

# Cloud Migration Journey

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# Agenda

- Business drivers for migrating to the cloud
- AWS migration framework
- Assess migration phase
- Mobilize migration phase
- Migrate and modernize phase

# Organizations are moving legacy applications and data to the cloud



**>50%** of enterprise workloads and data are expected to be in a public cloud within 12 months

# Business drivers for migrating to the cloud



# Migration creates value beyond cost savings



## Cost savings (TCO)

### — What is it?

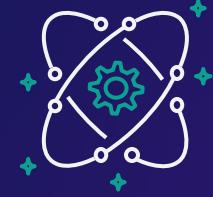
Infrastructure cost savings/avoidance from moving to the cloud



## Staff productivity



## Operational resilience



## Business agility

### — Examples

50%+ reduction in TCO ([GE](#))

Over 500 hours per year of server configuration time saved ([Sage](#))

Benefit of improving SLAs and reducing unplanned outages

Deploying new features/applications faster and reducing errors

Critical workloads run in multiple AZs and regions for robust DR ([Expedia](#))

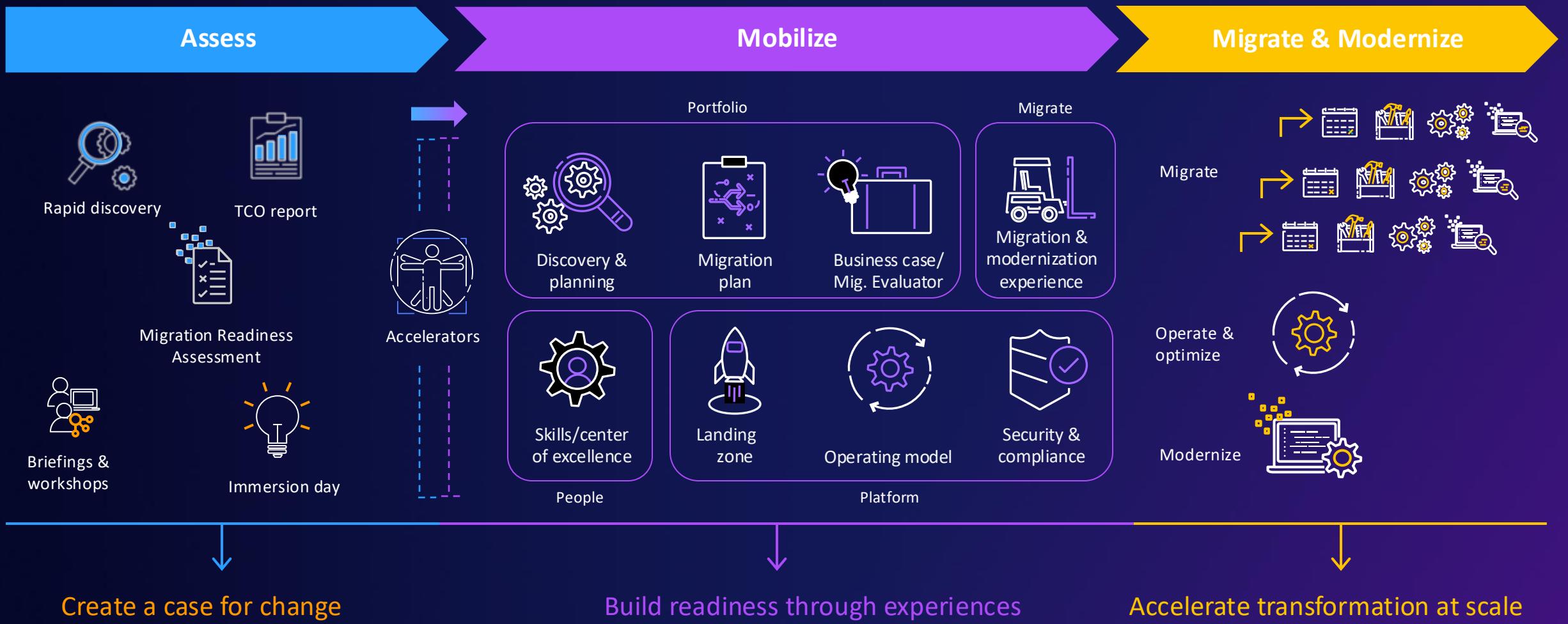
Build-outs and deployments happen 5x faster ([Intuit](#))

← Typical focus →

← →

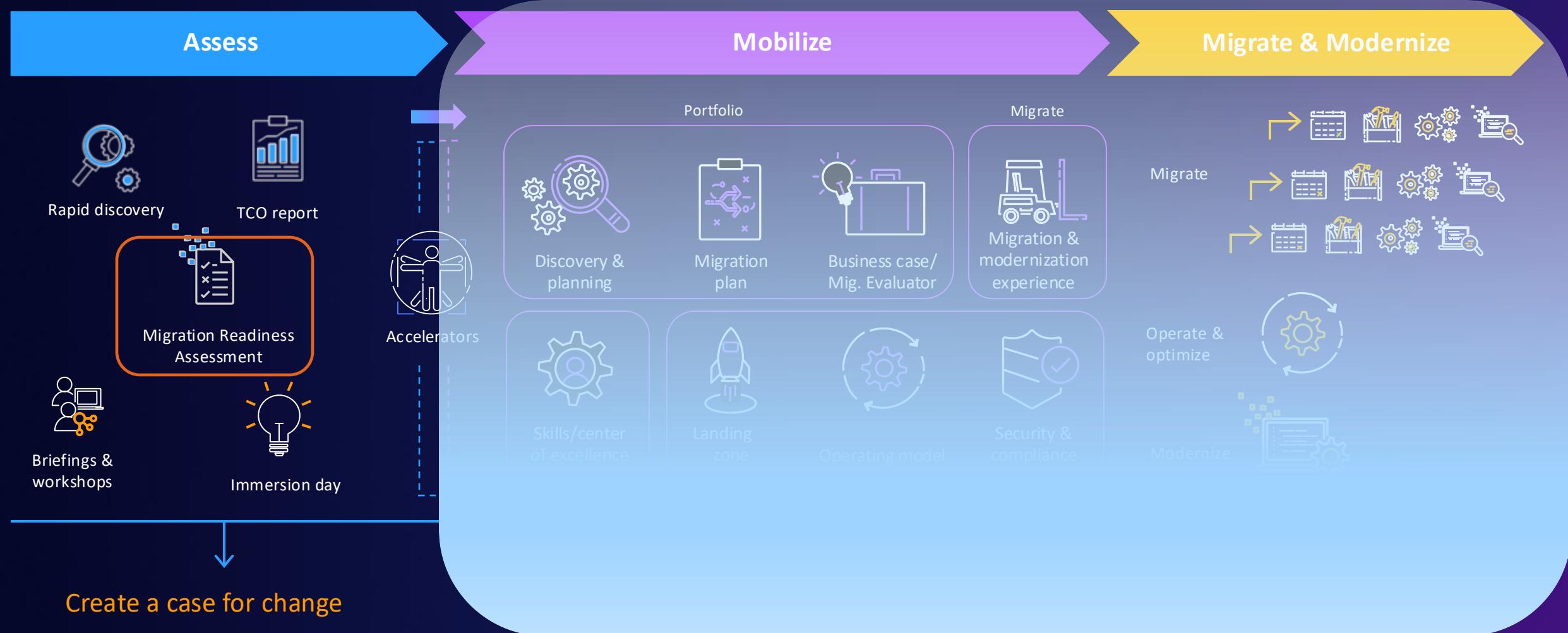
Most compelling cloud benefits  
Business/value

# AWS Migration Framework



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

# AWS Migration Framework – Assess



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

# Migration Readiness Assessment Overview



MRA is an interactive workshop designed to generate a specific set of actions needed to build momentum and capability based on your current state, business goals and defined objectives.

## ④ Target Outcomes

- Trust and a shared view of the desired target state
- Alignment of domain leaders on gaps and interdependencies to achieve target outcomes
- A reliable implementation roadmap

## ④ Built for Action

- Accelerates decisions on tactical implementation needs
- Agreement on ownerships for the next phase

## ④ Deliverables

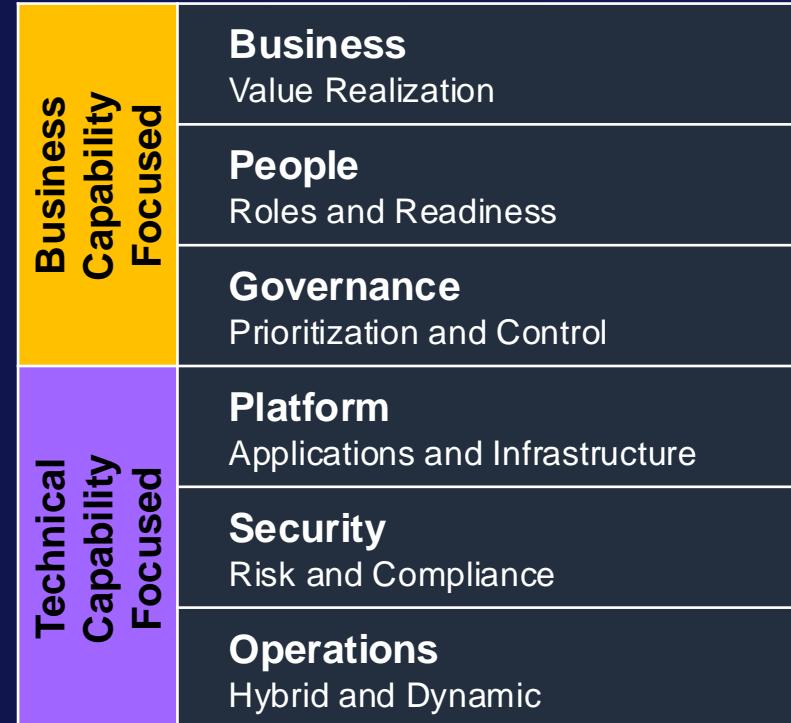
- Assessment report
- Prioritized list of actions
- Roadmap

# Migration Readiness Assessment Overview

The assessment includes question survey and interactive activities conducted as a 1-day workshop:

- Alignment of leadership teams
- Consensus on decision-interdependency
- Identification of gaps and readiness

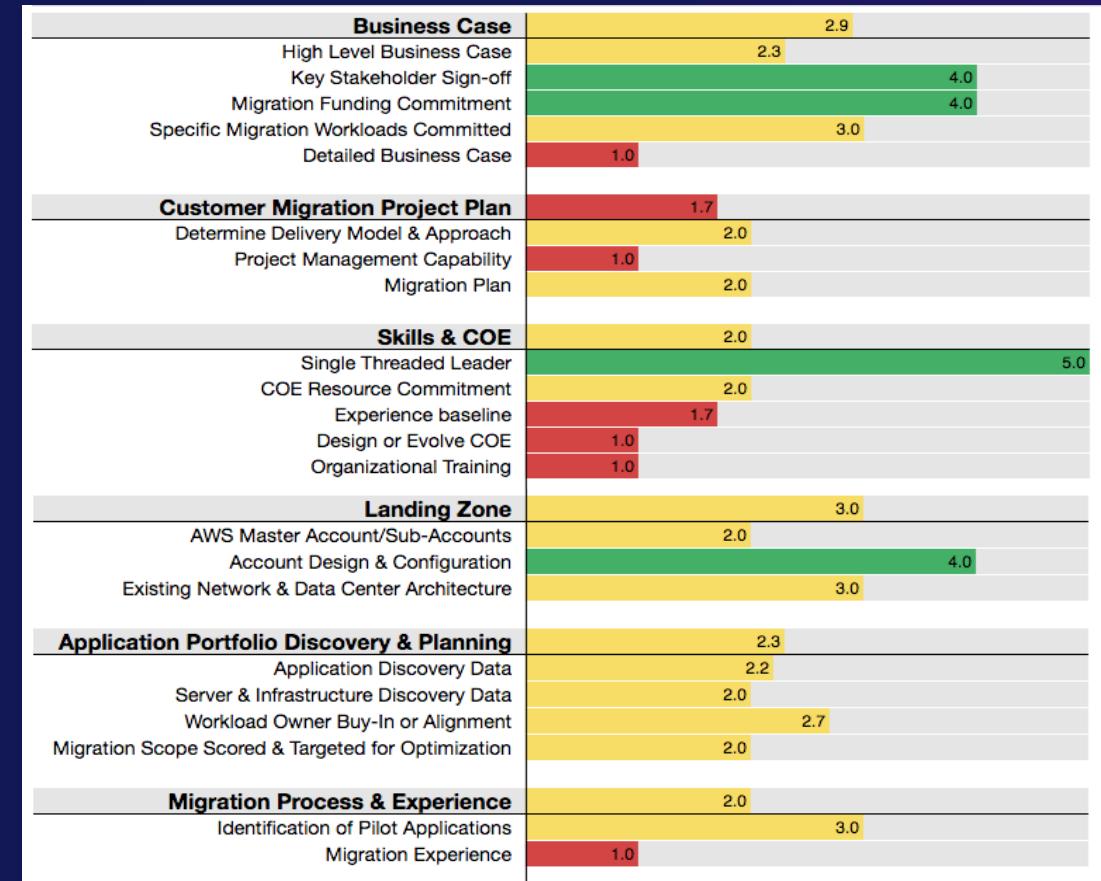
Action plan and proposal to close the gaps and accelerate to the next phase of adoption (e.g. Accelerators, Mobilize project)



Diagnose migration readiness, align leadership teams, and build a case for change

# AWS Migration Readiness Assessment

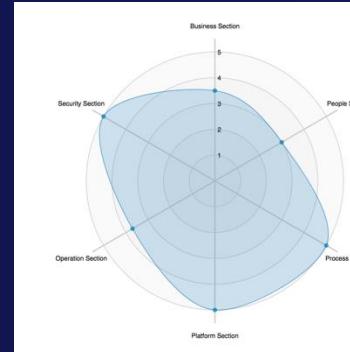
- 1-day workshop, ~70 questions to identify readiness and gaps for a large-scale migration
- Followed by a proposed action plan to close the gaps (e.g., accelerators, an MRP project plan by AWS ProServe / an APN Partner)
- A business case based on total cost of ownership conducted in parallel



# Take a quick survey (<3 min)

Using your device, go to **Cloud Adoption Readiness Tool (CART)**  
<https://cloureadiness.amazonaws.com/#/cart>

- Quick online survey for you to assess your cloud migration readiness
- Helps you identify focus areas to successfully adopt the cloud
- Assessment report details your readiness across six perspectives: Business, people, process, platform, operations, and security
- Provides recommendations to enable deeper conversation with your teams, Consulting Partner, or Professional Services



The screenshot displays the Cloud Adoption Readiness Tool (CART) interface. At the top, there are navigation links: Report, Heatmap, Score (which is selected), and Radar. Below this is a section titled "CART Assessment Scores" showing scores for various categories across four sections: Business Section, People Section, Process Section, and Platform Section.

Section	Category	Score
Business Section	Business Rationale	3
	Business Case	3
People Section	Executive Sponsorship	5
	Collaboration	1
Process Section	Application & Infrastructure Portfolio Management	5
	Agile Frameworks	5
Platform Section	AWS Cloud Account Planning	3
	DevOps Planning	3

On the right side, there is a form titled "Get Your Full Report Now" with fields for First Name, Last Name, Phone Number, Email, Job Title, Company, and Company Size. Below the form, there are three columns of status indicators:

Section	Status
Business Section	⚠️
People Section	✅
Process Section	✅
Platform Section	⚠️
Operation Section	⚠️
Security Section	⚠️

# AWS Migration Framework – Assess



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

# Migration Portfolio Assessment (MPA)

## When to use

- Available to Partners and AWS
- Early assess phase for estimated TCO creation
- Mobilize phase for planning

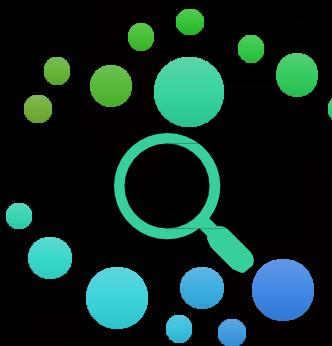
## Features

- Data normalization
- Scenarios comparison
- AWS cloud economics-based assumptions
- Strategy recommendations (R-types)
- Waves planning
- Application prioritization



# MPA workflow

Environment  
discovery



Data  
import



Data  
normalization



Data  
visualization



TCO  
creation



# MPA Lab



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Migration and Modernization | MPA-demo-20240827 | Portfolio Assessment Tool | Connect to instance | EC2 | us | +

mpa.accelerate.amazonaws.com

Paused

Sign in

# Migration Portfolio Assessment

Migration Portfolio Assessment

# Migration Portfolio Assessment

Automate portfolio analysis and business case validation.

Create and view portfolios

Get Started

## Features

### Manage portfolio data

Import and validate portfolio data with a flexible import workflow and customizable data validation rules.

### Estimate AWS usage cost

### Collect portfolio data

Request and collect application, server and database data from the subject matter experts via customizable questionnaires.

### Prioritize applications

### What's new?

August 1st, 2024

We improved our Graviton recommendations to be more accurate and current. You can specify Graviton preference through the `AWS - Instance Type` server target attribute (just set it to `Graviton`), or through the `CPU Type`

A | AI/ML and Generative AI Enable X | Workshop Studio X | MPA-demo-20240827 X | Console Home | Console Home X | +

catalog.us-east-1.prod.workshops.aws/event/dashboard/en-US/workshop/apn/mpa/2-importdata/2-1-importlocalcsv

Paused

aws workshop studio michael\_tw\_lin

Getting Started

- Connect to the Lab Environment
- Connect to the Bastion Host
- Explore your environment
- Tips

Application Discovery Service

AWS Partner Network (APN)

- Migration Portfolio Assessment (MPA)
- 0. Getting started
  - Partner Login
  - Employee Login
- 1. Import data
  - Import data from local files**
  - Import data from AWS ADS

AWS account access

- Open AWS console (us-west-2)
- Get AWS CLI credentials
- Get EC2 SSH key

Exit event

Event ends in 2 days 23 hours 8 minutes.

