

# Silicon Overdrive: Future-proof your Business on the AWS Cloud



Silicon   
Overdrive



# About Silicon Overdrive

**Gareth Bowers**

CEO, Silicon Overdrive



# About Silicon Overdrive

Founded in 1995, Silicon Overdrive is a leading IT Managed Services business.

Silicon Overdrive has significant experience and expertise in helping customers:

- Migrate
- Security and Compliance (POPIA, GDPR, PCI DSS, ISO 27001, HIPAA)
- Optimize
- Modernize
- Manage AWS workloads

We have been awarded:

- AWS Public Sector Partner of the Year – Sub-Saharan Africa 2021
- AWS Consulting Partner of the Year – Sub-Saharan Africa 2020



# AWS Certifications

Our team has 100+ AWS certifications including:

- AWS DevOps Engineer Professional
- AWS Solutions Architect Professional
- AWS Security Specialty
- AWS Machine Learning Specialty



Silicon Overdrive 

The Silicon Overdrive logo is a stylized, blue, geometric shape resembling a cluster of atoms or a network of nodes.

# AWS Partnership

- AWS Advanced Consulting Partner
- AWS DevOps Services Competency Partner
- AWS Education Services Competency Partner
- AWS Solution Provider Partner
- AWS Public Sector Partner
- AWS Immersion Day Partner
- AWS Well-Architected Partner
- Amazon EC2 for Windows Server Delivery Partner



- Public Sector
- Immersion Day
- Solution Provider
- DevOps Services Competency

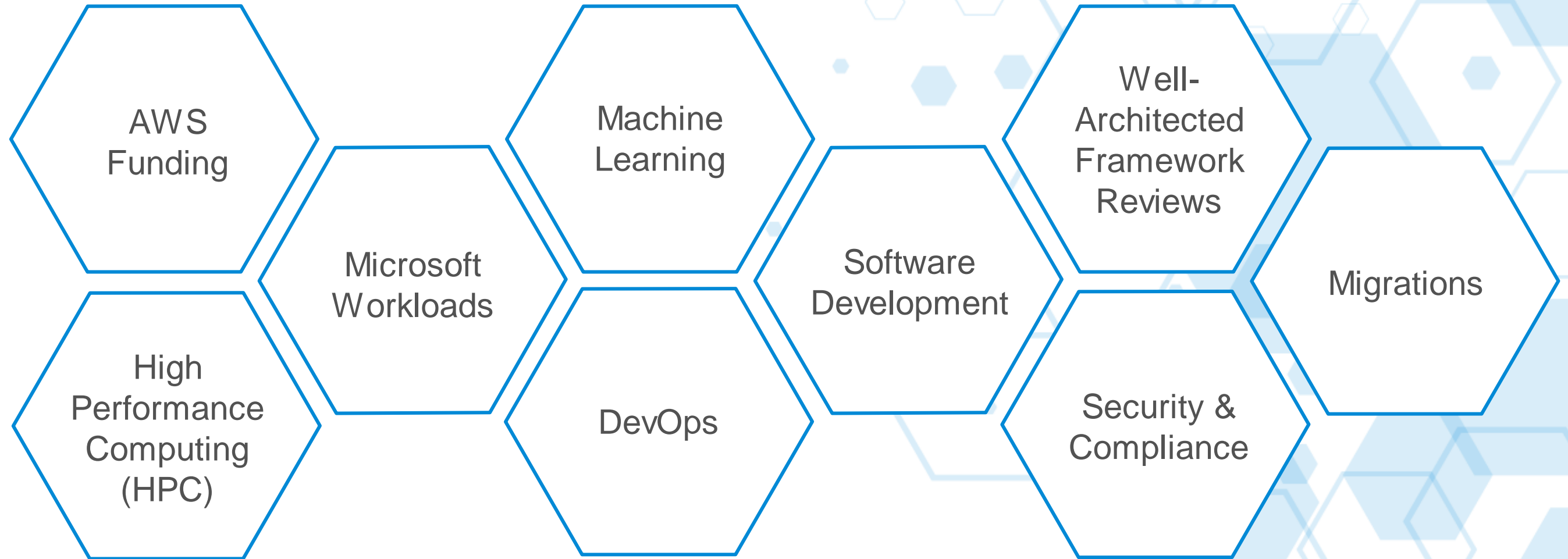
- Education Services Competency
- Well-Architected Partner Program
- Amazon EC2 for Windows Server Delivery



Silicon Overdrive 

The text 'Silicon Overdrive' is written in a black, sans-serif font. To the right of the text is a small, stylized logo consisting of a blue and white geometric pattern of interconnected lines and dots, resembling a network or a molecular structure.

# Our AWS Offerings



# What is Modernization?

## Modernization is:

- The process of progressively transforming existing applications and infrastructure to extend into higher-value.
- Implementing cloud-native services that unlock new business capabilities, accelerate innovation, and reduce technical debt.



# Benefits of Cloud Computing

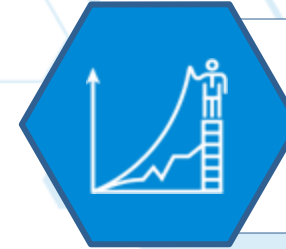
Trade capital expense  
For flexible operating expense



