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MIG001

Accelerating Migration & Modernization Journey on AWS

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AWS

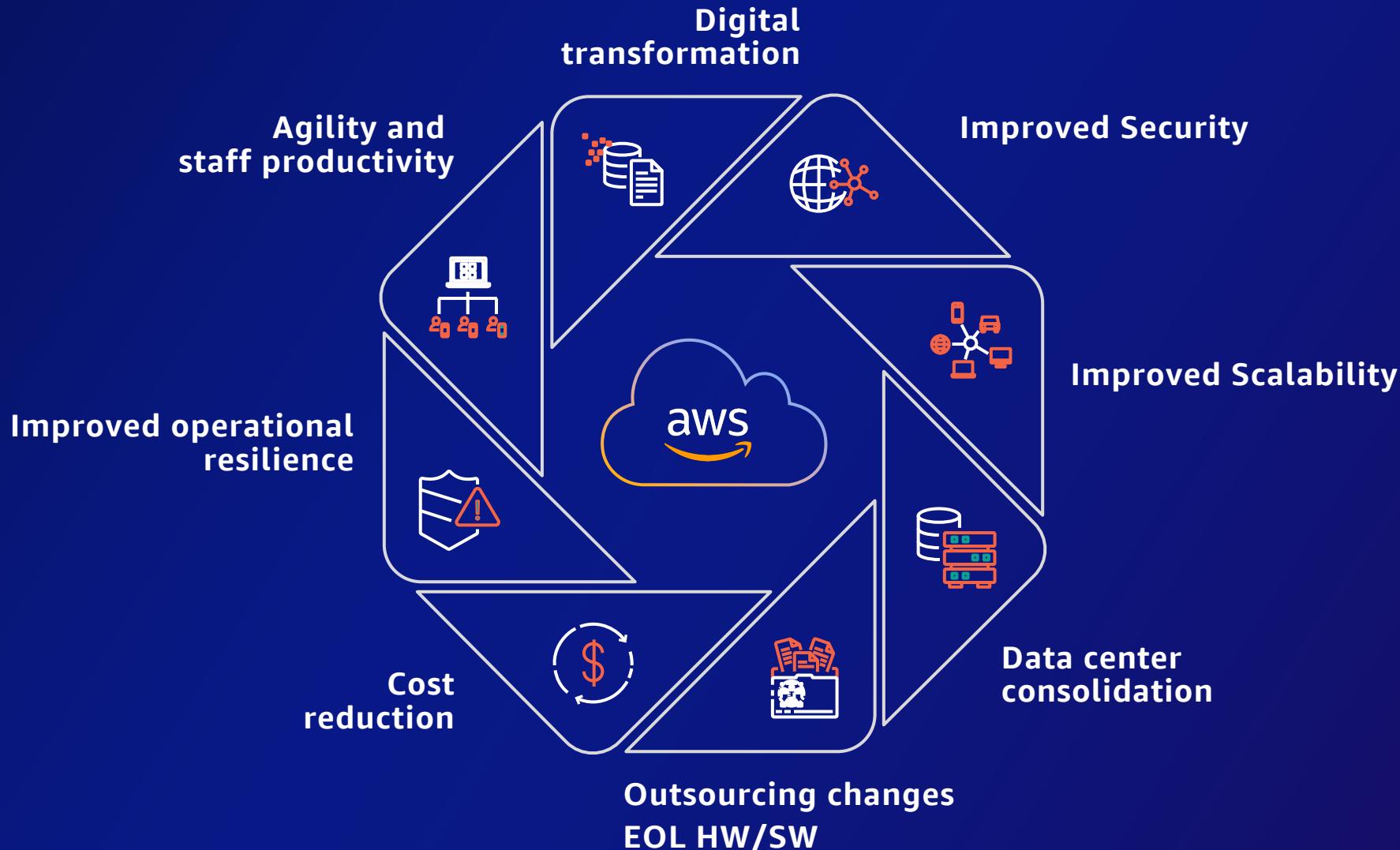


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Agenda

- Why customer migrate on AWS
- Migration Acceleration Program
- Understanding Typical successful cloud journey
- Next Steps

Why customers migrate and modernize



Common questions

How do I create a business case?

What do I have in my environment?

How do I get started?

What should I move to the cloud?

Which workloads do I move first?

How do I move these workloads?

What do we do after we migrate?

How do I get my team re-skilled?

