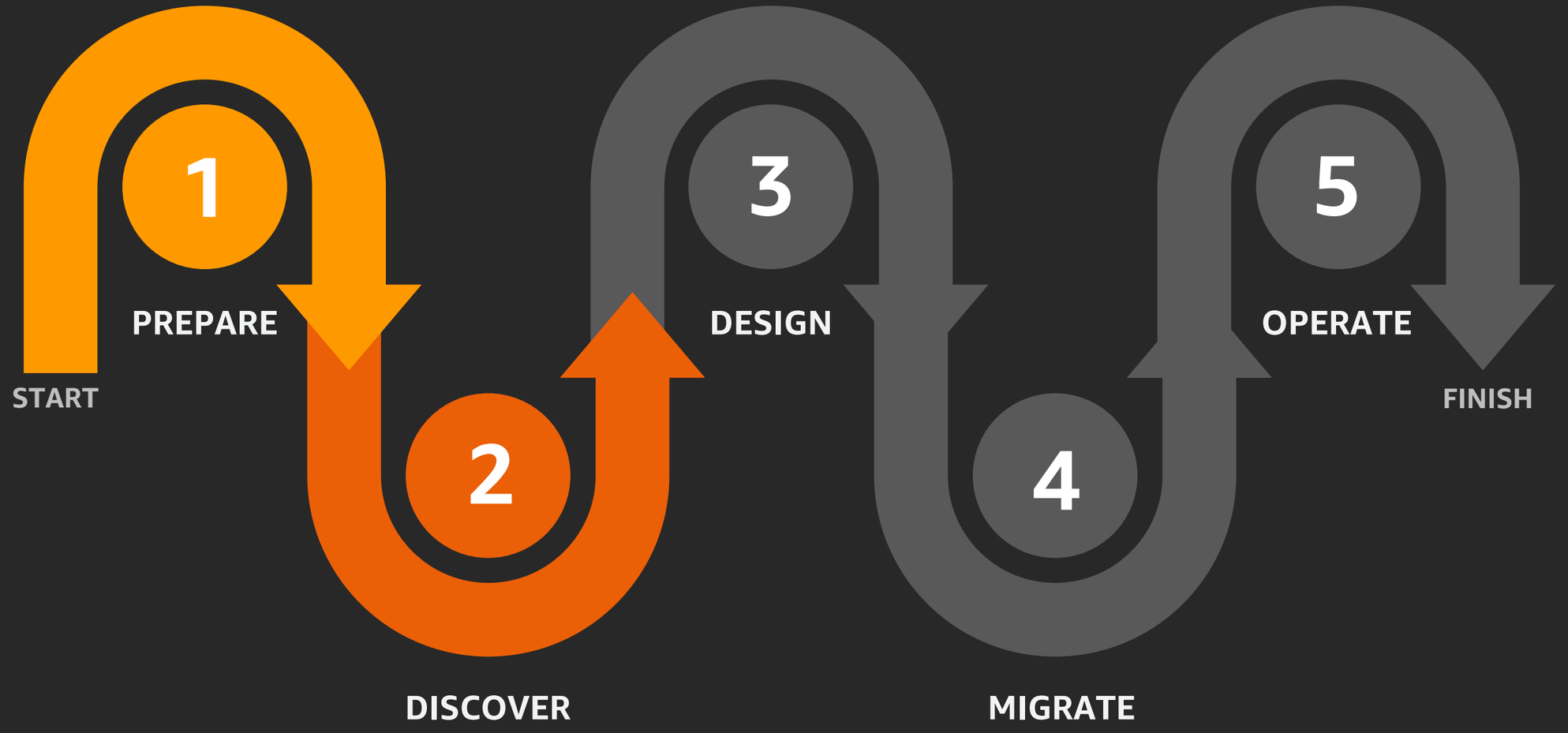
Agility

+

Productivity

+

Cost
Optimisation


1
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START
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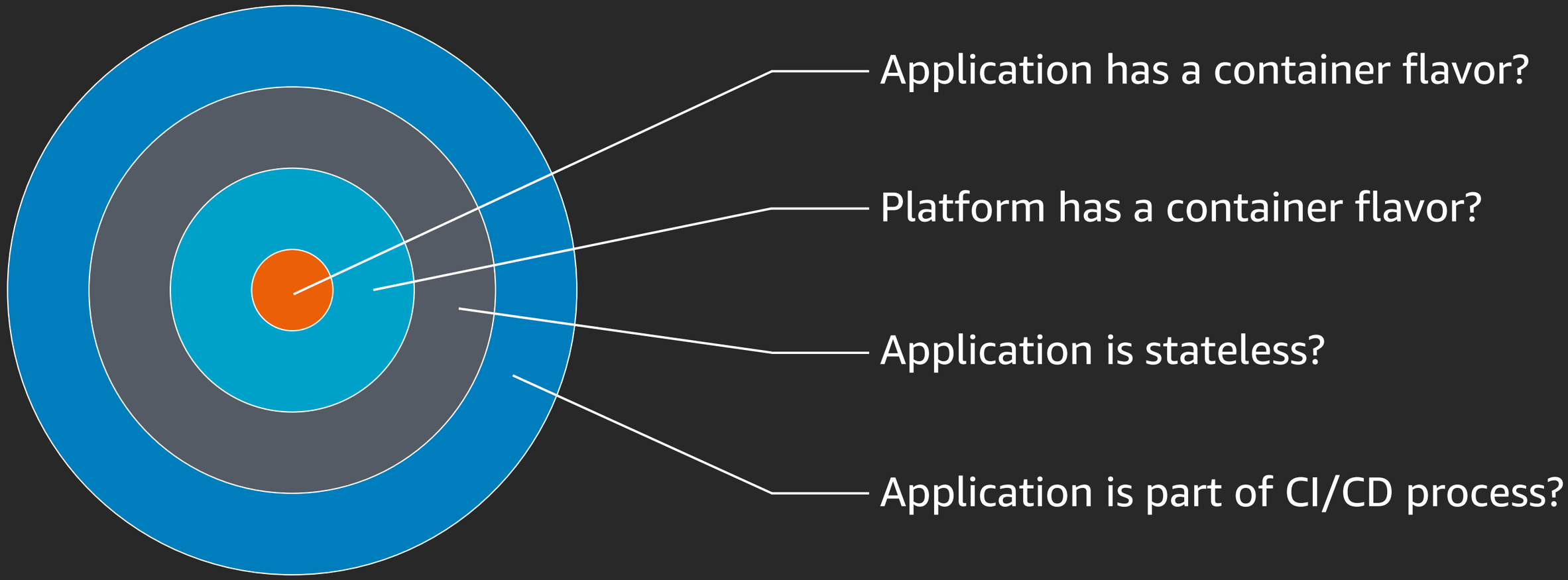
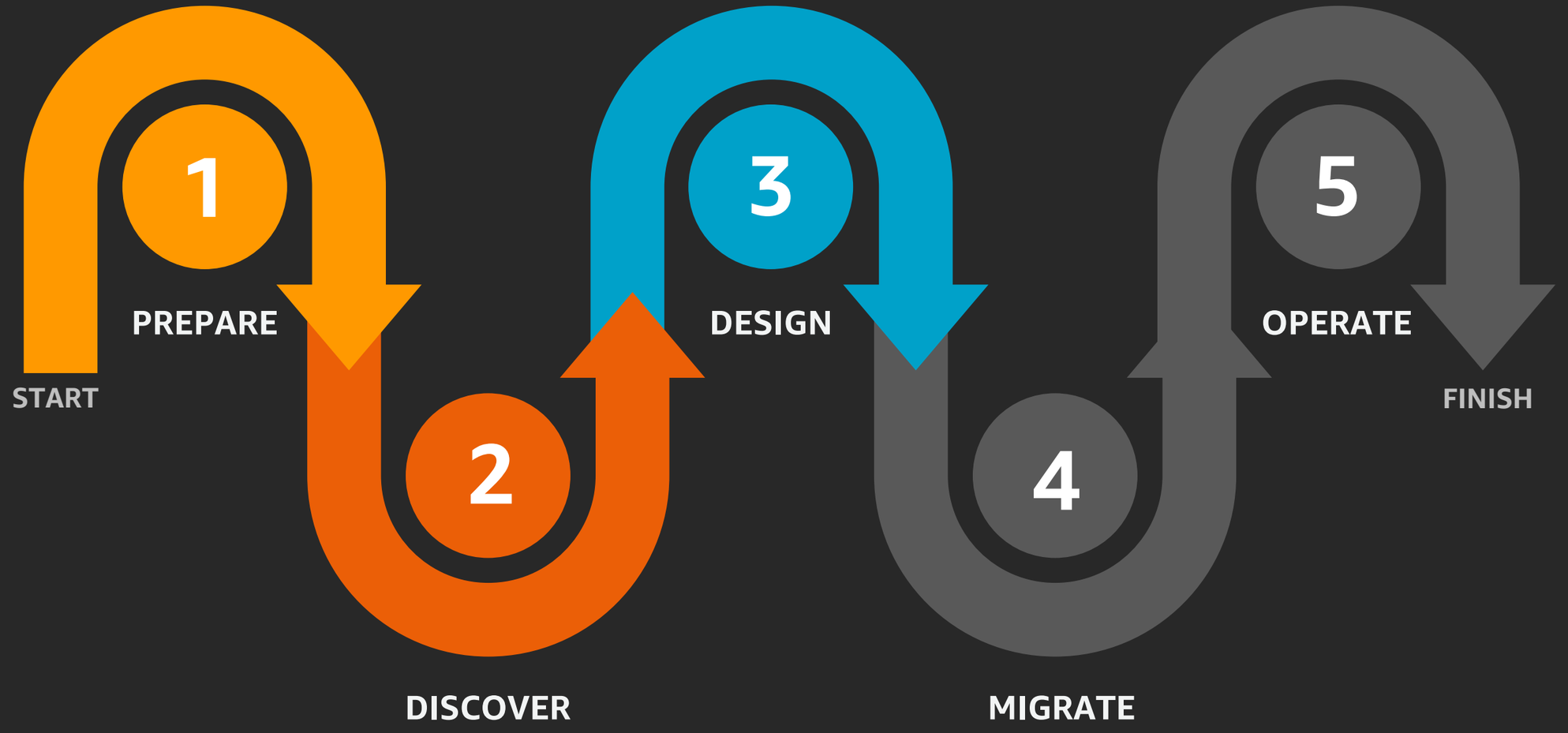
Application discovery