Stop guessing capacity



Stop spending money on  
running and maintain data  
centres



Benefit from massive  
economies of scale



Increase speed and  
agility

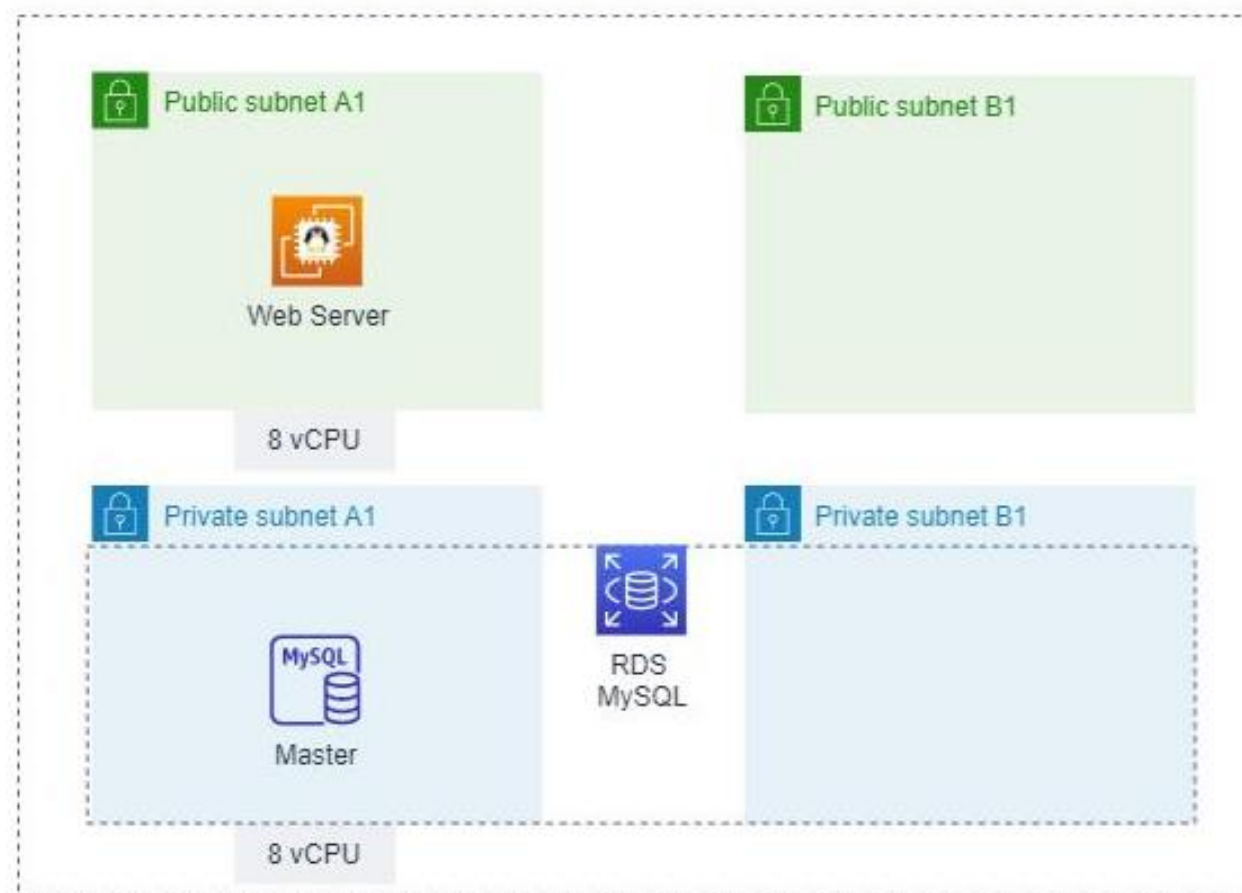


Go global in minutes

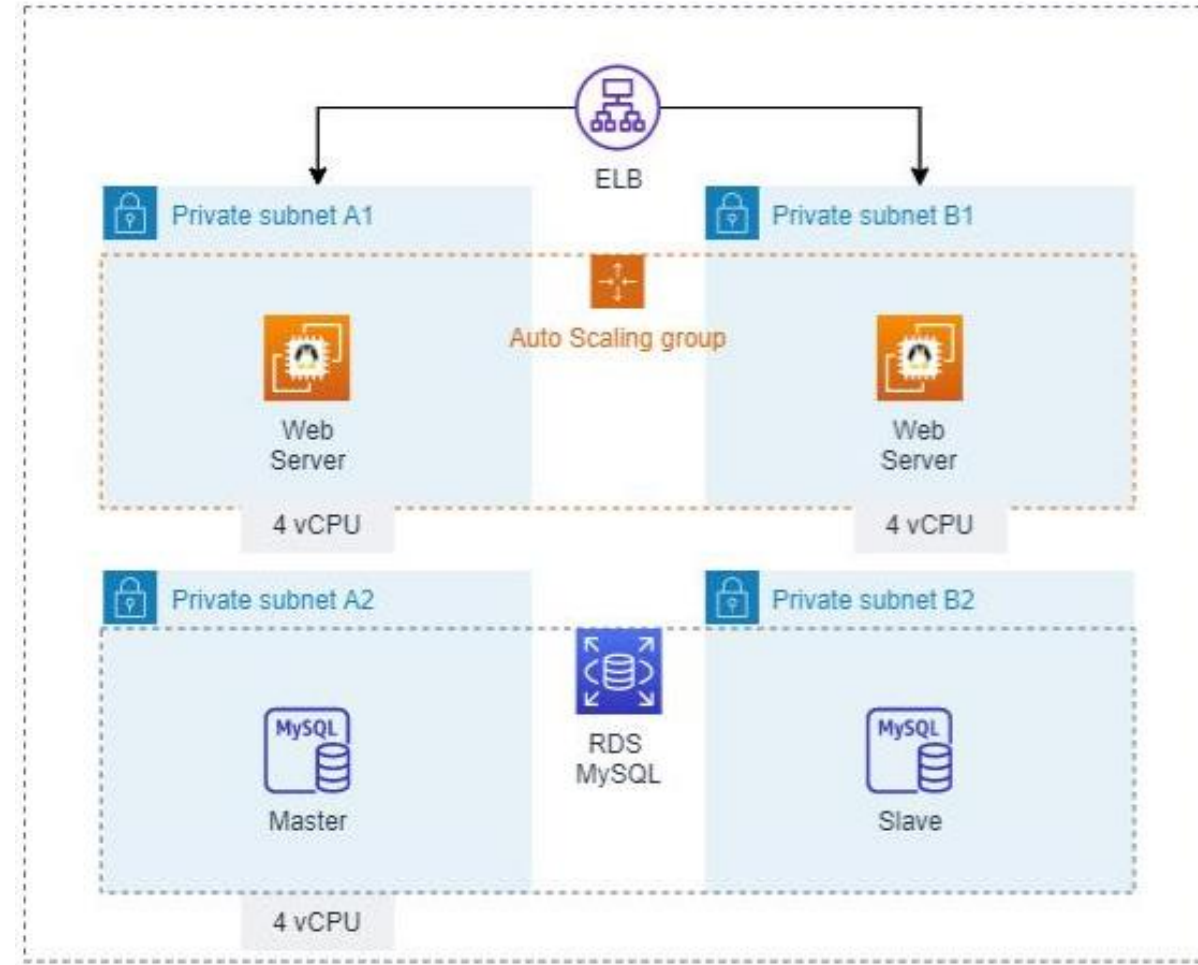
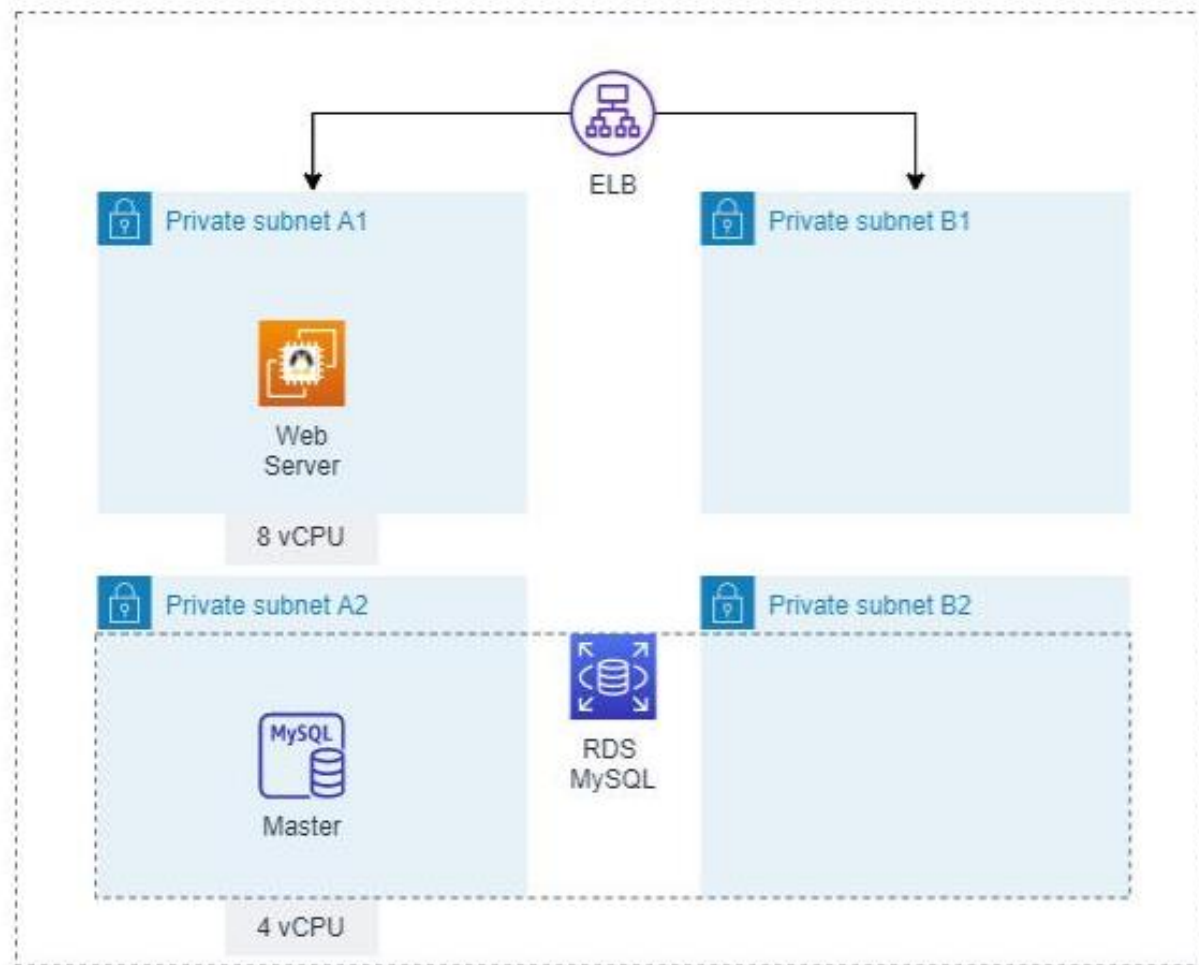