Methodology



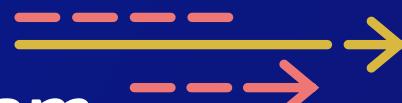
Tools



Partners



**AWS Migration
Acceleration Program**



Investment



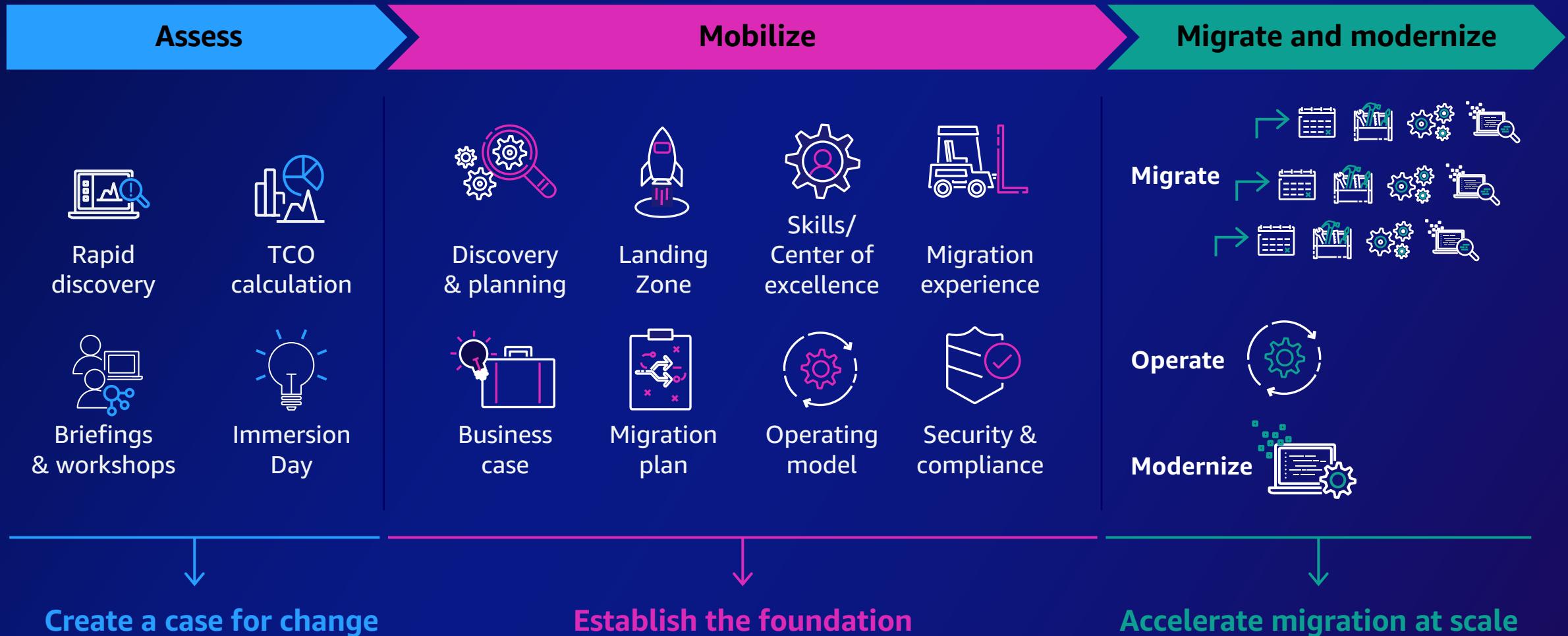
Training



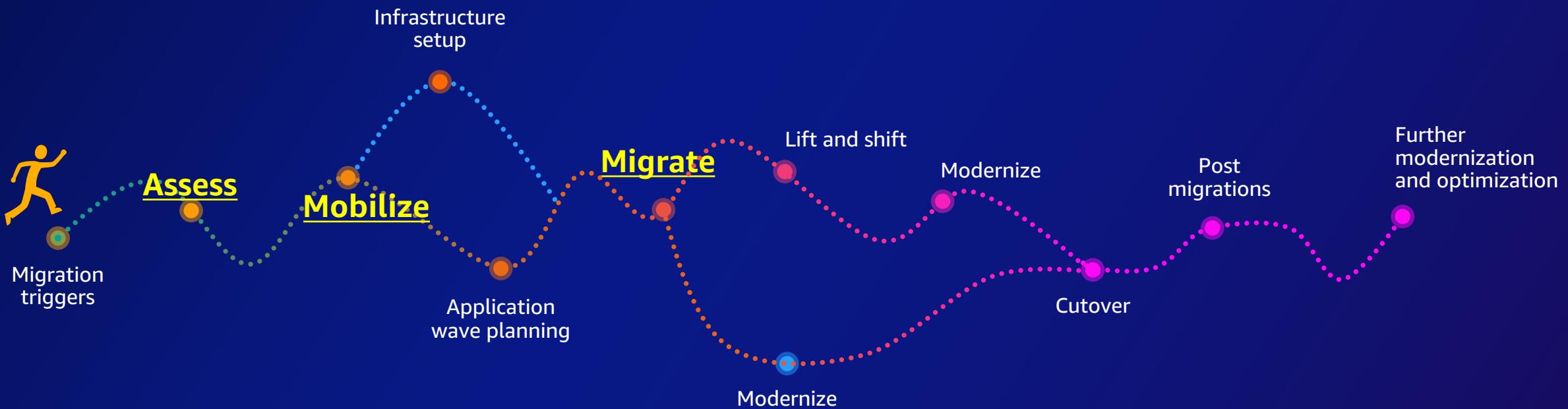
Services



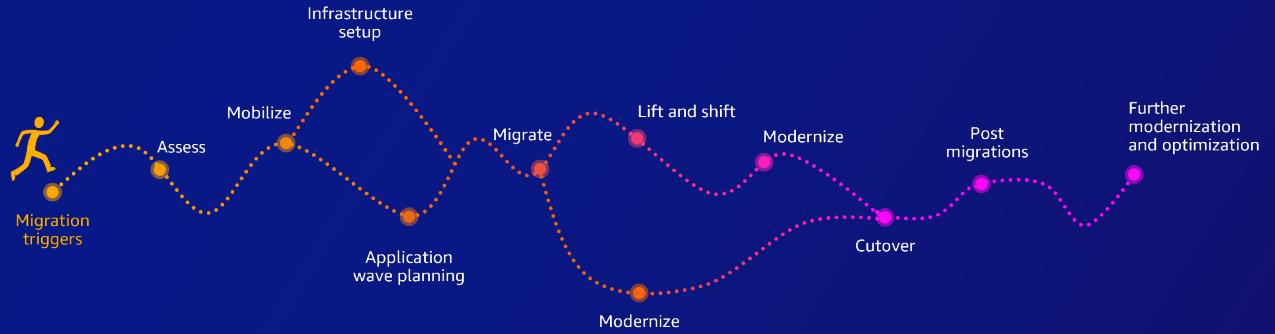
Migration customer journey



The journey



Migration drivers



Business scenarios

Financial scenarios

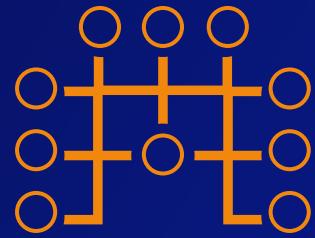
Infrastructure limitations

Applications modernization

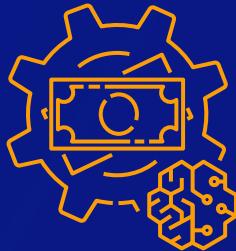
The journey