- Application binaries
- Data and configuration
- Application dependencies
- Network protocols
- Licensing restrictions

Application qualification




1
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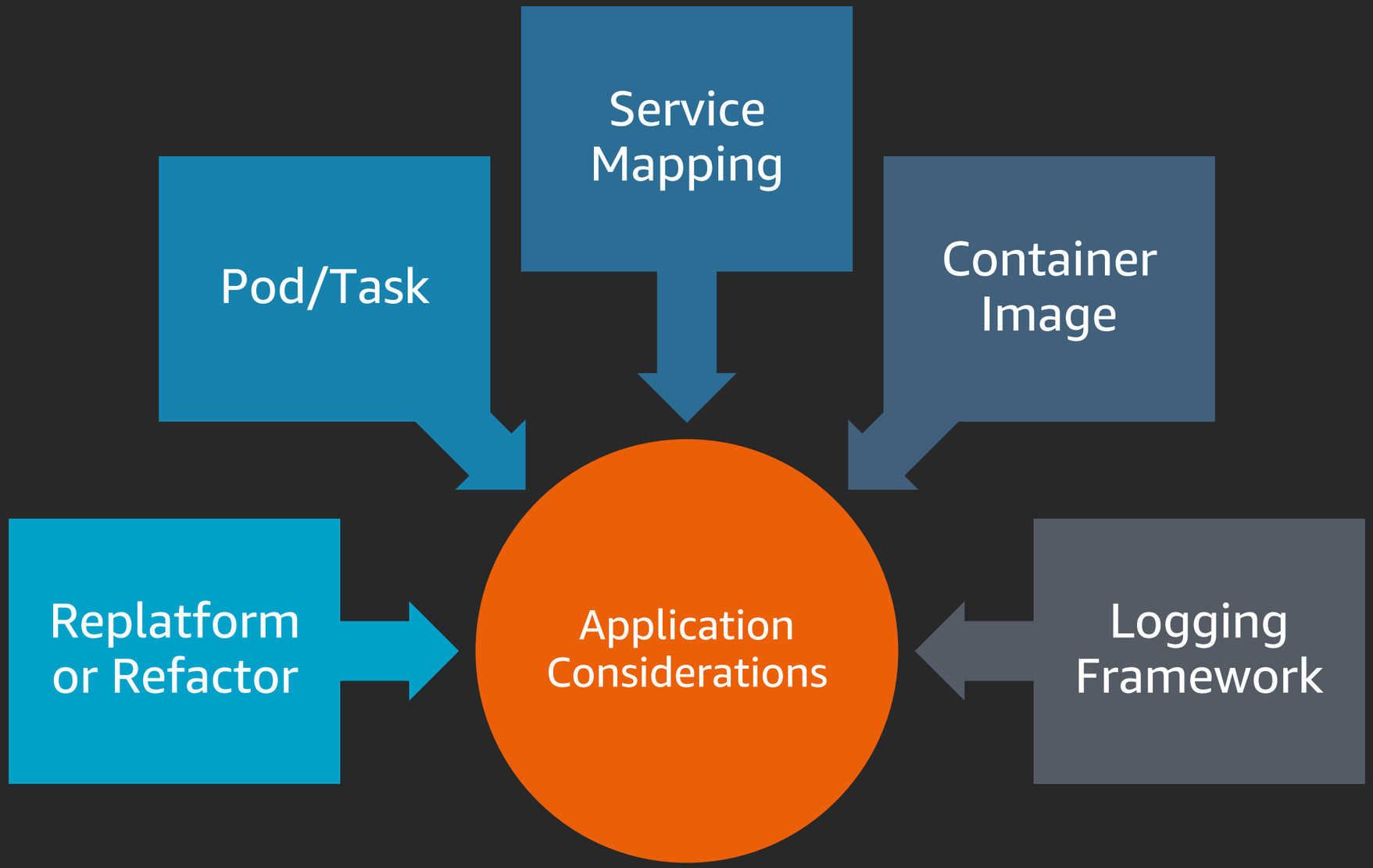
AWS architecture

Container service

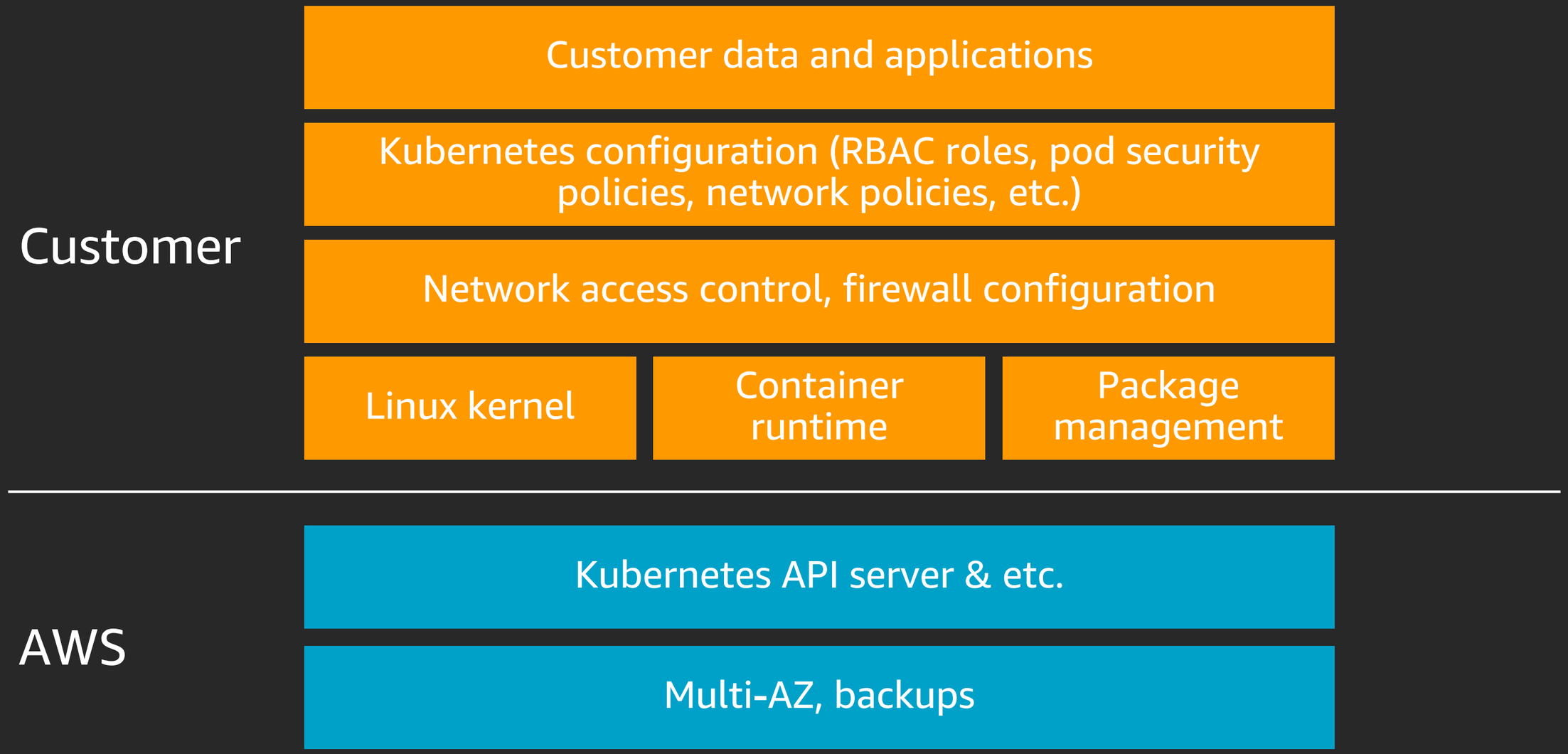
Container Management

- Managed or Self?
- Cluster Design
- Service Discovery
- Pod Networking
- Container Registry

