

AWS State, Local, and Education Learning Days

Washington DC



Large-Scale Migration and Modernization with AWS

Lessons Learned and Best Practices

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Migrations are more than just shifting technology



Making the case for migration

WHAT'S IN THE WAY?



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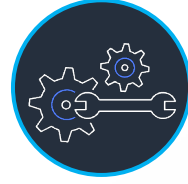
Blockers for cloud value realization



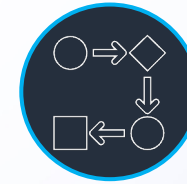
Lack of visible
& active
sponsorship



Siloed
Workflows
between orgs



Architectural
Entanglement



Undefined
operating model



Analysis
Paralysis



Talent and
skills gaps



Misaligned
teams



Unrealistic
goals

AWS deploys proven mechanisms, developed over hundreds of customer engagements, to unblock and accelerate cloud journey

Understand your compelling “why?”



Delivery speed improvement



Time-driven data center exit



Acquisition of another business



Divestiture of a line of business



Reduce technical debt



Cost reduction



Moving to multi-tenancy SaaS



Licensing cost reduction



Enabling gen AI solutions



Removing undifferentiated lifting



Security improvements



Availability improvements



Moving to data-driven business



Changing contact center technology



Moving to data as a product



Durability improvements



Sustainability improvements



Move to compete globally



Scalability improvements



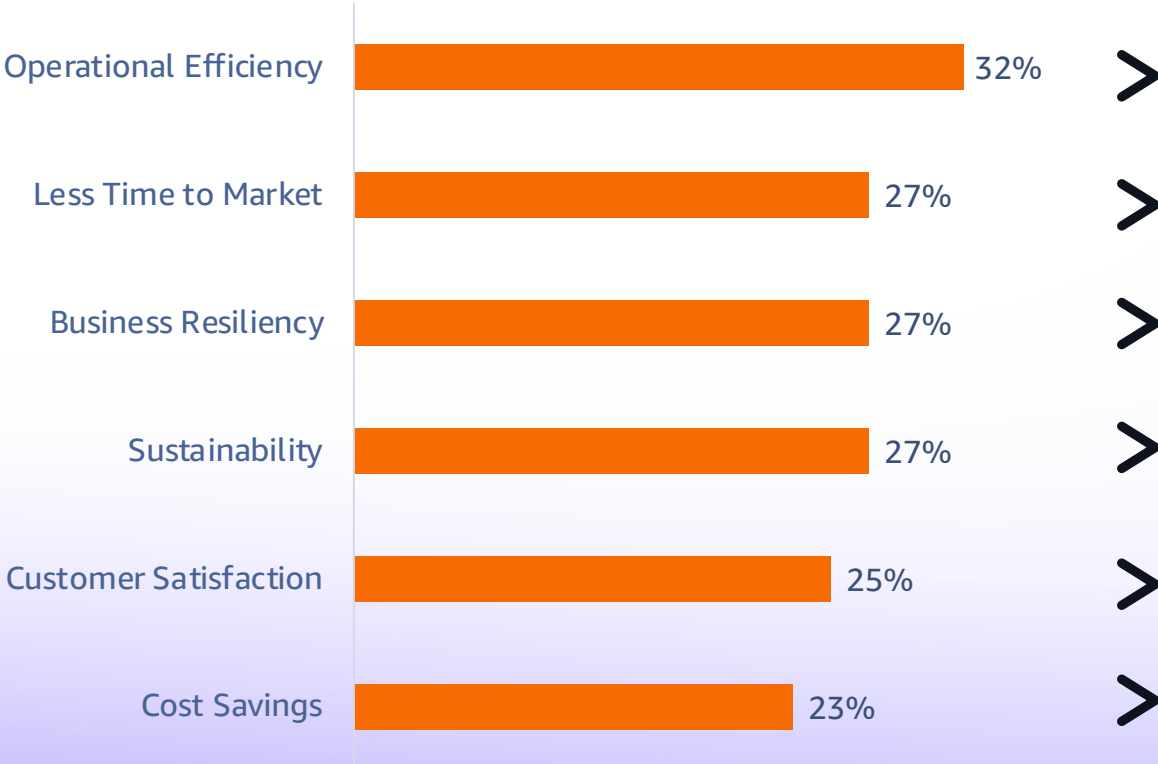
All of the above!!



**“To get insights,
you need to experiment.”**

Migration and Modernization with AWS deliver key business priorities

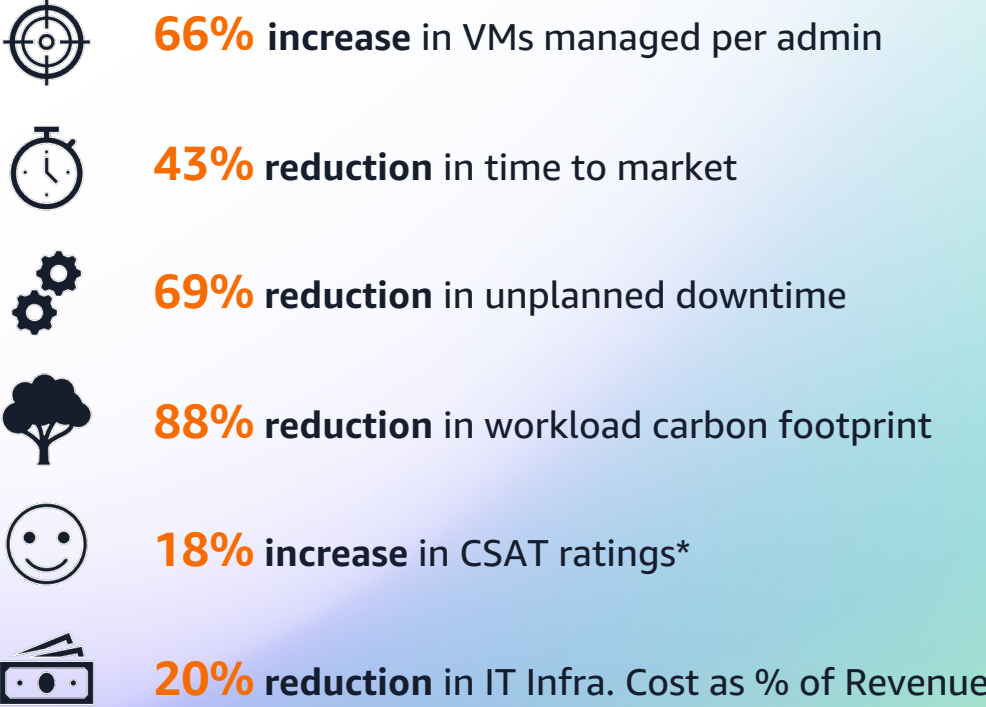
Customer Priorities



N = 370

Source: IDC Future Enterprise Resiliency and Spending Survey, Wave 8, September, 2022

Post-Migration KPI Improvements



Source: The Hackett Group, 2022

Leadership support

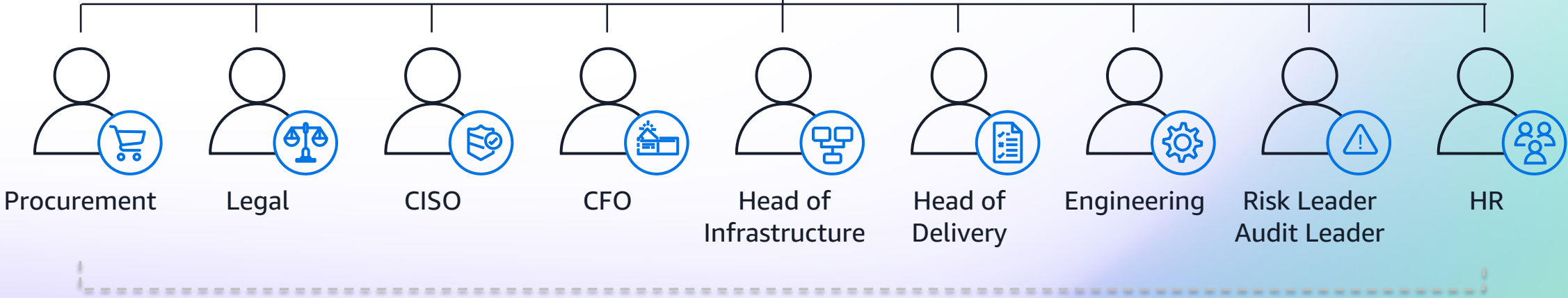
KEY FOR ORGANIZATION SUCCESS

- Define and communicate **vision** and business strategy
- Be aggressive with goal setting and drive **top down**
- Mandate the move to **cloud-native** architectures org wide