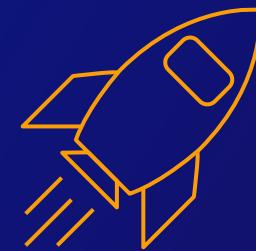
Assess



**Inventory assessment &
Dependency mapping**



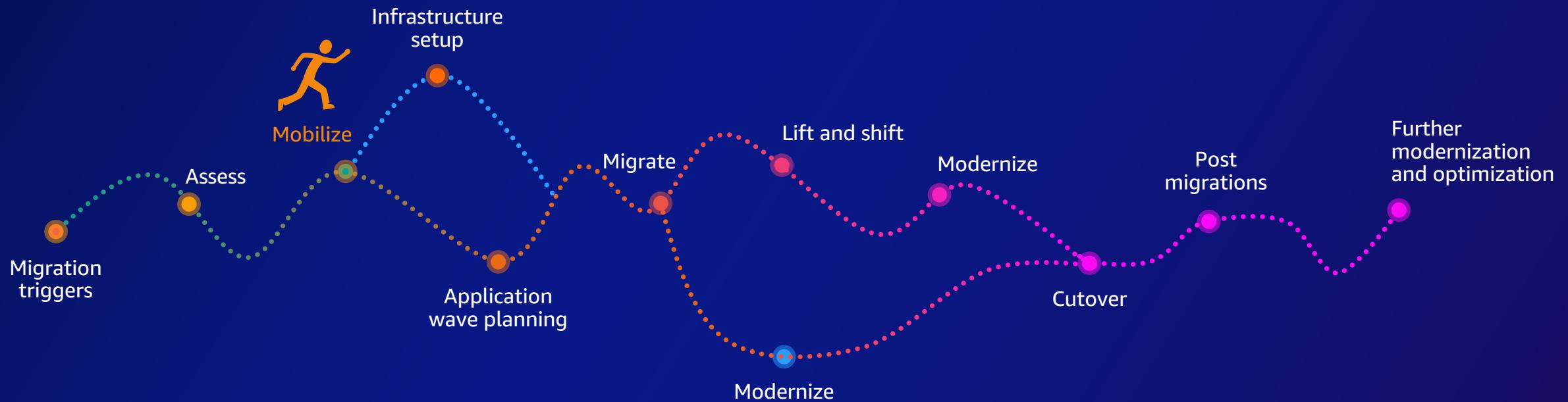
Cost analysis



Readiness assessment



Mobilize



Mobilize

TRACK 1 INFRASTRUCTURE SETUP: LANDING ZONE

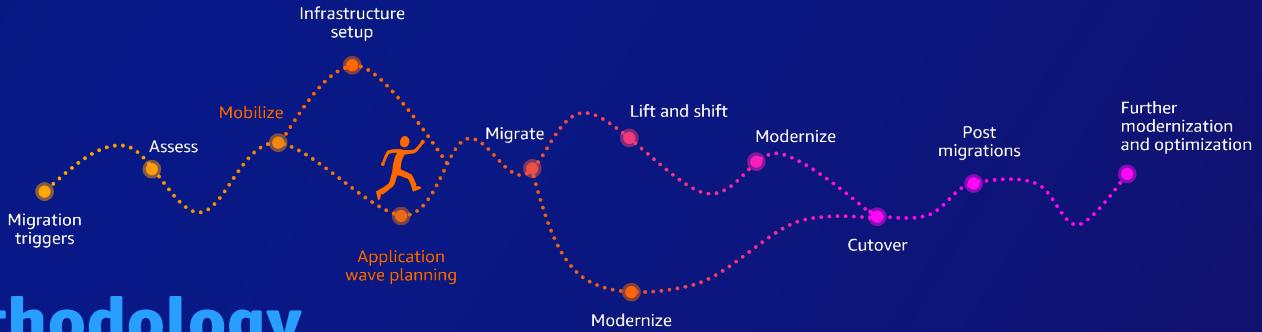


- A configured, secure, scalable, and multi-account AWS environment based on AWS best practices
- A starting point for net new development and experimentation
- A starting point for migrating applications
- An environment that allows for iteration and extension over time