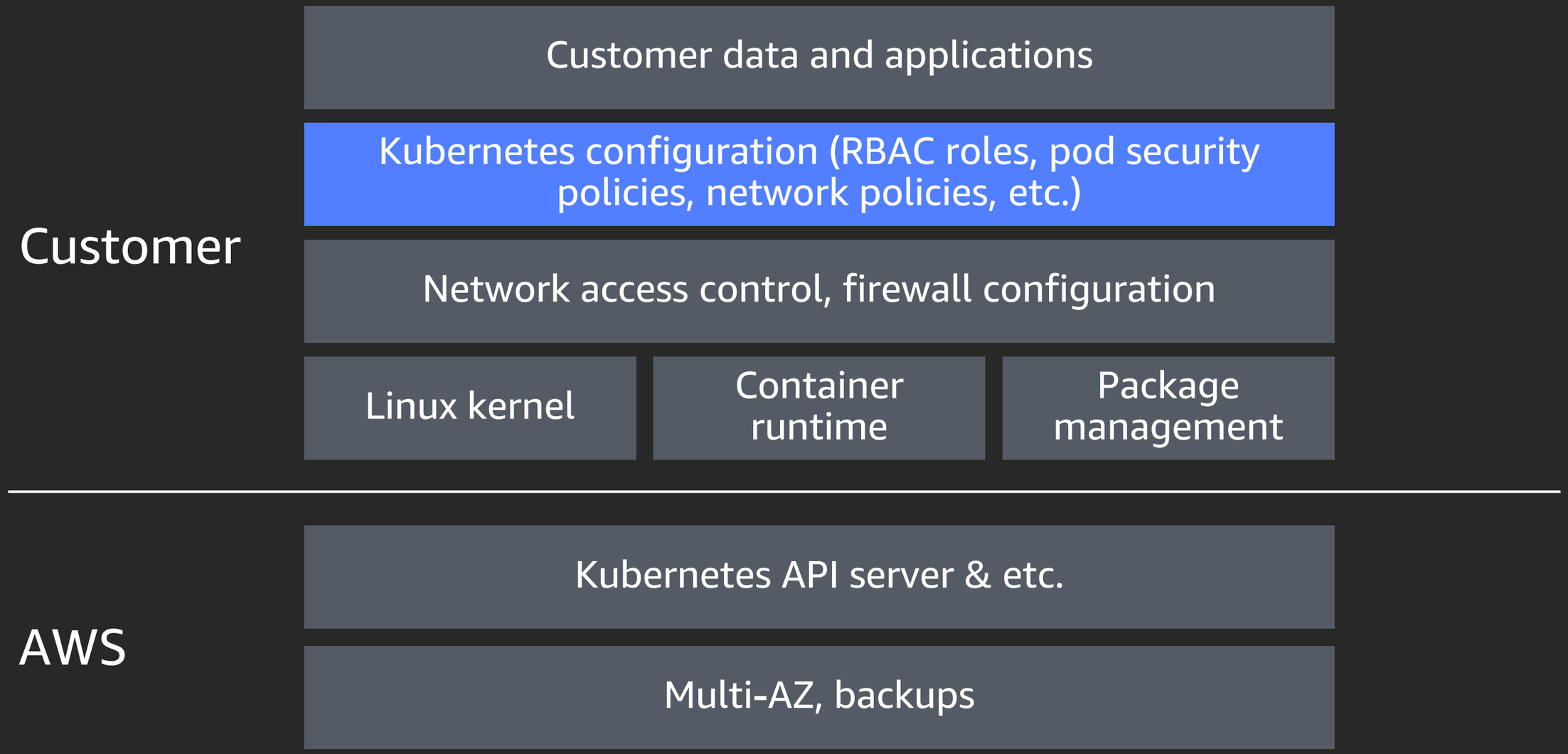
Application



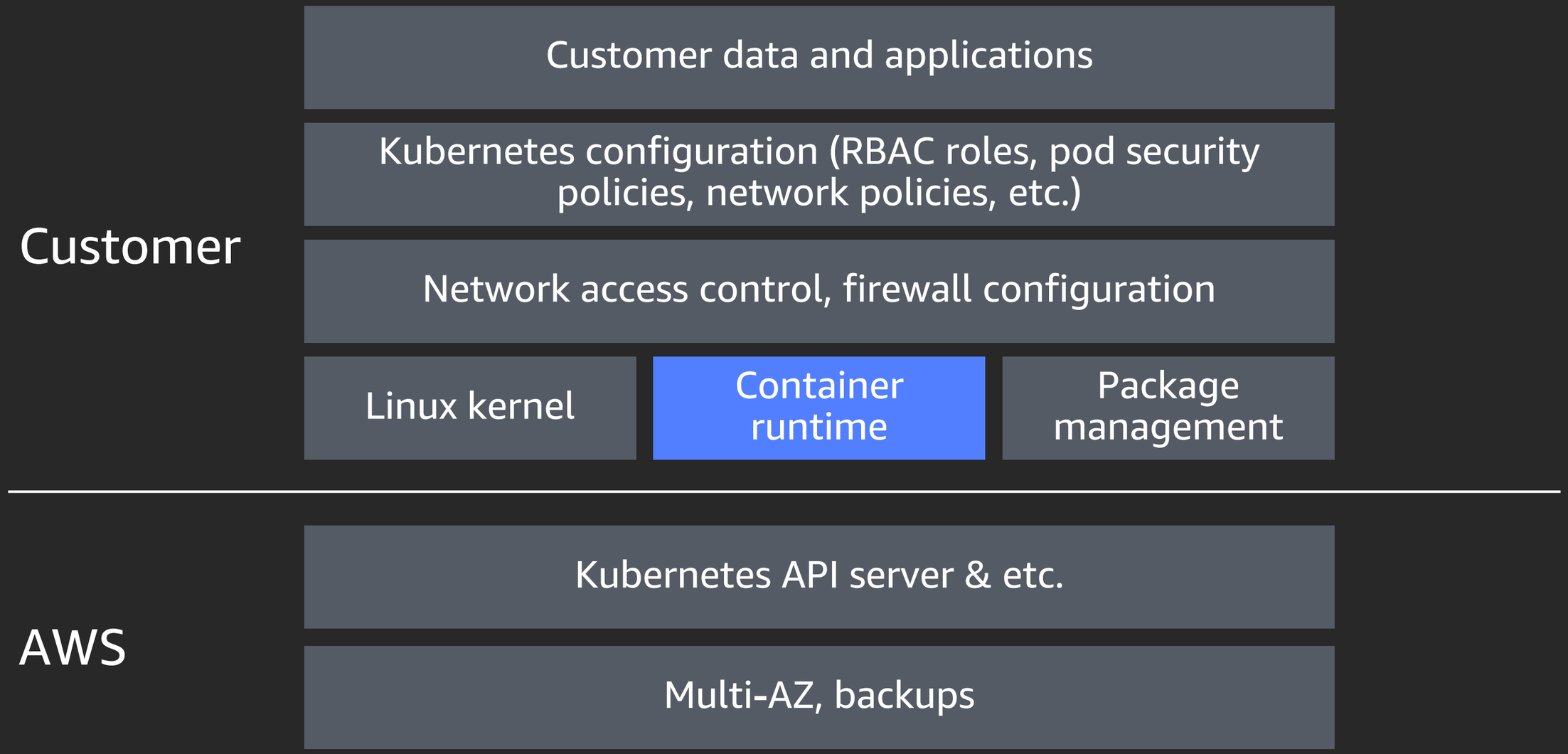
Security shared responsibility model



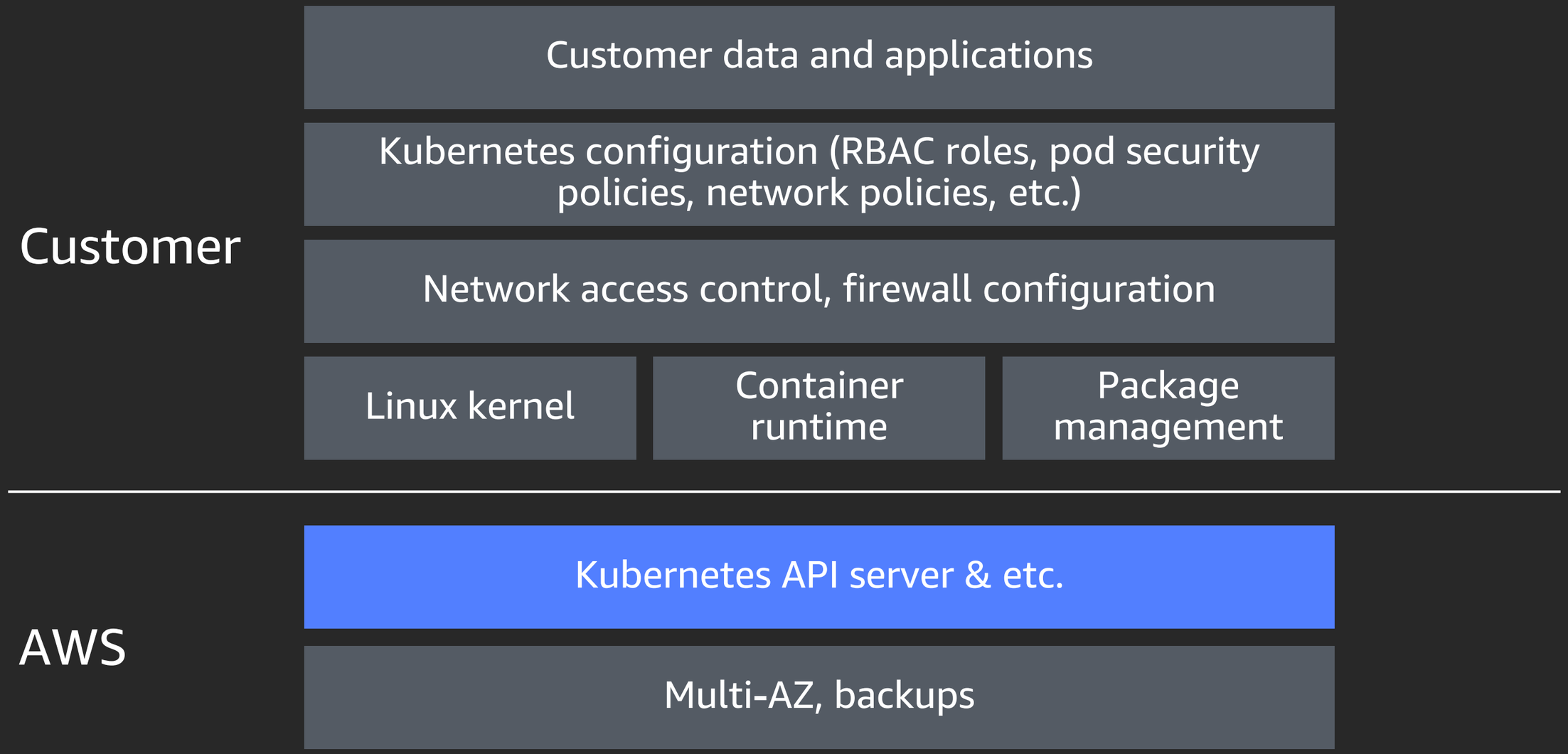
Security shared responsibility model



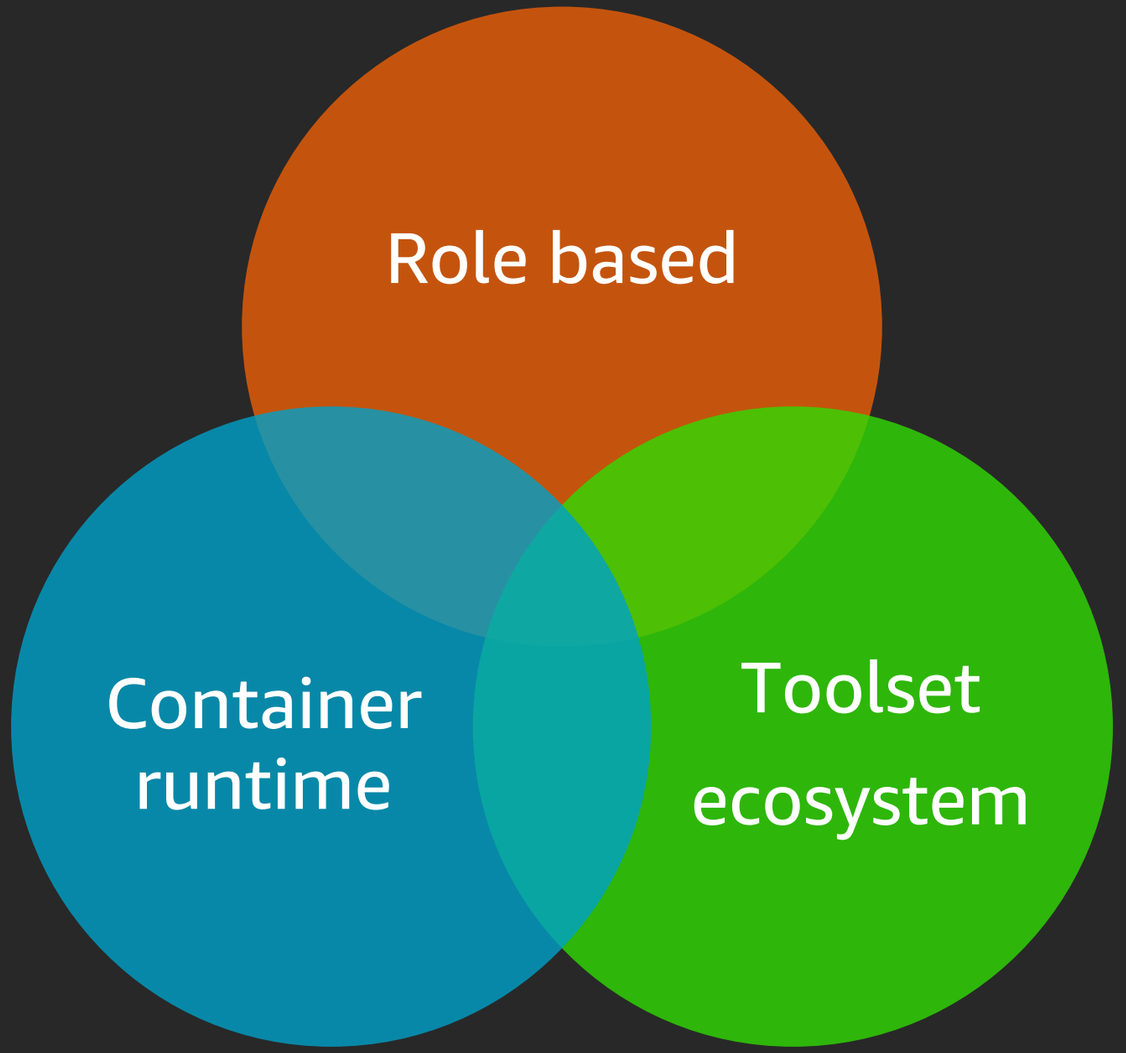