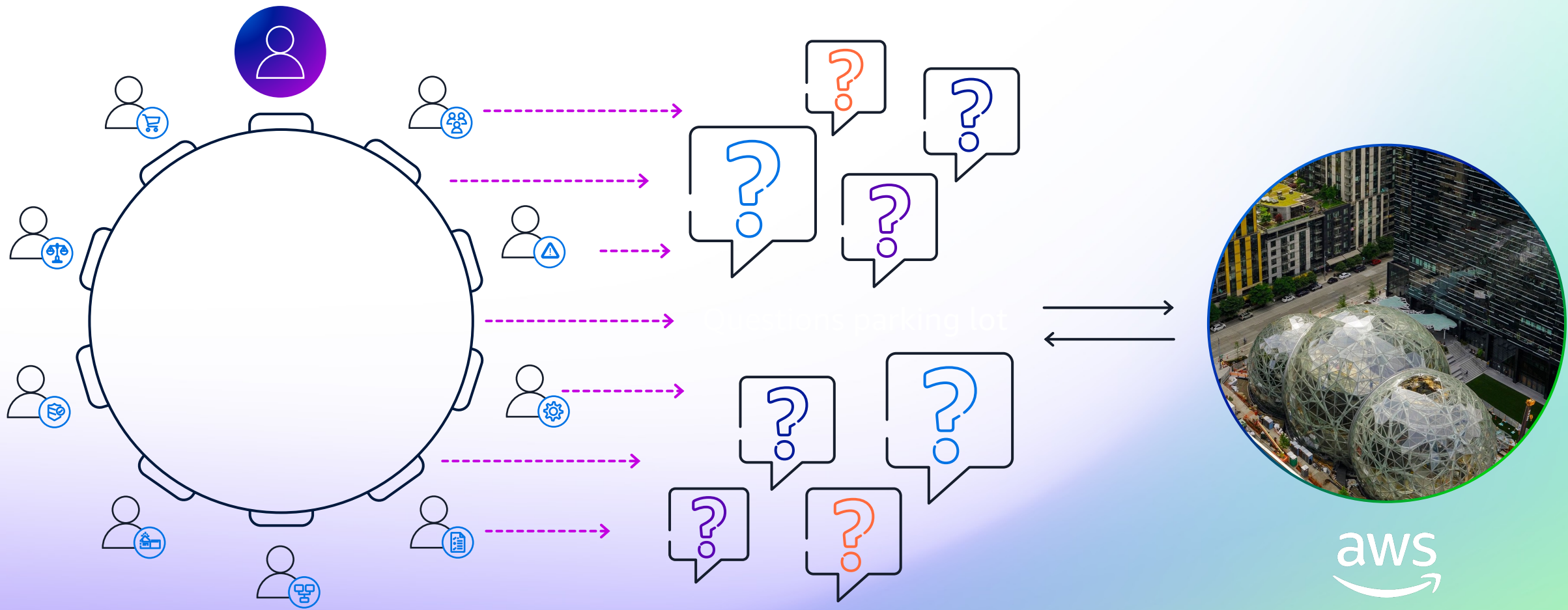


Leadership team

Single-Threaded Leader



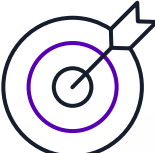
Be prepared to answer questions



Create and amend your principles as you go!



We believe that...



the business case will continually be reviewed



we will limit complexity by using a primary cloud partner



security is job zero



this group can remove all blockers



If you build it, You support it



Engineers are trusted, But we verify their actions

...unless you have better ones

Quick wins

ESTABLISH "LIGHTHOUSE" WORKLOAD

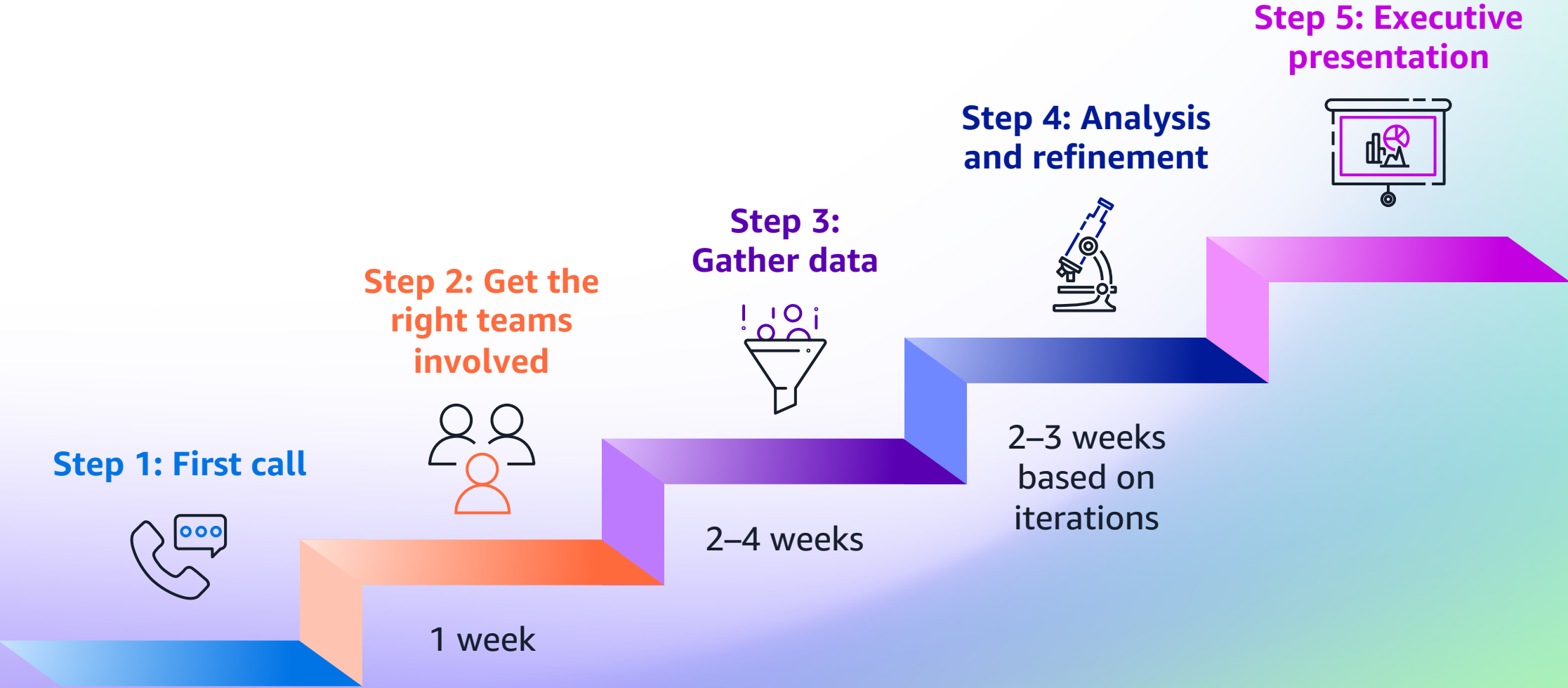
High value: focus on relatively small but important project

Representative: avoid "one-off" projects so results will resonate across the organization

Measurable: use metrics to show measurable results of outcomes



The AWS Cloud Economics team can help



The AWS Cloud Economics team can help

[CUSTOMER] DIRECTIONAL BUSINESS CASE

Business Case Executive Summary

Background	<ul style="list-style-type: none"> Directional business cases which estimate value differences between capacity-driven on-premises environments and consumption-driven AWS environments have historically been difficult to complete due to differences in cost drivers, fixed and variable and, among other factors. AWS Cloud Economics has developed an established methodology for evaluating migration value. [Stakeholder] at [Company] requested assistance with creating a directional business case to demonstrate the potential value created by migrating core services from on-premises to AWS. 								
Approach	<ul style="list-style-type: none"> Leverage the AWS Cloud Value Framework to develop an apples to apples comparison of the total cost of ownership on-premises and AWS Data used in generating these estimates was sourced from [Migration Evaluator] The AWS and on-premises estimated spend is based on industry averages and assumptions This business case includes right-sizing CPU/RAM utilization and time-in-use, based on industry standards 								
Outcome	<ul style="list-style-type: none"> The preliminary analysis indicates TCO savings of 34% over a period of 5 years. This does not include an EDP discount or MAP credits <table border="1"> <tr> <td>Total Business Value Created</td> <td>\$26,479,025</td> <td>Cost Savings %</td> <td>34%</td> <td>Annual Savings</td> <td>\$1,295,805</td> <td>5-Year Savings</td> <td>\$6,479,025</td> </tr> </table>	Total Business Value Created	\$26,479,025	Cost Savings %	34%	Annual Savings	\$1,295,805	5-Year Savings	\$6,479,025
Total Business Value Created	\$26,479,025	Cost Savings %	34%	Annual Savings	\$1,295,805	5-Year Savings	\$6,479,025		
Next Steps	<ul style="list-style-type: none"> Discuss assumptions with the customer to identify additional optimization areas Conduct a business case deep dive, as needed Refine business case with AWS Investments 								

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Executive Summary

[CUSTOMER] DIRECTIONAL BUSINESS CASE

Business Value Savings Summary

Below is a 5-year summary of business value savings estimated based on data provided by the customer and industry benchmarks

Description	Cost Savings (TCO) Infrastructure cost savings / avoidance from moving to the cloud	IT Staff Productivity Efficiency improvement by function on a task-by-task basis	Operational Resilience Benefit of improving SLAs and reducing unplanned outages	Business Agility Deploying new features applications faster and reducing errors			
Savings	\$X.XM	+	\$X.XM	+	\$X.XM	+	\$X.XM

Annual Savings Opportunity is \$XX.XM

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Financial Impact Results

Customer Carbon Reduction Benefit

KPI	% Improvement	Annual Benefit	Value Driver / Details
Estimated Carbon Reduction (Metric tons of Carbon)	89%	216.6	Total Carbon Reduction Estimate
	72%	175.2	Benefit from Higher Server Utilization
	17%	41.4	Benefit from Higher Renewable Energy Mix
1082.92 Metric tons of Carbon			
5 Year Benefit			

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Carbon Reduction Benefit Results

[CUSTOMER] DIRECTIONAL BUSINESS CASE

5 Year Infrastructure Savings Summary

Cost Savings %	34%
Annual Savings	\$1,295,805
5-Year Savings	\$6,479,025

	Colo	AWS
Compute	\$7,574,138	\$2,844,739
Storage	\$10,557,713	\$8,337,408
Network	\$892,111	\$264,377
AWS Support	\$0	\$1,098,415
Total Costs	\$19,023,962	\$12,544,939

- Compute and Storage data has been obtained from Migration Evaluator while Networking is representative for comparison
- This view reflects a steady state comparison of on-premises to AWS migration, it does not capture, Migration Costs or Migration ramp
- The cost represent ~80% of the estimated spend. Customers spend an additional 10 - 20% of the total on services (Monitoring, Advance security, Marketplace etc) in both on-premises and AWS environment

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Infrastructure Savings Summary