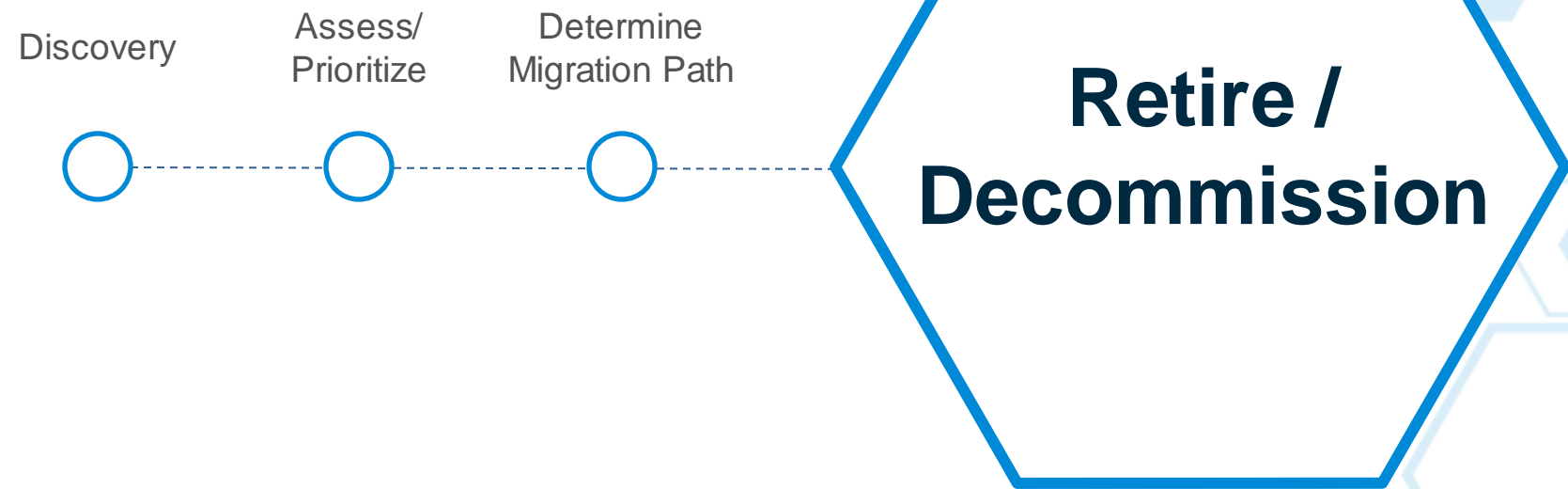
# Modernization Example



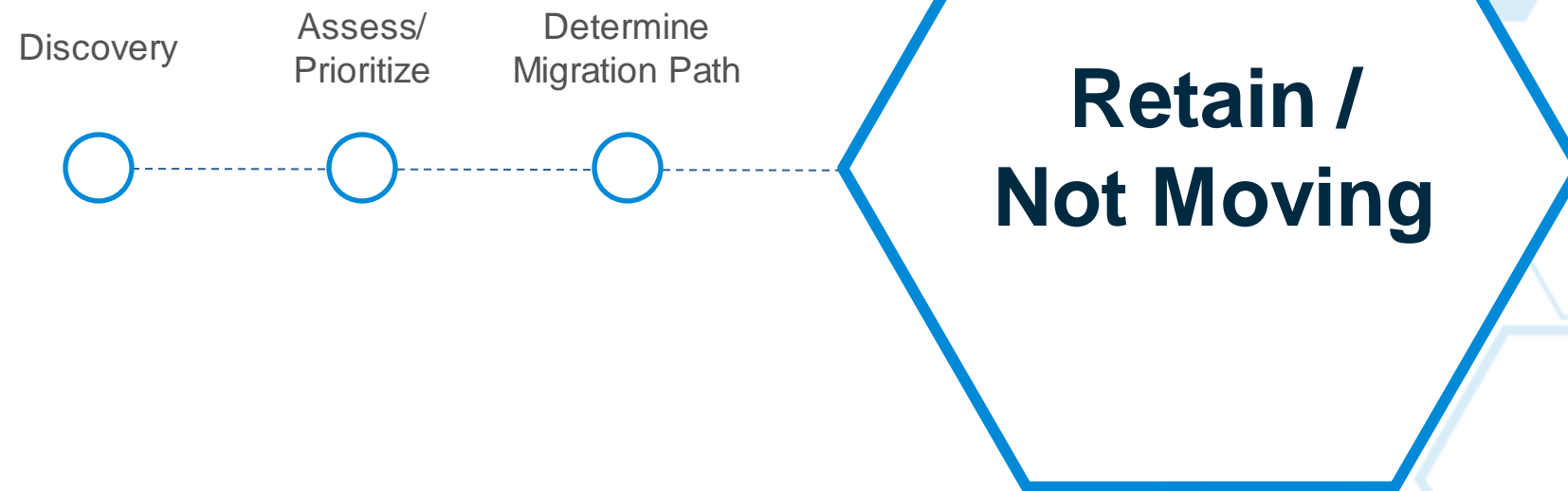
# Modernization Example



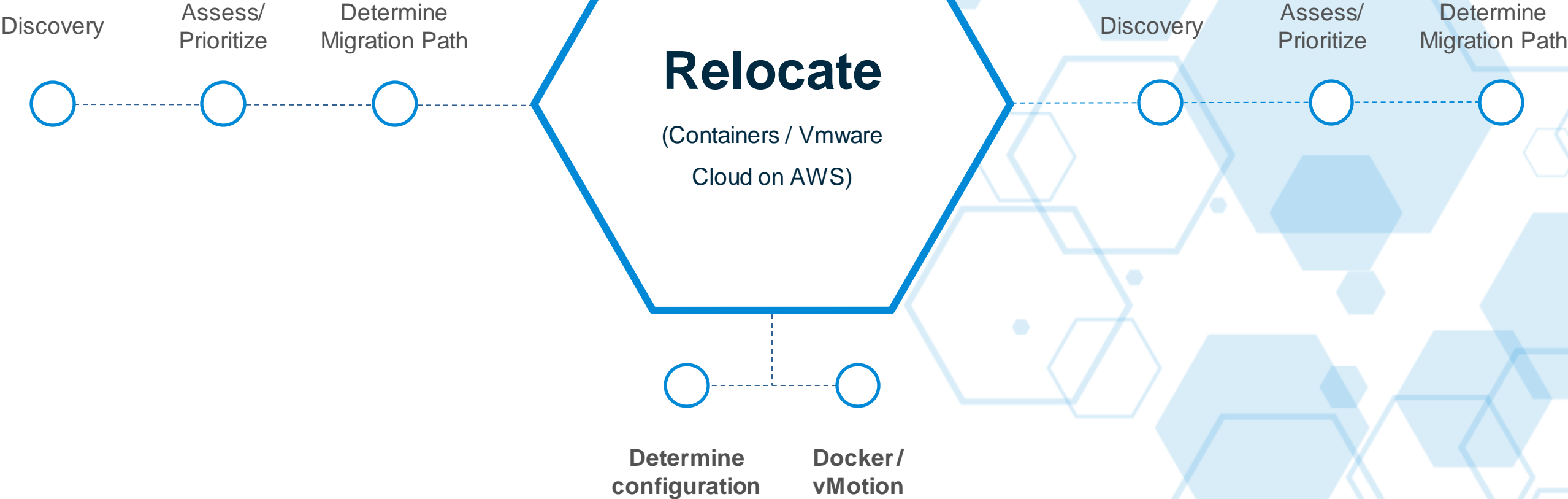
# Migration Strategies: Retire



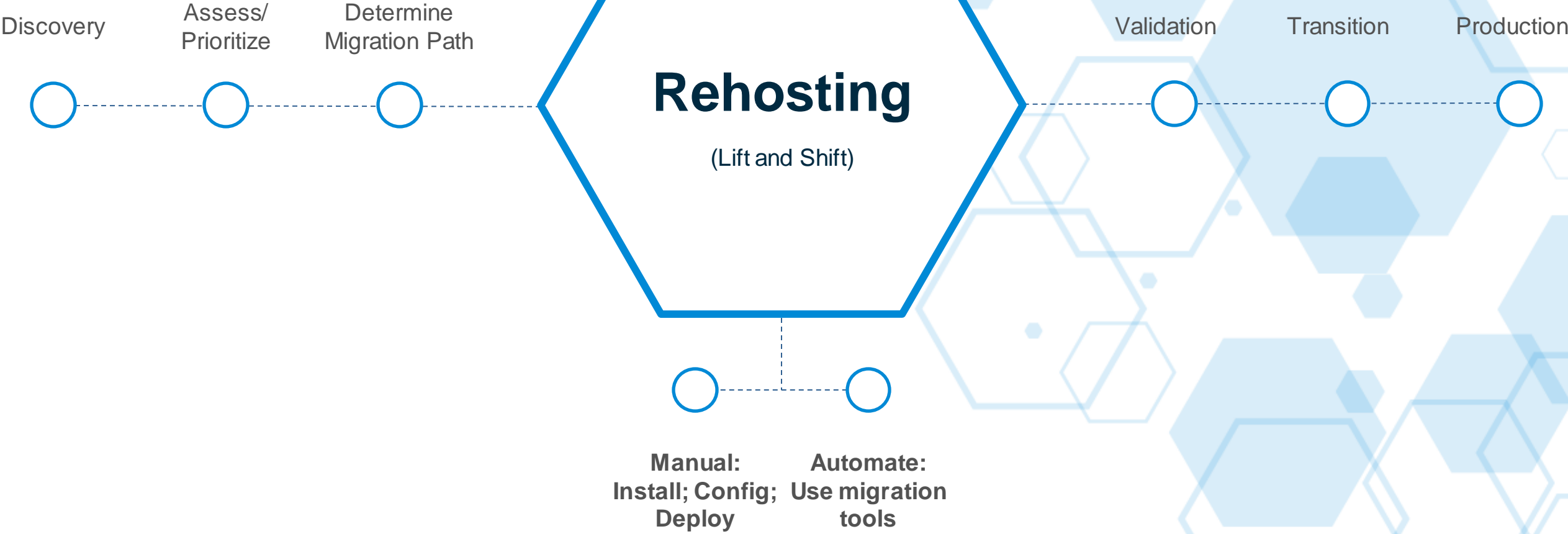