Security shared responsibility model

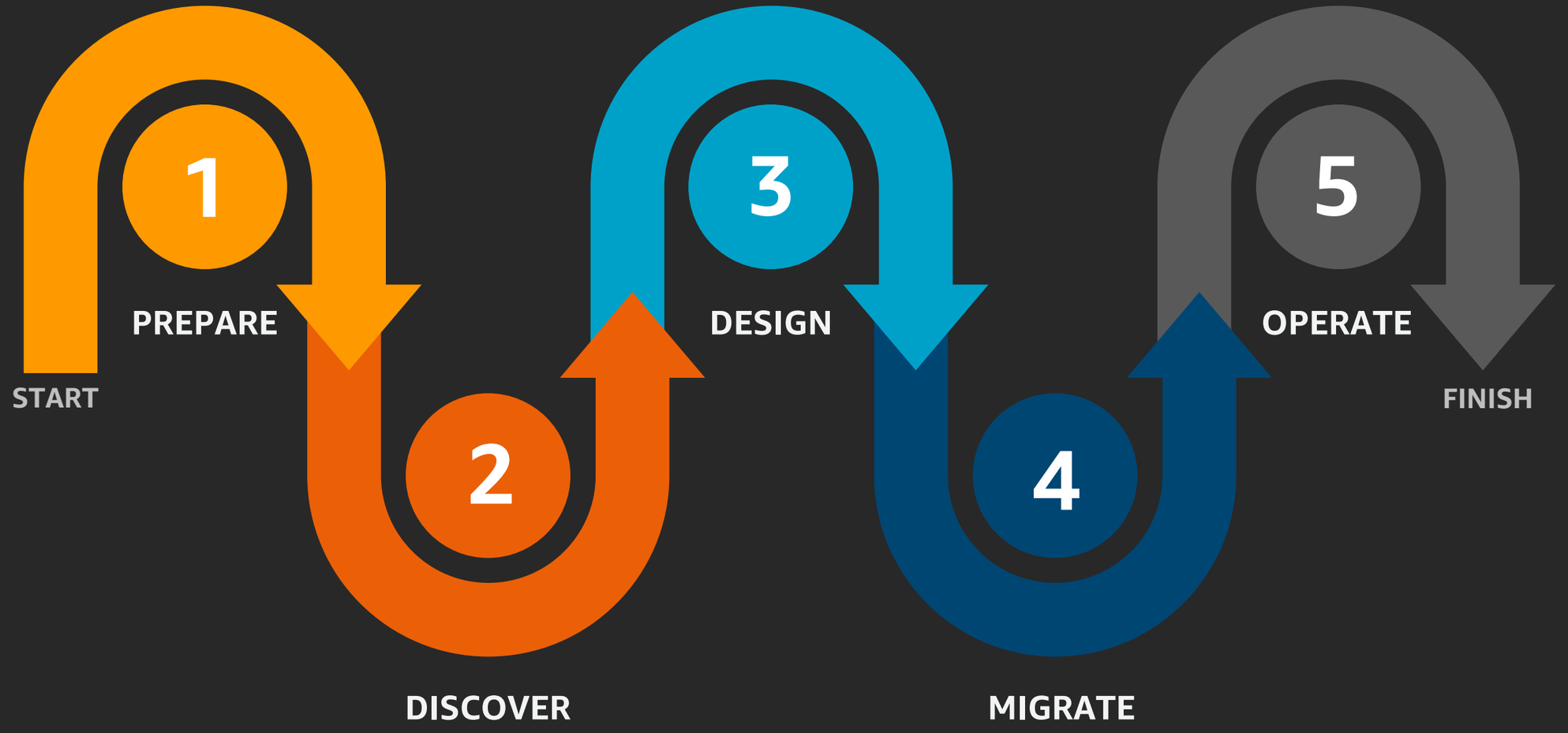


Security shared responsibility model



Observability

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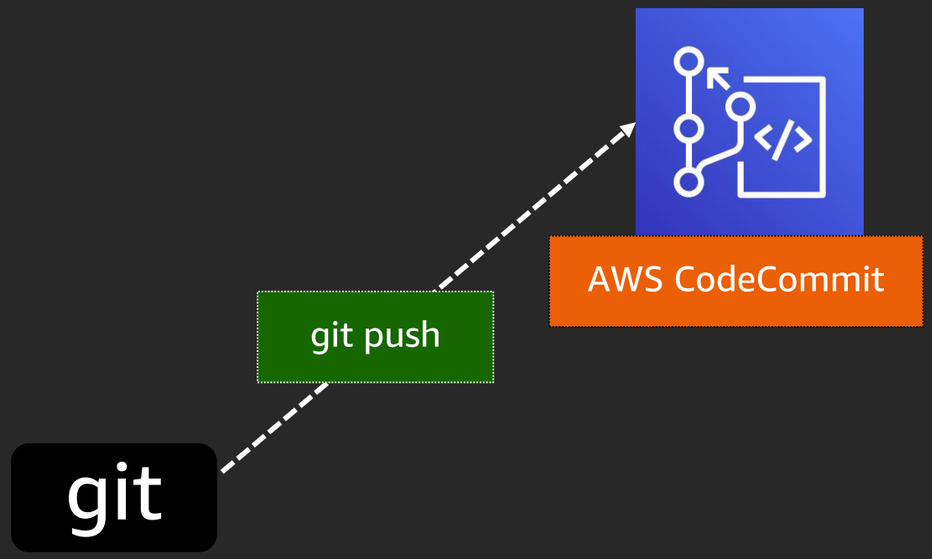
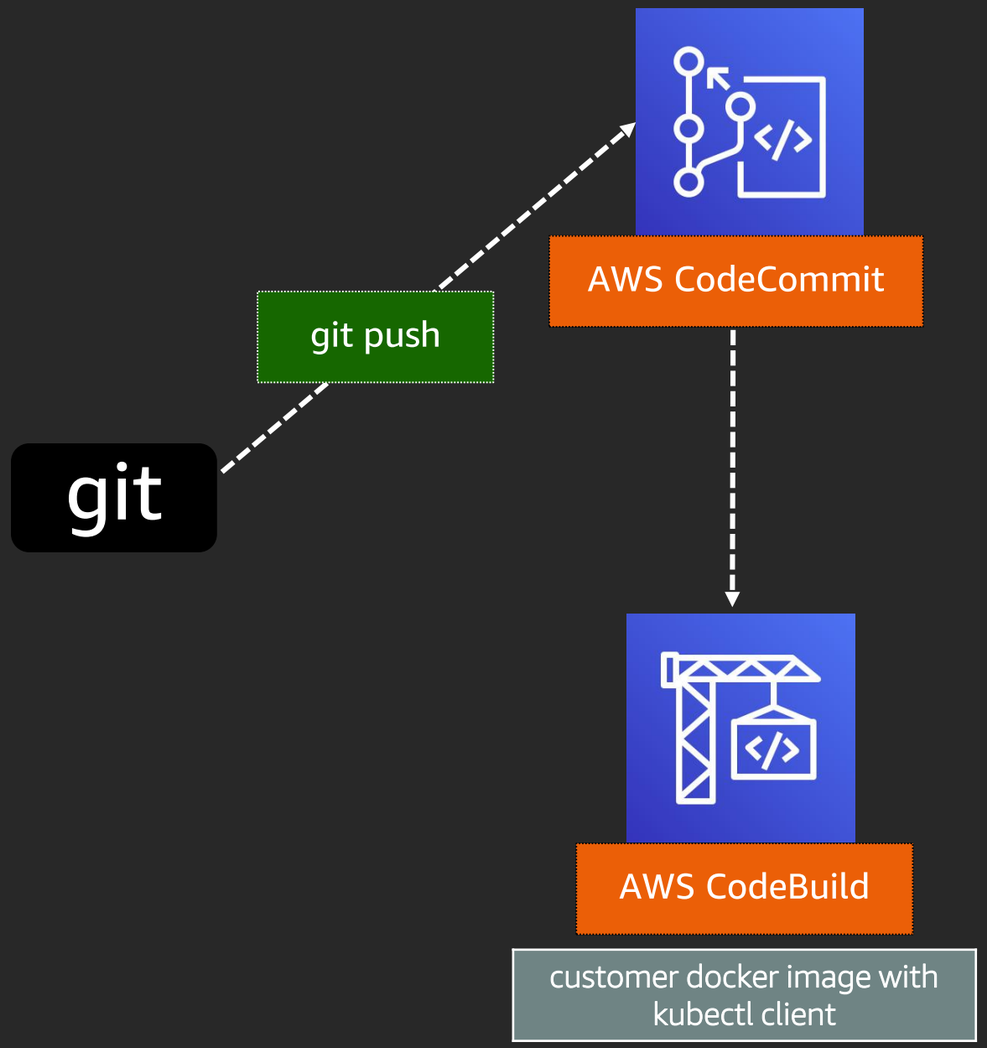
Migration pipeline