[CUSTOMER] DIRECTIONAL BUSINESS CASE

5 Year Steady State Cash Flow Summary

	Year 1	Year 2	Year 3	Year 4	Year 5	Total
On-Premises						
Compute	\$3,849,688	\$1,013,502	\$1,317,543	\$1,013,502	\$1,013,502	\$10,207,736
Storage	\$653,020	\$135,768	\$135,768	\$653,020	\$135,768	\$1,713,345
Networking	\$639,159	\$90,000	\$90,000	\$62,061	\$90,000	\$1,531,220
On-Premises Total	\$5,141,867	\$1,239,270	\$1,539,270	\$4,992,023	\$1,239,270	\$13,492,301
AWS						
Compute	\$3,312,274	\$148,644	\$148,644	\$1,393,274	\$148,644	\$7,160,880
Storage	\$154,500	\$154,500	\$154,500	\$154,500	\$154,500	\$772,543
Networking	\$56,923	\$56,923	\$56,923	\$56,923	\$56,923	\$284,615
AWS Support	\$180,000	\$180,000	\$180,000	\$180,000	\$180,000	\$900,000
On-Premises Total	\$3,748,706	\$540,076	\$540,076	\$3,748,706	\$540,076	\$9,117,639

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Cashflow Summary

[CUSTOMER] DIRECTIONAL BUSINESS CASE

Scope and Assumptions for TCO

Item	Scope
Scope	<ul style="list-style-type: none"> Analysis based on customer provided VM list from April 4, 2022 Compute and Storage are obtained from the VM Inventory, Network estimates are based on customer provided system requirements documentation
AWS Region	<ul style="list-style-type: none"> Primary - US West (Oregon) DR - Asia Pacific (Tokyo)
Business case and Hardware refresh timeline	<ul style="list-style-type: none"> 5 years business case with 5 years refresh timelines
Pricing Instruments	<ul style="list-style-type: none"> 3 year instance savings plan with all upfront pricing Spot instances for non-CPU servers 20% MAP discount on Year 1 server and storage spend 8% EDP discount on server and storage spend
Co-location estimated cost	<ul style="list-style-type: none"> Estimated rates based on industry + OEM + Analyst Data applied to Rensess inventory data
Compute Utilization	<ul style="list-style-type: none"> Obtained from 2021 Migration Evaluator scan Average CPU utilization was 30%, Average RAM utilization was 33%
Physical hosts	<ul style="list-style-type: none"> Host type was assumed based on the Hitachi 85500 model included in customer provided system requirements with the following specifications:
Licensing	<ul style="list-style-type: none"> Hitachi licenses Windows, and RH-EL licenses Customer owns SQL licenses
Storage	<ul style="list-style-type: none"> On premises data disk storage mapped to EBS volumes, system disk storage part of EC2 mapping Daily and monthly backups for data and system disks respectively for the primary environment
Networking	<ul style="list-style-type: none"> Includes VPN tunnel for connection and monthly data egress Data obtained from customer provided system requirements documents
Support	<ul style="list-style-type: none"> Business level support had been estimated

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All Assumptions Used

Business case with Migration Evaluator

Quick Insights report

Quick Insights
Generated: 11/09/2021

Right sizing workloads on AWS would result in an estimated annual cost of **\$2,332,725 USD** * for Amazon Elastic Cloud Compute (EC2) and Elastic Block Storage (EBS).

Based on your reported CPU and memory utilization, you could realize a **14% savings** ** compared to directly migrating your on-premises servers and storage. With AWS, you have access to more instances in every imaginable shape and size than you'll find elsewhere and we continue to add more so you can always find the right size based on your current needs.

Electing to repurchase non-optimized operating system licensing from AWS would add **\$1,645,310 USD** * to the Amazon EC2 and EBS costs shown above.

If you would like to learn more about migrating workloads to AWS including software license optimization and exploring managed services, please contact your AWS account team or email migration-evaluator@amazon.com.

About this report

The analysis is based on infrastructure, software licenses and utilization discovered from 10/29/2021 to 11/07/2021.

Servers
- 585 virtual machines
- 180 physical servers

Storage
- 874 TB of attached block storage

Utilization
- 62.6% peak CPU utilization***
- 90% peak memory utilization**

Licensing
- 765 servers (Linux: 101, Windows: 562, RHEL: 48, SUSE: 54) - 90% peak memory utilization**
- 105 servers running SQL Server (Standard: 28, Enterprise: 75)

* Projected AWS costs based on public standard reserved - no upfront - 1 year instance Savings Plan USD pricing for Amazon EC2 and Amazon EBS running in US East (N. Virginia) with using your own SQL Server licenses. This report provides an estimate of fees and savings based on certain information you provide. Fee estimates do not include any taxes that might apply. Your actual fees and savings depend on a variety of factors, including your actual usage of AWS services, which may vary from the estimates provided in this report.

** Projected savings based on utilization data available to date compared to a like-for-like match of on-premises CPU and RAM specifications. A longer collection period will improve right sizing confidence.

*** The average CPU utilization value from all servers.

Engagement: separate corp - phase 1

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Directional business case

Migration Business Case
Example Corp.
Migration Evaluator
October 18th 2022

Detailed Assessment Overview

Assumptions & Modeling Details

- Cost Model: 1 & 3 YR NURI
- US-East (N. Virginia)
- Right-Sized
- Zombies removed from Scope
- Licensing Optimized
- No App or Env Groupings Provided

Infrastructure Count

Infrastructure	Count
VMware	584
Hyper-V	1
Base Metal	20
Patent	605

Environment: Casual

Time In-Use

Time In-Use	Idle	Use
Idle	41.04%	58.96%

Financial Overview

	On-Premises Cost Estimate	Option 1	Option 2	Option 3	Option 4
		1 YR NURI - LI	1 YR NURI - BYOL SQL	1 YR NURI - BYOL WS & SQL	1 YR NURI - BYOL WS & SQL
Compute	\$1,831,506	\$890,765	\$677,369	\$520,675	\$726,525
Storage	\$828,648	\$374,231	\$374,231	\$374,231	\$374,231
Network		\$58,758	\$58,758	\$58,758	\$58,758
Annual Total	\$2,660,155	\$1,323,751	\$1,110,358	\$953,664	\$1,159,515
Annual Savings		50%	58%	64%	56%

Modeling Details:

- Option 1: Modeled to Shared Tenancy, Reserved Instances (RI) with Windows & SQL Server License Included (L1)
- Option 2: Modeled to Shared Tenancy, Reserved Instances (RI) with Windows Server License Included (L2)
- Option 3: Mixed Tenancy - SQL and Windows Server licensed to Dedicated Hosts with BYOL, when cost effective. Resourcing included to Shared Tenancy (S4)
- Option 4: Mixed Tenancy - SQL and Windows Server licensed to Dedicated Hosts with BYOL, when cost effective. Resourcing included to Shared Tenancy (S4)

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Automated PDF & Excel export
Available within **48 hours** of
data collection

Available **5 days** after data
collection ends (upon request)

Accelerating your migration



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Migration & modernization projects can be challenging

THESE PROJECTS CAN BE COMPLEX

- Deconstruct the on-premises technical environment
- Performance and relationship of migrating applications
- Understand the current operational processes
- Policy issues and business rules
- Security policies
- Embedded local knowledge
- People/culture issues
- Regulations

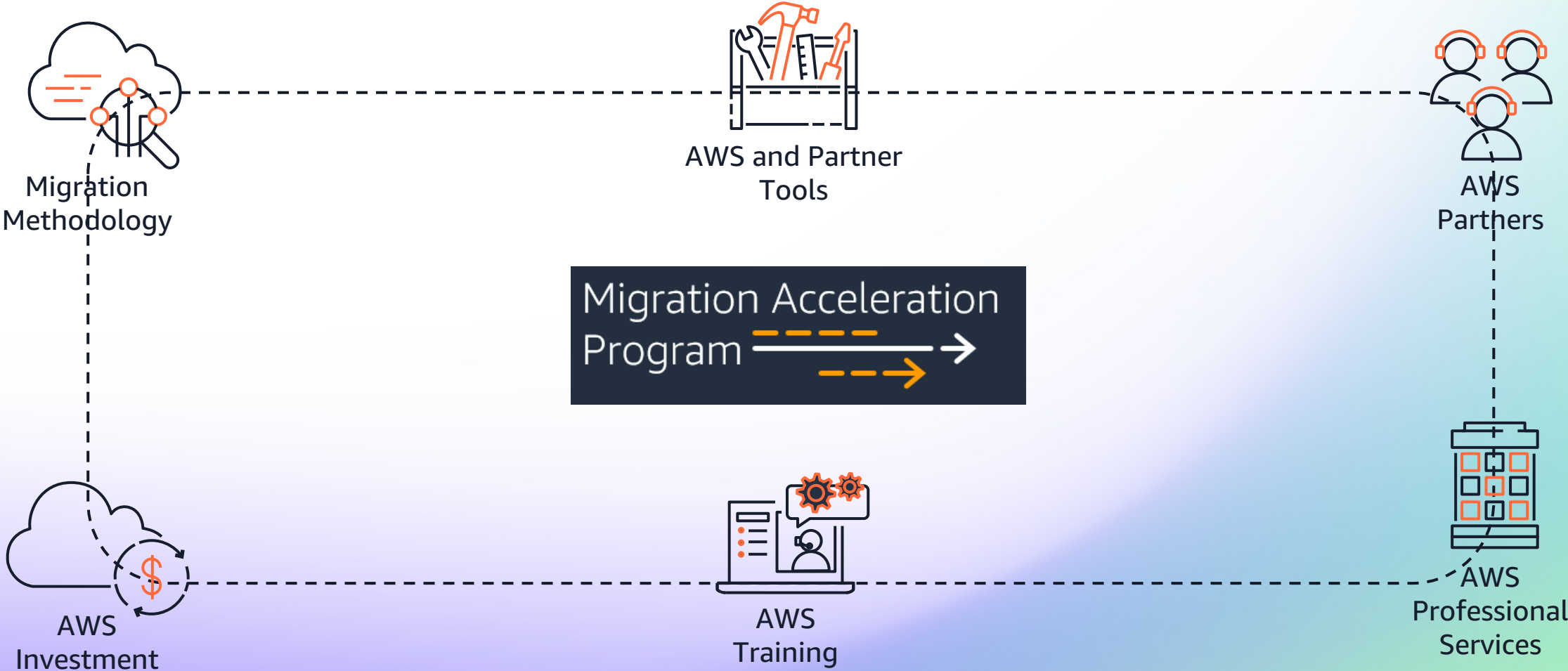
✓ Best Practices

- ✓ Demonstrated leadership
- ✓ Set clear business goals
- ✓ Develop cloud skills / address gaps