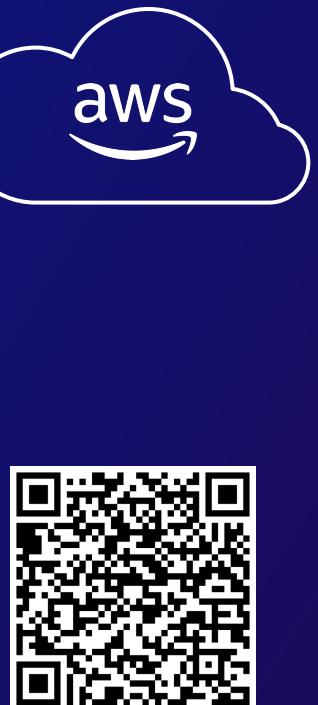
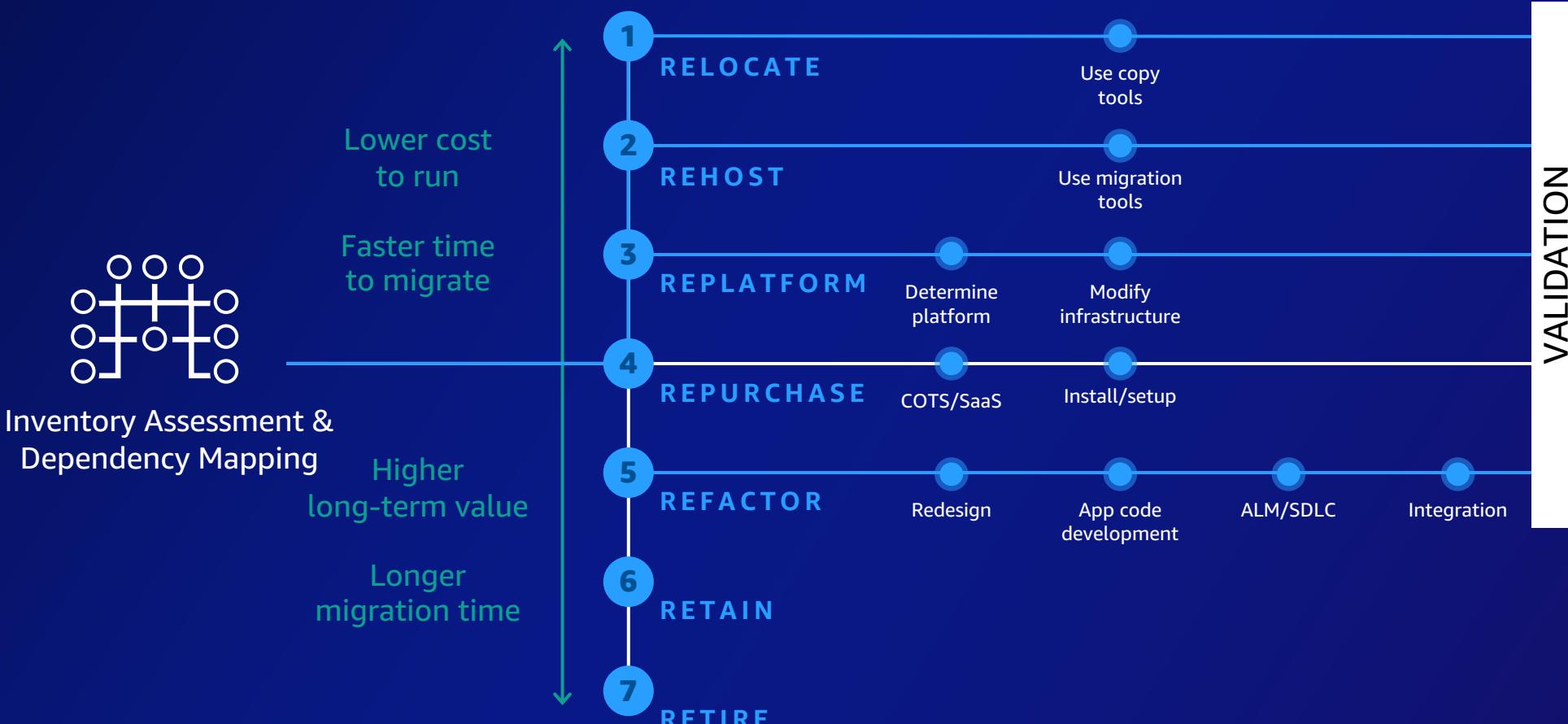