# Migration Strategies: Retain



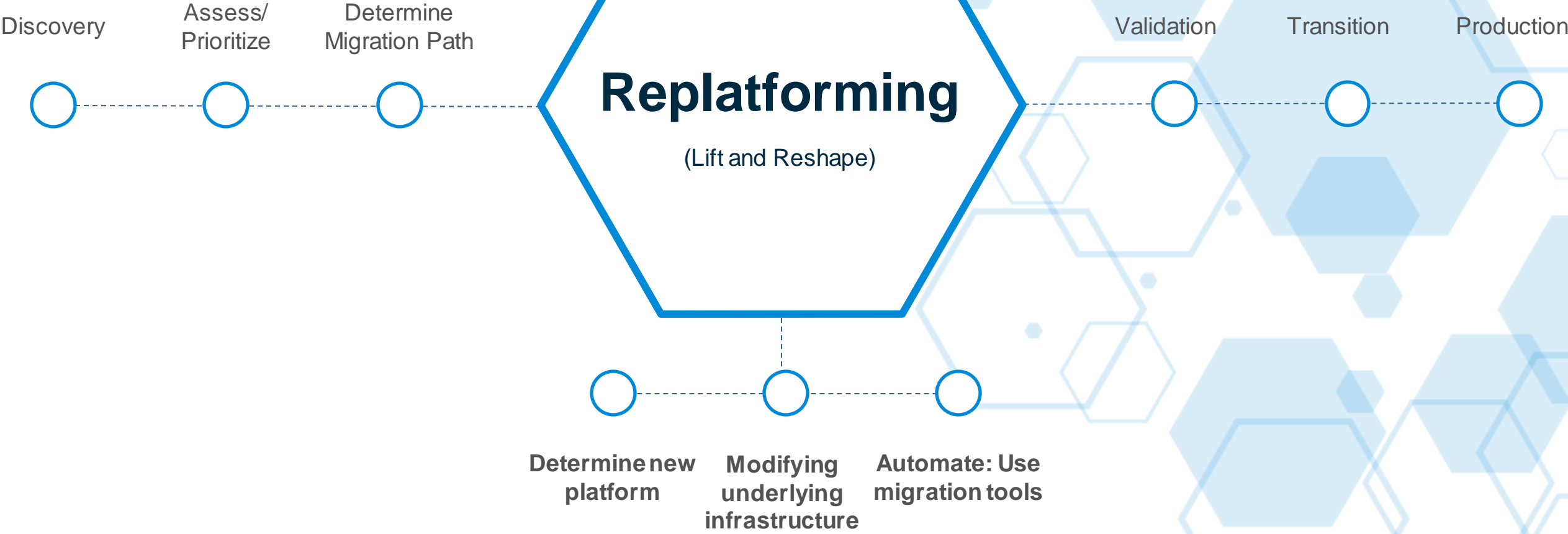
# Migration Strategies: Relocate



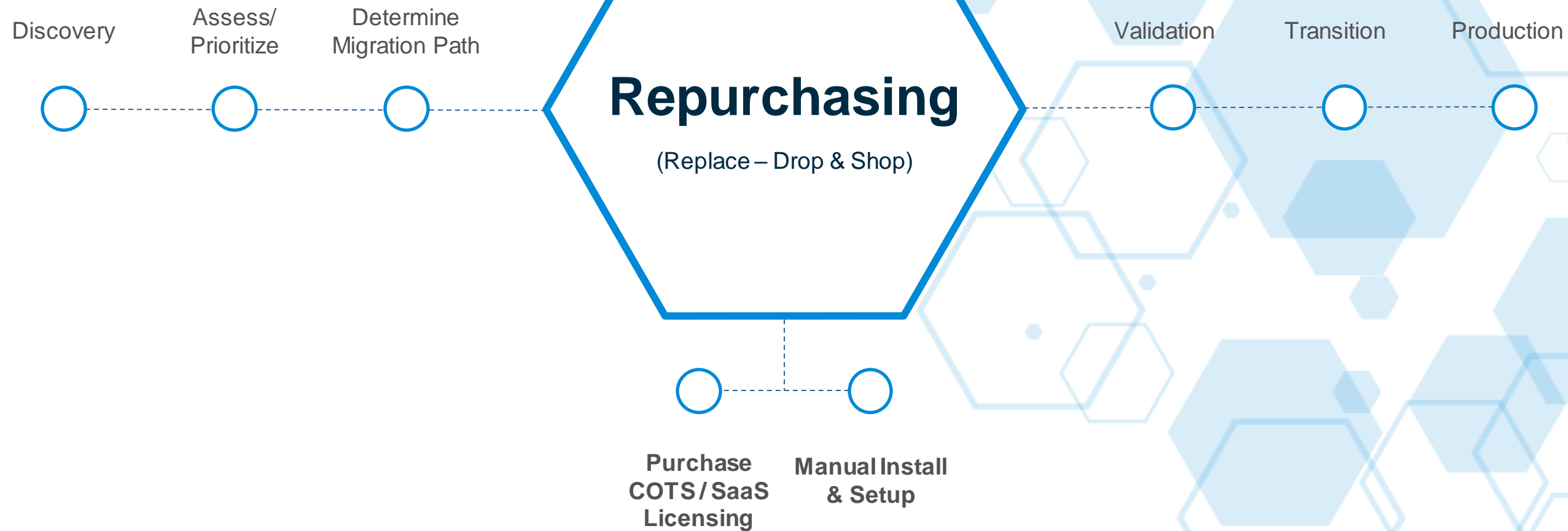
# Migration Strategies: Rehosting



# Migration Strategies: Replatforming

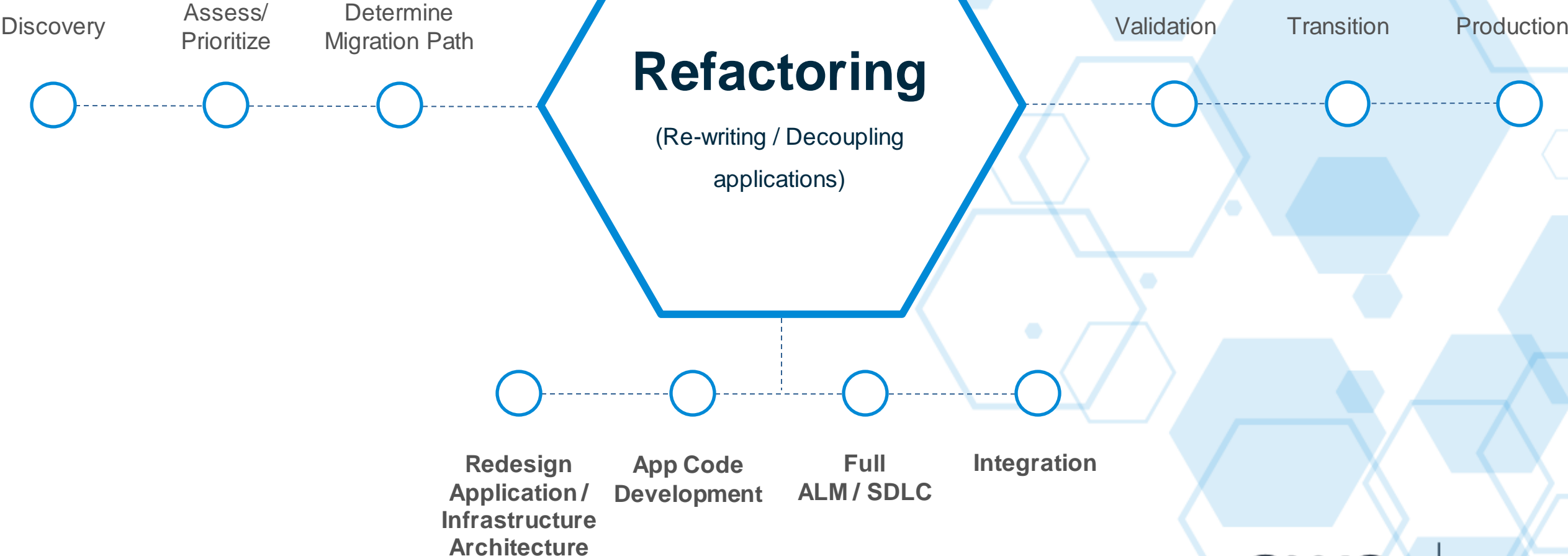


# Migration Strategies: Repurchasing





# Migration Strategies: Refactoring



# Example: Modernizing Legacy Windows Applications

## Relocate / Rehost

Windows Applications

Move to Cloud Infrastructure



- Apps / DBs run on VMs
- No code changes
- Customer operates everything above the infrastructure