**The highest risk has been in a stalled project or a false start
..... these can set a cloud program back by months, even years**

Migration Acceleration Program (MAP)

Flagship AWS program to help customers migrate and modernize to AWS using a proven approach

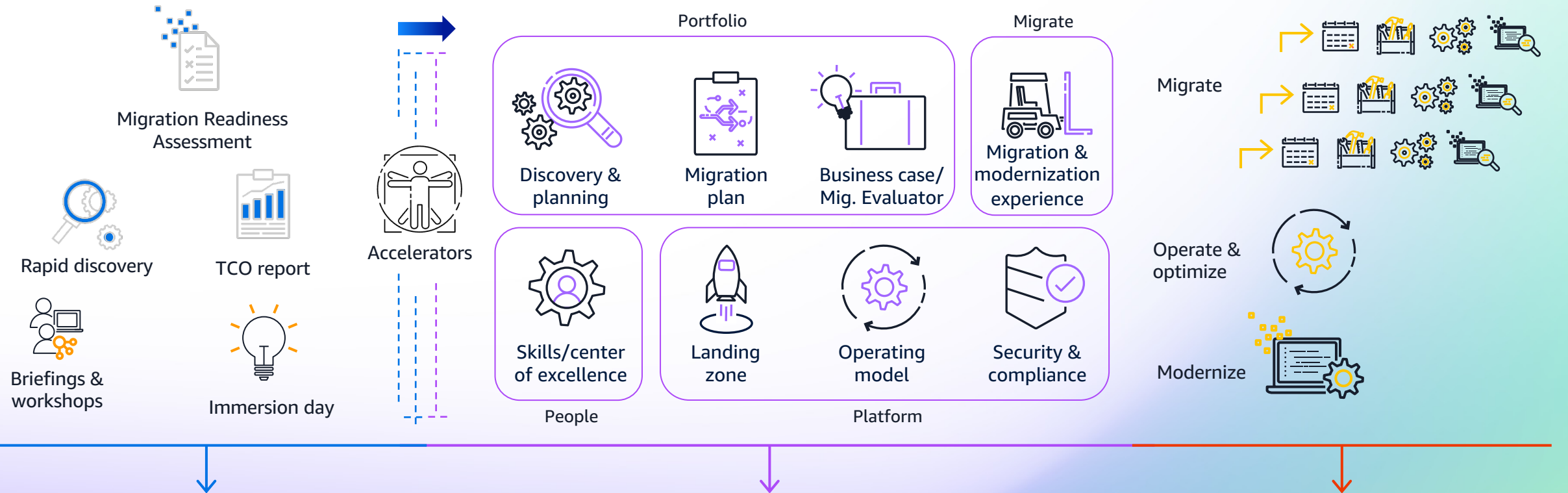


Simple three-step approach

Assess

Mobilize

Migrate & Modernize



Create a case for change

Build readiness through experiences

Accelerate transformation at scale

Using a proven framework greatly increases your odds of success and speed to market

AWS Migration Framework

Assess



Creating a Case For Change

- Establishing Data Requirements and Collecting Data
- Evaluating potential third-party license cost savings
- Developing a compelling business Case
- Aligning on an understanding of the capabilities required
- Establishing a Roadmap for the activities to come
- Agreeing to a Prioritized List of Actions
- Gaining organizational commitment to the journey ahead
- Taking the first step

[AWS Migration Evaluator](#)

[AWS Migration Readiness Assessment](#)

[AWS Optimization and License Assessment](#)

Using a proven framework greatly increases your odds of success and speed to market

Available Assessment Tools

AWS Services and Tools



Migration Evaluator



AWS Migration Hub



AWS Application Discovery Service



AWS DataSync



Cloud Adoption Readiness Tool (CART)



Migration Readiness Assessment (MRA)



CloudOptimizer



Migration Portfolio Assessment (MPA)

Partner tools – Discovery, Planning, Recommendation



Mobilize overview

Goals

- Build AWS foundational environment
- Establish governance and security posture
- Scale enterprise operations to AWS
- Identify migration patterns
- Define team model and agile work streams
- Develop cost and resource model for the migration of a defined portfolio

Mobilize



Outcomes

Platform

- Landing Zone with security controls
- Operational tools and procedures

Portfolio

- 7R disposition and decision criteria
- App discovery and migration Wave Plan

Migration

- 3–5 applications migrated to AWS
- Hands-on migration experience and patterns
- Migration proposal

People

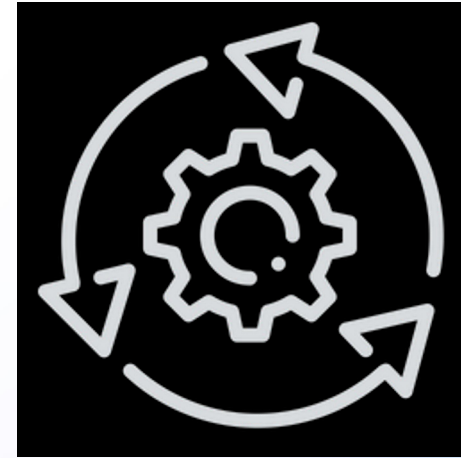
- Cloud Leadership functional optimization
- Organization Change Acceleration plan(s)
- Cloud skills assessment and role ramp-up plans

Enable readiness for a mass migration, modernization, or greenfield

You need a cloud foundation



Landing Zone



Operating model(s)



Cloud foundation

What is a landing zone?

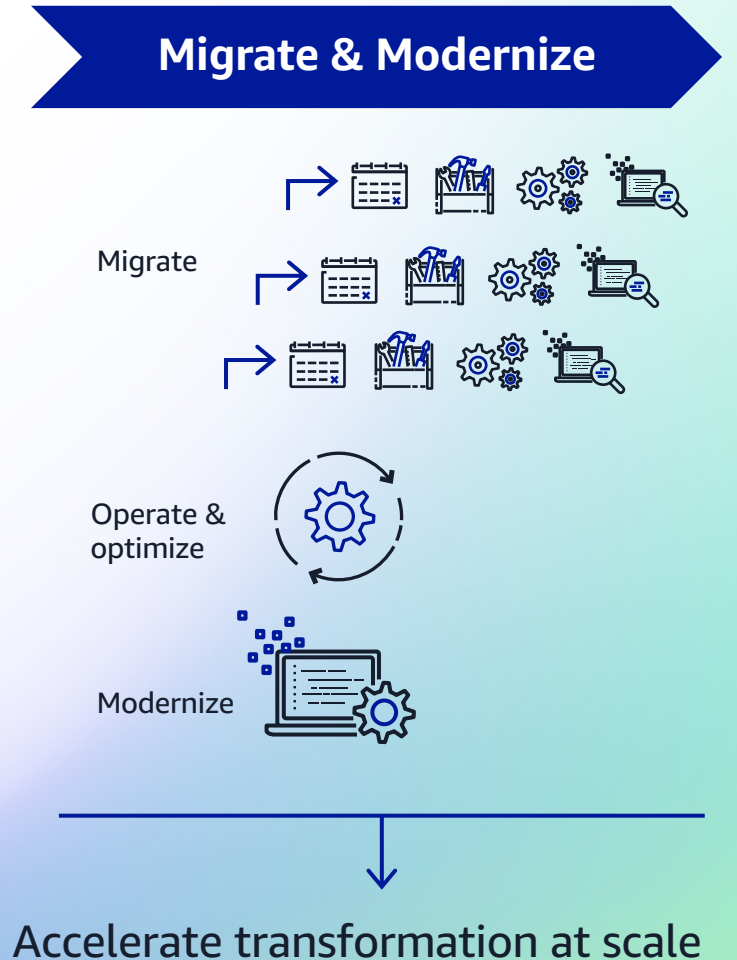
- As a concept, “landing zone” represents a starting point for a customer’s cloud migration journey. In this context, landing zone refers to a cloud environment that can be used to deploy initial customer workloads. – AWS
- “Landing zone” can be defined as an environment where applications can “land” and just work, without having to worry about ecosystem dependencies such as network routing, AD integration, access to file storage systems, compliance with established company standards, etc.
- An ideal landing zone offers features and functionalities that cover capabilities under all three technical pillars of CAF - namely Platform, Operations and Security

Compliance requirements

- ✓ Personnel
- ✓ Incident response
- ✓ Boundary protection
- ✓ Identity and access control
- ✓ Disaster recovery
- ✓ Configuration management
- ✓ Highly available architecture
- ✓ System management & monitoring
- ✓ Log management & monitoring
- ✓ Compute and storage
- ✓ Networking
- ✓ Virtualization
- ✓ Data center

AWS Migration Framework

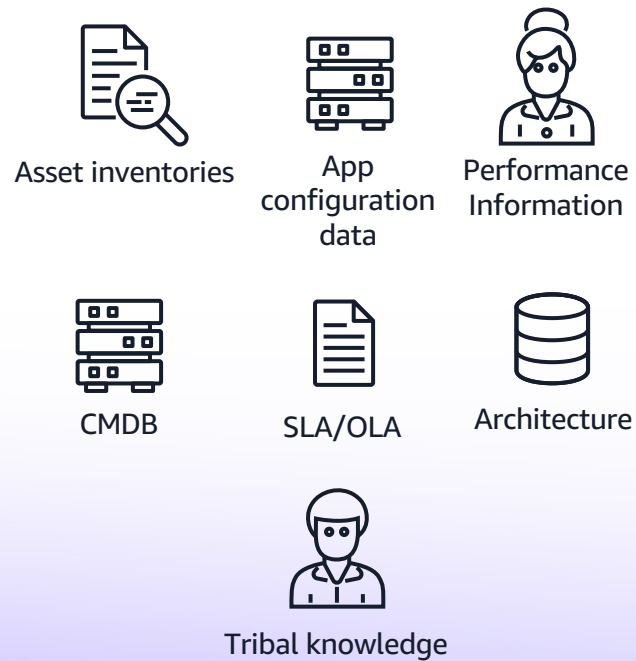
- Cloud Migration Factory
- AWS End-of-Support Migration Program (EMP) for Windows Server
- Application Modernization (Assessment, Lab)
- SaaS Transformation



