A unique opportunity for you to be mentored by Amazonians

Become a Solutions Architect

Week 8
05-Nov-2022

Agenda

Technical Track (40 Mins)

- 7 R of Migration
  - › Ashish Prajapati

Serverless Track (30 Mins)

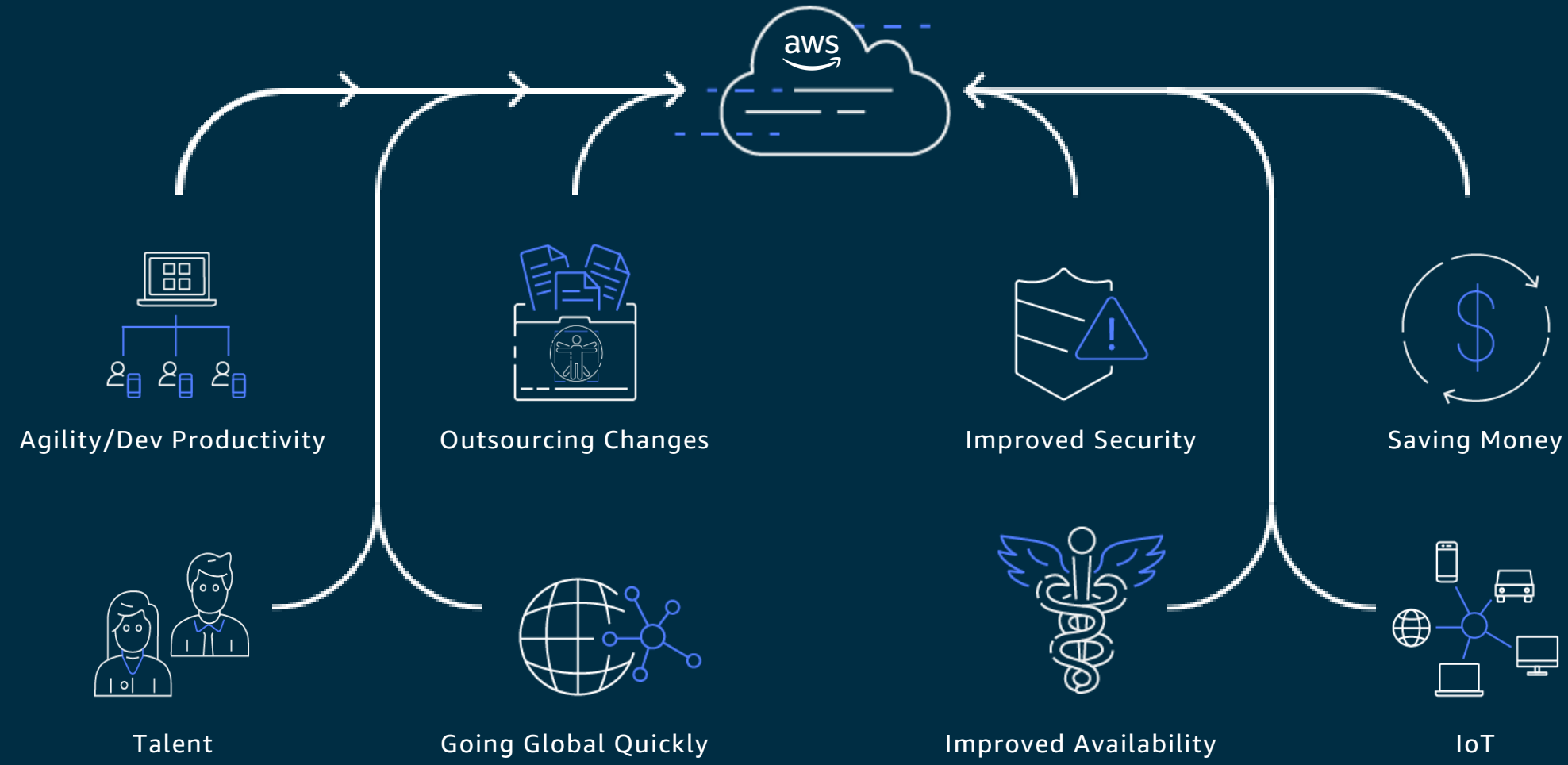
- Migration of Serverless
  - › James

Behavioural Track (15 Mins)