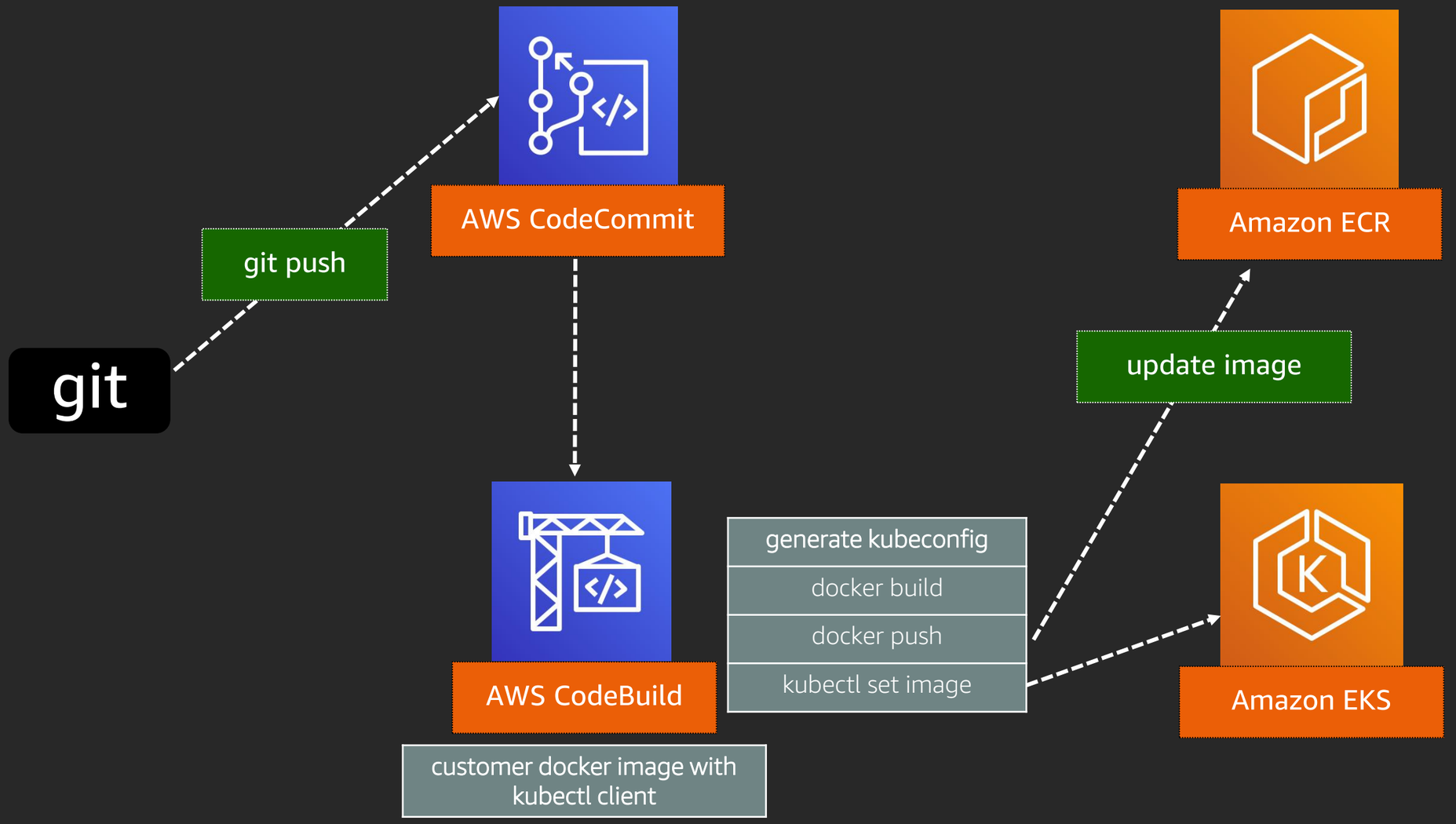
Migration pipeline



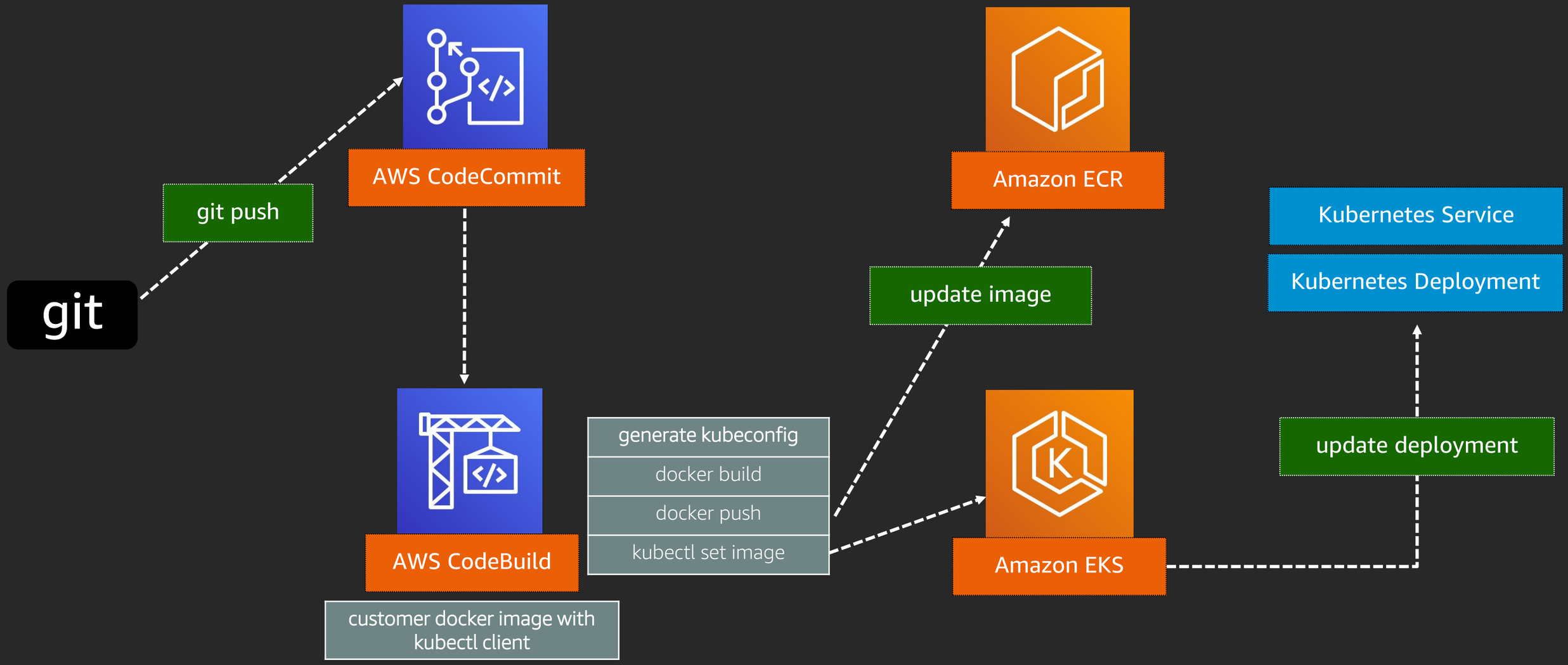
Migration pipeline



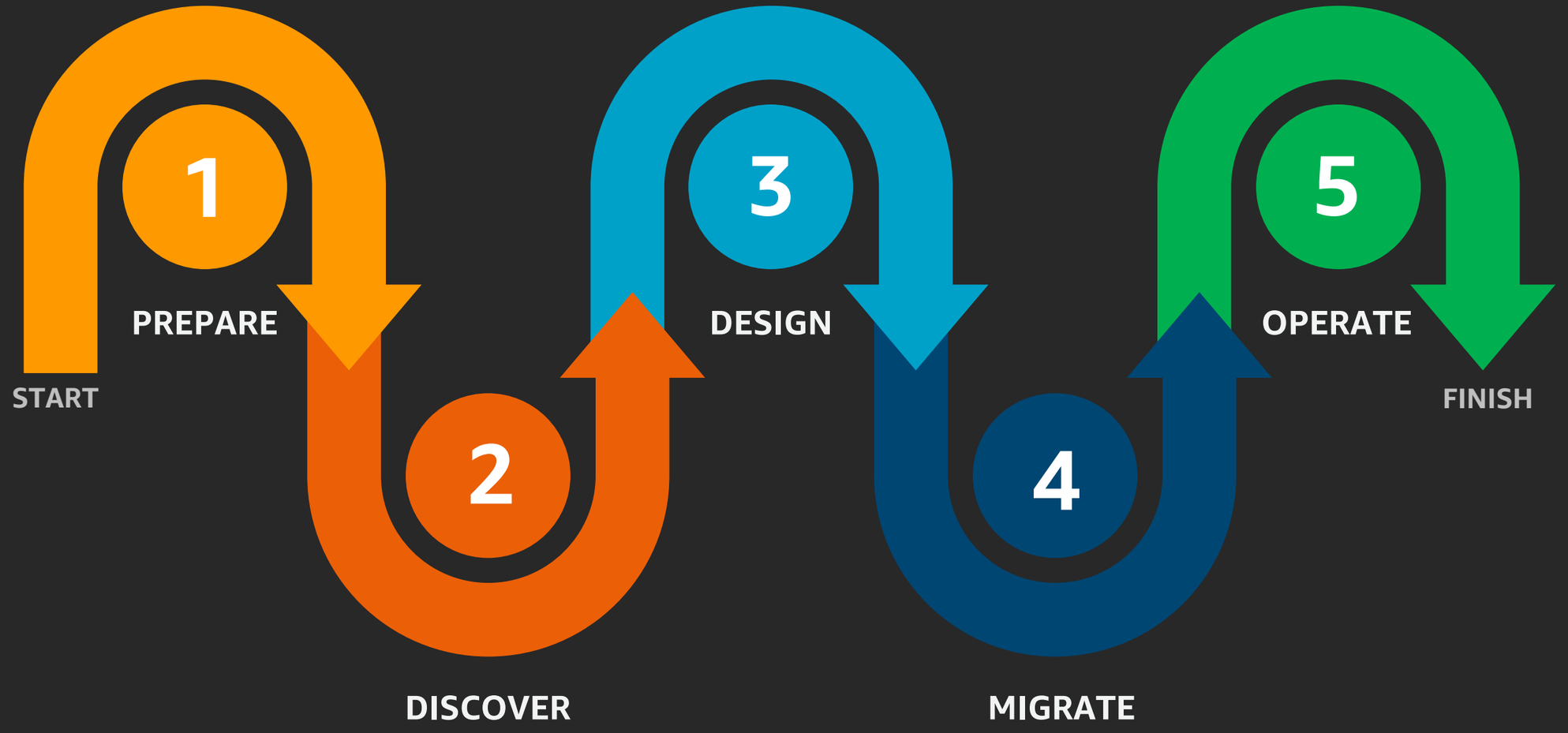
Migration pipeline



Migration pipeline