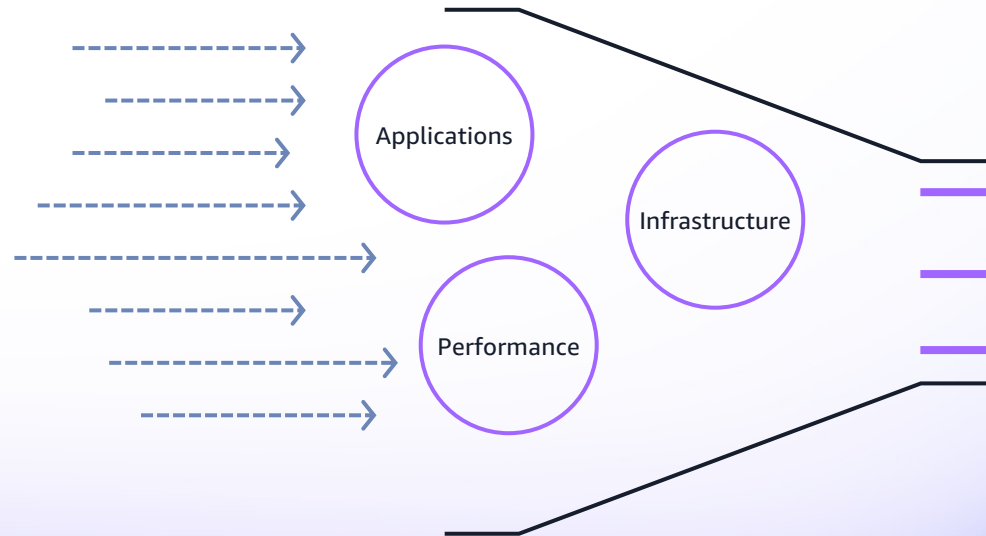
Using a proven framework greatly increases your odds of success and speed to market

Migration and modernization strategies

Current IT snapshot



Discover & organize data



Strategies for each workload (7Rs)

- Refactor
- Re-platform
- Repurchase
- Rehost
- Relocate
- Retain
- Retire

↑
Level
of
effort

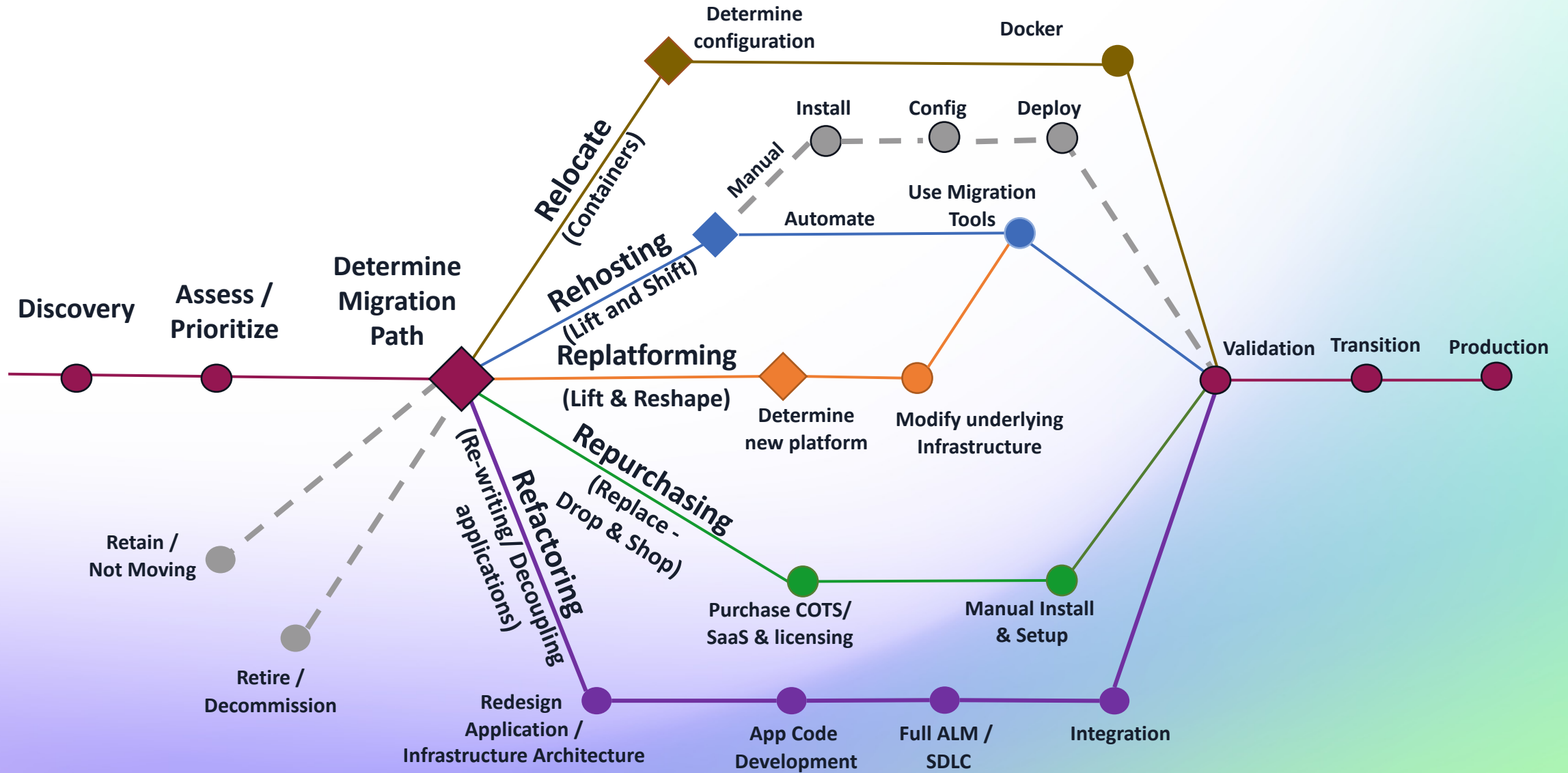
Strategy decision criteria should be based on both business and technical needs

Georgia Department of Community Health

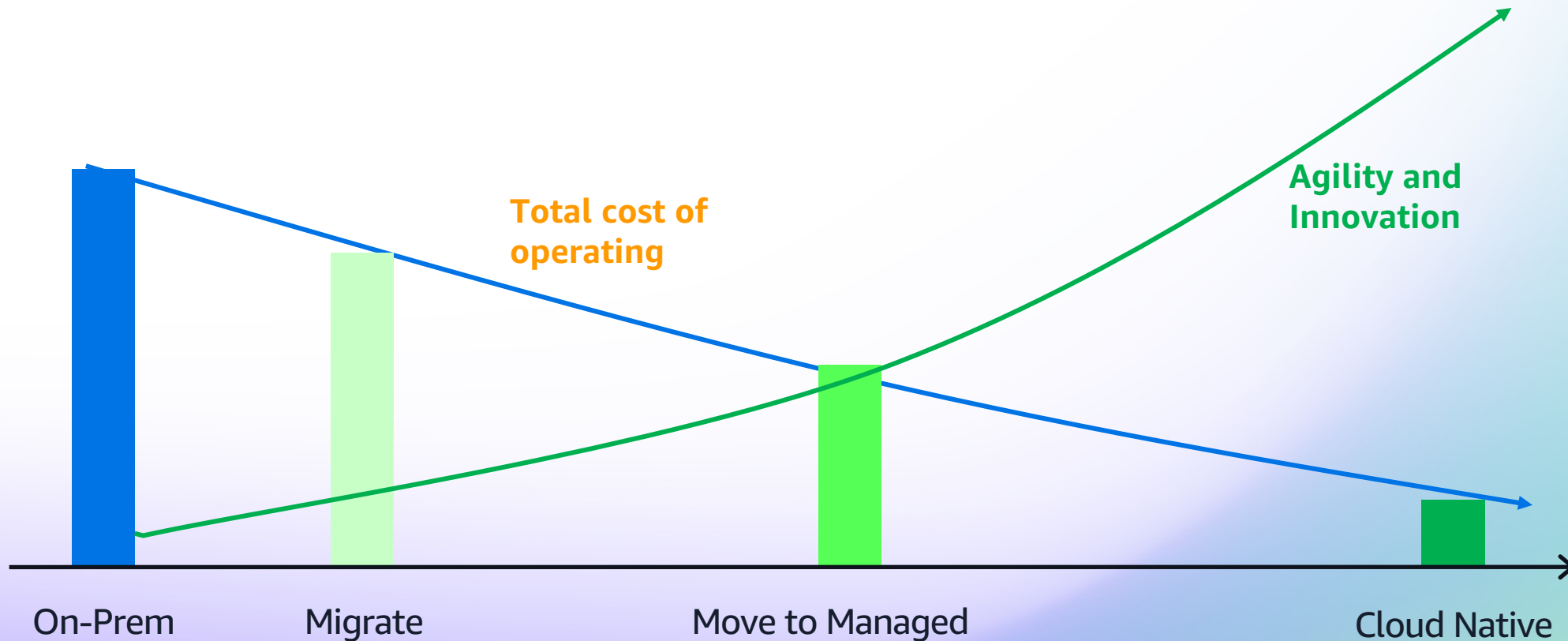
- Challenge - Complex migration of legacy Medicaid system to AWS cloud while maintaining CMS compliance and continuous service for 2.4M citizens
- Partnered with GTRI to build modular AWS cloud services, replacing monolithic on-premises infrastructure with flexible, scalable solutions
- Cut modernization timeline by 2 years, reduced 15 COTS licenses to 3 AWS services, and achieved 99.99% uptime using AWS Availability Zones