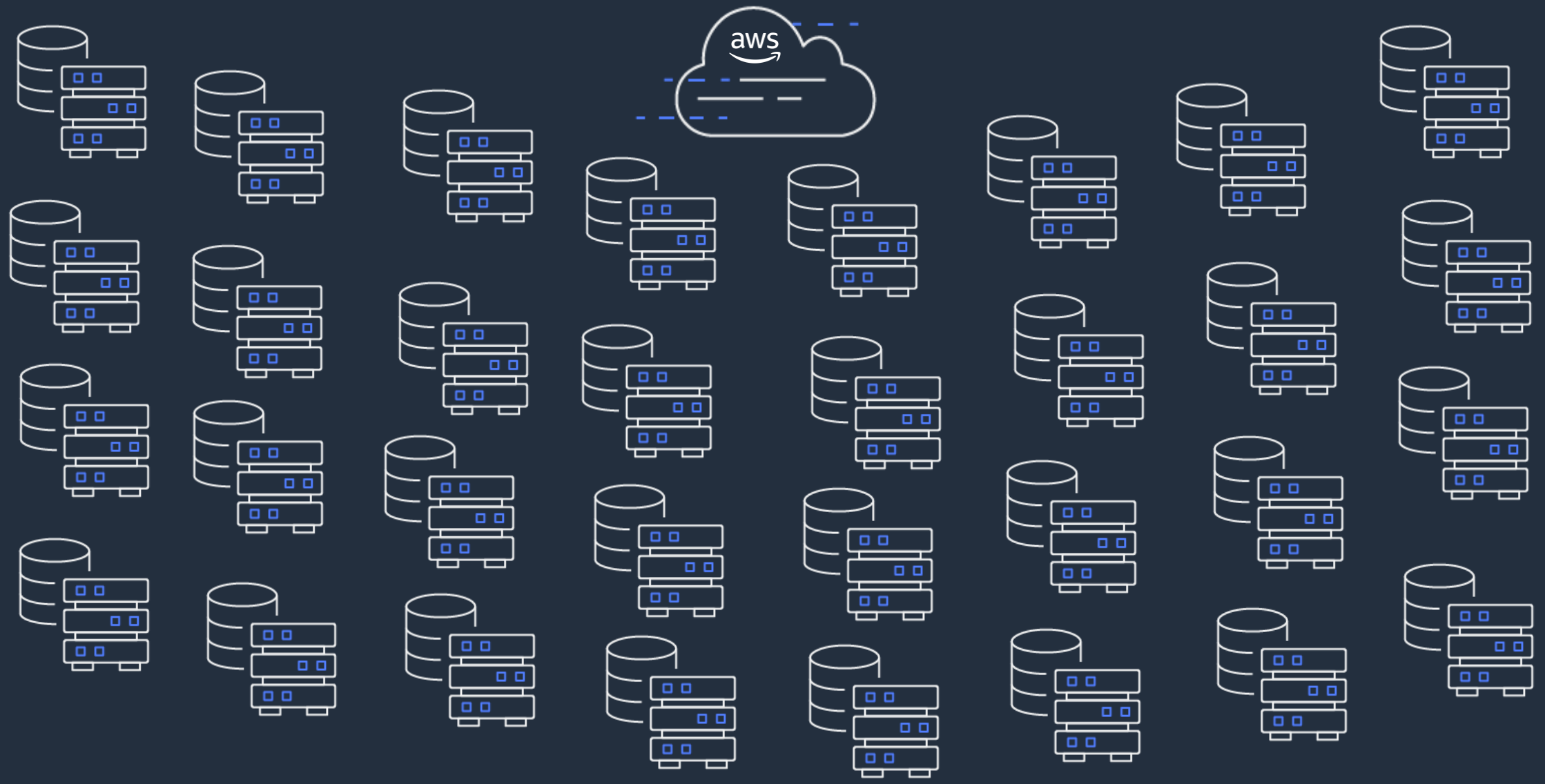
- Guest Speaker - James
  - › Ashish

Business drivers for migration

Business drivers for migration



Enterprise migration projects can be challenging



Application migration strategies

Docker / vMotion

Discover

AWS Application Discovery Service

AWS APPLICATION DISCOVERY AGENT

Linux

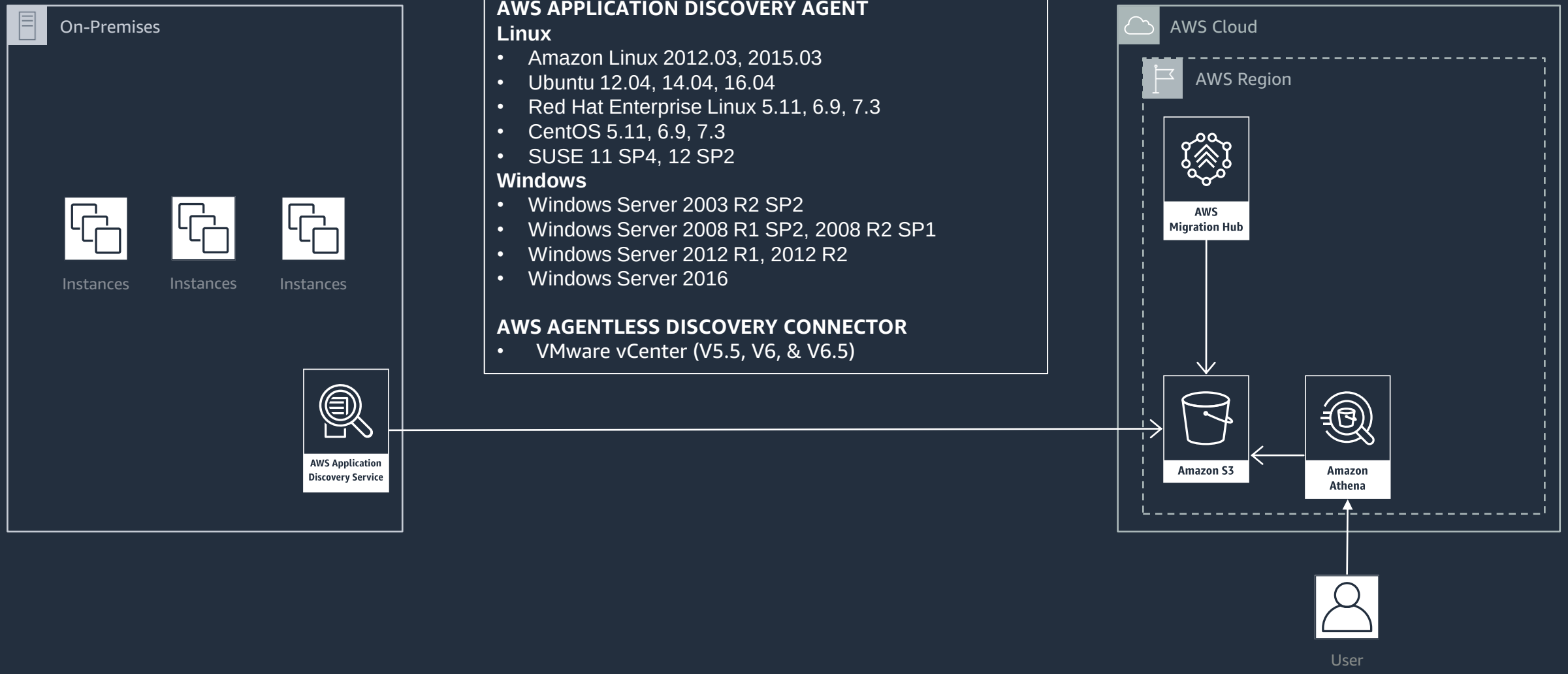
- Amazon Linux 2012.03, 2015.03
- Ubuntu 12.04, 14.04, 16.04
- Red Hat Enterprise Linux 5.11, 6.9, 7.3
- CentOS 5.11, 6.9, 7.3
- SUSE 11 SP4, 12 SP2