On-Prem ➤ Cloud

## Replatform

Containerized Applications

- Develop and deploy faster
- Application portability
- No code changes



VMs ➤ Containers

Managed Databases

- Managed provisioning, backups, patching, monitoring and scaling
- No code changes



Self-Serve ➤ Managed

## Refactor

- License freedom/savings
- Performance improvement
- Cross-platform support



.NET ➤ .NET-Core

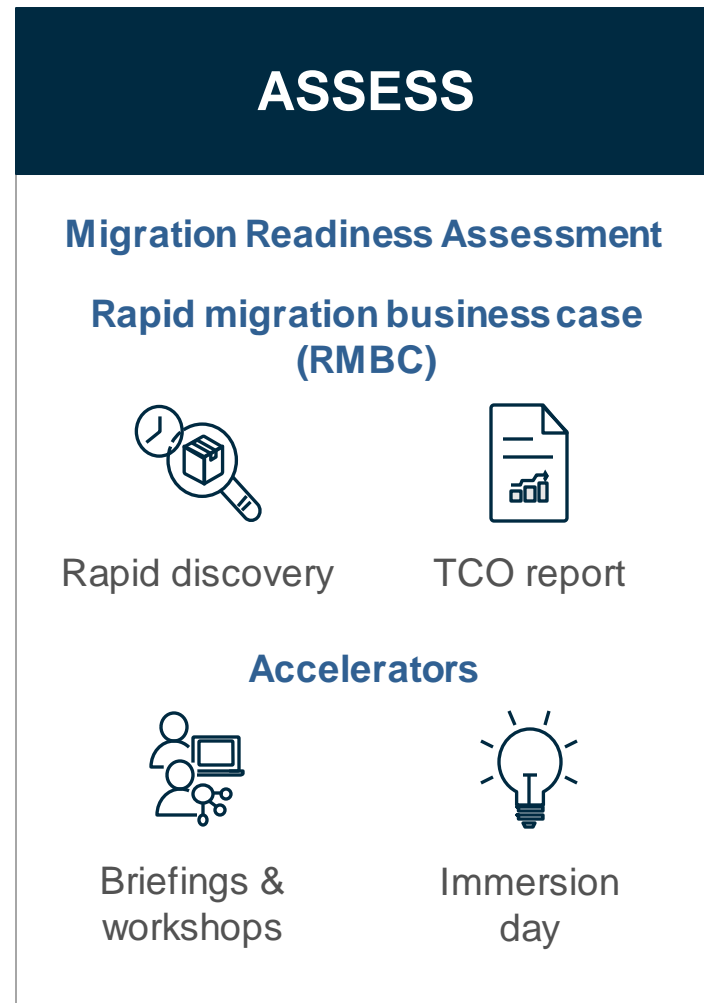
- High performance & scalability
- Purpose-built database services
- Licensing savings



SQL ➤ Aurora/DynamoDB/etc.