Application Migration Strategies



Both migrating and modernizing are important to fully realize the benefit of cloud

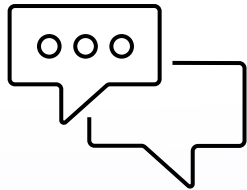


Adopt GenAI in your existing Migration & Modernization

Assess



PLANNING & ANALYSIS

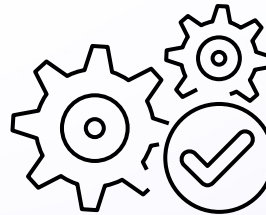


- ✓ Improved decision making
- ✓ Wave planning
- ✓ Early Insights from GenAI like Anti-patterns
- ✓ Building Business Case

Mobilize



AIDED MODERNIZATION

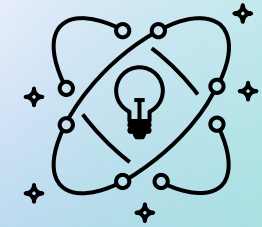


- ✓ Automated Code Documentation
- ✓ Automated Test cases and Test Data generation
- ✓ Landing Zone build & IAC

Migrate & Modernize



FORTIFY OPERATIONS



- ✓ Code build & Generation
- ✓ Version and Framework Upgrades
- ✓ Performance Optimization
- ✓ Troubleshooting & Debugging
- ✓ Cloud Native Build
- ✓ Code refactoring & Tech Debt reduction

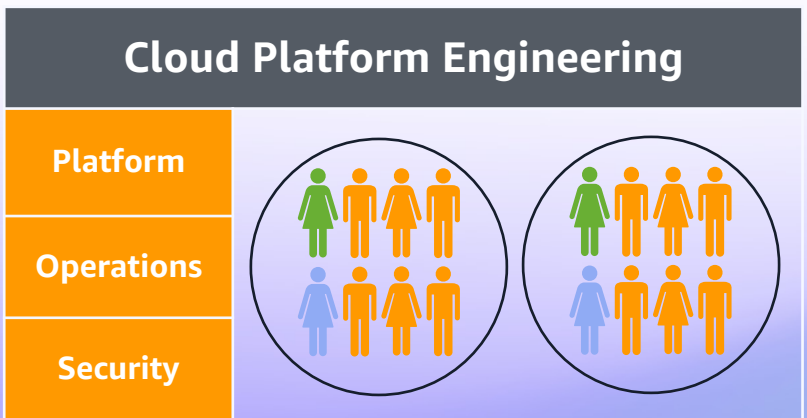
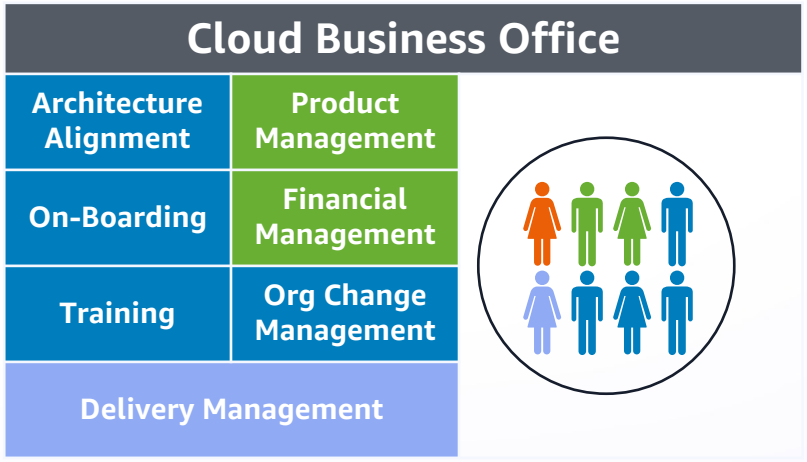
Cloud operating model

Cloud foundation team
(0-6 months)

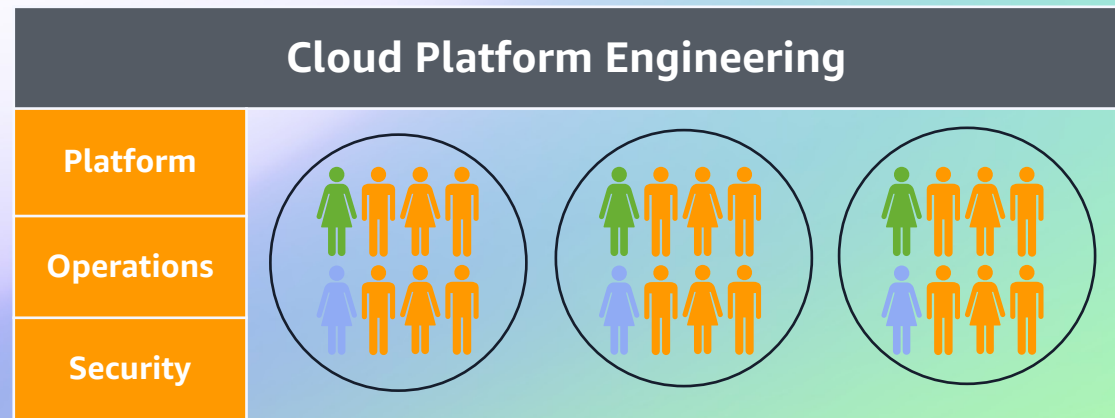
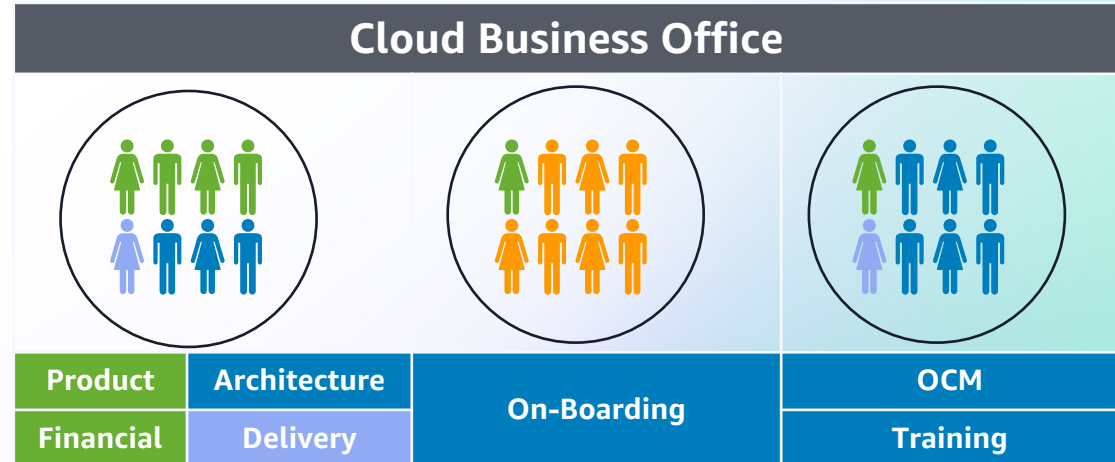


- Cloud Leader
- Product Owner
- Financial Analyst
- OCM/Training Specialist
- Cloud Architect
- Platform Engineers

Initial cloud enablement engine
(6-12 months)



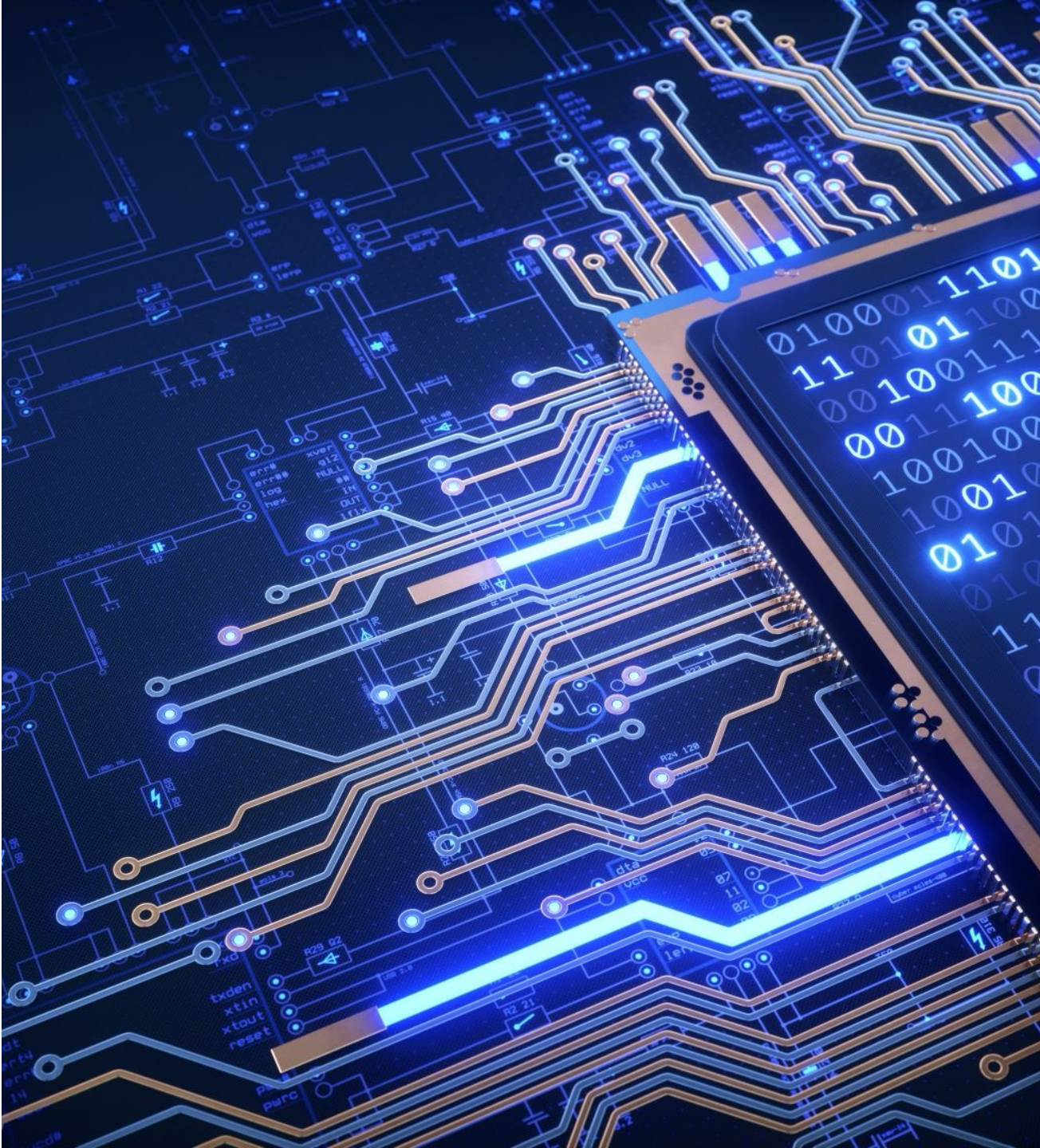
Cloud enablement engine @ scale
(12+ months)