Windows

- Windows Server 2003 R2 SP2
- Windows Server 2008 R1 SP2, 2008 R2 SP1
- Windows Server 2012 R1, 2012 R2
- Windows Server 2016

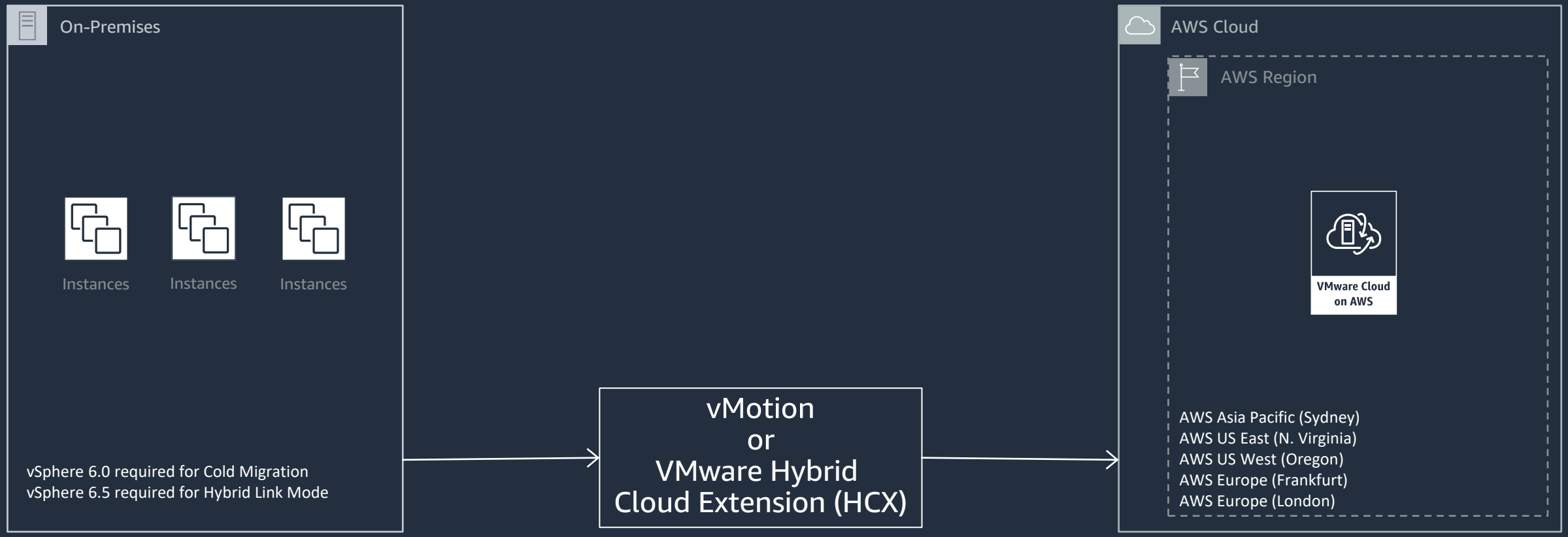
AWS AGENTLESS DISCOVERY CONNECTOR

- VMware vCenter (V5.5, V6, & V6.5)