# MAP Operationalize

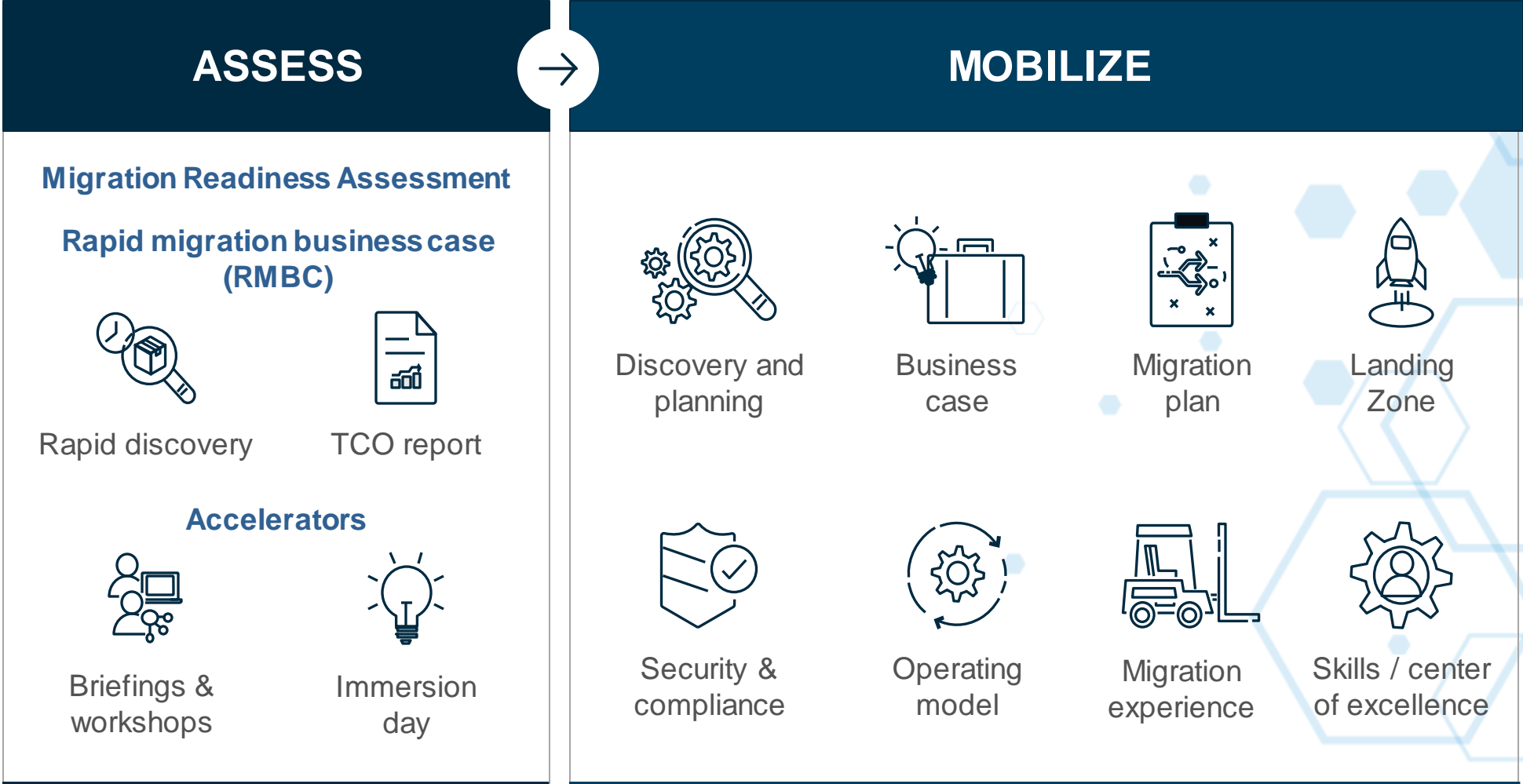


**DISCOVERY AND ASSESSMENT**

The Assess phase is delivered by the partner and funded by AWS



# MAP Operationalize



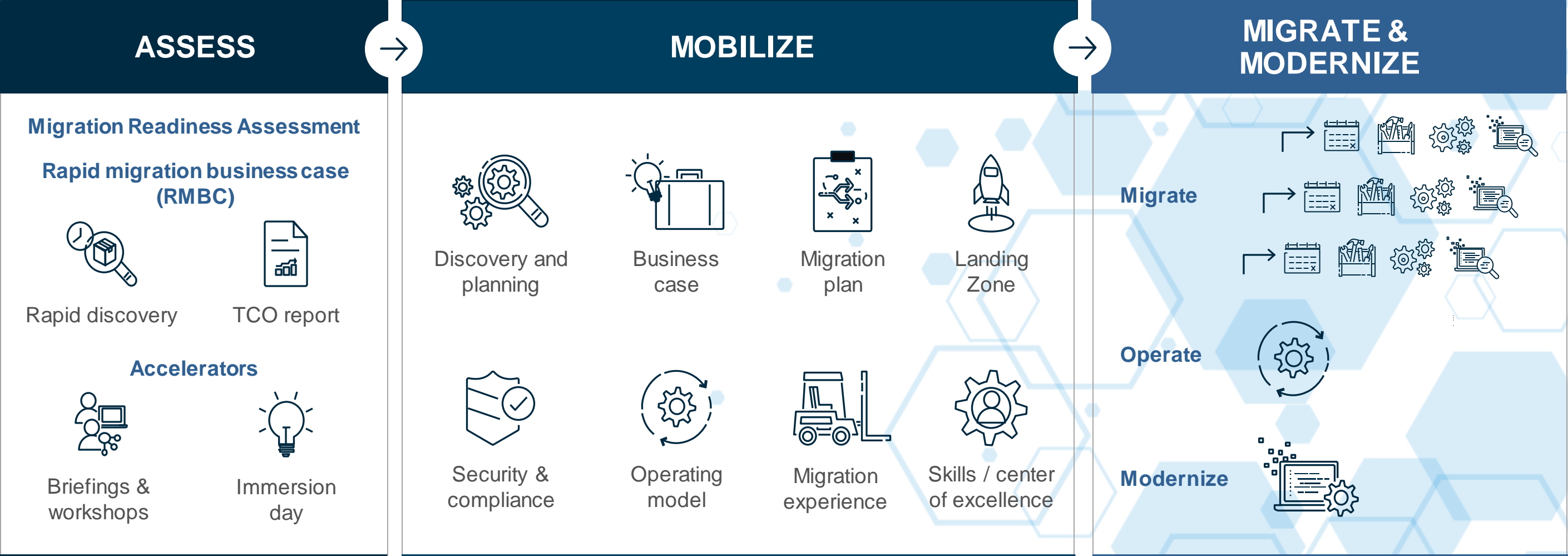
DISCOVERY AND ASSESSMENT

BUILD MOMENTUM AND GAIN EXPERIENCE

The Mobilize phase is delivered by the partner and partially funded by AWS



# MAP Operationalize



DISCOVERY AND ASSESSMENT

BUILD MOMENTUM AND GAIN EXPERIENCE

ACCELERATE, SCALE MODERNIZE



# Best Practices for Migration Project Delivery

- Executive sponsorship and stakeholder management
- Set clear business goals and roles
- Set outcome-focus goals
- Project plan and project governance
- Operational model and technical direction defined
- Develop cloud skills / address gaps
- Cost governance and cost optimization



# AWS Well-Architected Framework Review

Evaluate your workloads against AWS best practices, and assist you improve your workloads.

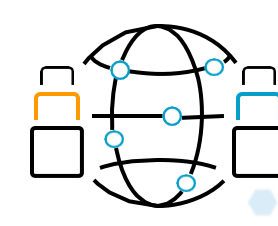
The Well-Architected Framework is based on six pillars:



**Operational Excellence**



**Security**



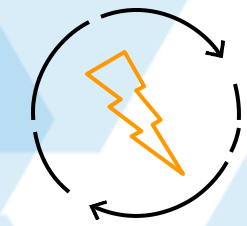
**Reliability**



**Performance Efficiency**



**Cost Optimisation**



**Sustainability**



# Why Use the AWS Well-Architected Framework Review

- Align Business with IT
- Improve governance, security and compliance
- Automate to increase operational efficiency and reliability
- Regularly review metrics and constantly improve
- Test systems at production scale
- Modernize architectures
- Optimize costs

\$5000 in AWS Usage Credits per workload improved with the assistance from an AWS Well-Architected Partner, Silicon Overdrive.





# Thank You

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