Mobilize

TRACK 2 MIGRATION APPROACH AND WAVE PLANNING



The 7R methodology



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TRACK 2 APPLICATION MIGRATION WAVE PLANNING



EPICS

Application dependency mapping and business priority mapping



Rehost/relocate

Re-platform/refactor

SPRINTS

Pick a tool

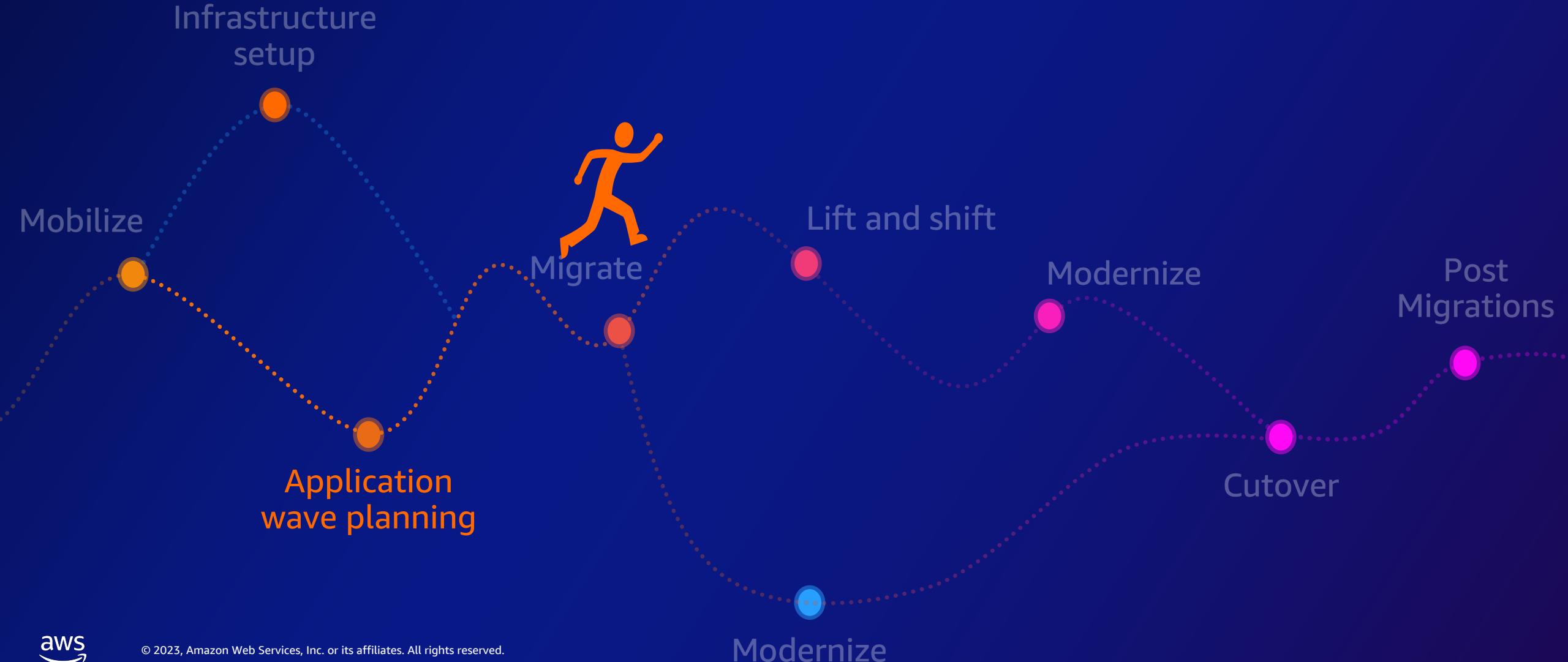
Deep dive workshops



Output

Migration plan

Migrate and modernize



Migrate and modernize

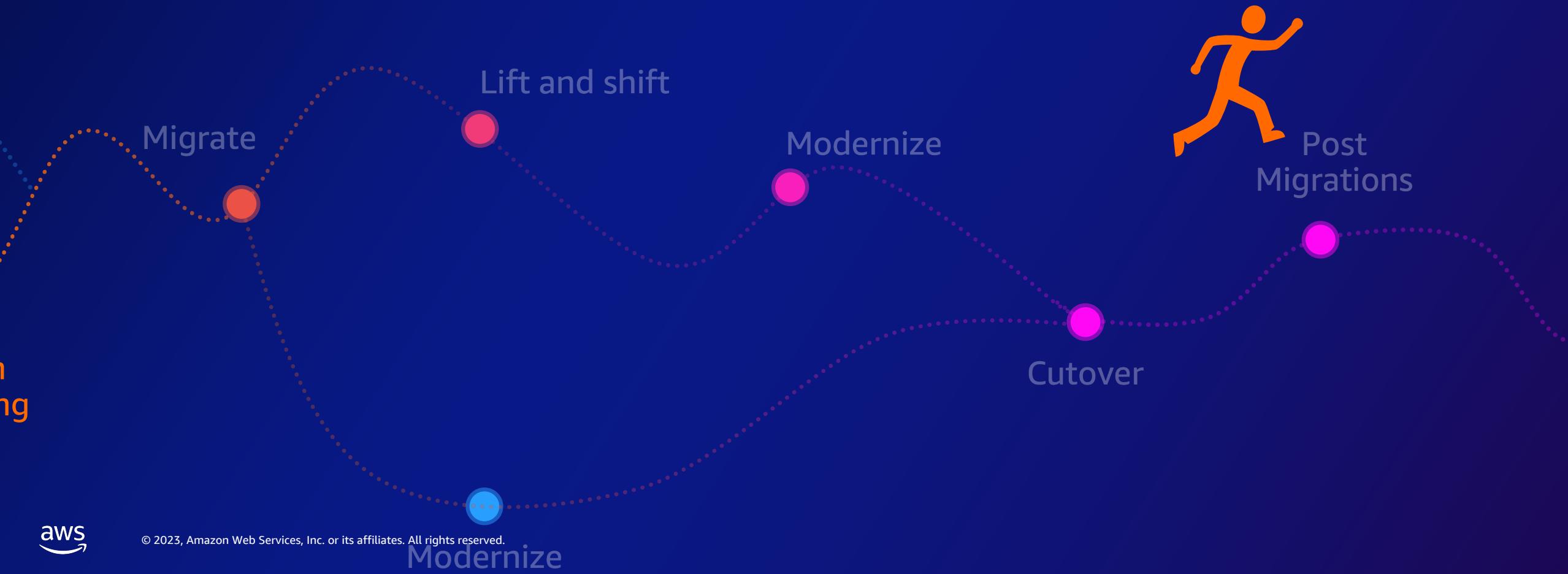


Infrastructure landing zone is ready and application migration plan is ready



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2 TRACKS



Post migrations



The Snapdeal all-in migration Journey



Introducing Snapdeal



Snapdeal is one of the top four online lifestyle shopping destinations of India and a pure-play value e-commerce platform.

34.9M+

Units Delivered

17.7M+

No. of transacting users

95%

Coverage of India's Pin code

Infrastructure landscape

- 2 Data Centers
- 40+ Racks
- 4,700+ VMs
- Leaf-Spine based network
- 200 KW Power Consumption