https://github.com/aws-samples/amazon-eks-cicd-codebuild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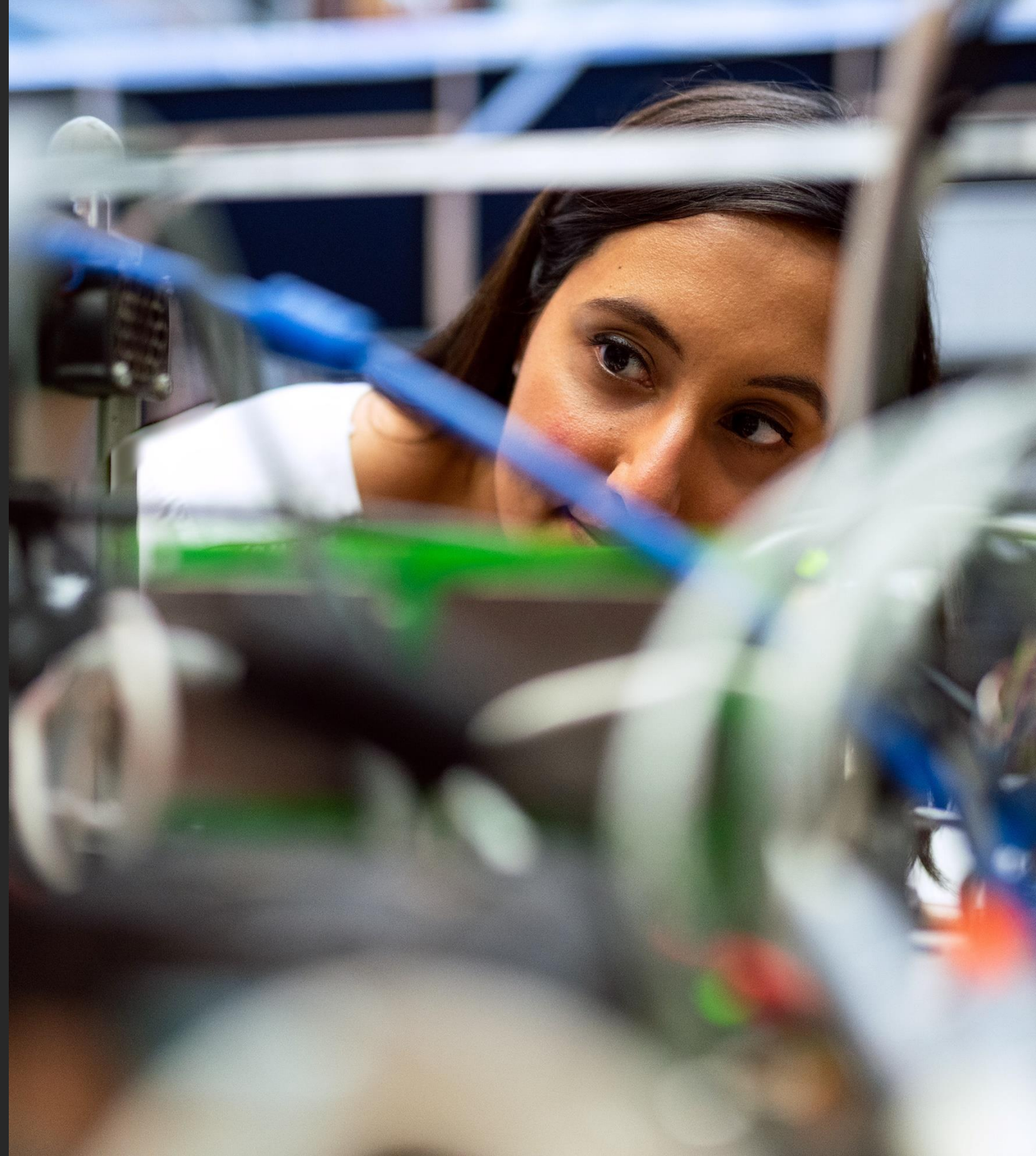
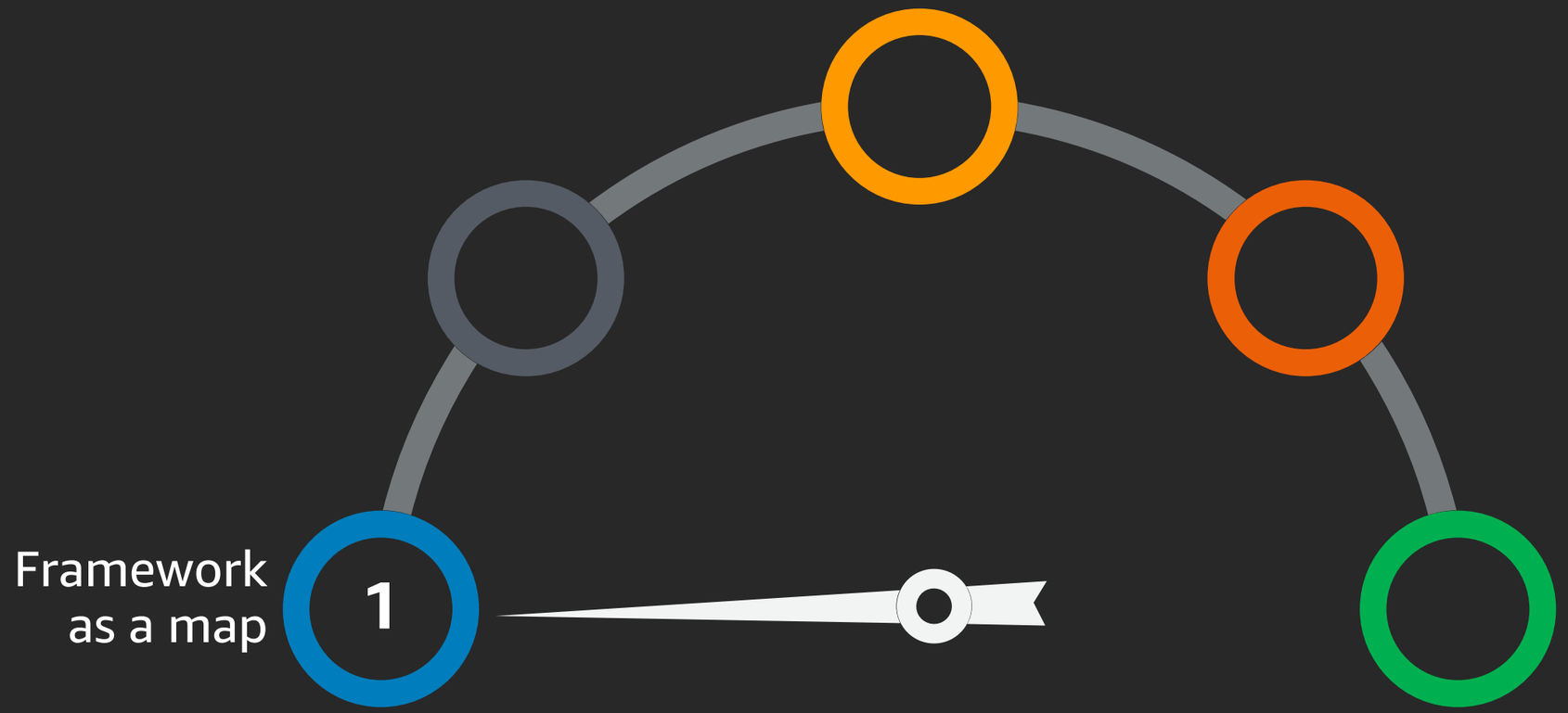
Operations