Keys to Success

- Create a clear vision and strategy
- Build strong foundations
- Invest in people and processes
- Demonstrate that the success aligns with the strategy

Modernize the results



Replatform: 6 modernization pathways



AWS Application Migration Service

01

Configure disaster recovery after migration

02

Convert CentOS to Rocky Linux

03

Convert SUSE BYOS to AWS license

MORE TO COME

Upgrading the operating system

Get to latest OS Version

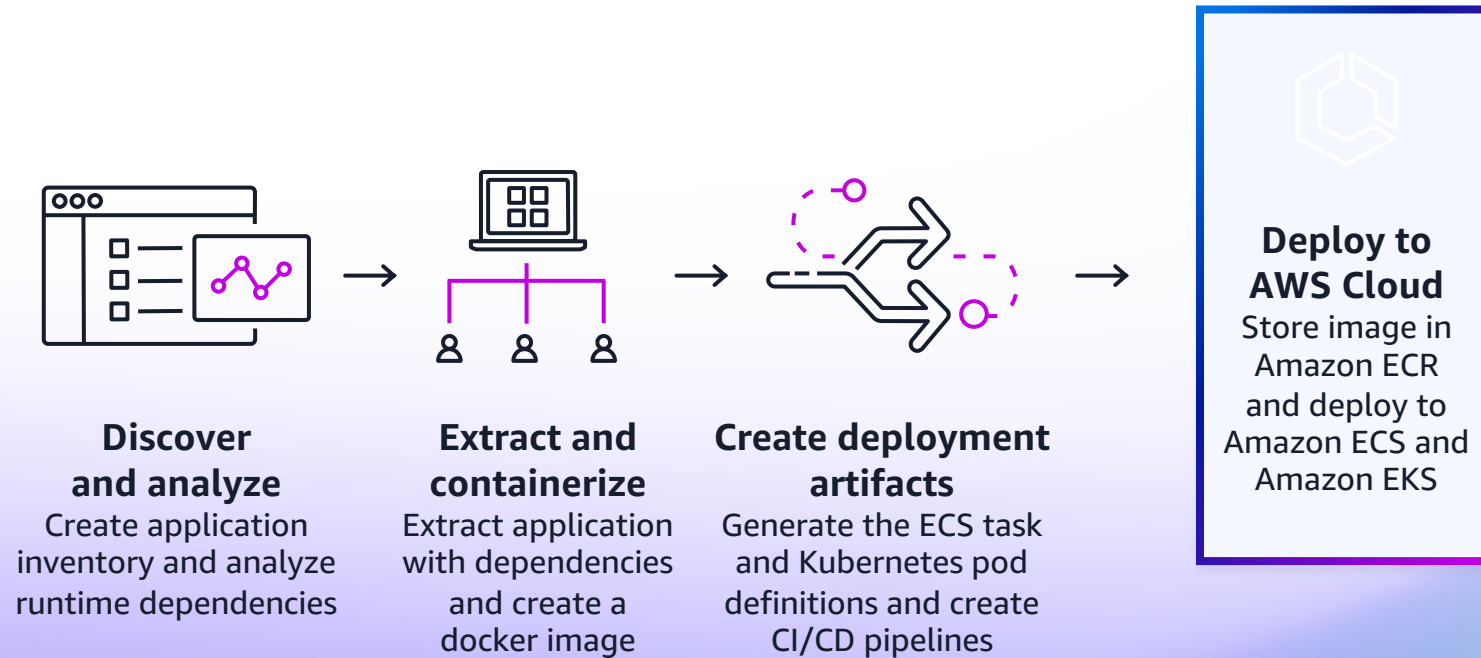
Rehydratable AMIs

Packaged Software Installs

Load Balanced Across AZs

Replatform: 6 modernization pathways

App2Container helps customers to transform their applications running in virtual machines into containers and easily deploy them to Amazon ECS or EKS with minimal effort



Upgrading the operating system

Move to Containers

Legacy app containerization with minimal efforts

Containerization at scale

Best practices for containerization

Opinionated AWS Deployment artifacts

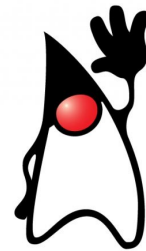
Replatform: 6 modernization pathways

Porting Assistant for .NET

Insight and assistance for porting from .NET Framework to .NET Core

[Get started with Porting Assistant for .NET](#)

[Download Porting Assistant for .NET](#)



Upgrading the operating system

Move to Containers

Move to Open Source

Quickly prioritize and reduce manual effort for .NET with Porting Assistant to .NET Core

Moving to Open Source databases

(i.e., SQL Server -> Aurora PostgreSQL)

Moving to Linux

(i.e., Windows → Linux)

Replatform: 6 modernization pathways



AWS Lambda



AWS Fargate



Amazon EventBridge



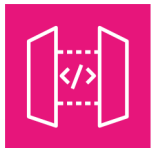
AWS Step Functions



Amazon Neptune Serverless



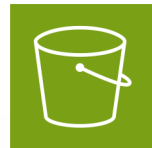
Amazon OpenSearch Serverless



Amazon API Gateway



AWS AppSync



Amazon Simple Storage Service (Amazon S3)



Amazon Elastic File System (Amazon EFS)



Amazon Simple Notification Service (Amazon SNS)



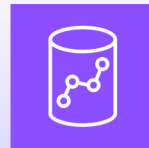
Amazon DynamoDB



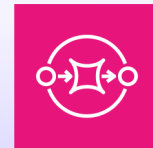
Amazon RDS Proxy



Amazon Aurora Serverless



Amazon Redshift Serverless



Amazon Simple Queue Service (Amazon SQS)