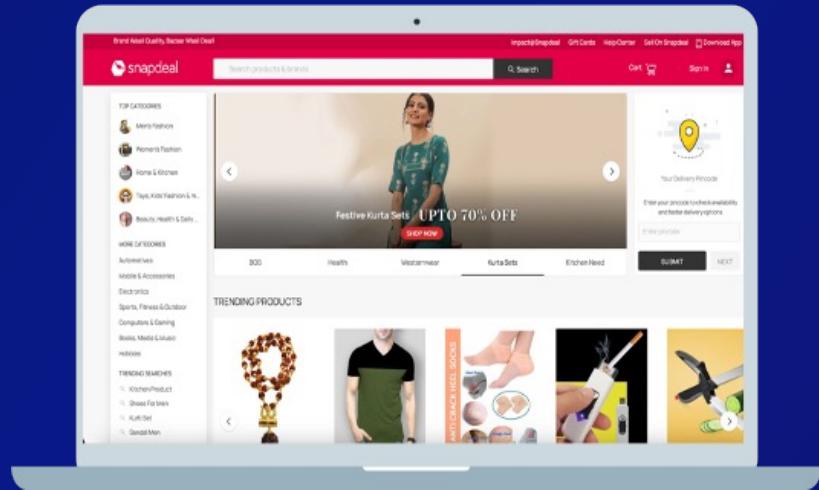
Technology landscape

2.4+ petabytes

Total data

285+

Applications



1,700+

Kafka topics

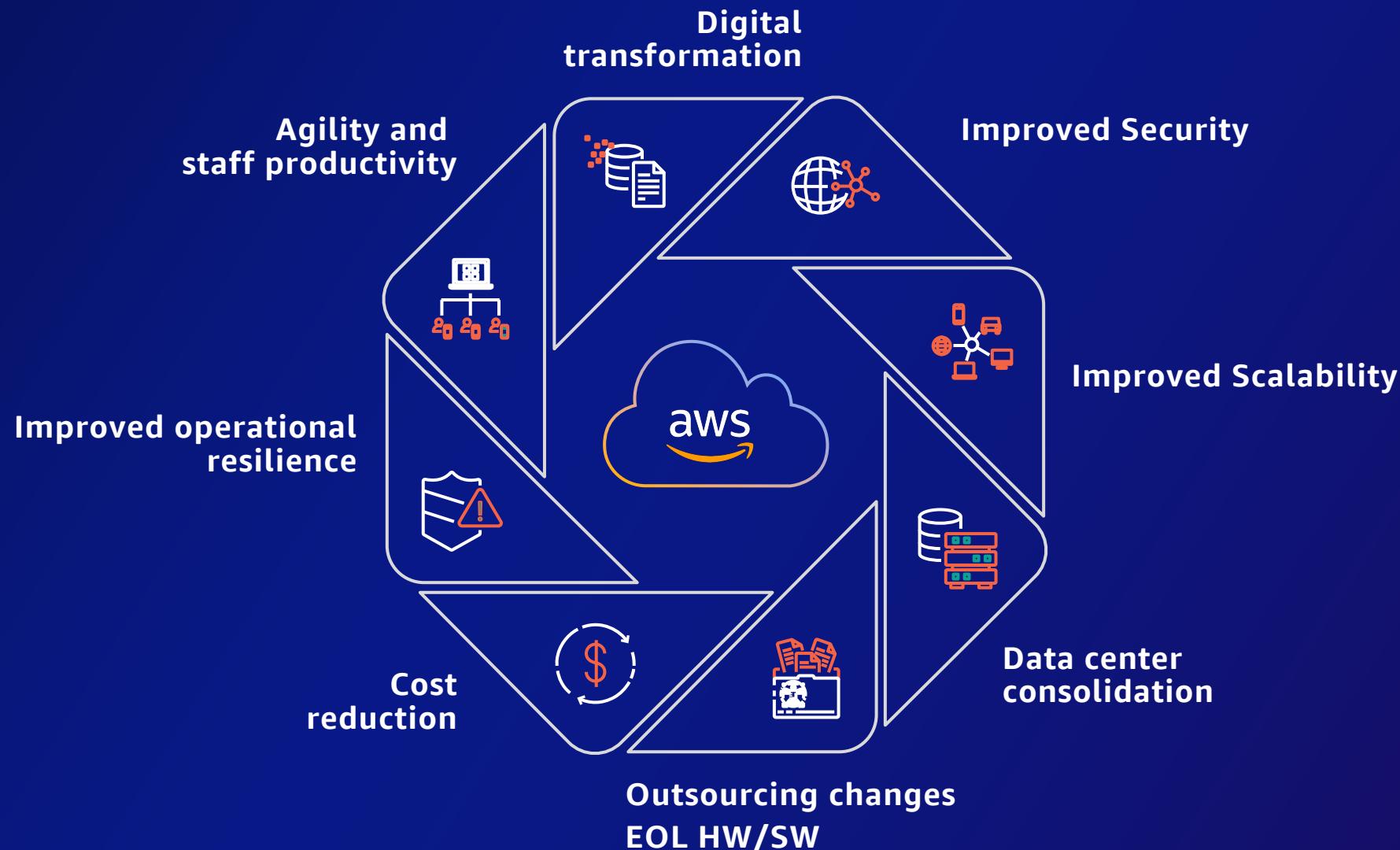