- 12-factor principles
- Cluster maintenance
- Container image tagging
- Configuration as-a-Code



Summary

Summary



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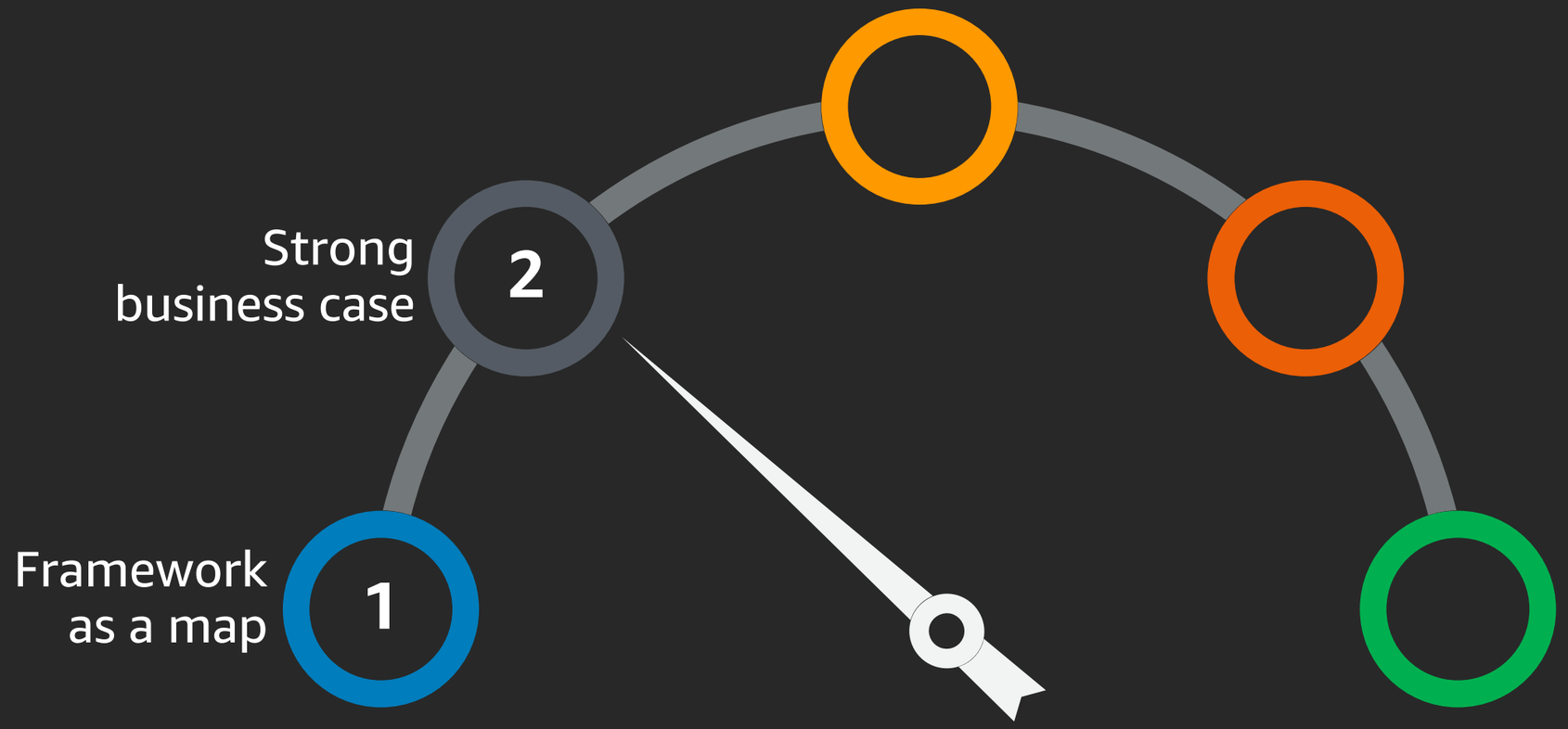