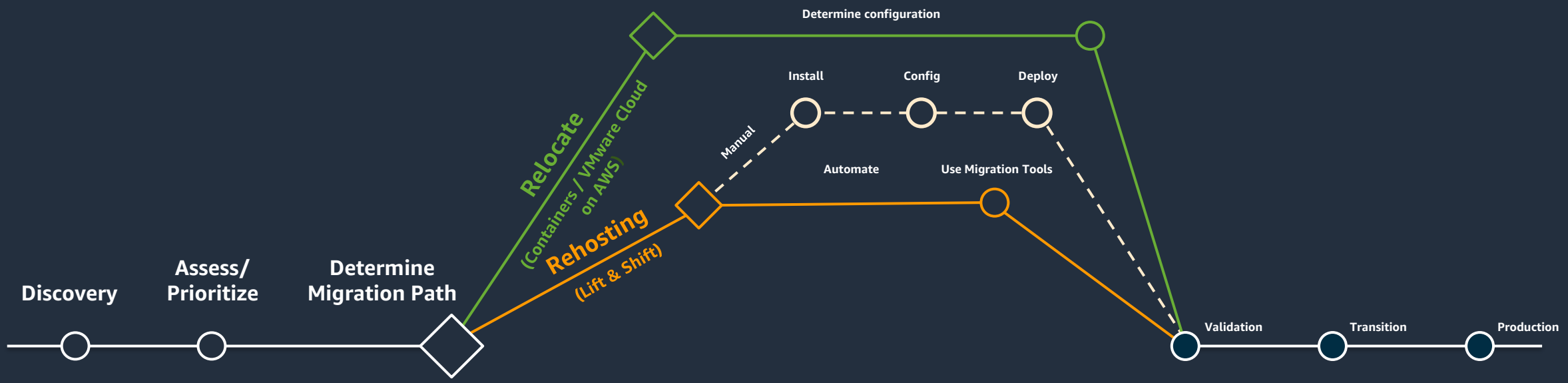


Application migration strategies

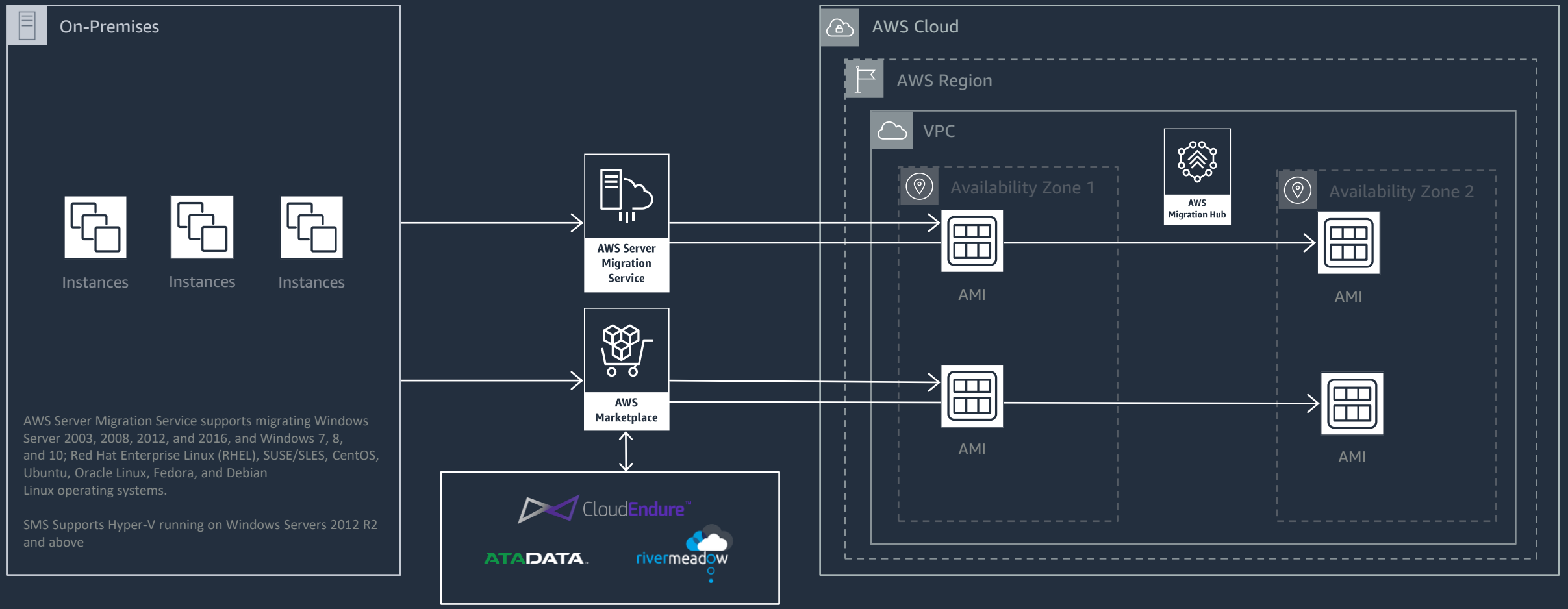
Relocate with VMware



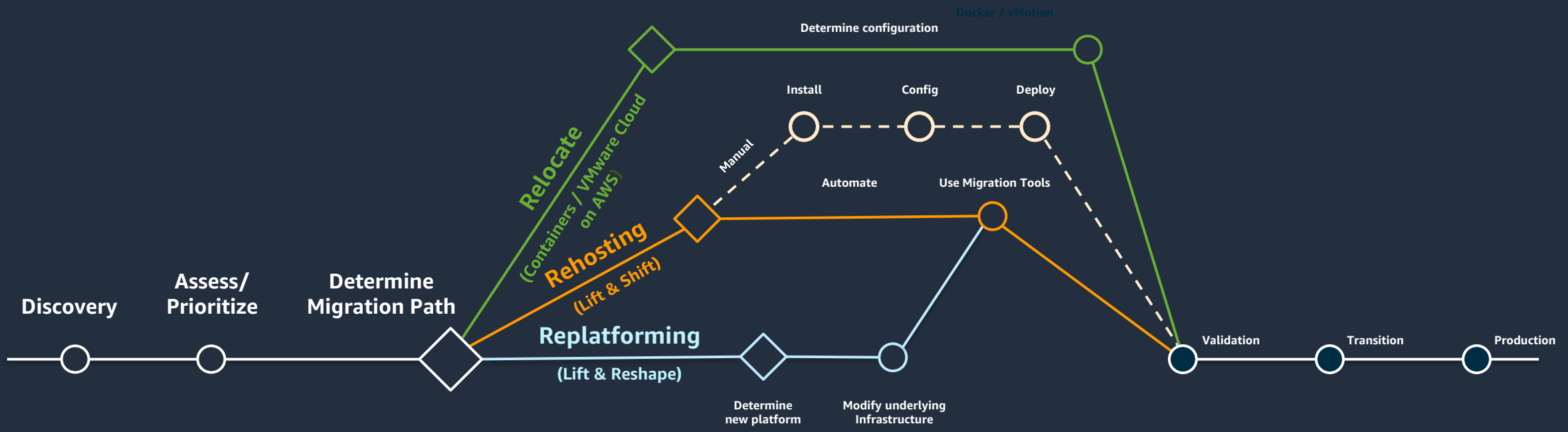