1TB/day

Data ingestion

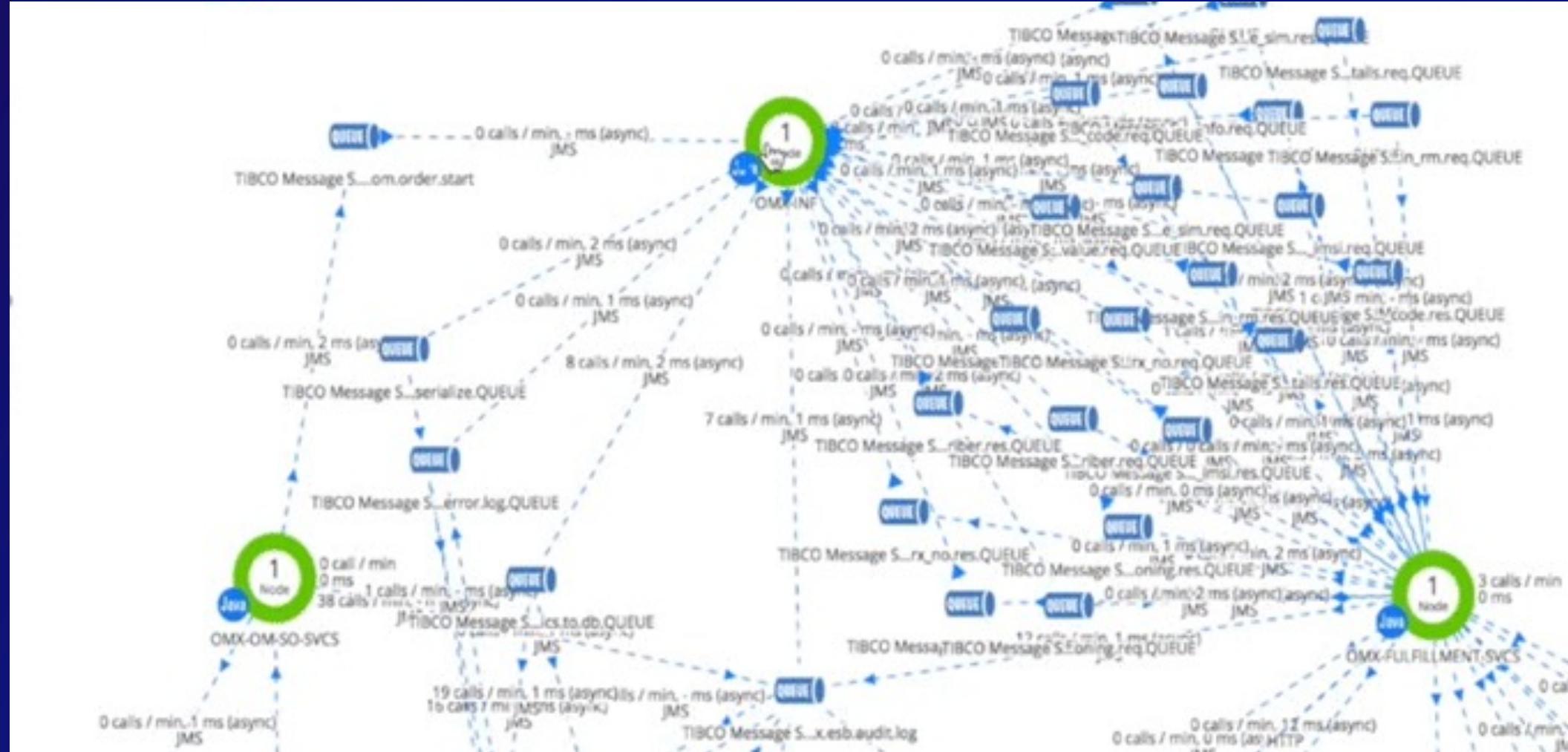
4,000+

Spark Jobs

Why Snapdeal decided to move all-in on cloud



Assess: How do I untangle and define waves?