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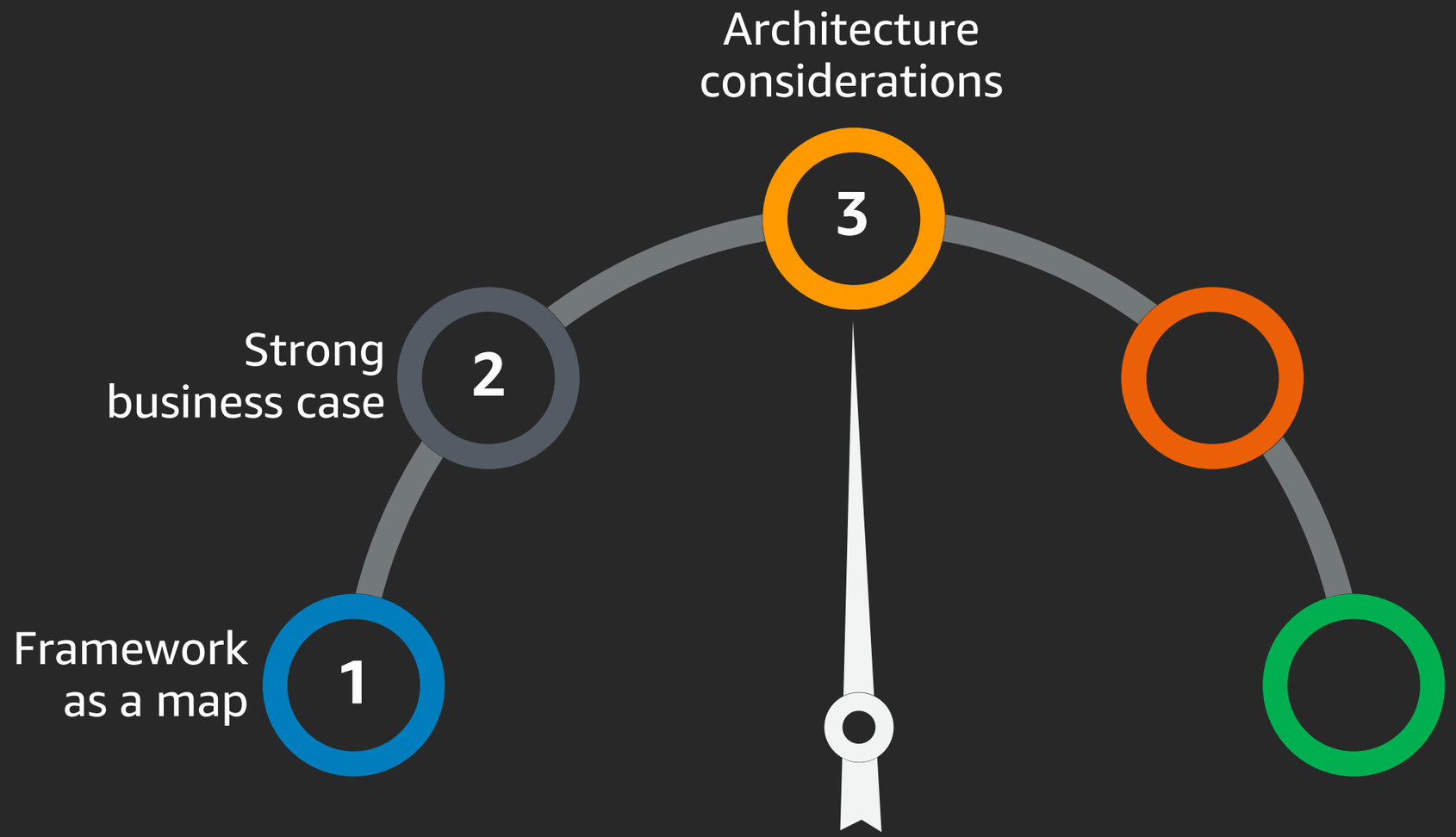
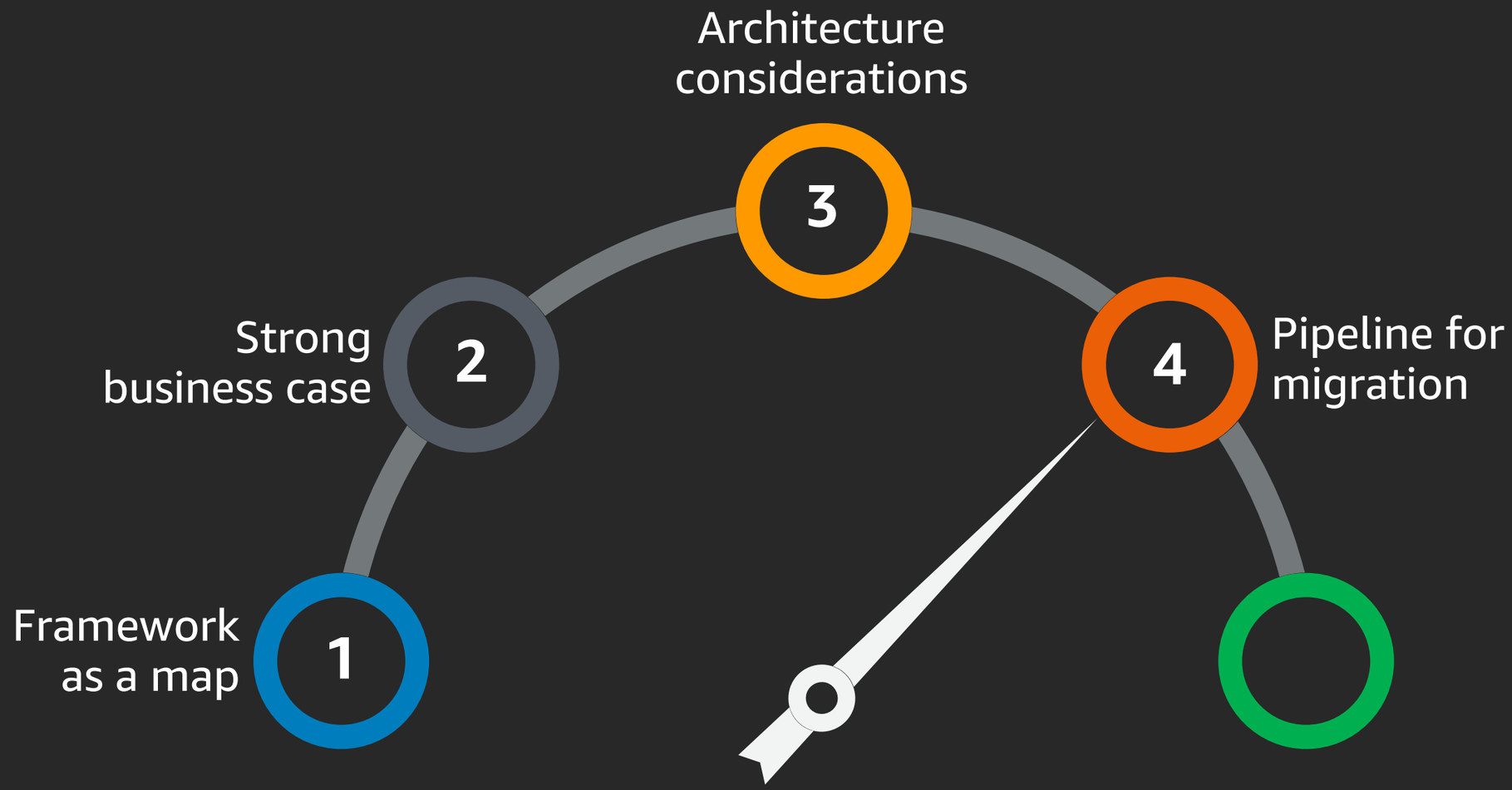

Architecture considerations
3
Strong business case
2
Framework as a map
1

Summary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Pipeline for migration
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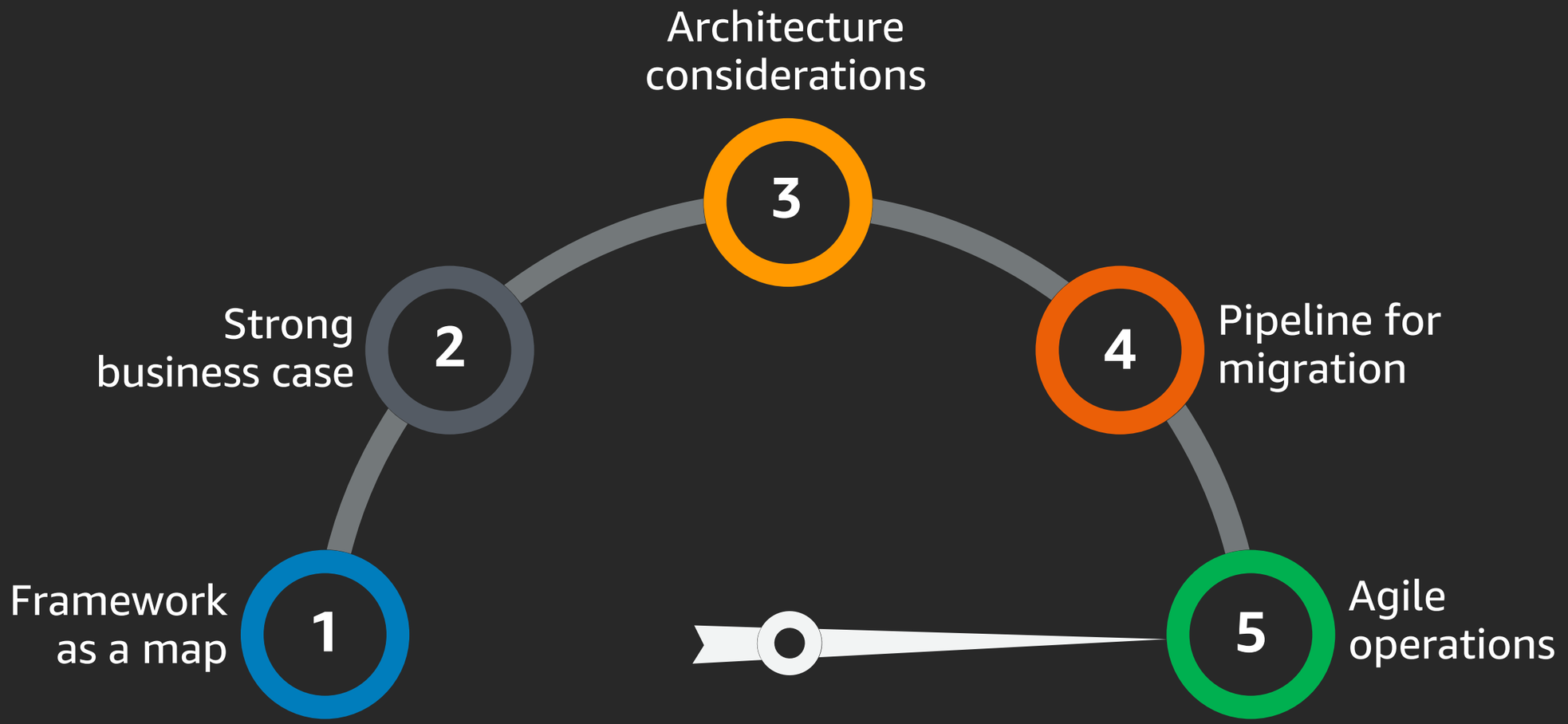
Summary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4
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Framework as a map
1
5
Agile operations

Thank you!

Gaurav Arora

gauraar@amazon.com

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