Event dashboard > AWS Partner Network (APN) > Migration Portfolio Assessment (MPA) > 1. Import data > Import data from local files

# Import data from local files

## Attachments

Please download the following files:

- [app\\_table.xlsx](#)
- [appdep\\_table.xlsx](#)
- [databases\\_table.xlsx](#)
- [databasetoapp\\_table.xlsx](#)
- [servercomm\\_table.xlsx](#)
- [servers\\_table.xlsx](#)
- [servertoapp\\_table.xlsx](#)

We will be following through the process summarized below to import environment data into MPA:

1. Create portfolio
2. Identify/locate the data to import
3. Import the data following upload wizard
4. Check and resolve any data issues

File Home Share View

Pin to Quick access Copy Paste Cut Copy path Move to Copy to Delete Rename New item New folder New Open Properties Select all Easy access Select none Edit History Invert selection

Clipboard Organize New Open Select

← → ↑ ↓ This PC > Downloads Search Downloads

Quick access

Creative Cloud Files Personal Account michael\_tw\_lin@msn

This PC

3D Objects

Desktop

Documents

Downloads

Music

Pictures

Videos

Local Disk (C:)

UserProfile (D:)

UserProfile (D:)

Network

Linux

Name Date modified Type Size

Today (7)

	Name	Date modified	Type	Size
	app_table.xlsx	8/27/2024 11:44 AM	Microsoft Excel W...	11 KB
	appdep_table.xlsx	8/27/2024 11:44 AM	Microsoft Excel W...	10 KB
	databases_table.xlsx	8/27/2024 11:44 AM	Microsoft Excel W...	11 KB
	servercomm_table.xlsx	8/27/2024 11:44 AM	Microsoft Excel W...	22 KB
	servers_table.xlsx	8/27/2024 11:44 AM	Microsoft Excel W...	23 KB
	servertoapp_table.xlsx	8/27/2024 11:45 AM	Microsoft Excel W...	12 KB
	databasestoapp_table.xlsx	8/27/2024 11:45 AM	Microsoft Excel W...	11 KB

Earlier this month (12)

178 items

Servers_table.xlsx [Protected View] - Excel															
File	Home	Insert	Draw	Page Layout	Formulas	Data	Review	View	Help	Acrobat	Tell me what you want to do	Share	Edit, Michael		
PROTECTED VIEW	Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View.											Enable Editing	X		
O29	X	✓	fxc												
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	
1	Server ID	OS Name	OS Version	CPU-Nt	CPU-Cc	CPU-Nt	RAM-Tc	CPU-Av	CPU-Pe	RAM-Pe	RAM-Av	Physical	EC2 Ins	Server-I	Tenant
2	FREENAS-DEV-NFS1	FreeNAS-11.3 U4.1	11.3 U4.1	2	2	2E+07	0.27	0.75	0.5	0.4	Physical		0.2		
3	FREENAS-DEV-NFS2	FreeNAS-11.3 U4.1	11.3 U4.1	2	2	2E+07	0.27	0.75	0.5	0.4	Physical		0.7		
4	FREENAS-PROD-NFS1	FreeNAS-11.3 U4.1	11.3 U4.1	2	2	2E+07	0.27	0.75	0.5	0.4	Physical		0.2		
5	FREENAS-PROD-NFS2	FreeNAS-11.3 U4.1	11.3 U4.1	2	2	2E+07	0.27	0.75	0.5	0.4	Physical		0.7		
6	FREENAS-PROD-NFS3	FreeNAS-11.3 U4.1	11.3 U4.1	2	2	2E+07	0.27	0.75	0.5	0.4	Physical		1		
7	FREENAS-PROD-NFS4	FreeNAS-11.3 U4.1	11.3 U4.1	2	2	2E+07	0.27	0.75	0.5	0.4	Physical		0.5		
8	FREENAS-UAT-NFS1	FreeNAS-11.3 U4.1	11.3 U4.1	2	2	2E+07	0.27	0.75	0.5	0.4	Physical		0.2		
9	FREENAS-UAT-NFS2	FreeNAS-11.3 U4.1	11.3 U4.1	2	2	2E+07	0.27	0.75	0.5	0.4	Physical		0.7		
10	HW-LOADBALANCER-1	HW-LB-OS_16		15	4	4	2E+07	0.005	0.015	0.15	0.04	Physical		0.1	
11	HW-LOADBALANCER-1	HW-LB-OS_16	16		4	4	2E+07	0.005	0.015	0.15	0.04	Physical		0.1	
12	HW-LOADBALANCER-2	HW-LB-OS_16	16		4	4	2E+07	0.005	0.015	0.15	0.04	Physical		0.1	
13	LMS-DEV-AD1	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.75	0.5	0.4	Virtual		1		
14	LMS-DEV-AD2	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.75	0.5	0.4	Virtual		0.5		
15	LMS-DEV-DB1	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	4	4	3E+07	0.27	0.75	0.5	0.4	Virtual		1		
16	LMS-DEV-DB2	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	4	4	3E+07	0.27	0.75	0.5	0.4	Virtual		0.5		
17	LMS-DEV-WEB1	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.75	0.5	0.4	Virtual		0.2		
18	LMS-DEV-WEB2	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.75	0.5	0.4	Virtual		0.7		
19	LMS-PROD-AD1	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.5	0.5	0.4	Virtual		0.2		
20	LMS-PROD-AD2	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.5	0.5	0.4	Virtual		0.7		
21	LMS-PROD-DB1	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	4	4	3E+07	0.27	0.75	0.5	0.4	Virtual		0.2		
22	LMS-PROD-DB2	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	4	4	3E+07	0.27	0.75	0.5	0.4	Virtual		0.7		
23	LMS-PROD-DB3	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	4	4	3E+07	0.27	0.75	0.5	0.4	Virtual		1		
24	LMS-PROD-DB4	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	4	4	3E+07	0.27	0.75	0.5	0.4	Virtual		0.5		
25	LMS-PROD-WEB1	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.5	0.5	0.4	Virtual		1		
26	LMS-PROD-WEB2	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.5	0.5	0.4	Virtual		0.5		
27	LMS-PROD-WEB3	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.5	0.5	0.4	Virtual		0.2		
28	LMS-PROD-WEB4	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.75	0.5	0.4	Virtual		0.7		
29	LMS-PROD-WEB5	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4E+06	0.27	0.75	0.5	0.4	Virtual		1		
30	LMS-PROD-WFR6	Microsoft Windows Server 2012 R2	6.2.92006.3 (Build 9600)	2	2	4F+06	0.27	0.75	0.5	0.4	Virtual		0.5		

Workshop Studio | MPA-demo-20240827 | Portfolio Assessment Tool | Console Home | Console Home

mpa.accelerate.amazonaws.com/portfolio/407df8f2-ddda-465d-a4f8-07be87ba707d/management/import-from-file

Paused

## aws Migration Portfolio Assessment

### Portfolio Assessment

All portfolios > MPA\_immersion\_day > Import file

#### Import portfolio data

Select data type

- Servers
- Applications
- Server to application
- Server communication
- Databases
- Database to application
- Application dependency

#### Servers

Upload local file

File can be in Excel or CSV format.

Sample files and template files available for download.

For more information on type of files and supported data attributes, please refer to [FAQ](#).

View All portfolios

Portfolio data

- Assets
- Dependencies
- Dashboards
- Properties

Import

- Import from file
- Import from ADS

Collect

- Contact management
- Data collection

TCO

- Summary
- Adjustments
- SQL Server optimization

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Paused

## aws Migration Portfolio Assessment

### Optional header mapping (61)

All

Expected schema	File header	Units of measurement
OS Version	OS Version 11.3 U4.1, 15, 16, 6.2.92006.3 (Build 9600), 8...	<input type="radio"/> Percentage (0.00 - 100.00) <input checked="" type="radio"/> Ratio (0.00 - 1.00)
CPU-Average Utilization (%)	CPU-Average Utilization (%) 0.27, 0.005, 0.2	<input type="radio"/> Percentage (0.00 - 100.00) <input checked="" type="radio"/> Ratio (0.00 - 1.00)
RAM-Average Utilization (%)	RAM-Average Utilization (%) 0.4, 0.04	<input type="radio"/> Percentage (0.00 - 100.00) <input checked="" type="radio"/> Ratio (0.00 - 1.00)
AWS - Instance Type	EC2 Instance Preferences	
AWS - Tenancy	Tenancy	
Hypervisor	Hypervisor NA, Vmware	
Server-Target Host Type	Server-Target Host Type	
Storage-Max Read IOPS Size (KB)	Storage-Max Read IOPS Size (KB) 500	<input type="radio"/> TB <input type="radio"/> GB <input type="radio"/> MB

Portfolio Assessment

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## aws Migration Portfolio Assessment



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Resources ▾

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MPA\_immersion\_day ▾

### Portfolio Assessment

[View All portfolios](#)

## Manage assets

Servers

Applications

Databases

Shared storage

Network

Mainframe

► We found 66 possible validation issues in your server data

Servers (56) [Info](#)

default ▾

View Mode ▾

Actions ▾

Edit

Calculate

Search

< 1 2 3 4 5 6 >

<input type="checkbox"/>	Server ID	OS Na...	OS Ver...	CPU-N...	CPU-Co...	RAM-Total Size (KB)	Average Utiliz...
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %
<input type="checkbox"/>	FREENAS-...	FreeNAS-1...	11.3 U4.1	2	2	16,777,216 KB	27.00 %

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mpa.accelerate.amazonaws.com/portfolio/407df8f2-ddda-465d-a4f8-07be87ba707d/management/dashboard

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## aws Migration Portfolio Assessment

### Portfolio Assessment

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#### Memory capacity (count)

Count of servers by total RAM, partitioned into ranges

Actions ▾

A horizontal bar chart titled "Memory capacity (count)" showing the count of servers by total RAM. The x-axis represents the count of servers, ranging from 0 to 20. The y-axis represents RAM ranges. The chart shows four categories: > 16 GiB (red bar), 8 GiB < RAM <= 16 GiB (green bar), 2 GiB < RAM <= 8 GiB (blue bar), and 1 GiB < RAM <= 2 GiB (orange bar). The blue bar is the longest, indicating the highest count in that range.

RAM Range	Count
> 16 GiB	~15
8 GiB < RAM <= 16 GiB	~10
2 GiB < RAM <= 8 GiB	~22
1 GiB < RAM <= 2 GiB	~3

#### Storage capacity (count)

Count of servers by total storage, partitioned into ranges

Actions ▾

A horizontal bar chart titled "Storage capacity (count)" showing the count of servers by total storage. The x-axis represents the count of servers, ranging from 0 to 20. The y-axis represents storage ranges. The chart shows three categories: > 100 GiB (green bar), <= 10 GiB (blue bar), and 10 GiB < Storage <= 100 GiB (orange bar). The orange bar is the longest, indicating the highest count in that range.

Storage Range	Count
> 100 GiB	~22
<= 10 GiB	~5
10 GiB < Storage <= 100 GiB	~22

#### Compute utilization (count)

Actions ▾

#### Server uptime (count)

Actions ▾

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AWS Migration Portfolio Assessment

Portfolio Assessment

View All portfolios

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Dashboards

Properties

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TCO

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SOL Server optimization

Compute utilization (count)

Count of servers by average CPU utilization, partitioned into ranges

Actions ▾

The chart displays the count of servers across five CPU utilization ranges. The x-axis represents the count from 0 to 40, and the y-axis represents the utilization ranges. The bars are stacked vertically for each range.

CPU Utilization Range	Count
<= 5%	~1
5% < Avg CPU utilization <= 60%	~35
60% < Uptime <= 70%	~13
70% < Uptime <= 80%	~14
80% < Uptime <= 90%	~14
> 90%	~2

Server uptime (count)

Count of servers by uptime, partitioned into ranges

Actions ▾

The chart displays the count of servers across five uptime ranges. The x-axis represents the count from 0 to 14, and the y-axis represents the uptime ranges. The bars are colored orange, blue, green, red, and purple respectively.

Uptime Range	Count
< 10%	~13
10% < Uptime <= 20%	~14
20% < Uptime <= 30%	~14
30% < Uptime <= 40%	~13
40% < Uptime <= 50%	~14
50% < Uptime <= 60%	~14
60% < Uptime <= 70%	~13
70% < Uptime <= 80%	~2
80% < Uptime <= 90%	~14
> 90%	~14

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AWS Migration Portfolio Assessment

Portfolio Assessment

All portfolios > MPA\_immersion\_day > TCO

Calculate Modify assumptions Actions ▾ Assessment 1 ▾

Total cost of ownership for 5 Years in US East (N. Virginia) Region \*

**\$926,020**

Your total estimated AWS cost (Peak utilization)\*\*  
\$15,434 Monthly average

**27%**

Estimated savings on AWS

**\$1,275,714**

Your total estimated On-Premises cost  
\$21,262 Monthly average

Download

Summary report

AWS vs. On-Premises cost total

Portfolio data

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**aws Migration Portfolio Assessment**

Portfolio Assessment

View All portfolios

Portfolio data

- Assets
- Dependencies
- Dashboards
- Properties

Import

- Import from file
- Import from ADS

Collect

- Contact management
- Data collection

TCO

- Summary
- Adjustments
- SQL Server optimization

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**Modify assumptions (default set)**

Please apply any changes before closing this modal or they will be lost!

You can save and load your assumptions. Saved assumptions are accessible across all your portfolios.

Only show assumptions relevant to the current page

**General**

- AWS server recommendation
- AWS server cost
- AWS database recommendation
- AWS database cost
- Database licenses
- VMware Cloud on AWS

**AWS storage**

**AWS network**

**AWS IT labor and support**

**On-Premises server cost**

**On-Premises discount/adjustment**

**On Premises power**

(AWS) Sign out MPA\_immersion\_day

Assessment 1 Download

275,714 Estimated On-Premises cost 62 Monthly average

Cancel Apply

Workshop Studio | MPA-demo-20240827 | Portfolio Assessment Tool

mpa.accelerate.amazonaws.com/portfolio/407df8f2-ddda-465d-a4f8-07be87ba707d/tco/1c18652e-4c98-4ae2-924a-99018e8f76cf/summary

Paused

aws Migration Portfolio Assessment

Portfolio Assessment

View All portfolios

Portfolio data

- Assets
- Dependencies
- Dashboards
- Properties

Import

- Import from file
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Collect

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TCO

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Modify assumptions (default set\*)

Please apply any changes before closing this modal or they will be lost!

You can save and load your assumptions. Saved assumptions are accessible across all your portfolios.

Only show assumptions relevant to the current page

**General**

AWS Region  
Select AWS Region based on customer location and preference.

Refreshment period (years)  
Average On-Premises infrastructure refreshment period.

Analysis duration (years)  
Duration of TCO analysis. For equivalency, the duration should be less than or equal to the refreshment period.

Environment type

▶ AWS server recommendation

▶ AWS server cost

Cancel Apply

(AWS) Sign out MPA\_immersion\_day

Assessment 1 Download

275,714

Estimated On-Premises cost  
62 Monthly average

Workshop Studio | MPA-demo-20240827 | Portfolio Assessment Tool

mpa.accelerate.amazonaws.com/portfolio/407df8f2-ddda-465d-a4f8-07be87ba707d/tco/1c18652e-4c98-4ae2-924a-99018e8f76cf/summary

AWS Migration Portfolio Assessment

Portfolio Assessment

All portfolios > MPA\_immersion\_day > TCO

Calculate Modify assumptions Actions Assessment 1

Total cost of ownership for 2 Years in US East (N. Virginia) Region \*

\$372,737 46% \$693,357

Your total estimated AWS cost (Peak utilization)\*\*  
\$15,531 Monthly average

Estimated savings on AWS

Your total estimated On-Premises cost  
\$28,890 Monthly average

Download

Summary report

AWS vs. On-Premises cost total

Import from file Import from ADS

Contact management Data collection

SUMMARY

Adjustments

SOL Server optimization

Feedback Resources Michael Lin (AWS) Sign out MPA\_immersion\_day

Paused

View All portfolios

Assets Dependencies Dashboards Properties

Import from file Import from ADS

Contact management Data collection

SUMMARY

Adjustments

SOL Server optimization

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Workshop Studio | MPA-demo-20240827 | Portfolio Assessment Tool

mpa.accelerate.amazonaws.com/portfolio/407df8f2-ddda-465d-a4f8-07be87ba707d/tco/1c18652e-4c98-4ae2-924a-99018e8f76cf/aws/server-recommend...

Paused

## aws Migration Portfolio Assessment

### Portfolio Assessment

View All portfolios

#### Portfolio data

- Assets
- Dependencies
- Dashboards
- Properties

#### Import

- Import from file
- Import from ADS

#### Collect

- Contact management
- Data collection

#### TCO

- Summary
- Adjustments
- SQL Server optimization

### EC2 instance types

#### Override EC2 recommendation

Recommendation type ▾ List of instance type Update 3 item(s)

#### EC2 instance type details (3/56)

Search 3 matches

Peak Utilization = t3a.micro X Clear filters

Server ID	Avg. Utilization	Peak Utilization	On-Premises Capacity	Overridden
OFBIZ-PROD-WEB	t3a.micro	t3a.micro	t3a.small	False
WORDPRESS-PROD-DB	t3a.micro	t3a.micro	t3a.small	False
WORDPRESS-PROD-WEB	t3a.micro	t3a.micro	t3a.small	False

\* The Total cost of ownership Calculator provides an estimate of usage charges for On-Premises/Colocation compared to equivalent AWS services based on the information you provide. AWS monthly charges will be based on your actual usage of AWS services, and may vary from the estimates the Calculator has provided.

\*\* Does not include the migration cost. AWS prices and MPA default values can change at any time, therefore results shown could change next time the

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Workshop Studio | MPA-demo-20240827 | Portfolio Assessment Tool

mpa.accelerate.amazonaws.com/portfolio/407df8f2-ddda-465d-a4f8-07be87ba707d/tco/1c18652e-4c98-4ae2-924a-99018e8f76cf/aws/server-recommend...

Paused

## aws Migration Portfolio Assessment

### Portfolio Assessment

View All portfolios

#### Portfolio data

- Assets
- Dependencies
- Dashboards
- Properties

#### Import

- Import from file
- Import from ADS

#### Collect

- Contact management
- Data collection

#### TCO

- Summary
- Adjustments
- SOL Server optimization

### Details

Instanc... vCPUs Memor... Operati... Pre-inst... Tenancy Recom... Count

EC2 instance types Dedicated Hosts

Override EC2 recommendation

Peak utilization  Update 0 item(s)

#### EC2 instance type details (56)

Search 3 matches

Peak Utilization = t3.medium Clear filters

	Server ID	Avg. Utilization	Peak Utilization	On-Premises Capacity	Overridden
<input type="checkbox"/>	OFBIZ-PROD-WEB	t3a.micro	t3.medium	t3a.small	True
<input type="checkbox"/>	WORDPRESS-PROD-DB	t3a.micro	t3.medium	t3a.small	True
<input type="checkbox"/>	WORDPRESS-PROD-WEB	t3a.micro	t3.medium	t3a.small	True

← → C ⌂ mpa.accelerate.amazonaws.com/portfolio/407df8f2-ddda-465d-a4f8-07be87ba707d/tco/1c18652e-4c98-4ae2-924a-99018e8f76cf/aws/database-costs ☆ | Download | T Paused

warn Migration Portfolio Assessment Feedback ▾ Resources ▾ Michael Lin (AWS) Sign out MPA\_immersion\_day ▾

Import from ADS

▼ Collect

- Contact management
- Data collection

▼ TCO

- Summary
- Adjustments
- SQL Server optimization
- Application cost summary
- Mainframe summary

▼ AWS

- EC2 recommendations
- RDS recommendations
- EC2 cost
- RDS cost**
- Storage and network cost
- IT labor and support cost

▼ On-Premises

- Server cost
- Database cost

All portfolios > MPA\_immersion\_day > TCO > AWS RDS costs

Calculate Modify assumptions Actions ▾ Assessment 1 ▾

## Total cost of ownership for 2 Years in US East (N. Virginia) Region \*

**\$373,440** Your total estimated AWS cost (Peak utilization)\*\*  
\$15,560 Monthly average

**46%** Estimated savings on AWS

**\$693,357** Your total estimated On-Premises cost  
\$28,890 Monthly average

**i This is a preview feature** You can toggle inclusion in TCO calculation of RDS recommendations under 'Assumptions > AWS database recommendation'. This has implications in all TCO aspects: if the toggle is Off, all servers are considered regular servers and database cost is not considered in AWS or On-Premises; if the toggle is On, RDS recommendations are determined, AWS and On-Premises database cost is calculated and the corresponding servers are accounted as database servers only, which reflects also in storage and IT labor costs for AWS and On-Premises.