Application migration strategies



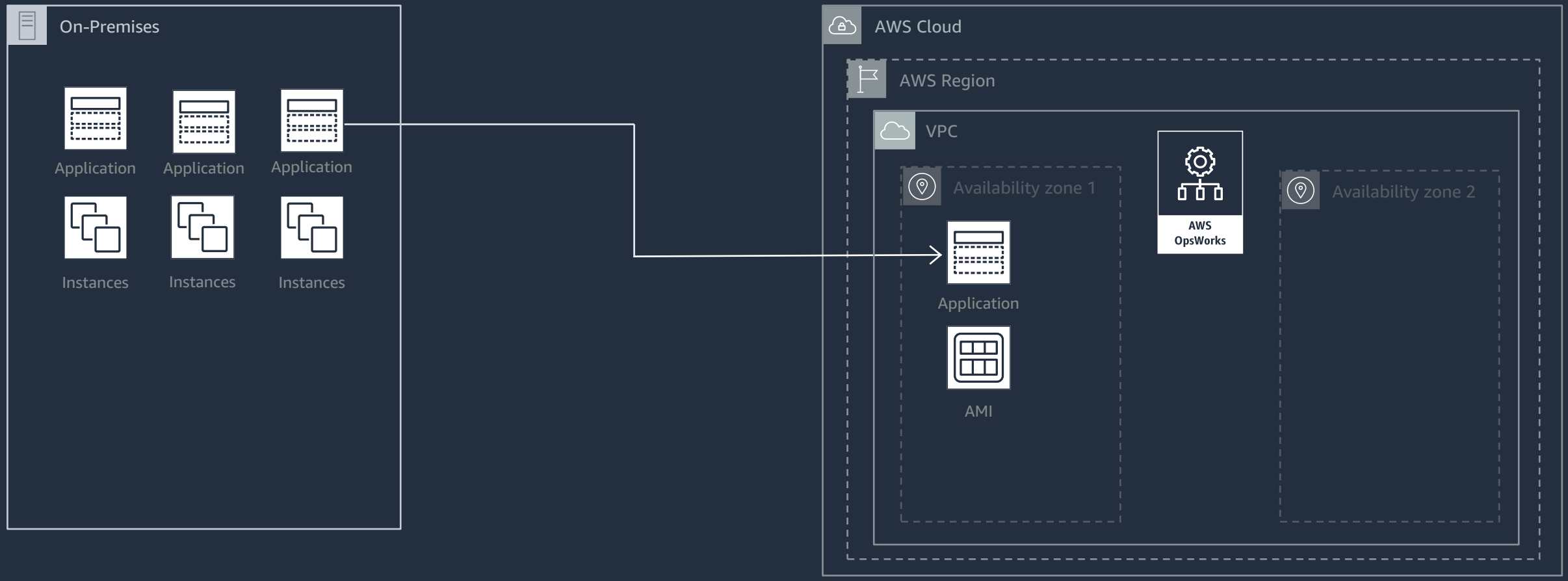
Re-host applications



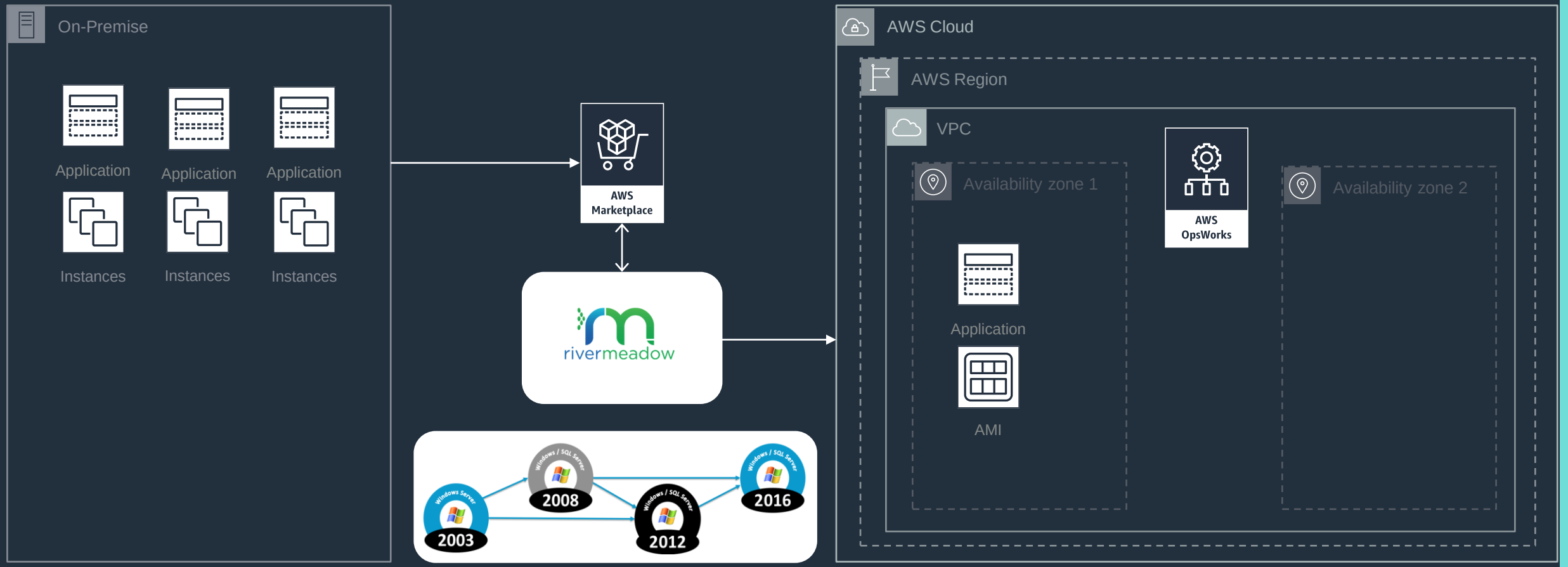
Application migration strategies



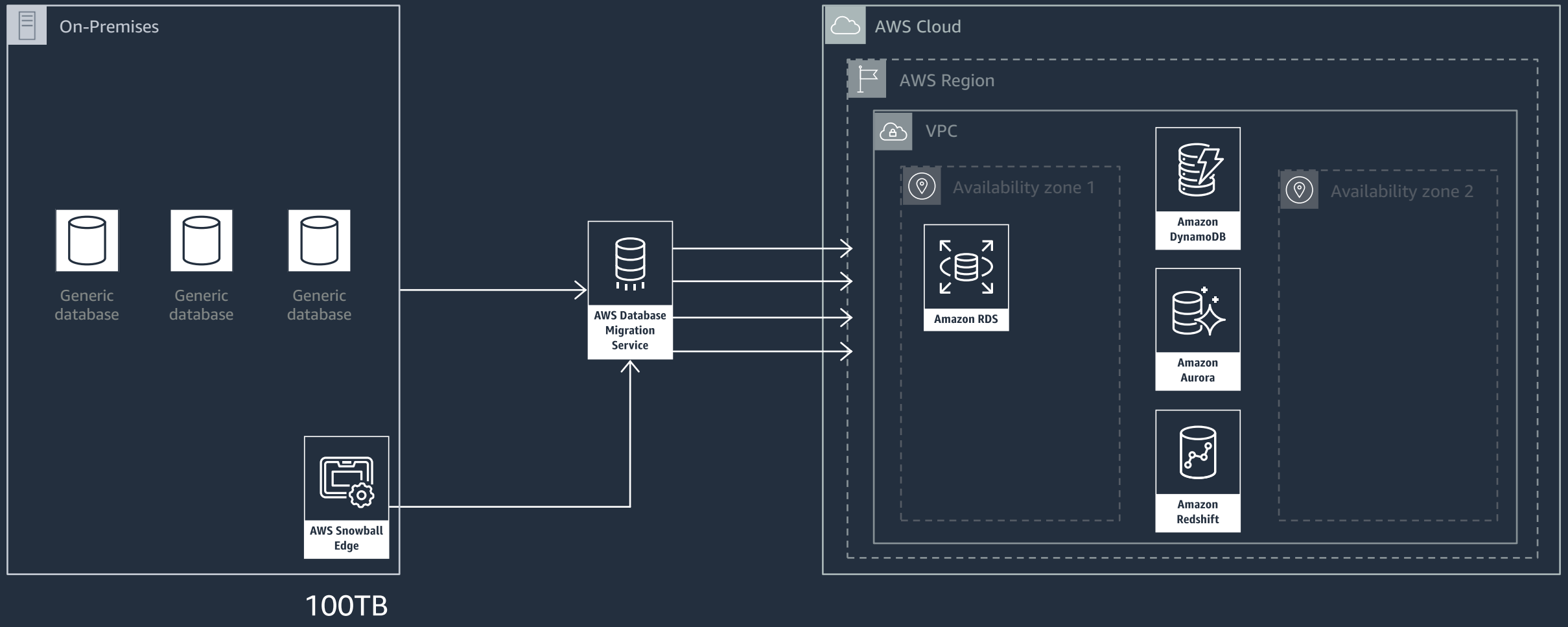
Re-platform


On-Premises
Application
Application
Application
Instances
Instances
Instances
AWS Cloud
AWS Region
VPC
Availability zone 1
Application
AMI
AWS
OpsWorks
Availability zone 2