Upgrading the operating system

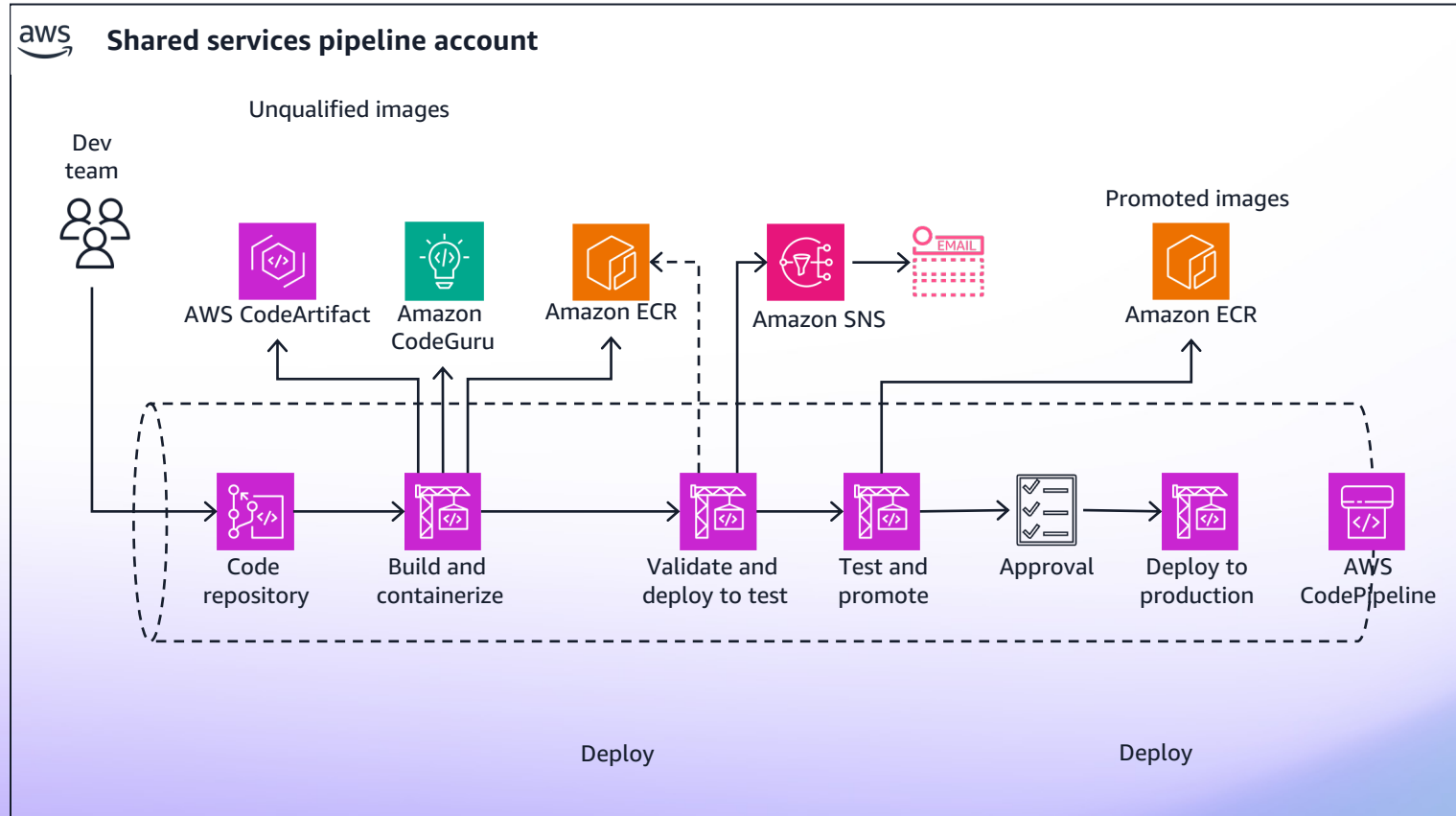
Move to Containers

Move to Open Source

Move to Serverless

Multiple services now offer serverless offerings

Replatform: 6 modernization pathways



Upgrading the operating system

Move to Containers

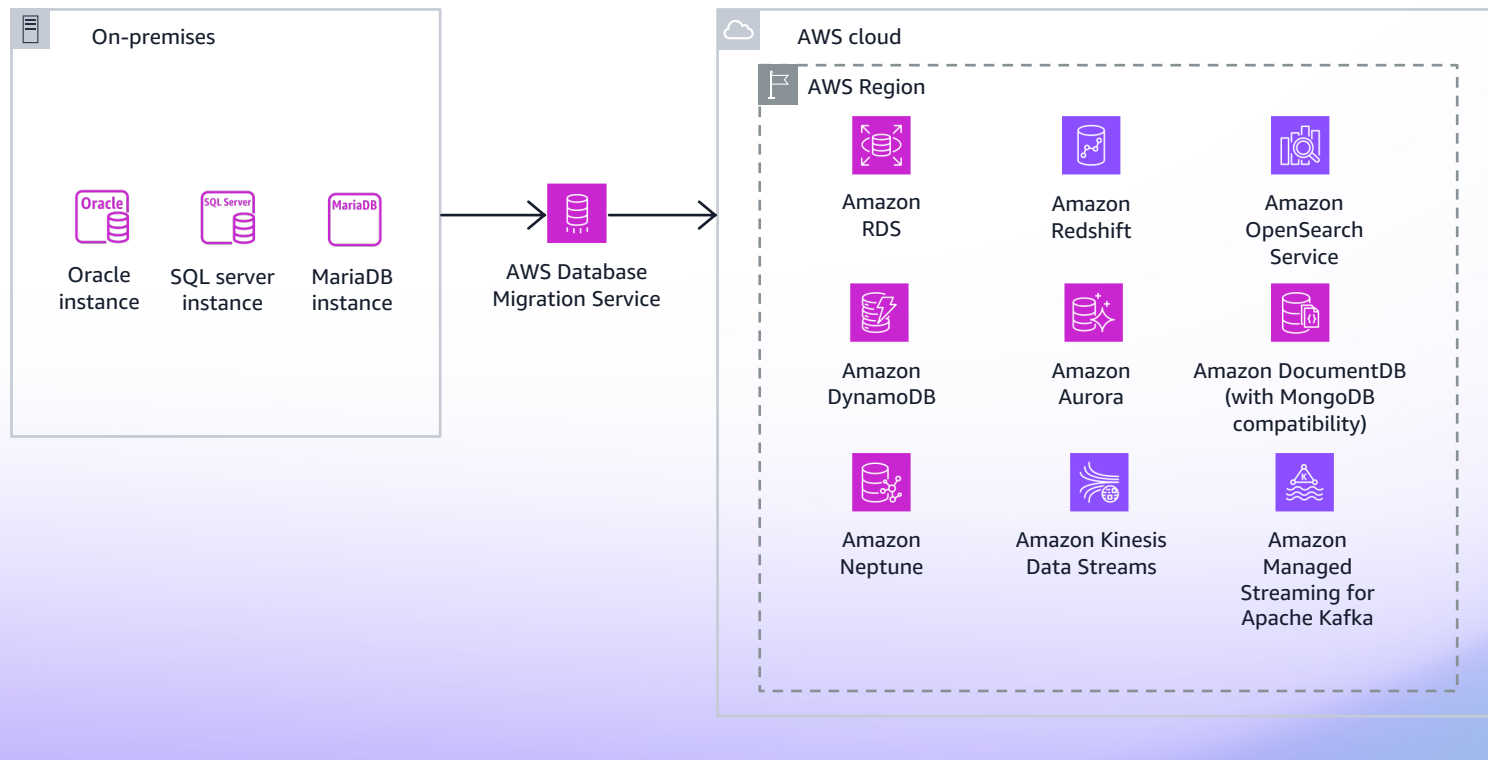
Move to Open Source

Move to Serverless

Move to DevOps

Replatform modernization pathways

1,200,000 Databases migrated using AWS Database Migration Service



Upgrading the operating system

Move to Containers

Move to Open Source

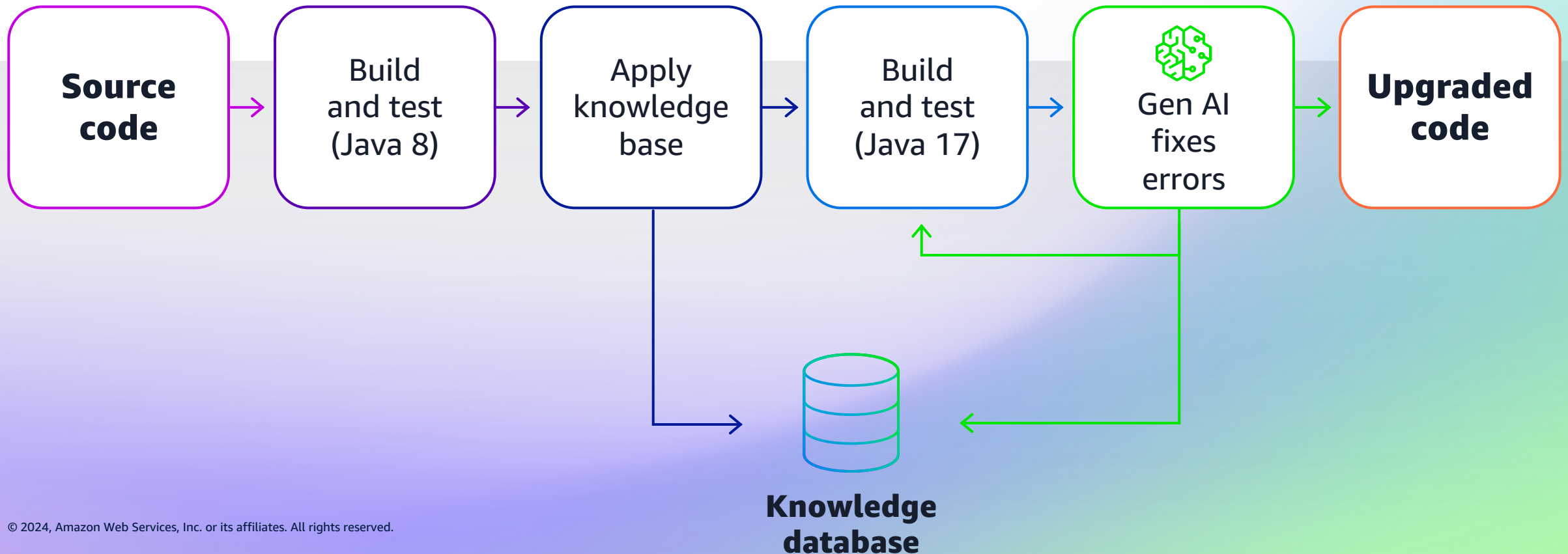
Move to Serverless

Move to DevOps

Move to Manage Databases

Amazon Q Developer agent for code transformation

MODERNIZE LANGUAGE VERSIONS IN A FRACTION OF THE TIME



University of Newcastle

- Emergency migration of 139 applications to AWS in 9 months due to data center demolition, requiring partnership with AWS, Deloitte, and CSA
- Leveraged AWS services to replatform 72% and refactor 23% of applications, including NUSTAR student management system serving 39,000 users
- Achieved rapid infrastructure deployment through AWS (from 8 weeks to 6 minutes), implemented high availability with Amazon RDS Multi-AZ, and reduced infrastructure costs by 20%



Are you well-architected?



Build and deploy faster



- Lower or mitigate risks



- Make informed decisions



Learn **AWS** best practices

Cost optimization

- Implement Cloud Financial Management (CFM)
- Adopt a consumption model
- Measure overall efficiency
- Stop spending money on undifferentiated heavy lifting
- Analyze and attribute expenditure

Operational excellence

- Organize teams around business outcomes
- Implement observability for actionable insights
- Safely automate where possible
- Make frequent, small, reversible changes
- Refine operations procedures frequently
- Anticipate failure
- Learn from all operational events and metrics
- Use managed services

Operating your cloud



Change Management



Access Management



Security Management



Incident Management



Patch Management



ITSM Integration



Provisioning Management



Continuity Management



Reporting

Self-Managed

Full control simplified with AWS tools

- AWS Service Catalog
- AWS Systems Manager
- AWS Management Tools & Services
 - Modeling and Provisioning; Automation and Operations; Monitoring and Logging
- 3rd Party Tools

AWS Managed Services (AMS)

We operate your cloud with AWS best practices and compliance standards so you can focus on your business priorities

- Addresses Security & Compliance
- Managed AWS Landing Zone
- Self-service automation
- 7x24 Worldwide AWS Operations Support Engineers
- “Month-to-Month” terms: you can take back control any time

Partner Managed

Leverage AWS certified Managed Service Partners to help operate your cloud

- 100+ Managed Service Partners (MSP)
- Certification Program
- Third-Party Audit
- Full Lifecycle Services

Emory University

- Build high-performance computing environment in AWS cloud to support AI.Humanity initiative and large-scale machine learning research
- Deployed AWS HPC cluster in 6 weeks using CloudFormation, enabling seamless integration with existing workflows and supporting complex ML workloads with A100 GPUs
- Reduced genome sequencing time from 3 days to 3 hours on AWS, trained 21,000-image ML model, and expanded research capabilities



**Accelerating
university AI
research
in the cloud**



Thank you!

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Please complete the survey
for this session



Cloud Fundamentals

Large-Scale Migration and
Modernization with AWS