Tell us what you think ▾ X

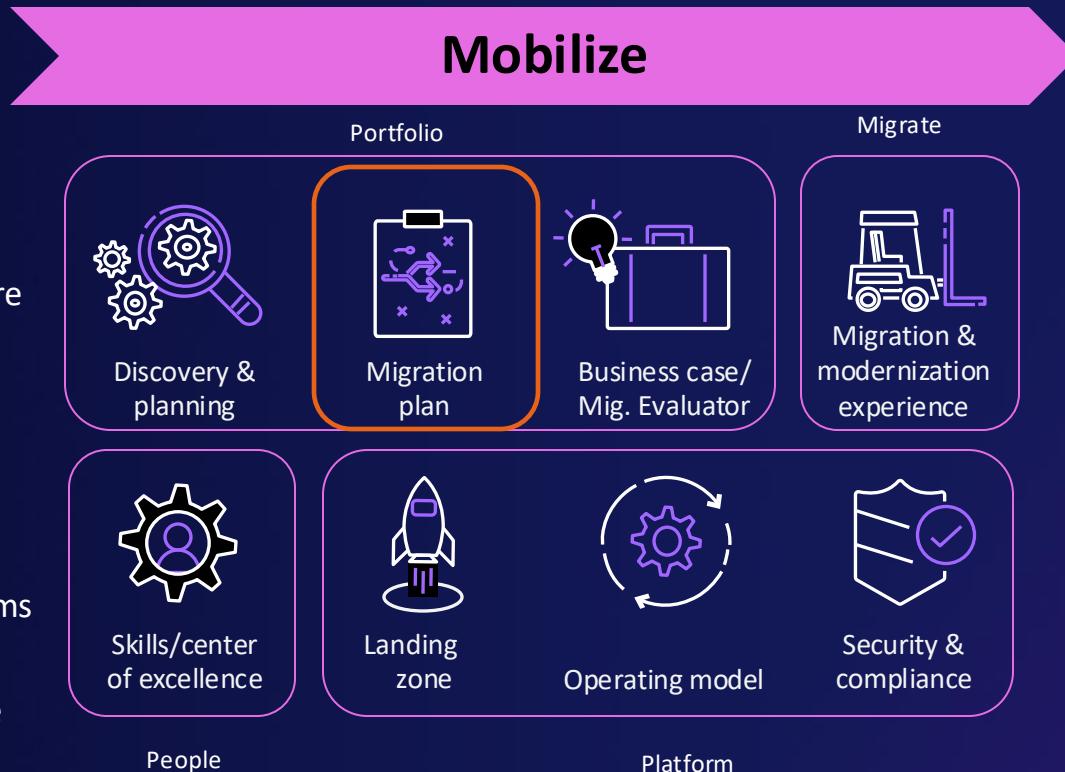
Privacy | Site terms | Cookie preferences | © 2008 - 2024 Amazon Web Services, Inc. or its affiliates. All rights reserved. vdevelopment Contact us https://mpa.accelerate.amazonaws.com/portfolio/407df8f2-ddda-465d-a4f8-07be87ba707d/tco/1c18652e-4c98-4ae2-924a-99018e8f76cf/aws/database-costs

Type here to search

# Mobilize Overview

## Goals

- Build or validate AWS foundational environment to support targeted workloads and future initiatives
- 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



## Outcomes

### Platform

- Landing Zone with security controls
- Adapted operational procedures

### Portfolio

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

### Migration

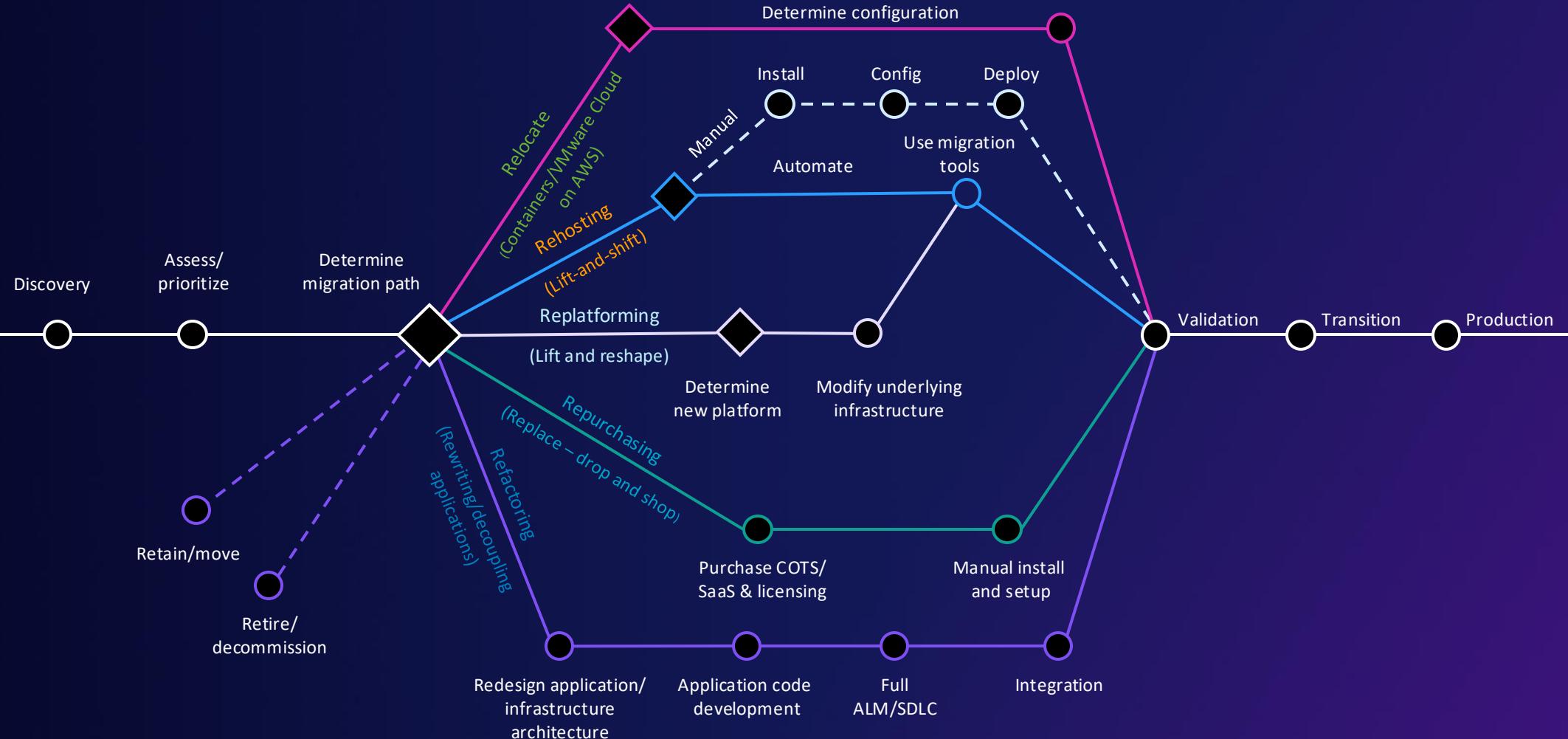
- 3-5 applications migrated to AWS
- Hands-on migration experience & patterns for use to scale migrations

### People

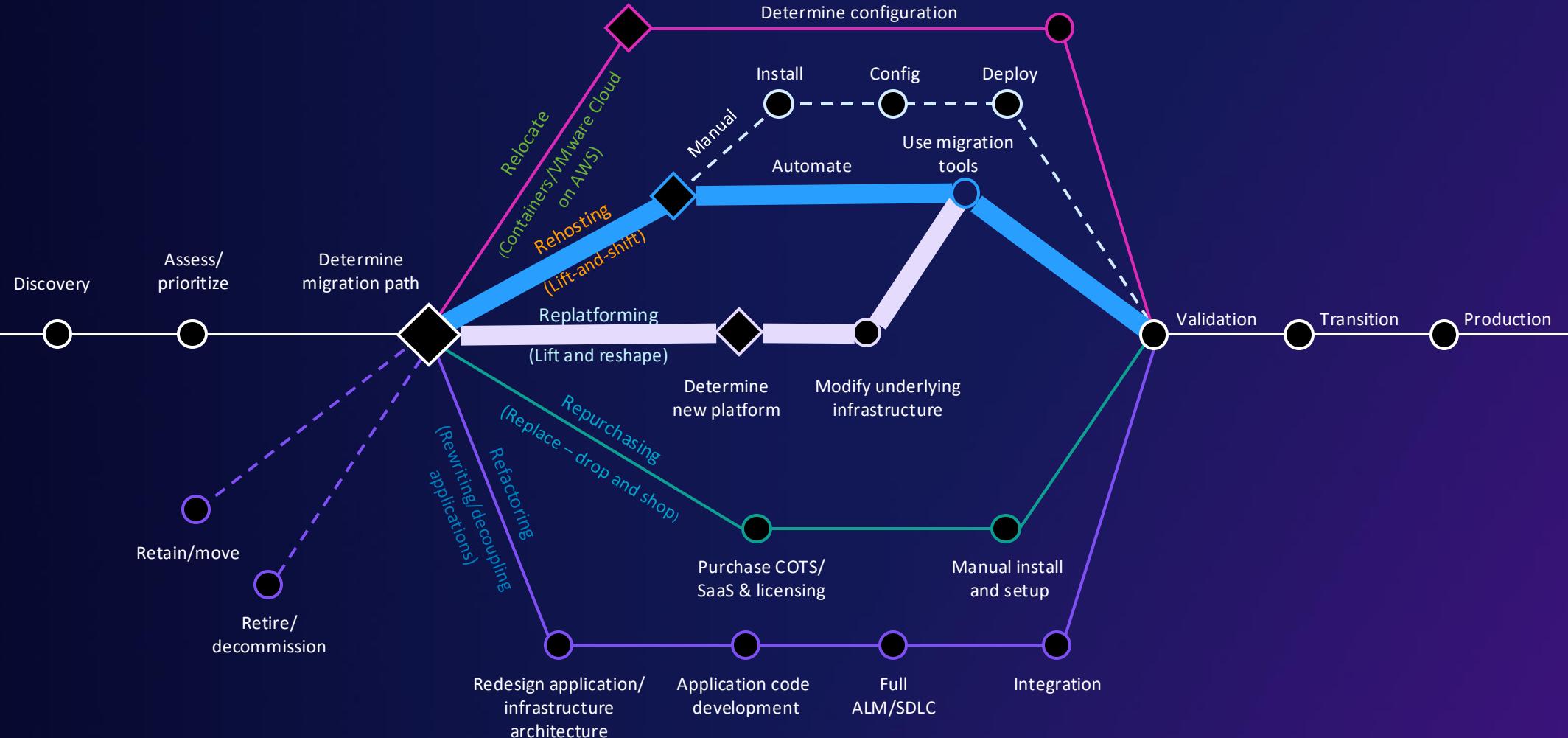
- CCoE structure, skills, & staffing
- Organization change management plan(s)

Enable readiness for a mass migration, modernization or greenfield

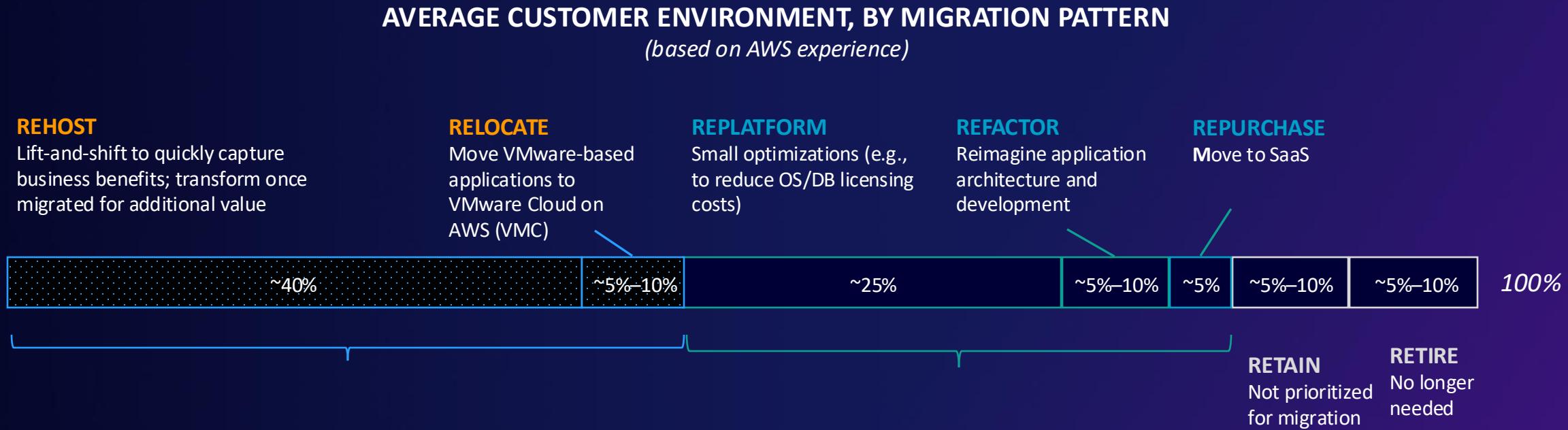
# Portfolio assessment will be continual



# Portfolio assessment will be continual



# Portfolio assessment will be continual

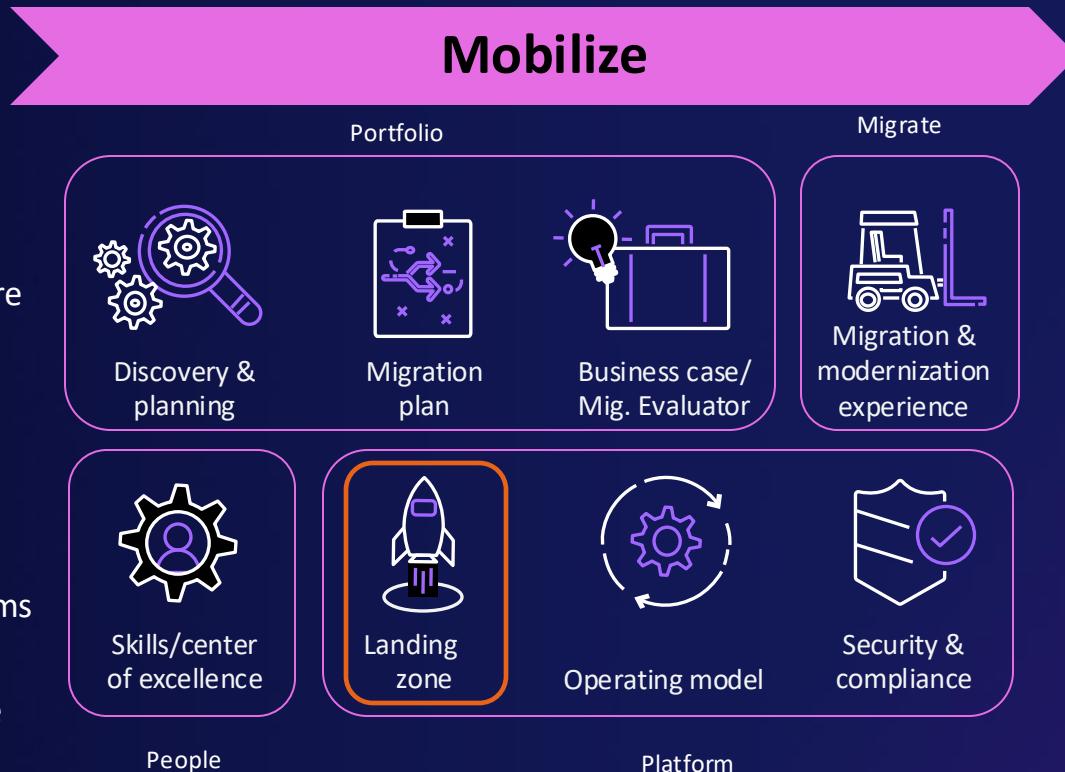


Full spectrum of patterns is important for transformation – but up to ~50% of typical environment can be *rapidly migrated*, freeing time and budget to focus on modernization

# Mobilize Overview

## Goals

- Build or validate AWS foundational environment to support targeted workloads and future initiatives
- Establish governance and security posture
- Scale enterprise operations to AWS
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### People

- CCoE structure, skills, & staffing
- Organization change management plan(s)

Enable readiness for a mass migration, modernization or greenfield

# Business agility and governance control



## Governance

---

- Security
- Compliance
- Operations
- Spend management

With AWS Control Tower, you don't have to choose between governance and agility

**You can have both**



## Agility

---

- Self-service access
- Experiment fast
- Respond quickly to change

# What is AWS Control Tower?

# AWS Control Tower

AWS Config

AWS  
Organizations

AWS IAM  
Identity  
Center

AWS Key  
Management  
Service

AWS Service  
Catalog

AWS Security  
Hub

AWS  
CloudTrail

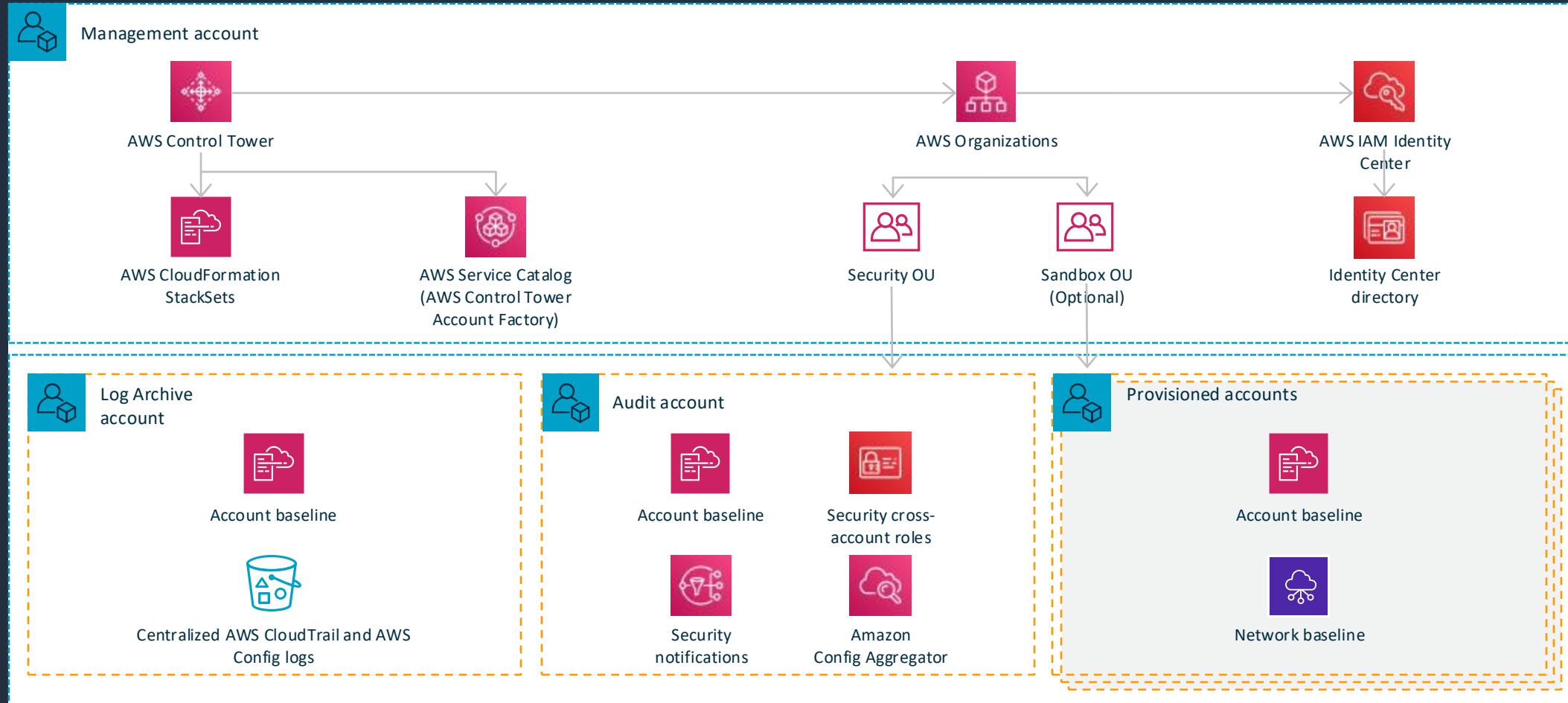


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# AWS Control Tower - Benefits

-  Automated landing zone with best practice blueprints
-  AWS best practice controls for policy management
-  Account factory for account provisioning
-  Dashboard for visibility and actions
-  Built-in identity and access management (IAM)
-  Preconfigured log archive and audit access to accounts
-  Built-in monitoring and notifications
-  Extensible with third-party ISV solutions available via AWS Marketplace

# Architecture Overview



# Dashboard for oversight

AWS Control Tower > Dashboard

▼ Recommended actions



[Programmatically manage controls with APIs](#)  
AWS Control Tower customers can manage controls programmatically across their organization, at scale.



[Add or register organizational units](#)  
Add or register organizational units (OUs) to organize accounts and projects.



[Enable more controls](#)  
Enable additional controls to meet your security, operational, and compliance requirements.



[Review users and access](#)  
Review your user identity store and single sign-on access for your users across accounts.



[Review shared accounts](#)  
Review the settings of the shared accounts that AWS Control Tower has set up for you.

**Environment summary**

4	3
Organizational units	Accounts

**Enabled control summary**

21	3	0
Preventive controls	Detective controls	Proactive controls

**Noncompliant resources**

Resource ID	Resource type	Service	Region	Account name	Organizational unit	Control
No noncompliant resources found No noncompliant resources detected on controls with a Clear status.						