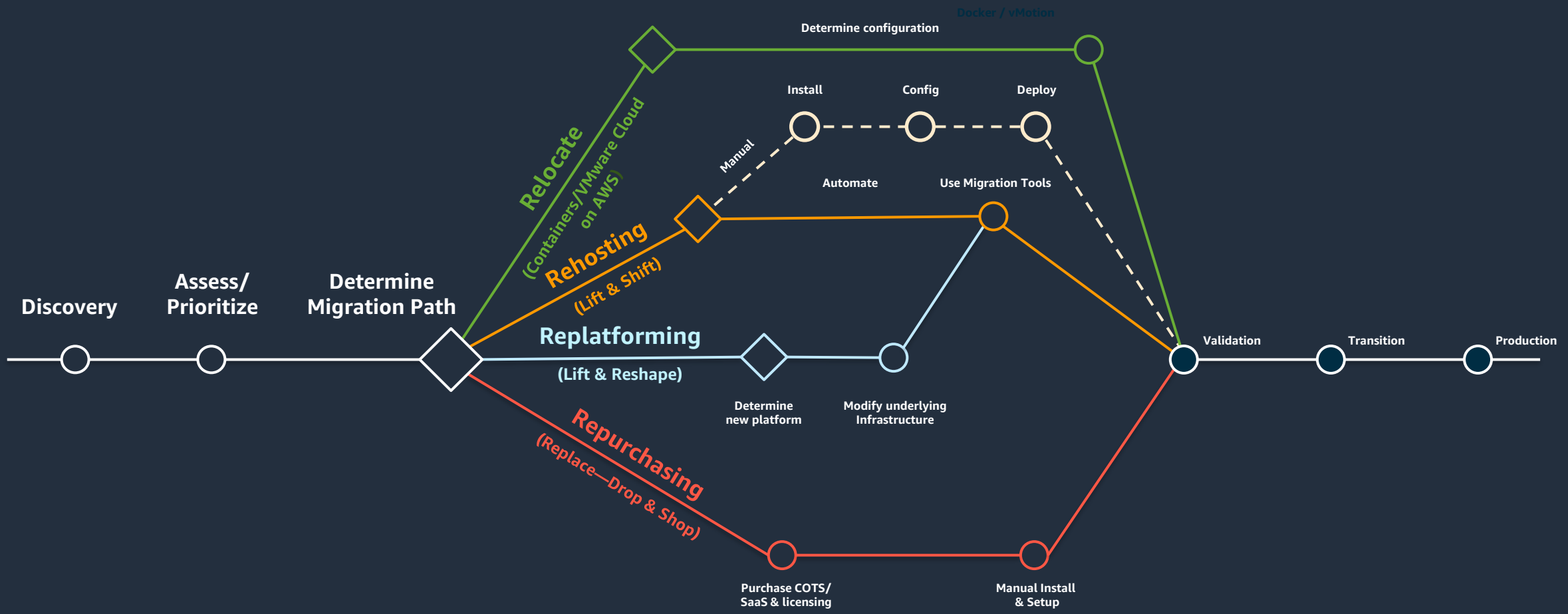
Re-platform Windows and Upgrade



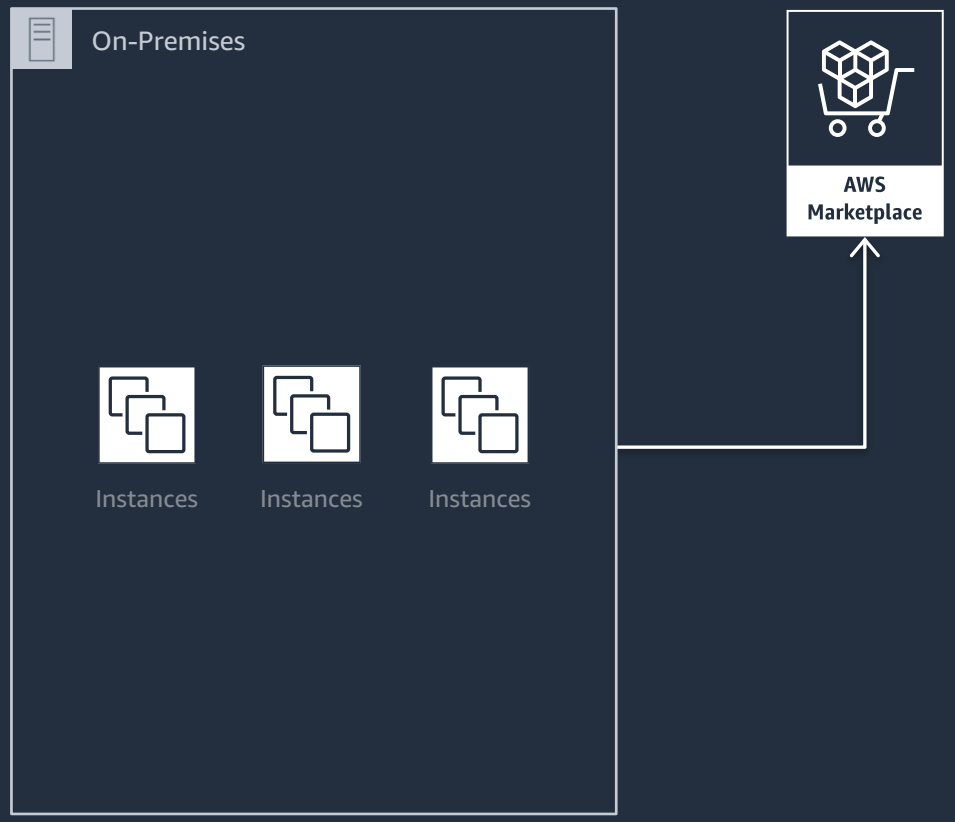
Re-platform databases



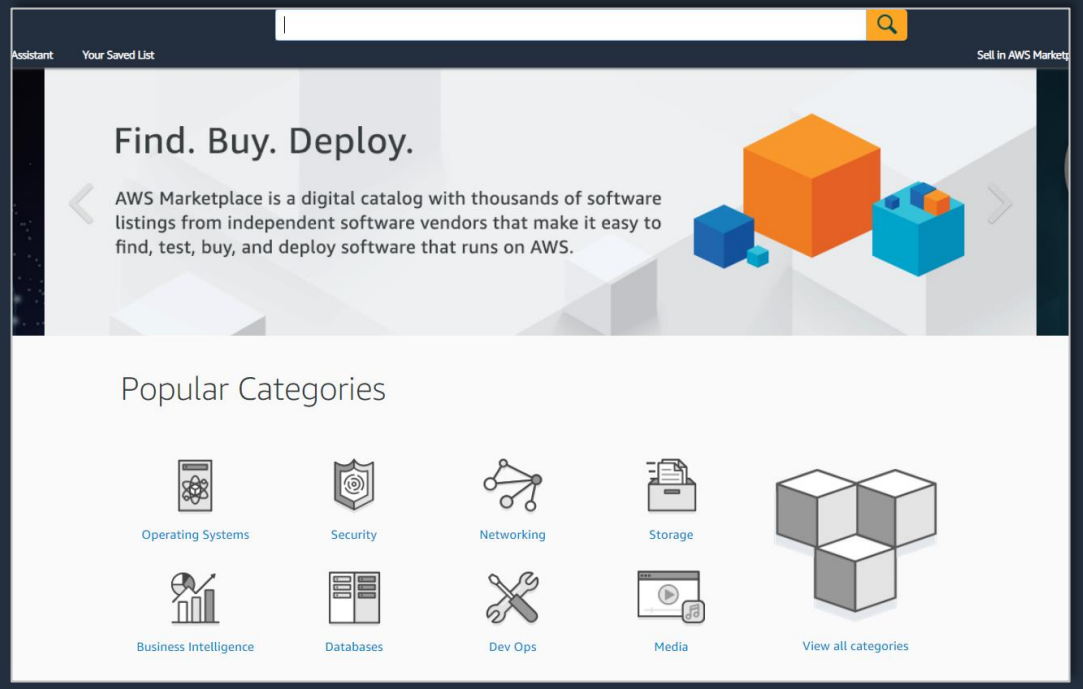
Application migration strategies



Repurchase



Simplifies software migration and provisioning



AWS Marketplace

Simplifies software migration and provisioning

AWS Marketplace

Find, Test, Buy, and Deploy Software In the Cloud