Mobilize: Key tenets for Snapdeal migration



Lift and Shift

Reduce Business Risk

Minimal downtime

Scalable



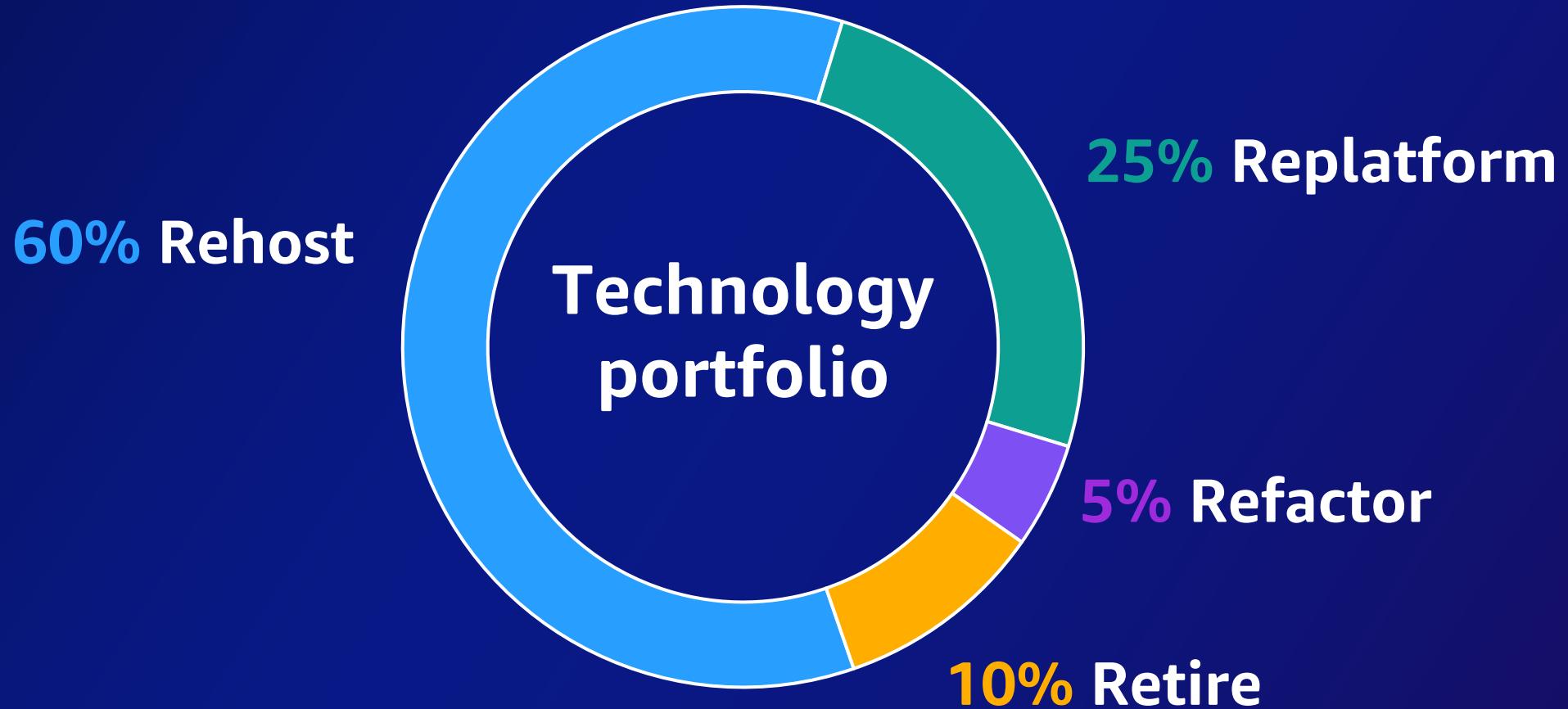
Modernize Database and Data Platform

Reduce operational overhead

Elasticity

Cost effective

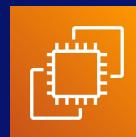
Mobilize: Used full spectrum of migration patterns



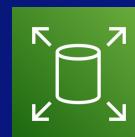
Migrate & Modernize: Key services used



AWS Control Tower



Amazon EC2



Amazon EBS



AWS Lambda



Amazon EMR



Amazon Redshift



Amazon RDS



Amazon Simple
Storage Service (S3)



AWS Pinpoint



AWS Network Firewall



Amazon SageMaker



AWS Shield
Advanced



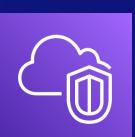
AWS DataSync



AWS Direct Connect



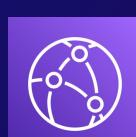
Elastic Load Balancer



Amazon VPC



Amazon Route53



Amazon CloudFront

Benefits achieved

- Improved performance with new generations processors delivering better price performance.
- Snapdeal now leveraging elasticity to cope with demand during peak events
- Business and tech more confident and focusing more on business instead of doing undifferentiated heavy lifting
- No CapEx replacement cycles – saving time and eliminating the need to predict five years of usage
- Automation capabilities with infrastructure as code. Improved Team efficiencies, less wastage managing platforms



What worked well



Ensure strong executive sponsorship



Set bold and outcome-focused goals



Build early momentum and avoid stall



No one size fit all approach

Resources

1

Cloud migration homepage

<https://aws.amazon.com/cloud-migration/>

2

Cloud Migration Services on AWS

<https://aws.amazon.com/free/migration/>

3

Cloud Data Migration

<https://aws.amazon.com/cloud-data-migration/>

4

Migration Immersion Day

<https://migration-immersionday.workshop.aws/en>

skillbuilder.aws 

Your time is now

Build in-demand cloud skills your way



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