**Registered organizational units**

Name	Parent organizational unit	State	Compliance
Root	-	Registered	Compliant
Sandbox	Root	Registered	Compliant
Security	Root	Registered	Compliant
Workload	Root	Registered	Compliant



# Automatically setup Identity Center

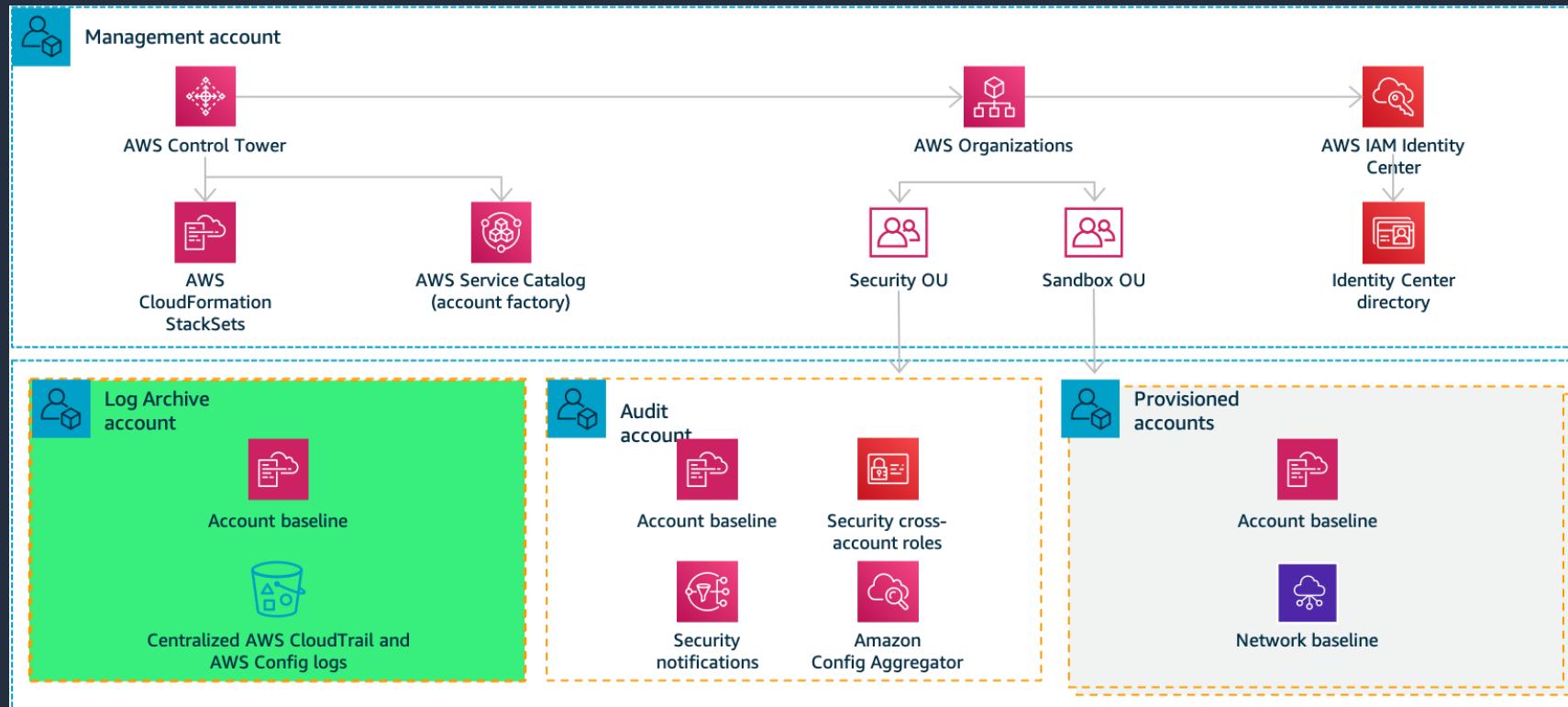


- AWS IAM Identity Center provides default directory for identity
- AWS IAM Identity Center also allows federated access management across all accounts in your organization
- Preconfigured groups (such as AWS Control Tower administrators, auditors and AWS Service Catalog end users)
- Preconfigured permission sets (e.g., admin, read-only, write)
- AWS IAM Identity Center integrates with third-party IDP (Microsoft Azure AD, Ping, Okta)

# Log Archive Account

A dedicated account for securely storing logs for archiving and forensic activities.

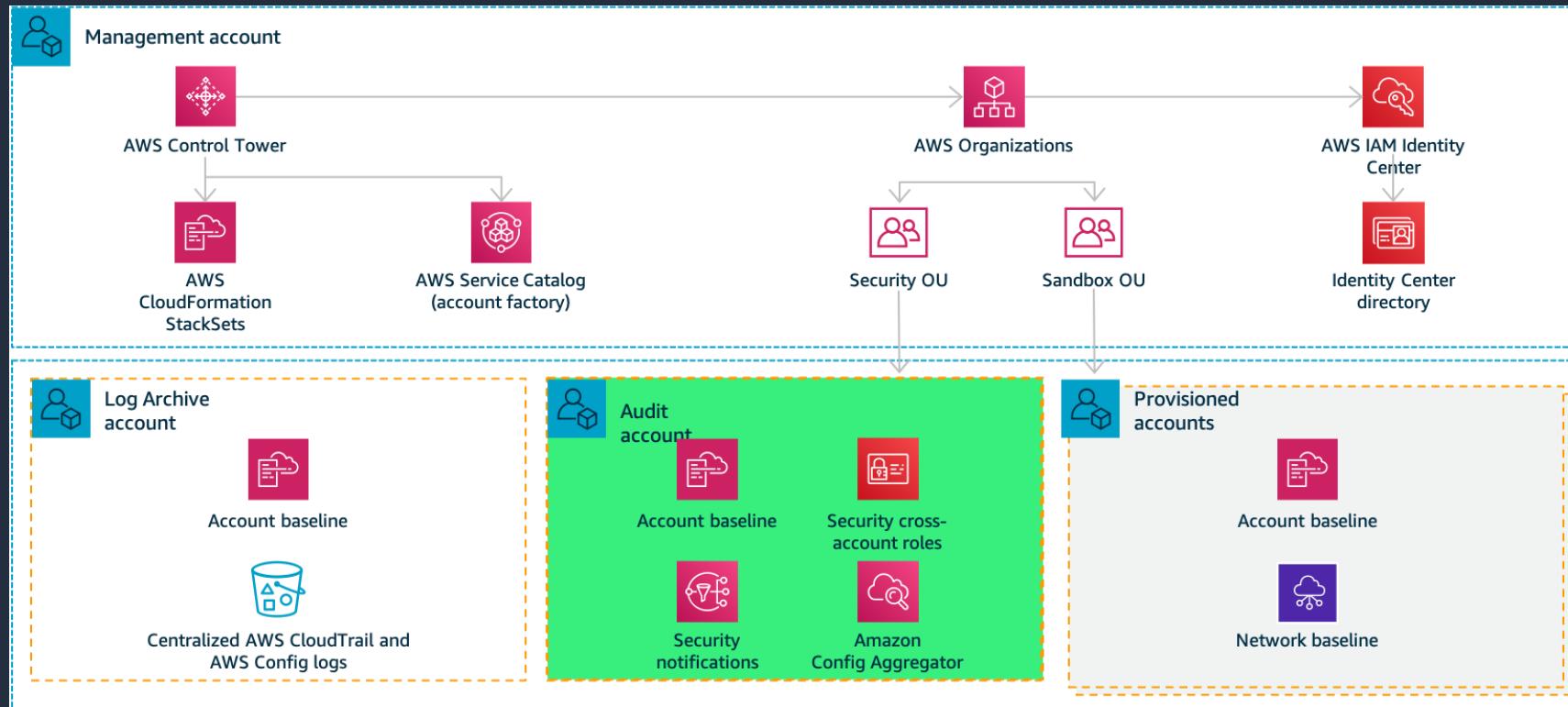
- **Account baseline** – provides customers with a centralized location for log storage
- **Aggregate CloudTrail and Config Logs** – account configuration log files are stored in a centrally managed Amazon S3 bucket in the logging account



# Audit Account

A core security account is created to facilitate:

- **Security notifications** - configures alarms to monitor and send notifications on changes within an account
- **Security Cross-Account roles** – break-glass access to managed accounts



# Types of Security Controls

**Detective controls** detect resources *after provisioning* that violate your defined security policies. When combined with automated remediations, they are referred to as remediative controls.

**Preventive controls** *disallow* actions that would lead to violations of your security policies.

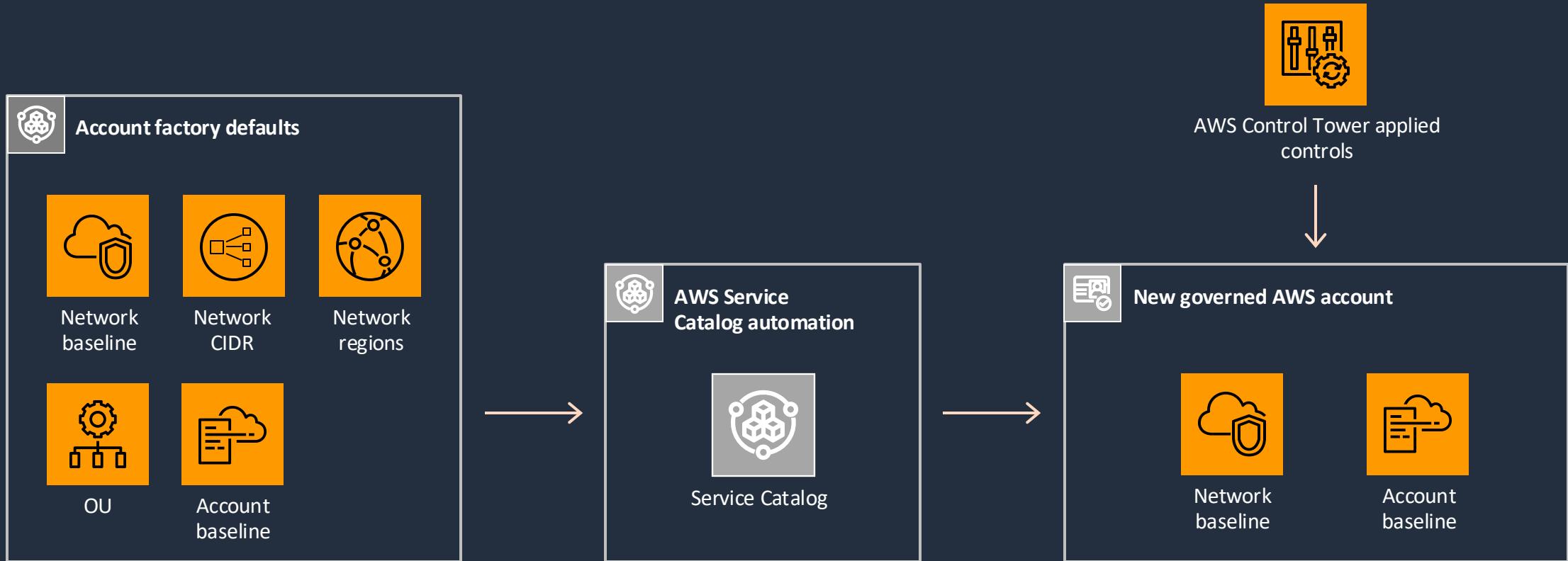
**Proactive controls** scan resources *before* they are provisioned, ensuring the resources are compliant with security policies and blocking provisioning if they do.

# Control Examples

Control Name	Behavior	Requirement
Enable MFA for the Root User	Detective	Strongly Recommended
Disallow public read access to S3	Detective	Strongly Recommended
Enable AWS Config in All Available Regions	Preventive	Mandatory
Disallow Policy Changes to Log Archive	Preventive	Mandatory
Integrate CloudTrail Events with CloudWatch Logs	Preventive	Mandatory
Disallow Amazon S3 Buckets That Are Not Versioning Enabled	Detective	Elective
Disallow Delete Actions on Amazon S3 Buckets Without MFA	Detective	Elective
Require an Amazon S3 bucket to have server-side encryption configured with KMS key	Proactive	Elective



# Provision Accounts with Account Factory

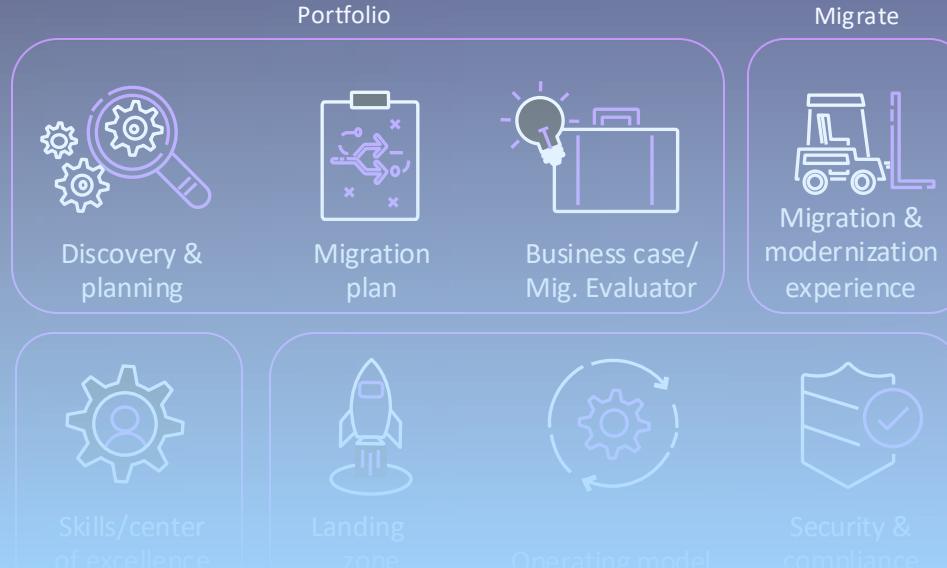


# Migrate & Modernize Phase

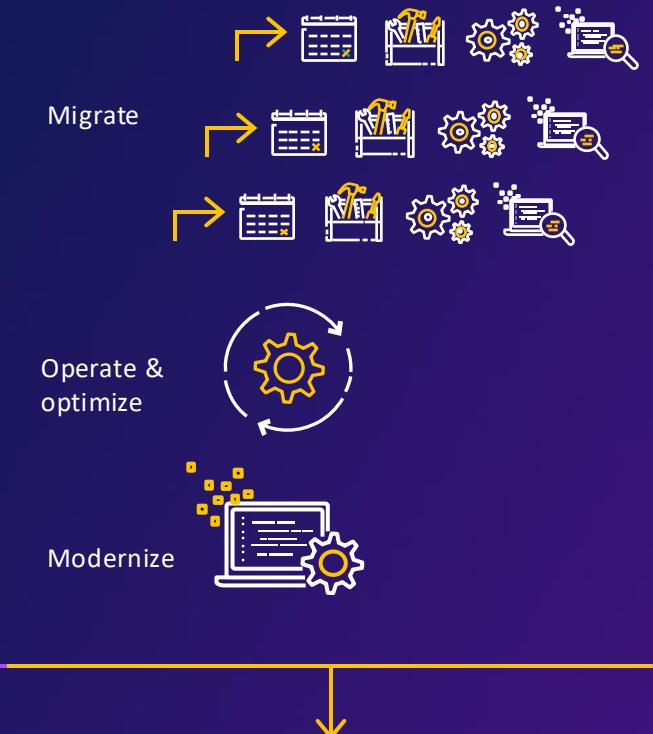
Assess



Mobilize



Migrate & Modernize

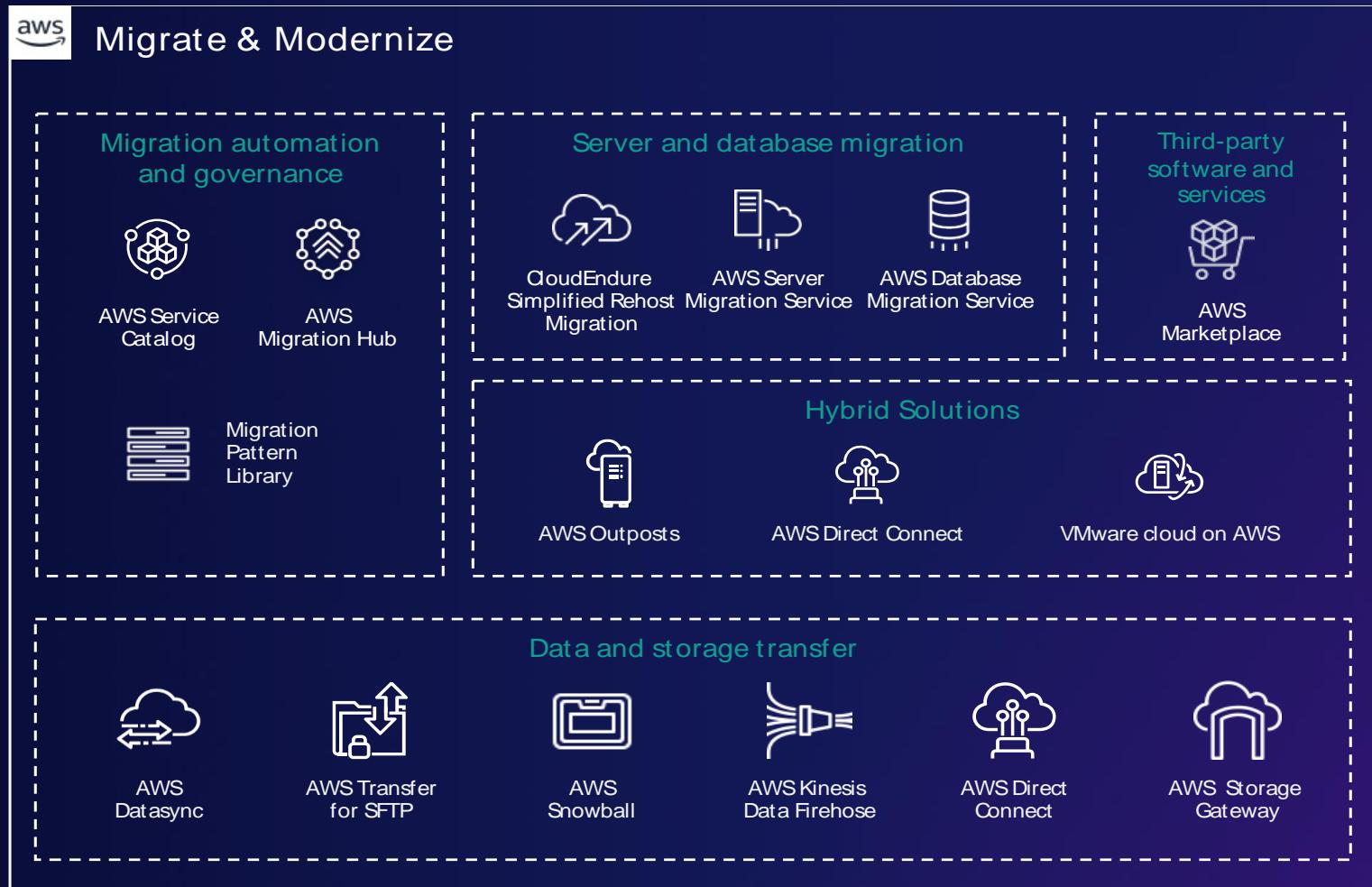


Accelerate transformation at scale

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



# Tools to accelerate your migration



# AWS Application Migration Service (MGN)

## Flexible



Migrate from any source



Wide range of OS, application, and database support



Suitable for large-scale migrations

## Reliable



Robust, predictable, non-disruptive continuous replication



Short cutover windows with minimal downtime



Highly secure

## Ease of use



Minimal skill set required to operate



Easy, non-disruptive tests prior to cutover

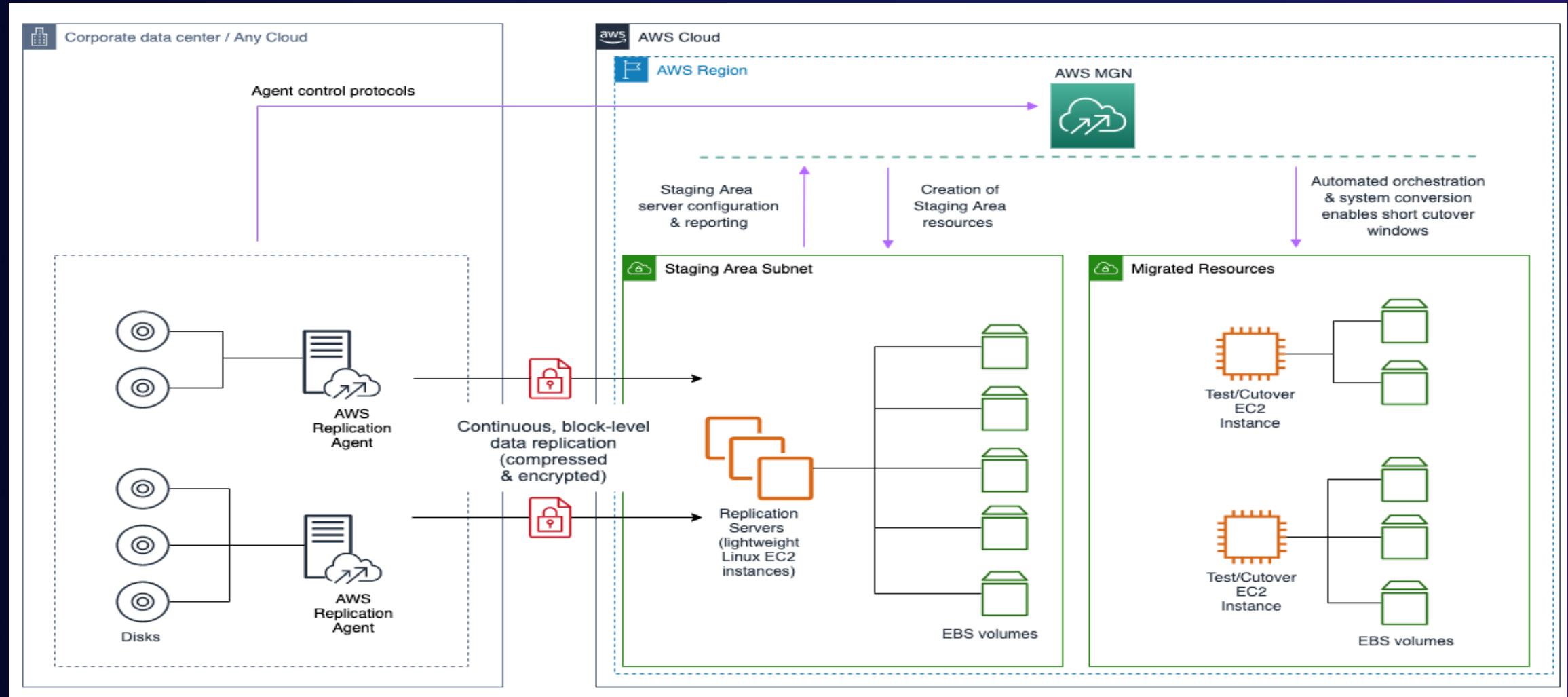


Easily plugs into migration factories and cloud COEs

**Free for 90 days** from the installation of the agent on the source machine.

Charged per hour after that period for active replications.

# How AWS Application Migration Service Works



# Wide Platform Support\*

Any Application



Any Database



x86 Operating Systems



Source Infrastructure



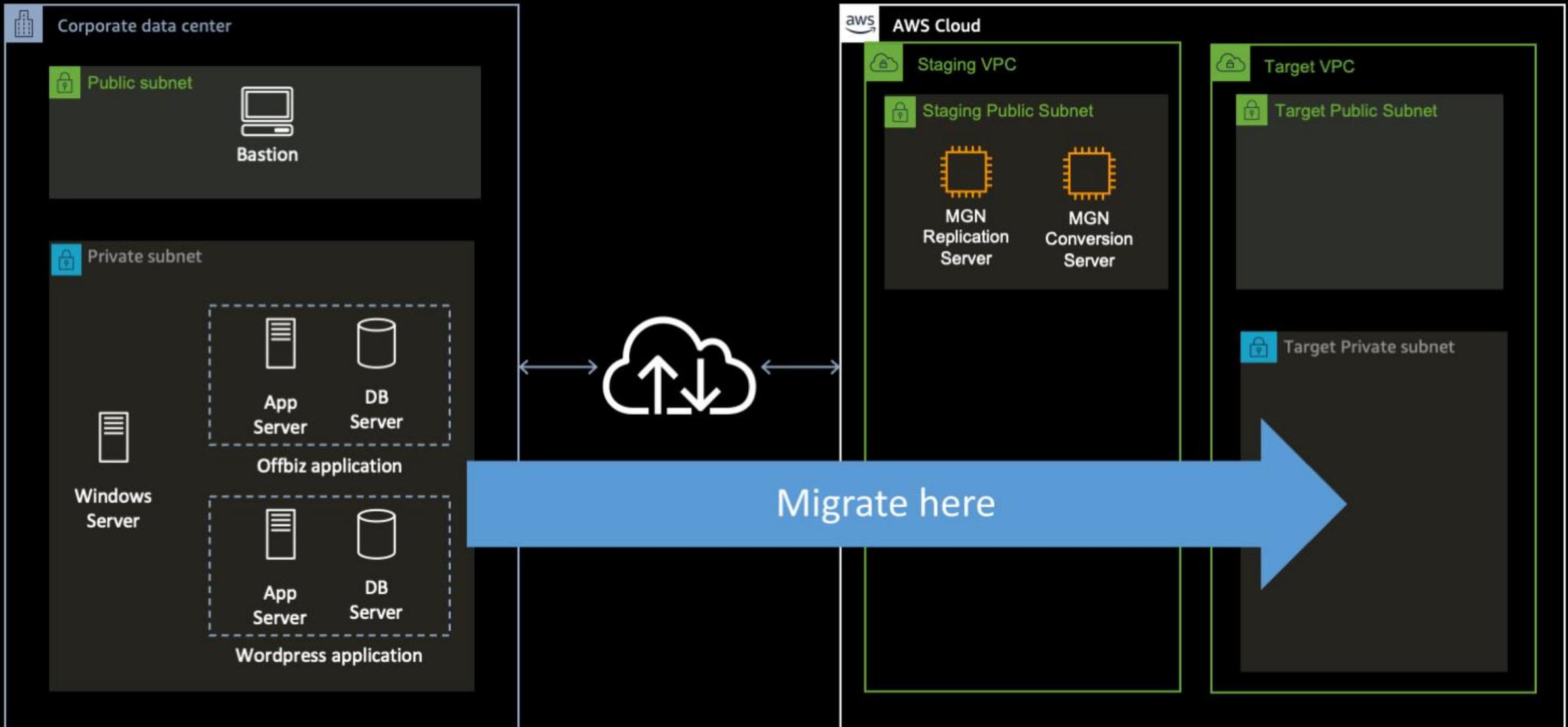
\* See documentation or contact Support for a complete list.

# MGN Lab



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# Lab architecture reference



MGN-Dryrun-20240731

Set up Application Migration Service

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/setup

Services

Search [Option+S]

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Oregon WSParticipantRole/Participant @ 7246-2824-4583

Application Migration Service > Set up Application Migration Service

## Set up Application Migration Service

### Service initialization

In order to use Application Migration Service in this region, the service must first be initialized by an Admin user of the AWS account. Once the service is initialized, you can modify the default service templates on the Settings page.

By continuing, you are allowing application Migration Service to create all the IAM roles required to facilitate data replication and the launching of migrated servers. [Learn more](#)

[View roles](#)

[Cancel](#) [Set up service](#)





Recycle Bin



Google Chrome



Architecture



EC2 Feedback



EC2 Micros...



Microsoft Remote...



Putty

```
[user@ofbiz-db ~]$ sudo chmod +x aws-replication-installer-init; sudo ./aws-replication-installer-init --region us-west-2 --aws-access-key-id AKIA2RNZVRBTX4KFT7Y5 --aws-secret-access-key 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 --no-prompt
The installation of the AWS Replication Agent has started.
Identifying volumes for replication.
Identified volume for replication: /dev/nvme0n1 of size 8 GiB
All volumes for replication were successfully identified.
Downloading the AWS Replication Agent onto the source server...
Finished.
Installing the AWS Replication Agent onto the source server...
Finished.
Syncing the source server with the Application Migration Service Console...
Finished.
The following is the source server ID: s-5a9dale497fb920ac.
You now have 1 active source server out of a total quota of 150.
Learn more about increasing source servers limit at https://docs.aws.amazon.com/mgn/latest/ug/MGN-service-limits.html
The AWS Replication Agent was successfully installed.
[user@ofbiz-db ~]$ ]
```

```
[user@ofbiz-web ~]$ sudo chmod +x aws-replication-installer-init; sudo ./aws-replication-installer-init --region us-west-2 --aws-access-key-id AKIA2RNZVRBTX4KFT7Y5 --aws-secret-access-key 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 --no-prompt
The installation of the AWS Replication Agent has started.
Identifying volumes for replication.
Identified volume for replication: /dev/nvme0n1 of size 8 GiB
All volumes for replication were successfully identified.
Downloading the AWS Replication Agent onto the source server...
Finished.
Installing the AWS Replication Agent onto the source server...
Finished.
Syncing the source server with the Application Migration Service Console...
Finished.
The following is the source server ID: s-5lf82lb27b5ed640d.
You now have 3 active source servers out of a total quota of 150.
Learn more about increasing source servers limit at https://docs.aws.amazon.com/mgn/latest/ug/MGN-service-limits.html
The AWS Replication Agent was successfully installed.
[user@ofbiz-web ~]$ ]
```

```
[user@wordpress-db ~]$ sudo chmod +x aws-replication-installer-init; sudo ./aws-replication-installer-init --region us-west-2 --aws-access-key-id AKIA2RNZVRBTX4KFT7Y5 --aws-secret-access-key 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 --no-prompt
The installation of the AWS Replication Agent has started.
Identifying volumes for replication.
Identified volume for replication: /dev/nvme0n1 of size 8 GiB
All volumes for replication were successfully identified.
Downloading the AWS Replication Agent onto the source server...
Finished.
Installing the AWS Replication Agent onto the source server...
Finished.
Syncing the source server with the Application Migration Service Console...
Finished.
The following is the source server ID: s-517e54da857180121.
You now have 4 active source servers out of a total quota of 150.
Learn more about increasing source servers limit at https://docs.aws.amazon.com/mgn/latest/ug/MGN-service-limits.html
The AWS Replication Agent was successfully installed.
[user@wordpress-db ~]$ ]
```

```
[user@wordpress-web ~]$ sudo chmod +x aws-replication-installer-init; sudo ./aws-replication-installer-init --region us-west-2 --aws-access-key-id AKIA2RNZVRBTX4KFT7Y5 --aws-secret-access-key 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 --no-prompt
The installation of the AWS Replication Agent has started.
Identifying volumes for replication.
Identified volume for replication: /dev/nvme0n1 of size 8 GiB
All volumes for replication were successfully identified.
Downloading the AWS Replication Agent onto the source server...
Finished.
Installing the AWS Replication Agent onto the source server...
Finished.
Syncing the source server with the Application Migration Service Console...
Finished.
The following is the source server ID: s-59d27b072aa7f4269.
You now have 2 active source servers out of a total quota of 150.
Learn more about increasing source servers limit at https://docs.aws.amazon.com/mgn/latest/ug/MGN-service-limits.html
The AWS Replication Agent was successfully installed.
[user@wordpress-web ~]$ ]
```

MGN-Dryrun-20240731

Active source servers | AWS

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/sourceServers

AWS Services Search [Option+S]

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Oregon WSParticipantRole/Participant @ 7246-2824-4583

### Application Migration Service

#### Servers

##### Source servers

Applications Waves Global view Launch history MGN connectors

Import and Export

Import Export

Settings

Replication template Launch template Post-launch template User preferences

AWS Migration Hub Documentation

#### Source servers (4)

Actions Replication Test and cutover Add server

Active source servers Filter source servers by property or value

	Source server name	Alerts	Migration lifecycle	Data replication status	Last snapshot	Next step
<input type="checkbox"/>	<a href="#">ofbiz-db.onpremsim.env</a>	-	Not ready	Initiating	-	Wait for initial s
<input type="checkbox"/>	<a href="#">ofbiz-web.onpremsim.env</a>	-	Not ready	Initiating	-	Wait for initial s
<input type="checkbox"/>	<a href="#">wordpress-db.onpremsim.env</a>	-	Not ready	Initiating	-	Wait for initial s
<input type="checkbox"/>	<a href="#">wordpress-web.onpremsim.env</a>	-	Not ready	Initiating	-	Wait for initial s

Healthy 4 servers, 100% Initiating 4 servers, 100% Not ready 4 servers, 100%

Information icons (i, h, ?) are visible on the right side of the page.

MGN-Dryrun-20240731

Active source servers | AWS

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/sourceServers

AWS Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 7246-2824-4583

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

Application Migration Service

Servers

Source servers

Applications

Waves

Global view

Launch history

MGN connectors

Import and Export

Import

Export

Settings

Replication template

Launch template

Post-launch template

User preferences

AWS Migration Hub

Documentation

Testing

- Launch test instances (highlighted)
- Mark as "Ready for cutover"
- Revert to "Ready for testing"

Cutover

- Launch cutover instances
- Finalize cutover
- Revert to "Ready for cutover"

Other

- Edit Launch Settings
- Edit post-launch settings
- Terminate launched instances

Test and cutover ▲ Add server

Source servers (4)

Actions ▾ Replication ▾ Test and cutover ▲ Add server

Active source servers Filter source servers by property or value

Source server name	Alerts	Migration lifecycle	Data replication status	Last snapshot	Next step
ofbiz-db.onpremsim.env	-	Ready for testing	Healthy	4 minutes ago	Launch test insta
ofbiz-web.onpremsim.env	-	Ready for testing	Healthy	3 minutes ago	Launch test insta
wordpress-db.onpremsim.env	-	Ready for testing	Healthy	3 minutes ago	Launch test insta
wordpress-web.onpremsim.env	-	Ready for testing	Healthy	3 minutes ago	Launch test insta

Healthy  
4 servers, 100%

Healthy  
4 servers, 100%

Red arrow points to the "Launch test instances" option in the context menu.

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-58533e1978692f1bf

aws Services Search [Option+S] | Oregon | WSParticipantRole/Participant @ 7246-2824-4583

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

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### Job log (21) Info

Filter job log by property or value

< 1 2 3 >

Time	Event	Additional data
August 01, 2024 at 01:49 (UTC+8:00)	Job started	
August 01, 2024 at 01:49 (UTC+8:00)	Started taking snapshot	Source server : <a href="#">s-5a9da1e497fb920ac</a>
August 01, 2024 at 01:49 (UTC+8:00)	Started taking snapshot	Source server : <a href="#">s-59d27b072aa7f4269</a>
August 01, 2024 at 01:49 (UTC+8:00)	Started taking snapshot	Source server : <a href="#">s-51f821b27b5ed640d</a>
August 01, 2024 at 01:49 (UTC+8:00)	Started taking snapshot	Source server : <a href="#">s-517e54da857180121</a>
August 01, 2024 at 01:50 (UTC+8:00)	Finished taking snapshot	Source server : <a href="#">s-5a9da1e497fb920ac</a>
August 01, 2024 at 01:50 (UTC+8:00)	Finished taking snapshot	Source server : <a href="#">s-59d27b072aa7f4269</a>

MGN-Dryrun-20240731

Job details | AWS Application

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-58533e1978692f1bf

Services Search [Option+S]

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

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#### Job log (21) Info

Filter job log by property or value

Time	Event	Additional data
August 01, 2024 at 01:50 (UTC+8:00)	Finished taking snapshot	Source server : <a href="#">s-51f821b27b5ed640d</a>
August 01, 2024 at 01:50 (UTC+8:00)	Finished taking snapshot	Source server : <a href="#">s-517e54da857180121</a>
August 01, 2024 at 01:50 (UTC+8:00)	Conversion started	Source server : <a href="#">s-5a9da1e497fb920ac</a>
August 01, 2024 at 01:50 (UTC+8:00)	Conversion started	Source server : <a href="#">s-59d27b072aa7f4269</a>
August 01, 2024 at 01:50 (UTC+8:00)	Conversion started	Source server : <a href="#">s-51f821b27b5ed640d</a>
August 01, 2024 at 01:50 (UTC+8:00)	Conversion started	Source server : <a href="#">s-517e54da857180121</a>
August 01, 2024 at 01:55 (UTC+8:00)	Conversion succeeded	Source server : <a href="#">s-517e54da857180121</a> Conversion Server instance ID: i-092e4904123a41a7c

< 1 2

MGN-Dryrun-20240731 Job details | AWS Application

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-58533e1978692f1bf

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 7246-2824-4583

EC2 VPC RDS S3 Support Amazon SageMaker AWS DeepRacer CloudFormation

## Application Migration Service

### Job log (21) Info

Filter job log by property or value

< 1 2 3 

Time	Event	Additional data
August 01, 2024 at 01:55 (UTC+8:00)	Conversion succeeded	Source server : <a href="#">ofbiz-db.onpremsim.env</a> Conversion Server instance ID: i-0de2eea28bff5dd49
August 01, 2024 at 01:55 (UTC+8:00)	Conversion succeeded	Source server : <a href="#">wordpress-web.onpremsim.env</a> Conversion Server instance ID: i-0828842f65c859676
August 01, 2024 at 01:56 (UTC+8:00)	Conversion succeeded	Source server : <a href="#">ofbiz-web.onpremsim.env</a> Conversion Server instance ID: i-036c77c4261cdbac
August 01, 2024 at 01:56 (UTC+8:00)	Started launching test/ cutover EC2 instance	Source server : <a href="#">ofbiz-db.onpremsim.env</a>
August 01, 2024 at 01:56 (UTC+8:00)	Started launching test/ cutover EC2 instance	Source server : <a href="#">wordpress-web.onpremsim.env</a>
August 01, 2024 at 01:56 (UTC+8:00)	Started launching test/ cutover EC2 instance	Source server : <a href="#">ofbiz-web.onpremsim.env</a>

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MGN-Dryrun-20240731 Job details | AWS Application

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-58533e1978692f1bf

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 7246-2824-4583

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### Job log (26) Info

Filter job log by property or value

Time	Event	Additional data
August 01, 2024 at 02:01 (UTC+8:00)	Successfully launched test/ cutover EC2 instance	Source server : <a href="#">ofbiz-web.onpremsim.env</a> Test/ cutover instance ID: i-0240cf90f405878dc
August 01, 2024 at 02:01 (UTC+8:00)	Successfully launched test/ cutover EC2 instance	Source server : <a href="#">ofbiz-db.onpremsim.env</a> Test/ cutover instance ID: i-05dea0a1ede9eb4fc
August 01, 2024 at 02:01 (UTC+8:00)	Successfully launched test/ cutover EC2 instance	Source server : <a href="#">wordpress-web.onpremsim.env</a> Test/ cutover instance ID: i-03866048fb231455f
August 01, 2024 at 02:01 (UTC+8:00)	Successfully launched test/ cutover EC2 instance	Source server : <a href="#">wordpress-db.onpremsim.env</a> Test/ cutover instance ID: i-0840418d56da2b42f
August 01, 2024 at 02:01 (UTC+8:00)	Job ended	

← 1 2 3 4 →

### Source servers (4)

Session ID: Participant-  
7vzxlwhgoauh2g7sjtysaa5vhm

Instance ID: i-08ab97dad7aceaa9f

Terminate

```
sh-4.2$ whoami ←  
ssm-user  
sh-4.2$ sudo su -  
Last login: Thu Aug  1 10:28:37 UTC 2024 on pts/1  
[root@wordpress-db ~]# ifconfig ←  
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001  
    inet 10.0.1.135 netmask 255.255.255.0 broadcast 10.0.1.255  
        inet6 fe80::60:ecff:fe99:ba2b prefixlen 64 scopeid 0x20<link>  
    ether 02:60:ec:99:ba:2b txqueuelen 1000 (Ethernet)  
        RX packets 2317 bytes 548463 (535.6 KiB)  
        RX errors 0 dropped 0 overruns 0 frame 0  
        TX packets 2214 bytes 363452 (354.9 KiB)  
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536  
    inet 127.0.0.1 netmask 255.0.0.0  
        inet6 ::1 prefixlen 128 scopeid 0x10<host>  
    loop txqueuelen 1000 (Local Loopback)  
        RX packets 70 bytes 6048 (5.9 KiB)  
        RX errors 0 dropped 0 overruns 0 frame 0  
        TX packets 70 bytes 6048 (5.9 KiB)  
        TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0  
  
[root@wordpress-db ~]# netstat -tnlp ←  
Active Internet connections (only servers)  
Proto Recv-Q Send-Q Local Address          Foreign Address        State      PID/Program name  
tcp        0      0 0.0.0.0:3306            0.0.0.0:*          LISTEN     1239/mysqld  
tcp        0      0 0.0.0.0:111           0.0.0.0:*          LISTEN     519/rpcbind  
tcp        0      0 0.0.0.0:22            0.0.0.0:*          LISTEN     782/sshd  
tcp        0      0 127.0.0.1:25          0.0.0.0:*          LISTEN     1328/master  
tcp6       0      0 ::1:111              ::*:             LISTEN     519/rpcbind  
tcp6       0      0 ::22                ::*:             LISTEN     782/sshd  
tcp6       0      0 ::1:25              ::*:             LISTEN     1328/master  
[root@wordpress-db ~]# █
```

MGN-Dryrun-20240731

Active source servers | AWS

Instances | EC2 | us-west-2

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/sourceServers

AWS Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 2140-4335-9993

Application Migration Service

Launch job mgnjob-5538d267fe48cdf4d created  
Starting to launch test instances for 4 servers.

View job details

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Application Migration Service > Active source servers

Show 'How it works' Show 'Migration metrics'

Source servers (4)

Actions ▾ Replication ▾ Test and cutover ▾ Add server

Active source servers Filter source servers by property or value

Source server name	Alerts	Migration lifecycle	Data replication
ofbiz-db.onpremsim.env	Launched	Test in progress	Healthy
ofbiz-web.onpremsim.env	Launched	Test in progress	Healthy
wordpress-db.onpremsim.env	Launched	Test in progress	Healthy
wordpress-web.onpremsim.env	Launched	Test in progress	Healthy

This account is currently replicating 4 servers out of a quota of 150 concurrent replicating servers. [Learn more](#)

Testing

Launch test instances

Mark as "Ready for cutover" (highlighted)

Revert to "Ready for testing"

Cutover

Launch cutover instances

Finalize cutover

Revert to "Ready for cutover"

Other

Edit Launch Settings

Edit post-launch settings

Terminate launched instances

The screenshot shows the AWS Application Migration Service console with a migration job named 'mgnjob-5538d267fe48cdf4d' in progress. The 'Test and cutover' button in the header has a context menu open, with the 'Mark as "Ready for cutover"' option highlighted in blue and a red arrow pointing to it. The menu also includes other options like 'Launch test instances', 'Revert to "Ready for testing"', 'Launch cutover instances', 'Finalize cutover', 'Revert to "Ready for cutover"', 'Edit Launch Settings', 'Edit post-launch settings', and 'Terminate launched instances'.



PuTTY (inactive)

2024-08-01 09:05:20 (43.6 MB/s) - './aws-replication-installer-init' saved [1152 6456/11526456]

```
[user@ofbiz-db ~]$ sudo chmod +x aws-replication-installer-init; sudo ./aws-replication-installer-init --region us-west-2 --aws-access-key-id AKIATDVP2PL43TWSRJSC --aws-secret-access-key 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 --no-prompt
The installation of the AWS Replication Agent has started.
```

Identifying volumes for replication.

Identified volume for replication: /dev/nvme0nl of size 8 GiB

All volumes for replication were successfully identified.

Downloading the AWS Replication Agent onto the source server...

Finished.

Installing the AWS Replication Agent onto the source server...

Finished.

Syncing the source server with the Application Migration Service Console...

Finished.

The following is the source server ID: s-590b360526217486d.

You now have 3 active source servers out of a total quota of 150.

Learn more about increasing source servers limit at <https://docs.aws.amazon.com/>

/mgn/latest/ug/MGN-service-limits.html

The AWS Replication Agent was successfully installed.

[user@ofbiz-web ~]\$ sudo shutdown -h now

PuTTY (inactive)

2024-08-01 09:05:21 (123 MB/s) - './aws-replication-installer-init' saved [1152 456/11526456]

```
[user@wordpress-db ~]$ sudo chmod +x aws-replication-installer-init; sudo ./aws-replication-installer-init --region us-west-2 --aws-access-key-id AKIATDVP2PL43TWSRJSC --aws-secret-access-key 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 --no-prompt
The installation of the AWS Replication Agent has started.
```

Identifying volumes for replication.

Identified volume for replication: /dev/nvme0nl of size 8 GiB

All volumes for replication were successfully identified.

Downloading the AWS Replication Agent onto the source server...

Finished.

Installing the AWS Replication Agent onto the source server...

Finished.

Syncing the source server with the Application Migration Service Console...

Finished.

The following is the source server ID: s-5522bfb51dde5606d.

You now have 1 active source server out of a total quota of 150.

Learn more about increasing source servers limit at <https://docs.aws.amazon.com/>

/mgn/latest/ug/MGN-service-limits.html

The AWS Replication Agent was successfully installed.

[user@wordpress-web ~]\$ sudo shutdown -h now

PuTTY Fatal Error



Remote side unexpectedly closed network connection

OK

Identifying volumes for replication.

Identified volume for replication: /dev/nvme0nl of size 8 GiB

All volumes for replication were successfully identified.

Downloading the AWS Replication Agent onto the source server...

Finished.

Installing the AWS Replication Agent onto the source server...

Finished.

Syncing the source server with the Application Migration Service Console...

Finished.

The following is the source server ID: s-57407b656f88f0810.

You now have 1 active source server out of a total quota of 150.

Learn more about increasing source servers limit at <https://docs.aws.amazon.com/>

/mgn/latest/ug/MGN-service-limits.html

The AWS Replication Agent was successfully installed.

[user@wordpress-web ~]\$ sudo shutdown -h now



MGN-Dryrun-20240731

Active source servers | AWS

Instances | EC2 | us-west-2

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/sourceServers

AWS Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 2140-4335-9993

New Chrome available

## Application Migration Service

### Source servers (4)

Actions ▾ Replication ▾ Test and cutover ▾ Add server

Filter source servers by property or value

Source server name	Alerts	Migration lifecycle	Data replication state
ofbiz-db.onpremsim.env	Stalled	Ready for cutover	Stalled
ofbiz-web.onpremsim.env	Stalled	Ready for cutover	Stalled
wordpress-db.onpremsim.env	Stalled	Ready for cutover	Stalled
wordpress-web.onpremsim.env	Stalled	Ready for cutover	Stalled

This account is currently replicating 4 servers out of a quota of 150 concurrent replicating servers. [Learn more](#)

Testing

- Launch test instances
- Mark as "Ready for cutover"
- Revert to "Ready for testing"

Cutover

- Launch cutover instances (highlighted)
- Finalize cutover
- Revert to "Ready for cutover"

Other

- Edit Launch Settings
- Edit post-launch settings
- Terminate launched instances

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us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-5e0a508130c16eb69

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 2140-4335-9993

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### Job log (5) Info

Filter job log by property or value

Time	Event	Additional data
August 01, 2024 at 18:39 (UTC+8:00)	Job started	
August 01, 2024 at 18:39 (UTC+8:00)	Started taking snapshot	Source server : <a href="#">wordpress-web.onpremsim.env</a>
August 01, 2024 at 18:39 (UTC+8:00)	Started taking snapshot	Source server : <a href="#">wordpress-db.onpremsim.env</a>
August 01, 2024 at 18:39 (UTC+8:00)	Started taking snapshot	Source server : <a href="#">ofbiz-db.onpremsim.env</a>
August 01, 2024 at 18:39 (UTC+8:00)	Started taking snapshot	Source server : <a href="#">ofbiz-web.onpremsim.env</a>

1

### Source servers (4)

Filter source servers by property or value

Source server name	Status
<a href="#">ofbiz-db.onpremsim.env</a>	Pending

1

MGN-Dryrun-20240731 Job details | AWS Application Instances | EC2 | us-west-2 New Chrome available

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-5e0a508130c16eb69

AWS Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 2140-4335-9993

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Job log (25) Info

Filter job log by property or value

< 1 2 

Time	Event	Additional data
August 01, 2024 at 18:44 (UTC+8:00)	Failed to take snapshot	Source server : <a href="#">ofbiz-db.onpremsim.env</a>
August 01, 2024 at 18:44 (UTC+8:00)	Failed to take snapshot	Source server : <a href="#">ofbiz-web.onpremsim.env</a>
August 01, 2024 at 18:44 (UTC+8:00)	Using previous snapshot	Source server : <a href="#">wordpress-web.onpremsim.env</a> Error: Could not take up to date snapshot. Launching from snapshot taken on 2024-08-01 18:44 (UTC+8:00)
August 01, 2024 at 18:44 (UTC+8:00)	Using previous snapshot	Source server : <a href="#">wordpress-db.onpremsim.env</a> Error: Could not take up to date snapshot. Launching from snapshot taken on 2024-08-01 18:44 (UTC+8:00)
August 01, 2024 at 18:44 (UTC+8:00)	Using previous snapshot	Source server : <a href="#">ofbiz-db.onpremsim.env</a> Error: Could not take up to date snapshot. Launching from snapshot taken on 2024-08-01 18:44 (UTC+8:00)
August 01, 2024 at 18:44 (UTC+8:00)	Using previous snapshot	Source server : <a href="#">ofbiz-web.onpremsim.env</a> Error: Could not take up to date snapshot. Launching from snapshot taken on 2024-08-01 18:44 (UTC+8:00)

MGN-Dryrun-20240731 Job details | AWS Application Instances | EC2 | us-west-2 New Chrome available

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-5e0a508130c16eb69

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 2140-4335-9993

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### Job log (25) Info

Filter job log by property or value

< 1 2 3 

Time	Event	Additional data
August 01, 2024 at 18:44 (UTC+8:00)	Conversion started	Source server : <a href="#">wordpress-db.onpremsim.env</a>
August 01, 2024 at 18:44 (UTC+8:00)	Conversion started	Source server : <a href="#">ofbiz-db.onpremsim.env</a>
August 01, 2024 at 18:44 (UTC+8:00)	Conversion started	Source server : <a href="#">ofbiz-web.onpremsim.env</a>
August 01, 2024 at 18:47 (UTC+8:00)	Conversion succeeded	Source server : <a href="#">wordpress-db.onpremsim.env</a> Conversion Server instance ID: i-006a80466a42ace07
August 01, 2024 at 18:47 (UTC+8:00)	Conversion succeeded	Source server : <a href="#">ofbiz-db.onpremsim.env</a> Conversion Server instance ID: i-052f1ddf23b99b127
August 01, 2024 at 18:48 (UTC+8:00)	Conversion succeeded	Source server : <a href="#">wordpress-web.onpremsim.env</a> Conversion Server instance ID: i-082c5b676e3f457fc
August 01, 2024 at 18:48 (UTC+8:00)	Conversion succeeded	Source server : <a href="#">ofbiz-web.onpremsim.env</a>

MGN-Dryrun-20240731 Job details | AWS Application Instances | EC2 | us-west-2 us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-5e0a508130c16eb69 New Chrome available

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 2140-4335-9993

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### Job log (25) Info

Filter job log by property or value

< 1 2 3 4

Time	Event	Additional data
August 01, 2024 at 18:48 (UTC+8:00)	Started launching test/ cutover EC2 instance	Source server : <a href="#">wordpress-web.onpremsim.env</a>
August 01, 2024 at 18:48 (UTC+8:00)	Started launching test/ cutover EC2 instance	Source server : <a href="#">wordpress-db.onpremsim.env</a>
August 01, 2024 at 18:48 (UTC+8:00)	Started launching test/ cutover EC2 instance	Source server : <a href="#">ofbiz-db.onpremsim.env</a>
August 01, 2024 at 18:48 (UTC+8:00)	Started launching test/ cutover EC2 instance	Source server : <a href="#">ofbiz-web.onpremsim.env</a>

### Source servers (4)

Filter source servers by property or value

< 1 >

Source server name	Status
<a href="#">ofbiz-db.onpremsim.env</a>	In progress
<a href="#">ofbiz-web.onpremsim.env</a>	In progress

MGN-Dryrun-20240731 Job details | AWS Application Instances | EC2 | us-west-2 us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/launchHistory/mgnjob-5e0a508130c16eb69 New Chrome available

AWS Services Search [Option+S] Oregon WSParticipantRole/Participant @ 2140-4335-9993

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Start time August 01, 2024 at 18:39 (UTC+8:00) Completed time August 01, 2024 at 18:53 (UTC+8:00)

### Job log (30) Info

Filter job log by property or value

Time Event Additional data

August 01, 2024 at 18:53 (UTC+8:00)	Successfully launched test/ cutover EC2 instance	Source server : <a href="#">ofbiz-db.onpremsim.env</a> Test/ cutover instance ID: i-0f99cb25b5c328827
August 01, 2024 at 18:53 (UTC+8:00)	Job ended	

Source servers (4)

Filter source servers by property or value

Source server name Status

<a href="#">ofbiz-db.onpremsim.env</a>	Launched
<a href="#">ofbiz-web.onpremsim.env</a>	Launched
<a href="#">wordpress-db.onpremsim.env</a>	Launched

< 1 2 3 4 5 >

Red arrow pointing to the page number 5 in the navigation bar.

```

user@ofbiz-db:~ 
  ↳ user@10.0.1.167's password:
Last login: Thu Aug  1 09:02:24 2024 from 192.168.0.12
[user@ofbiz-db ~]$ ADDR='hostname -I'
HOST='hostname'
sudo touch /tmp/nsupdate.txt
sudo chmod 666 /tmp/nsupdate.txt
echo "server dns.onpremsim.env" > /tmp/nsupdate.txt
echo "update delete $HOST A" >> /tmp/nsupdate.txt
echo "update add $HOST 86400 A $ADDR" >> /tmp/nsupdate.txt
echo "update delete $HOST PTR" >> /tmp/nsupdate.txt
echo "update add $HOST 86400 PTR $ADDR" >> /tmp/nsupdate.txt
echo "send" >> /tmp/nsupdate.txt
sudo nsupdate /tmp/nsupdate.txt
[user@ofbiz-db ~]$ HOST='hostname'
[user@ofbiz-db ~]$ sudo touch /tmp/nsupdate.txt
[user@ofbiz-db ~]$ sudo chmod 666 /tmp/nsupdate.txt
[user@ofbiz-db ~]$ echo "server dns.onpremsim.env" > /tmp/nsupdate.txt
[user@ofbiz-db ~]$ echo "update delete $HOST A" >> /tmp/nsupdate.txt
[user@ofbiz-db ~]$ echo "update add $HOST 86400 A $ADDR" >> /tmp/nsupdate.txt
[user@ofbiz-db ~]$ echo "update delete $HOST PTR" >> /tmp/nsupdate.txt
[user@ofbiz-db ~]$ echo "update add $HOST 86400 PTR $ADDR" >> /tmp/nsupdate.txt
[user@ofbiz-db ~]$ echo "send" >> /tmp/nsupdate.txt
[user@ofbiz-db ~]$ sudo nsupdate /tmp/nsupdate.txt
[user@ofbiz-db ~]$ 

user@wordpress-web:~ 
  ↳ login as: user
  ↳ user@10.0.1.61's password:
Access denied
  ↳ user@10.0.1.61's password:
Last failed login: Thu Aug  1 11:21:49 UTC 2024 from 192.168.0.12 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Thu Aug  1 09:02:51 2024 from 192.168.0.12
[user@wordpress-web ~]$ ADDR='hostname -I'
echo "send" >> /tmp/nsupdate.txt
sudo nsupdate /tmp/nsupdate.txt
[user@wordpress-web ~]$ HOST='hostname'
[user@wordpress-web ~]$ sudo touch /tmp/nsupdate.txt
[user@wordpress-web ~]$ sudo chmod 666 /tmp/nsupdate.txt
[user@wordpress-web ~]$ echo "server dns.onpremsim.env" > /tmp/nsupdate.txt
[user@wordpress-web ~]$ echo "update delete $HOST A" >> /tmp/nsupdate.txt
[user@wordpress-web ~]$ echo "update add $HOST 86400 A $ADDR" >> /tmp/nsupdate.txt
[user@wordpress-web ~]$ echo "update delete $HOST PTR" >> /tmp/nsupdate.txt
[user@wordpress-web ~]$ echo "update add $HOST 86400 PTR $ADDR" >> /tmp/nsupdate.txt
[user@wordpress-web ~]$ echo "send" >> /tmp/nsupdate.txt
[user@wordpress-web ~]$ sudo nsupdate /tmp/nsupdate.txt
[user@wordpress-web ~]$ 

user@ofbiz-web:~ 
  ↳ user@10.0.1.25's password:
Last login: Thu Aug  1 09:02:34 2024 from 192.168.0.12
[user@ofbiz-web ~]$ ADDR='hostname -I'
HOST='hostname'
sudo touch /tmp/nsupdate.txt
sudo chmod 666 /tmp/nsupdate.txt
echo "server dns.onpremsim.env" > /tmp/nsupdate.txt
echo "update delete $HOST A" >> /tmp/nsupdate.txt
echo "update add $HOST 86400 A $ADDR" >> /tmp/nsupdate.txt
echo "update delete $HOST PTR" >> /tmp/nsupdate.txt
echo "update add $HOST 86400 PTR $ADDR" >> /tmp/nsupdate.txt
echo "send" >> /tmp/nsupdate.txt
sudo nsupdate /tmp/nsupdate.txt
[user@ofbiz-web ~]$ HOST='hostname'
echo "send" >> /tmp/nsupdate.txt
sudo nsupdate /tmp/nsupdate.txt
[user@ofbiz-web ~]$ sudo touch /tmp/nsupdate.txt
[user@ofbiz-web ~]$ sudo chmod 666 /tmp/nsupdate.txt
[user@ofbiz-web ~]$ echo "server dns.onpremsim.env" > /tmp/nsupdate.txt
[user@ofbiz-web ~]$ echo "update delete $HOST A" >> /tmp/nsupdate.txt
[user@ofbiz-web ~]$ echo "update add $HOST 86400 A $ADDR" >> /tmp/nsupdate.txt
[user@ofbiz-web ~]$ echo "update delete $HOST PTR" >> /tmp/nsupdate.txt
[user@ofbiz-web ~]$ echo "update add $HOST 86400 PTR $ADDR" >> /tmp/nsupdate.txt
[user@ofbiz-web ~]$ echo "send" >> /tmp/nsupdate.txt
sudo nsupdate /tmp/nsupdate.txt
[user@ofbiz-web ~]$ 

user@wordpress-db:~ 
  ↳ Last login: Thu Aug  1 09:02:42 2024 from 192.168.0.12
  ↳ user@10.0.1.61's password:
  ↳ Access denied
  ↳ user@10.0.1.61's password:
Last failed login: Thu Aug  1 11:21:49 UTC 2024 from 192.168.0.12 on ssh:notty
There was 1 failed login attempt since the last successful login.
Last login: Thu Aug  1 09:02:51 2024 from 192.168.0.12
[user@wordpress-db ~]$ ADDR='hostname -I'
echo "send" >> /tmp/nsupdate.txt
sudo nsupdate /tmp/nsupdate.txt
[user@wordpress-db ~]$ HOST='hostname'
[user@wordpress-db ~]$ sudo touch /tmp/nsupdate.txt
[user@wordpress-db ~]$ sudo chmod 666 /tmp/nsupdate.txt
[user@wordpress-db ~]$ echo "server dns.onpremsim.env" > /tmp/nsupdate.txt
[user@wordpress-db ~]$ echo "update delete $HOST A" >> /tmp/nsupdate.txt
[user@wordpress-db ~]$ echo "update add $HOST 86400 A $ADDR" >> /tmp/nsupdate.txt
[user@wordpress-db ~]$ echo "update delete $HOST PTR" >> /tmp/nsupdate.txt
[user@wordpress-db ~]$ echo "update add $HOST 86400 PTR $ADDR" >> /tmp/nsupdate.txt
[user@wordpress-db ~]$ echo "send" >> /tmp/nsupdate.txt
sudo nsupdate /tmp/nsupdate.txt

```

The screenshot shows a Windows desktop environment with several open windows:

- Google Chrome:** A browser window titled "My Intranet Site" is open at `wordpress-web.onpremsim.env/`. The page content includes a header "My Intranet Site" with a background image of a winding road through a desert landscape, and a section titled "MIGRATION IMMERSION DAY" with a date "01 AUG 2024". The message on the page states: "We are migrating our internal servers to AWS!". A "Set as default" button is visible in the top right of the browser.
- Terminal:** A terminal window on the right side of the screen displays a series of commands being run, primarily involving file operations like redirection and concatenation of files named "nsupdate.txt".
- Pinned Icons:** On the left side, there is a vertical column of pinned icons with their corresponding names:
  - Recycle Bin
  - Google Chrome
  - Architecture
  - EC2 Feedback
  - EC2 Micros...
  - Microsoft Remote...
  - Putty

The screenshot shows a desktop interface with several windows open:

- File Manager:** On the left, showing a tree view of a directory structure with many entries starting with "user@of".
- Browser:** A window titled "OFBiz: Accounting Manager: Lo" with the URL <https://ofbiz-web.onpremsim.env:8443/accounting/control/main>. The page displays a "Login" form with fields for "User Name" and "Password", and a "Login" button.
- Terminal:** A window titled "user@ec2-52-88-38-193" showing an SSH session. The session output includes:

```
2.168.0.12 on ssh:notty
ful login.

t
> /tmp/nsupdate.txt
/tmp/nsupdate.txt
$ADDR" >> /tmp/nsupdate.t
>> /tmp/nsupdate.txt
R $ADDR" >> /tmp/nsupdate.t
t

txt
e.txt

> /tmp/nsupdate.txt
/tmp/nsupdate.txt
ADDR" >> /tmp/nsupdate.tx
> /tmp/nsupdate.txt
$ADDR" >> /tmp/nsupdate.
```
- Other Icons:** In the dock at the bottom, there are icons for "Recycle Bin", "Google Chrome", "Architecture", "EC2 Feedback", "EC2 Micros...", "Microsoft Remote...", and "Putty".

MGN-Dryrun-20240731

Active source servers | AWS

Instances | EC2 | us-west-2

us-west-2.console.aws.amazon.com/mgn/home?region=us-west-2#/sourceServers

New Chrome available

AWS Services Search [Option+S]

Oregon WSParticipantRole/Participant @ 2140-4335-9993

## Application Migration Service

### Source servers (4)

Active source servers Filter source servers by property or value

Source server name	Alerts	Migration lifecycle	Data replication state
ofbiz-db.onpremsim.env	Stalled	Cutover in progress	Stalled
ofbiz-web.onpremsim.env	Stalled	Cutover in progress	Stalled
wordpress-db.onpremsim.env	Stalled	Cutover in progress	Stalled
wordpress-web.onpremsim.env	Stalled	Cutover in progress	Stalled

This account is currently replicating 4 servers out of a quota of 150 concurrent replicating servers. [Learn more](#)

Actions ▾ Replication ▾ Test and cutover ▾ Add server

Testing

- Launch test instances
- Mark as "Ready for cutover"
- Revert to "Ready for testing"

Cutover

- Launch cutover instances
- Finalize cutover** (highlighted with red arrow)
- Revert to "Ready for cutover"

Other

- Edit Launch Settings
- Edit post-launch settings
- Terminate launched instances

Servers

Source servers

Applications

Waves

Global view

Launch history

MGN connectors

Import and Export

- Import
- Export

Settings

- Replication template
- Launch template
- Post-launch template
- User preferences

AWS Migration Hub

Documentation

Release Notes

# Database migration tooling



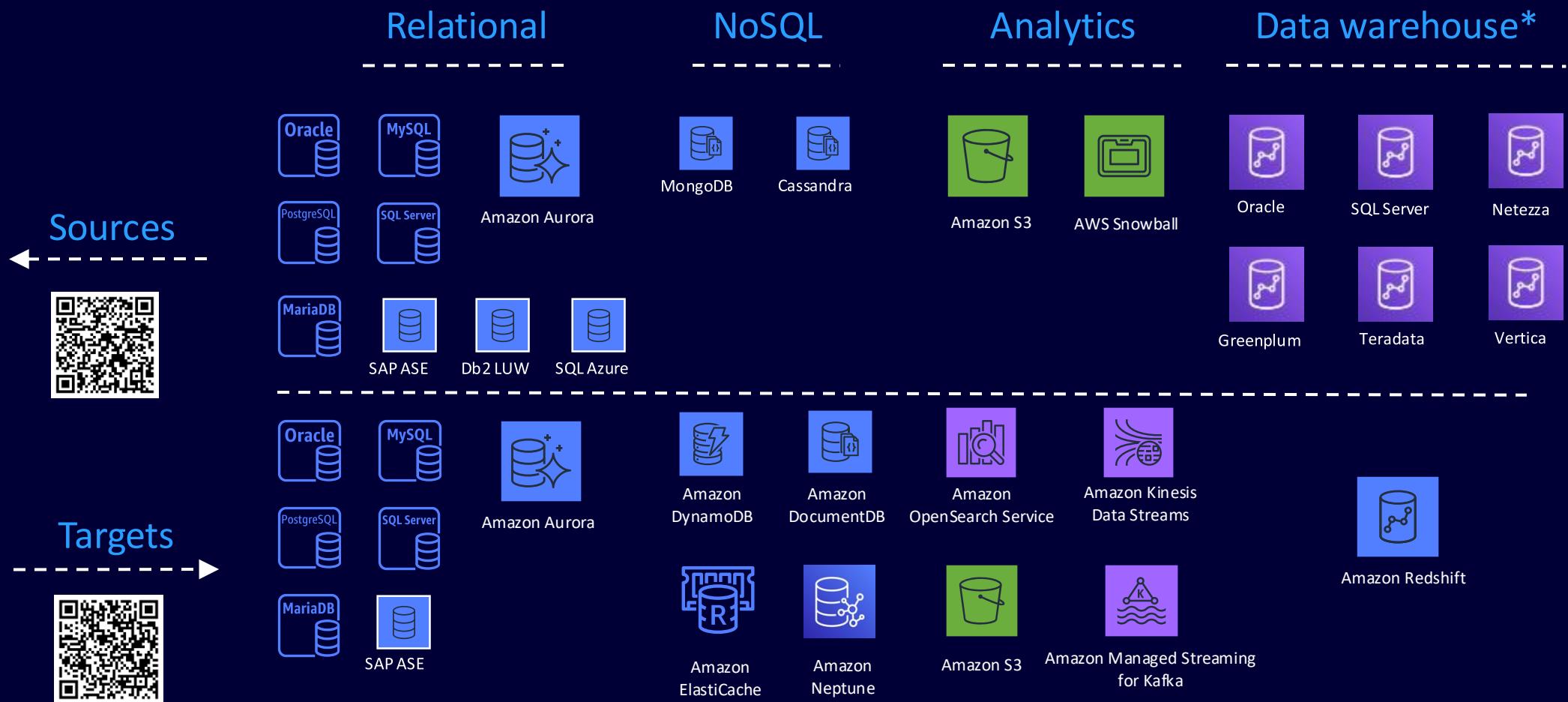
**AWS Schema Conversion Tool (AWS SCT)** converts your commercial database and data warehouse schemas to open-source engines or AWS-native services, such as Amazon Aurora and Amazon Redshift

---



**AWS Database Migration Service (AWS DMS)** easily and securely migrates and/or replicates your databases and data warehouses to AWS

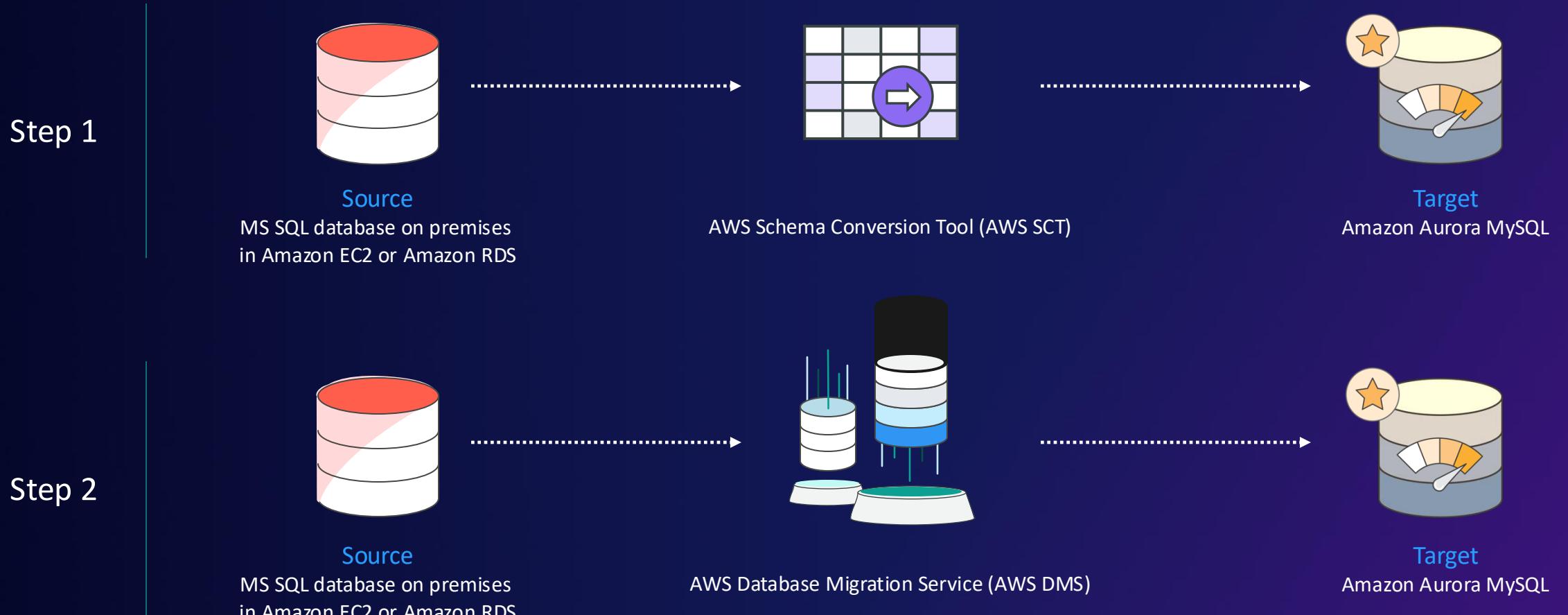
# Supported source and targets



Consult QR code links above for latest DMS sources and targets

\* Supported via AWS SCT data extractors

# Database migration process



# DMS Lab - Oracle To Oracle

## Parameters

Select a Source / Module

## ▼ Regular AWS Account

Login to the AWS Console

Create an EC2 Key Pair

Configure the Environment

Select a Module

## ▼ Select your DMS source

## ▼ Oracle Source

Connect to the EC2 Instance

Connect To The Source

Oracle Database

Configure the Source

Database

Summary

## ▼ SQL Server Source

Connect to the EC2 Instance

Open SQL Server

Management Studio

Configure the Source

## ▼ AWS account access

Open AWS console

(us-east-1)

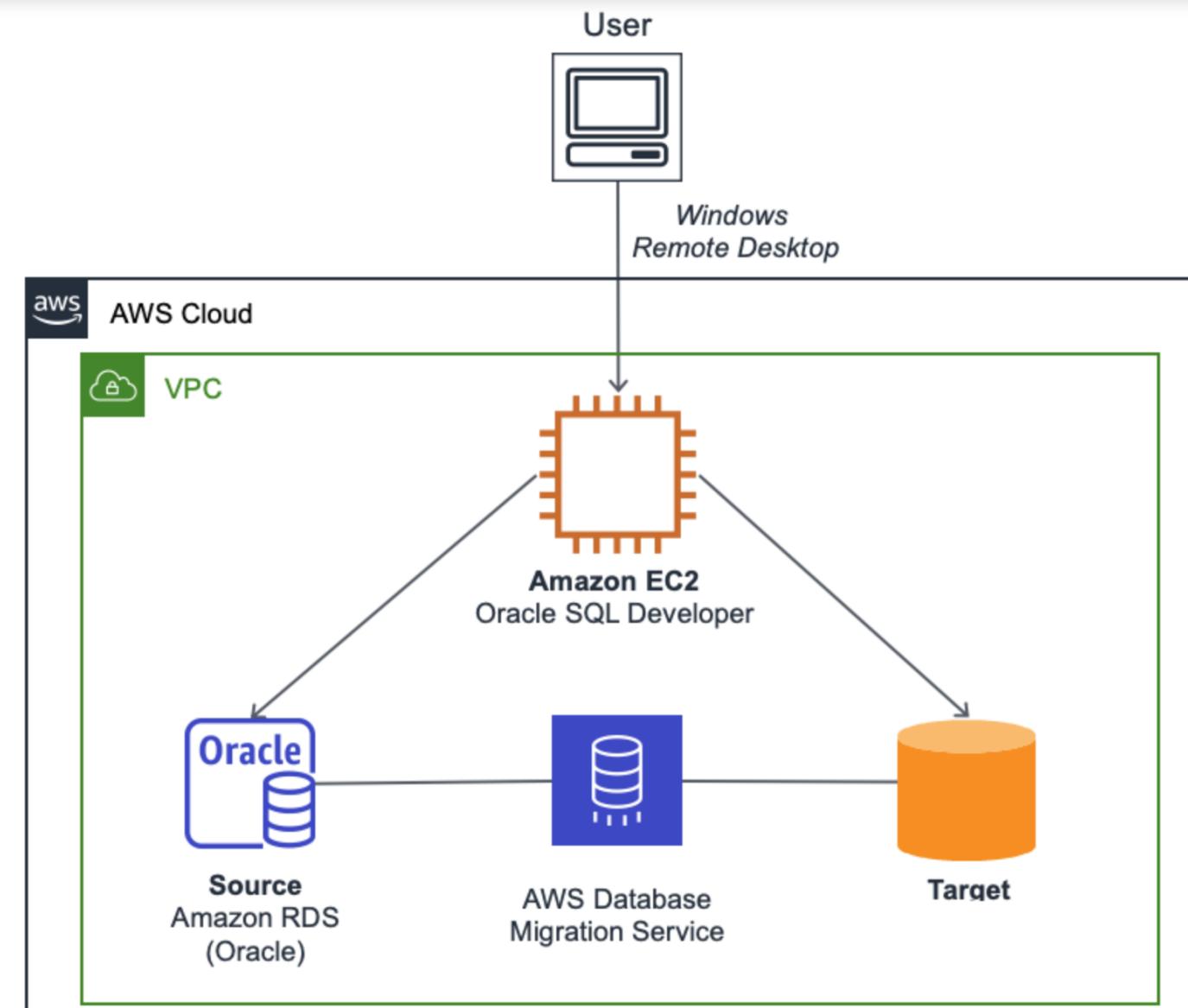
Get AWS CLI credentials

Get EC2 SSH key

Exit event

Event ends in 13 hours 56 minutes.

X



AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

cfn-EC2Instance i-0f98df015907afc0b 57 minutes remaining Actions

Oracle SQL Developer

File Edit View Navigate Run Team Tools Window Help

Connections Welcome Page Source Oracle Target Oracle

Worksheet Query Builder

Orade Connections

- + Oracle Connections
- + Source Oracle
- + Target Oracle
- Database Schema Service Connections

Reports

- All Reports
  - Analytic View Reports
  - Data Dictionary Reports
  - Data Modeler Reports
  - OLAP Reports
  - TimesTen Reports
  - User Defined Reports

This screenshot shows the Oracle SQL Developer application running within an AWS CloudShell window. The top navigation bar includes the AWS logo, services dropdown, search bar, and account information. The main title bar indicates the session is in the N. Virginia region and is associated with a specific participant role. A progress bar at the top right shows '57 minutes remaining'. The main workspace displays the Oracle SQL Developer interface, which features a toolbar, a tabs bar with 'Welcome Page', 'Source Oracle', and 'Target Oracle', and a central area divided into 'Worksheet' and 'Query Builder' panes. On the left, there are two panels: 'Connections' listing 'Source Oracle' and 'Target Oracle' under 'Orade Connections', and 'Reports' listing various report types like Analytic View Reports and Data Dictionary Reports. The 'Target Oracle' connection is currently selected in the tabs bar.

us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-oracle-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

## AWS DMS

Dashboard

Discover

- Data collectors
- Inventory

Assess

Recommendations [New](#)

Convert and migrate

- Migration projects [New](#)
- Instance profiles [New](#)
- Data providers [New](#)

Migrate data

- Replication instances
- Endpoints

Database migration tasks [New](#)

Serverless replications

Monitor

- Events
- Event subscriptions

DMS > Database migration tasks > source-to-oracle-target

# source-to-oracle-target

**Premigration assessment is not created**

We recommend you consider creating and running a premigration assessment for this migration task to identify potential issues before you start the migration. Choose **Create premigration assessment** from the Actions menu, then you can view assessment results from the **Premigration assessment** tab. [Learn more](#)

## Summary

Task status	Latest premigration assessment	Source
<a href="#">Load complete, replication ongoing</a>	<a href="#">Not assessed</a>	<a href="#">cfn-sourceoracledb</a>
Type	Migration progress	Target
Full load, ongoing replication	<div style="width: 100%;">100%</div>	<a href="#">cfn-targetoracledb</a>

Overview details Table statistics Monitoring Mapping rules Premigration assessments Tags

## Overview details

### Basic configuration

us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-oracle-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

## AWS DMS

DMS > Database migration tasks > source-to-oracle-target

### source-to-oracle-target

**Premigration assessment is not created**

We recommend you consider creating and running a premigration assessment for this migration task to identify potential issues before you start the migration. Choose **Create premigration assessment** from the Actions menu, then you can view assessment results from the **Premigration assessment** tab. [Learn more](#)

#### Summary

Task status	Latest premigration assessment	Source
Load complete, replication ongoing	Not assessed	cfn-sourceoracledb
Type	Migration progress	Target
Full load, ongoing replication	100%	cfn-targetoracledb

Overview details Table statistics Monitoring Mapping rules Premigration assessments Tags

#### Overview details

#### Basic configuration

us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-oracle-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

## AWS DMS

Dashboard

Discover

- Data collectors
- Inventory

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- Recommendations [New](#)

Convert and migrate

- Migration projects [New](#)
- Instance profiles [New](#)
- Data providers [New](#)

Migrate data

- Replication instances
- Endpoints

Database migration tasks

- Serverless replications

Monitor

- Events
- Event subscriptions

Table statistics (16)

Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Find schema

<input type="checkbox"/>	Schema name	Table	Load state	Elapsed load time	Inserts	Deletes	Updates
<input type="checkbox"/>	DMS_SAMPLE	PERSON	Table completed	29 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SPORT_LOCATION	Table completed	1 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SPORT_DIVISION	Table completed	1 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SPORT_LEAGUE	Table completed	1 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SPORT_TYPE	Table completed	< 1 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SPORTING_EVENT	Table completed	1 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SPORTING_EVENT_TICKET	Table completed	4 m 21 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SPORT_TEAM	Table completed	1 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SEAT_TYPE	Table completed	1 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	SEAT	Table completed	21 s	0	0	0
<input type="checkbox"/>	DMS_SAMPLE	TICKET_PURCHASE_HIST	Table completed	< 1 s	0	0	0

Export to CSV Validate again Reload table data



us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-oracle-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

## AWS DMS

Dashboard

Discover

- Data collectors
- Inventory

Assess

- Recommendations [New](#)

Convert and migrate

- Migration projects [New](#)
- Instance profiles [New](#)
- Data providers [New](#)

Migrate data

- Replication instances
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Database migration tasks

- Serverless replications

Monitor

- Events
- Event subscriptions

Table statistics (16)

Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Find schema

Applied DDLs	Full load rows	Total rows	Validation state	Validation pending	Validation failed	Validation su
0	7,055,276	7,055,276	Not enabled	0	0	0
0	62	62	Not enabled	0	0	0
0	14	14	Not enabled	0	0	0
0	2	2	Not enabled	0	0	0
0	2	2	Not enabled	0	0	0
0	1,142	1,142	Not enabled	0	0	0
0	56,530,154	56,530,154	Not enabled	0	0	0
0	62	62	Not enabled	0	0	0
0	6	6	Not enabled	0	0	0
0	3,565,082	3,565,082	Not enabled	0	0	0
0	0	0	Not enabled	0	0	0

 A red arrow points to the second row of the table, highlighting the value '2' in the 'Full load rows' column.

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

cfn-EC2Instance i-0f98df015907afc0b 50 minutes remaining Actions

Oracle SQL Developer : Target Oracle

File Edit View Navigate Run Source Team Tools Window Help

Connections Welcome Page Source Oracle Target Oracle

Worksheet Query Builder

```
SELECT *  
FROM dbadmin.sport_type;
```

Tables (Filtered)

- awsdms\_apply\_exceptions
- MLB\_DATA
- NAME\_DATA
- NFL\_DATA
- NFL\_STADIUM\_DATA
- PERSON
- PLAYER
- SEAT
- SEAT\_TYPE
- SPORT\_DIVISION
- SPORT\_LEAGUE

Reports

All Reports Analytic View Reports Data Dictionary Reports Data Modeler Reports OLAP Reports TimesTen Reports User Defined Reports

Query Result Script Output Task completed in 0.02 seconds

NAME	DESCRIPTION
baseball	A sport with 9 players, bats, and balls - what could possibly go wrong?
football	Teams of 11 players attempt to move an oblong ball 100 yards while beating the snot out of each other.

Line 3 Column 1 Insert Modified Windows: Cf

48 minutes remaining

Actions ▾

▶ cfn-EC2Instance  
i-0f98df015907afc0b

## Oracle SQL Developer : Source Oracle

File Edit View Navigate Run Source Team Tools Window Help



## Connections



Oracle Connections

Source Oracle

Target Oracle

Database Schema Service Connections

## Welcome Page

## Source Oracle

## Target Oracle

1.676 seconds

Source Oracle

## Worksheet

```
INSERT ALL

    INTO dms_sample.sport_type (name,description) VALUES ('hockey', 'A sport in which two teams play against each other by trying to move a puck into the o')

    INTO dms_sample.sport_type (name,description) VALUES ('basketball', 'A sport in which two teams of five players each that oppose one another shoot a ba')

    INTO dms_sample.sport_type (name,description) VALUES ('soccer','A sport played with a spherical ball between two teams of eleven players')

    INTO dms_sample.sport_type (name,description) VALUES ('volleyball','two teams of six players are separated by a net and each team tries to score by gro')

    INTO dms_sample.sport_type (name,description) VALUES ('cricket','A bat-and-ball game between two teams of eleven players on a field with a wicket at ea')

SELECT * FROM dual;

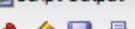
COMMIT;
```

SELECT \* FROM dms\_sample.sport\_type;

## Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

## Script Output



Task completed in 1.676 seconds

PL/SQL procedure successfully completed.

Table DMS\_SAMPLE.NFL\_STADIUM\_DATA altered.

Table DMS SAMPLE.MLB DATA altered.

Line 15 Column 8 | Insert | Modified | Windows: C:\

us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-oracle-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

## AWS DMS

Dashboard

Discover

- Data collectors
- Inventory

Assess

- Recommendations [New](#)

Convert and migrate

- Migration projects [New](#)
- Instance profiles [New](#)
- Data providers [New](#)

Migrate data

- Replication instances
- Endpoints
- Database migration tasks**
- Serverless replications

Monitor

- Events
- Event subscriptions

Table statistics (16)

Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Find schema

C Export to CSV Validate again Reload table data

Schema name	Table	Load state	Elapsed load time	Inserts	Deletes	Updates
DMS_SAMPLE	PERSON	Table completed	29 s	0	0	0
DMS_SAMPLE	SPORT_LOCATION	Table completed	1 s	0	0	0
DMS_SAMPLE	SPORT_DIVISION	Table completed	1 s	0	0	0
DMS_SAMPLE	SPORT_LEAGUE	Table completed	1 s	0	0	0
<input checked="" type="checkbox"/> DMS_SAMPLE	SPORT_TYPE	Table completed	< 1 s	5	0	0
<input type="checkbox"/> DMS_SAMPLE	SPORTING_EVENT	Table completed	1 s	0	0	0
<input type="checkbox"/> DMS_SAMPLE	SPORTING_EVENT_TICKET	Table completed	4 m 21 s	0	0	0
<input type="checkbox"/> DMS_SAMPLE	SPORT_TEAM	Table completed	1 s	0	0	0
<input type="checkbox"/> DMS_SAMPLE	SEAT_TYPE	Table completed	1 s	0	0	0
<input type="checkbox"/> DMS_SAMPLE	SEAT	Table completed	21 s	0	0	0
<input type="checkbox"/> DMS_SAMPLE	TICKET_PURCHASE_HIST	Table completed	< 1 s	0	0	0

A red arrow points to the checkbox next to the first row (PERSON). A red box highlights the value '5' in the 'Inserts' column of the same row.

Actions ▾



▶ cfn-EC2Instance  
i-0f98df015907afc0b

## Oracle SQL Developer : Target Oracle

File Edit View Navigate Run Source Team Tools Window Help



## Connections



Oracle Connections

Source Oracle

Target Oracle

Database Schema Service Connections

## Welcome Page

## Source Oracle

## Target Oracle

0.024 seconds

Target Oracle

## Worksheet

```
SELECT *  
FROM dbadmin.sport_type;
```

## Reports

- All Reports
- Analytic View Reports
- Data Dictionary Reports
- Data Modeler Reports
- OLAP Reports
- TimesTen Reports
- User Defined Reports

## Script Output

Task completed in 0.024 seconds

NAME	DESCRIPTION
baseball	A sport with 9 players, bats, and balls - what could possibly go wrong?
football	Teams of 11 players attempt to move an oblong ball 100 yards while beating the snot out of each other.
hockey	A sport in which two teams play against each other by trying to move a puck into the opponents goal using a hockey stick
basketball	A sport in which two teams of five players each that oppose one another shoot a basketball through the defenders hoop
soccer	A sport played with a spherical ball between two teams of eleven players
volleyball	two teams of six players are separated by a net and each team tries to score by grounding a ball on the others court
cricket	A bat-and-ball game between two teams of eleven players on a field with a wicket at each end

7 rows selected.

Line 2 Column 25 | Insert | Modified | Windows: CF

# DMS Lab - SQL to SQL

us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-sqlserver-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

## AWS DMS

Dashboard

Discover

- Data collectors
- Inventory

Assess

Recommendations [New](#)

Convert and migrate

Migration projects [New](#)

Instance profiles [New](#)

Data providers [New](#)

Migrate data

Replication instances

Endpoints

Database migration tasks [Overview details](#) [Table statistics](#) [Monitoring](#) [Mapping rules](#) [Premigration assessments](#) [Tags](#)

Serverless replications

Monitor

Events

Event subscriptions

### source-to-sqlserver-target

C Actions Quick view and compare View logs

**Premigration assessment is not created**

We recommend you consider creating and running a premigration assessment for this migration task to identify potential issues before you start the migration. Choose **Create premigration assessment** from the Actions menu, then you can view assessment results from the **Premigration assessment** tab. [Learn more](#)

#### Summary

Task status	Latest premigration assessment	Source
<a href="#">Load complete, replication ongoing</a>	<a href="#">Not assessed</a>	<a href="#">sqlserver-source</a>
Type	Migration progress	Target
Full load, ongoing replication	<div style="width: 100%;">100%</div>	<a href="#">cfn-targetsqlserver</a>

#### Overview details

#### Basic configuration

us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-sqlserver-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

## AWS DMS

Dashboard

Discover

- Data collectors
- Inventory

Assess

Recommendations [New](#)

Convert and migrate

Migration projects [New](#)

Instance profiles [New](#)

Data providers [New](#)

Migrate data

Replication instances

Endpoints

Database migration tasks [Overview details](#) [Table statistics](#) [Monitoring](#) [Mapping rules](#) [Premigration assessments](#) [Tags](#)

Serverless replications

Monitor

Events

Event subscriptions

### source-to-sqlserver-target

C Actions Quick view and compare View logs

**Premigration assessment is not created**

We recommend you consider creating and running a premigration assessment for this migration task to identify potential issues before you start the migration. Choose **Create premigration assessment** from the Actions menu, then you can view assessment results from the **Premigration assessment** tab. [Learn more](#)

#### Summary

Task status	Latest premigration assessment	Source
<a href="#">Load complete, replication ongoing</a>	<a href="#">Not assessed</a>	<a href="#">sqlserver-source</a>
Type	Migration progress	Target
Full load, ongoing replication	 100%	<a href="#">cfn-targetsqlserver</a>

#### Overview details

#### Basic configuration

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

AWS DMS	Schema name	Table	Load state	Elapsed load time	Inserts	Deletes	Updates
Dashboard	dbo	sport_location	Table completed	1 s	0	0	0
Discover	dbo	name_data	Table completed	< 1 s	0	0	0
Data collectors	dbo	mlb_data	Table completed	1 s	0	0	0
Inventory	dbo	ticket_purchase_hist	Table completed	1 s	0	0	0
Assess	dbo	sport_team	Table completed	1 s	0	0	0
Recommendations <a href="#">New</a>	dbo	nfl_stadium_data	Table completed	< 1 s	0	0	0
Convert and migrate	dbo	seat_type	Table completed	< 1 s	0	0	0
Migration projects <a href="#">New</a>	dbo	sport_type	Table completed	1 s	0	0	0
Instance profiles <a href="#">New</a>	dbo	sporting_event_ticket	Table completed	16 m 56 s	0	0	0
Data providers <a href="#">New</a>	dbo	sporting_event	Table completed	1 s	0	0	0
Migrate data	dbo	sport_division	Table completed	< 1 s	0	0	0
Replication instances	dbo	nfl_data	Table completed	< 1 s	0	0	0
Endpoints	dbo	person	Table completed	3 m 5 s	0	0	0
Database migration tasks	dbo	sport_league	Table completed	< 1 s	0	0	0
Serverless replications	dbo	player	Table completed	1 s	0	0	0
Monitor	dbo	seat	Table completed	2 m 14 s	0	0	0

us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-sqlserver-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

	Full load rows	Total rows	Validation state	Validation pending	Validation failed	Validation suspended	Valid
Dashboard	62	62	Not enabled	0	0	0	
Data collectors	5,360	5,360	Not enabled	0	0	0	
Inventory	2,230	2,230	Not enabled	0	0	0	
Recommendations <a href="#">New</a>	0	0	Not enabled	0	0	0	
Migration projects <a href="#">New</a>	62	62	Not enabled	0	0	0	
Instance profiles <a href="#">New</a>	32	32	Not enabled	0	0	0	
Data providers <a href="#">New</a>	6	6	Not enabled	0	0	0	
Migration projects <a href="#">New</a>	2	2	Not enabled	0	0	0	
Instance profiles <a href="#">New</a>	57,588,768	57,588,768	Not enabled	0	0	0	
Replication instances	1,158	1,158	Not enabled	0	0	0	
Endpoints	14	14	Not enabled	0	0	0	
Database migration tasks	2,928	2,928	Not enabled	0	0	0	
Serverless replications	7,025,584	7,025,584	Not enabled	0	0	0	
Events	2	2	Not enabled	0	0	0	
Event subscriptions	5,157	5,157	Not enabled	0	0	0	
	3,565,082	3,565,082	Not enabled	0	0	0	

▶ cfn-EC2Instance  
i-0f98df015907afc0b

59 minutes remaining

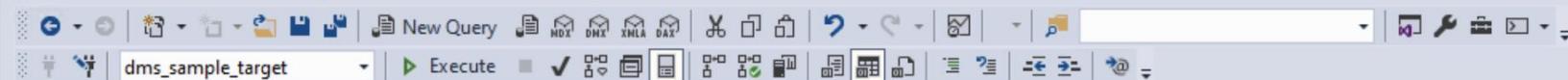
Actions ▾



SQLQuery8.sql - cfn-targetsqlserver.cp8o8nne4f7r.us-east-1.rds.amazonaws.com.dms\_sample\_target (dbadmin (72)) - Microsoft SQL Server Management Studio (Administrator)

Quick Launch (Ctrl+Q)

File Edit View Query Project Tools Window Help



Object Explorer

- Connect
- + dbo.ticket\_purchase\_hi
- + Dropped Ledger Tables
- + Views
- + External Resources
- + Synonyms
- + Programmability
- + Service Broker
- + Storage
- + Security
- + YoDA
- + Security
- + Server Objects
- + Replication
- + Always On High Availability
- + Management
- + Integration Services Catalogs
- + SQL Server Agent
- + XEvent Profiler
- cfn-targetsqlserver.cp8o8nne4f7r.us-east-1.rds.amazonaws.com.dms\_sample\_target (dbadmin (72))
- + Databases
- + Security
- + Server Objects
- + Replication
- + Always On High Availability
- + Management
- + Integration Services Catalogs
- + SQL Server Agent
- + XEvent Profiler

SQLQuery8.sql - cf...rget (dbadmin (72)) \* → SQLQuery7.sql - cf...rget (dbadmin (61)) \* SQLQuery6.sql - loc...Administrator (55) SQLQuery3.sql - cfn...ster (dbadmin (70)) \*

```
use dms_sample_target
SELECT * FROM dms_sample_target.sport_type;
GO
```

100 %   
Results 

	name	description
1	baseball	A sport with 9 players, bats, and balls - what could...
2	football	Teams of 11 players attempt to move an oblong b...

Query executed successfully.

cfn-targetsqlserver.cp8o8nn... | dbadmin (72) | dms\_sample\_target | 00:00:00 | 2 rows

## ▶ cfn-EC2Instance

i-0f98df015907afc0b

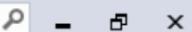
58 minutes remaining

Actions ▾

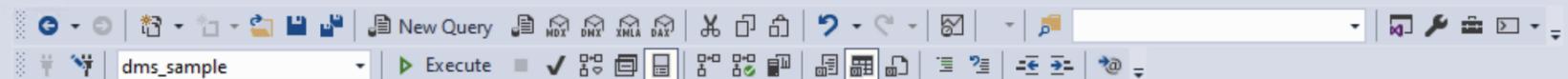


SQLQuery9.sql - localhost.dms\_sample (EC2AMAZ-RHHC9U3)\Administrator (56)\* - Microsoft SQL Server Management Studio (Administrator)

Quick Launch (Ctrl+Q)



File Edit View Query Project Tools Window Help



Object Explorer

- Connect ▾
- localhost (SQL Server 16.0.4115.5 - EC2AI)
  - Databases
    - System Databases
    - Database Snapshots
    - dms\_sample
    - YoDA
  - Security
  - Server Objects
  - Replication
  - Always On High Availability
  - Management
  - Integration Services Catalogs
  - SQL Server Agent
  - XEvent Profiler
- cfn-targetsqlserver.cp808nne4f7.us-east-1
  - Databases
  - Security
  - Server Objects
  - Replication
  - Always On High Availability
  - Management
  - Integration Services Catalogs
  - SQL Server Agent
  - XEvent Profiler

```
INSERT INTO [dbo].[sport_type]
([name]
,[description])
VALUES
('hockey', 'A sport in which two teams play against each other by trying to move a puck into the opponents goal using a hockey stick');

INSERT INTO [dbo].[sport_type]
([name]
,[description])
VALUES
('basketball', 'A sport in which two teams of five players each that oppose one another shoot a basketball through the defenders hoop');

INSERT INTO [dbo].[sport_type]
([name]
,[description])
VALUES
```

```
100 %
```

```
Messages
```

```
(1 row affected)
```

```
Completion time: 2024-08-31T12:49:50.9360531+00:00
```

```
100 %
```

```
< > ✓ Query executed successfully.
```

```
localhost (16.0 RTM) | EC2AMAZ-RHHC9U3\Administr... | dms_sample | 00:00:00 | 0 rows
```

us-east-1.console.aws.amazon.com/dms/v2/home?region=us-east-1#taskDetails/source-to-sqlserver-target

AWS Services Search [Option+S] N. Virginia WSParticipantRole/Participant @ 9779-8493-4687

## AWS DMS

Dashboard

Discover

Data collectors

Inventory

Assess

Recommendations New

Convert and migrate

Migration projects New

Instance profiles New

Data providers New

Migrate data

Replication instances

Endpoints

Database migration tasks

Serverless replications

Monitor

Events

Event subscriptions

### Table statistics (16)

Total rows include loaded source table rows from Inserts, Deletes, Updates, DDLs, and Full load rows.

Find schema

	Schema name	Table	Load state	Elapsed load time	Inserts	Deletes	Updates
<input type="checkbox"/>	dbo	sport_location	Table completed	1 s	0	0	0
<input type="checkbox"/>	dbo	name_data	Table completed	< 1 s	0	0	0
<input type="checkbox"/>	dbo	mlb_data	Table completed	1 s	0	0	0
<input type="checkbox"/>	dbo	ticket_purchase_hist	Table completed	1 s	0	0	0
<input type="checkbox"/>	dbo	sport_team	Table completed	1 s	0	0	0
<input type="checkbox"/>	dbo	nfl_stadium_data	Table completed	< 1 s	0	0	0
<input type="checkbox"/>	dbo	seat_type	Table completed	< 1 s	0	0	0
<input checked="" type="checkbox"/>	dbo	sport_type	Table completed	1 s	5	0	0
<input type="checkbox"/>	dbo	sporting_event_ticket	Table completed	16 m 56 s	0	0	0
<input type="checkbox"/>	dbo	sporting_event	Table completed	1 s	0	0	0
<input type="checkbox"/>	dbo	sport_division	Table completed	< 1 s	0	0	0

Export to CSV Validate again Reload table data

A red arrow points to the checkbox in the first column of the last row, and a red box highlights the value '5' in the 'Inserts' column of the same row.

## ▶ cfn-EC2Instance

i-0f98df015907afc0b

57 minutes remaining

Actions ▾



SQLQuery10.sql - cfn-targetsqlserver.cp8o8nne4f7r.us-east-1.rds.amazonaws.com.dms\_sample\_target (dbadmin (82))\* - Microsoft SQL Server Management Studio (Administrator)

Quick Launch (Ctrl+Q)

File Edit View Query Project Tools Window Help



Object Explorer

Connect

localhost (SQL Server 16.0.4115.5 - EC2AI)

- ↳ Databases
    - ↳ System Databases
    - ↳ Database Snapshots
    - ↳ dms\_sample
    - ↳ YoDA
  - ↳ Security
  - ↳ Server Objects
  - ↳ Replication
  - ↳ Always On High Availability
  - ↳ Management
  - ↳ Integration Services Catalogs
  - ↳ SQL Server Agent
  - ↳ XEvent Profiler
- 
- ↳ cfn-targetsqlserver.cp8o8nne4f7r.us-east-1.rds.amazonaws.com.dms\_sample\_target (dbadmin (82))
    - ↳ Databases
    - ↳ Security
    - ↳ Server Objects
    - ↳ Replication
    - ↳ Always On High Availability
    - ↳ Management
    - ↳ Integration Services Catalogs
    - ↳ SQL Server Agent
    - ↳ XEvent Profiler

SQLQuery10.sql - c...target (dbadmin (82))\* SQLQuery9.sql - loc...Administrator (56)\* SQLQuery8.sql - cf...rget (dbadmin (72))\* SQLQuery7.sql - cf...rget (dbadmin (61))\*

```
use dms_sample_target
SELECT * FROM dms_sample_target.sport_type;
GO
```

100 %   
Results 

	name	description
1	baseball	A sport with 9 players, bats, and balls - what could ...
2	basketball	A sport in which two teams of five players each tha...
3	cricket	A bat-and-ball game between two teams of eleven ...
4	football	Teams of 11 players attempt to move an oblong ba...
5	hockey	A sport in which two teams play against each other...
6	soccer	A sport played with a spherical ball between two te...
7	volleyball	two teams of six players are separated by a net an...

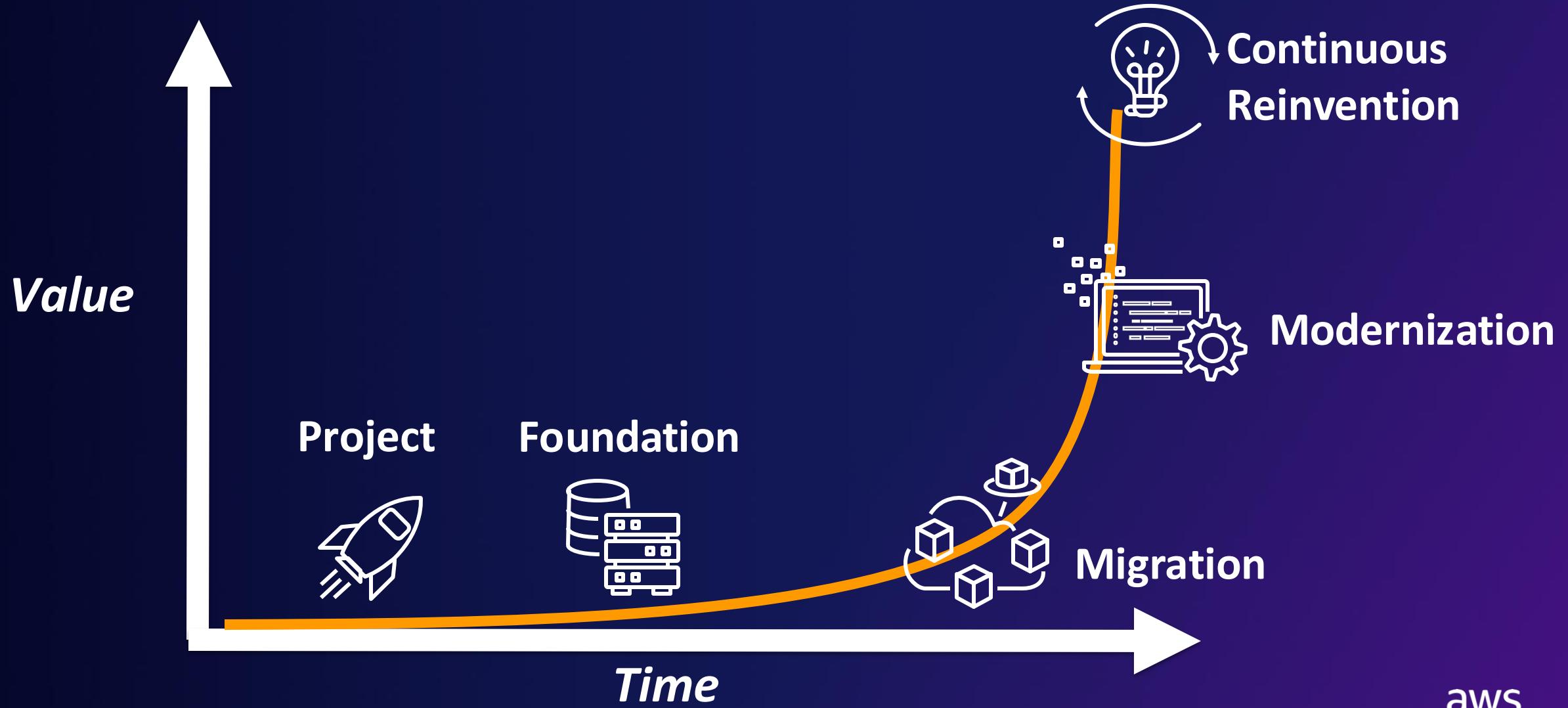
&lt; Query executed successfully.

cfn-targetsqlserver.cp8o8nn... | dbadmin (82) | dms\_sample\_target | 00:00:00 | 7 rows

# Services we have covered today

- Migration Readiness Assessment (MRA)
- Migration Portfolio Assessment (MPA)
- Control Tower and Landing Zone (CT/LZ)
- Application Migration Service (MGN)
- Database Migration Service (DMS)

# Getting started in your cloud journey



# Thank you!

Michael Lin

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