Deploy software on demand

Procure new, BYOL or free Open Source

Tagged, trackable, and metered

1,400+ participating ISVs

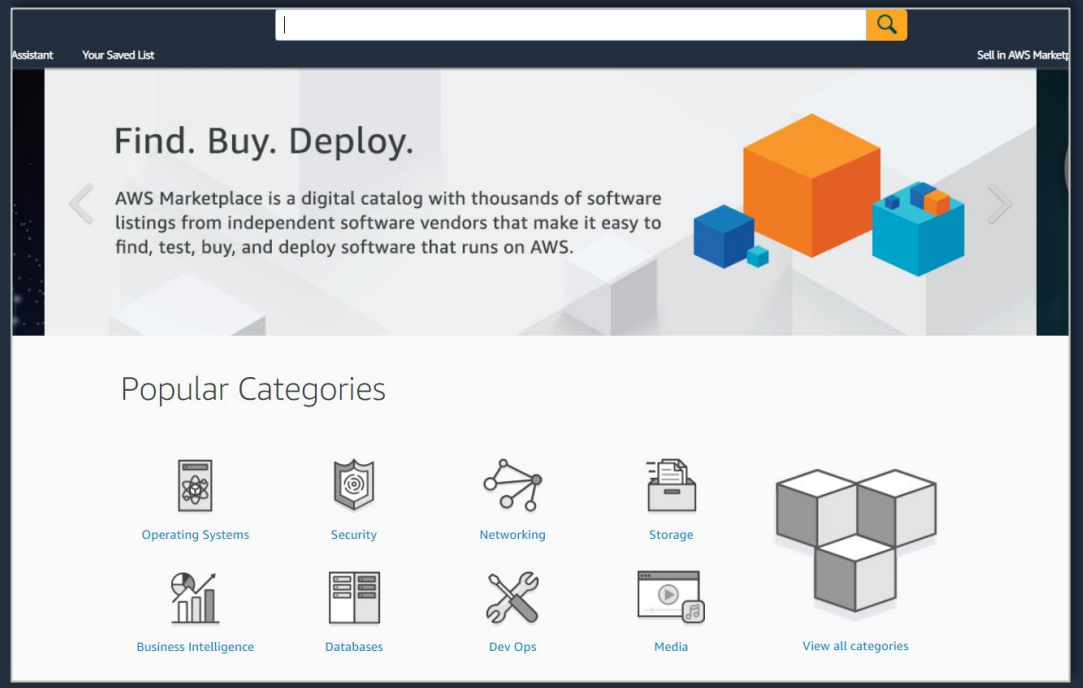
4,200+ product listings

190,000 active customers*

Deployed in 16 regions

Offers 35 categories

Over 570M hours of EC2 deployed monthly*



* as of 9/4/2018

8 Popular categories most often provisioned

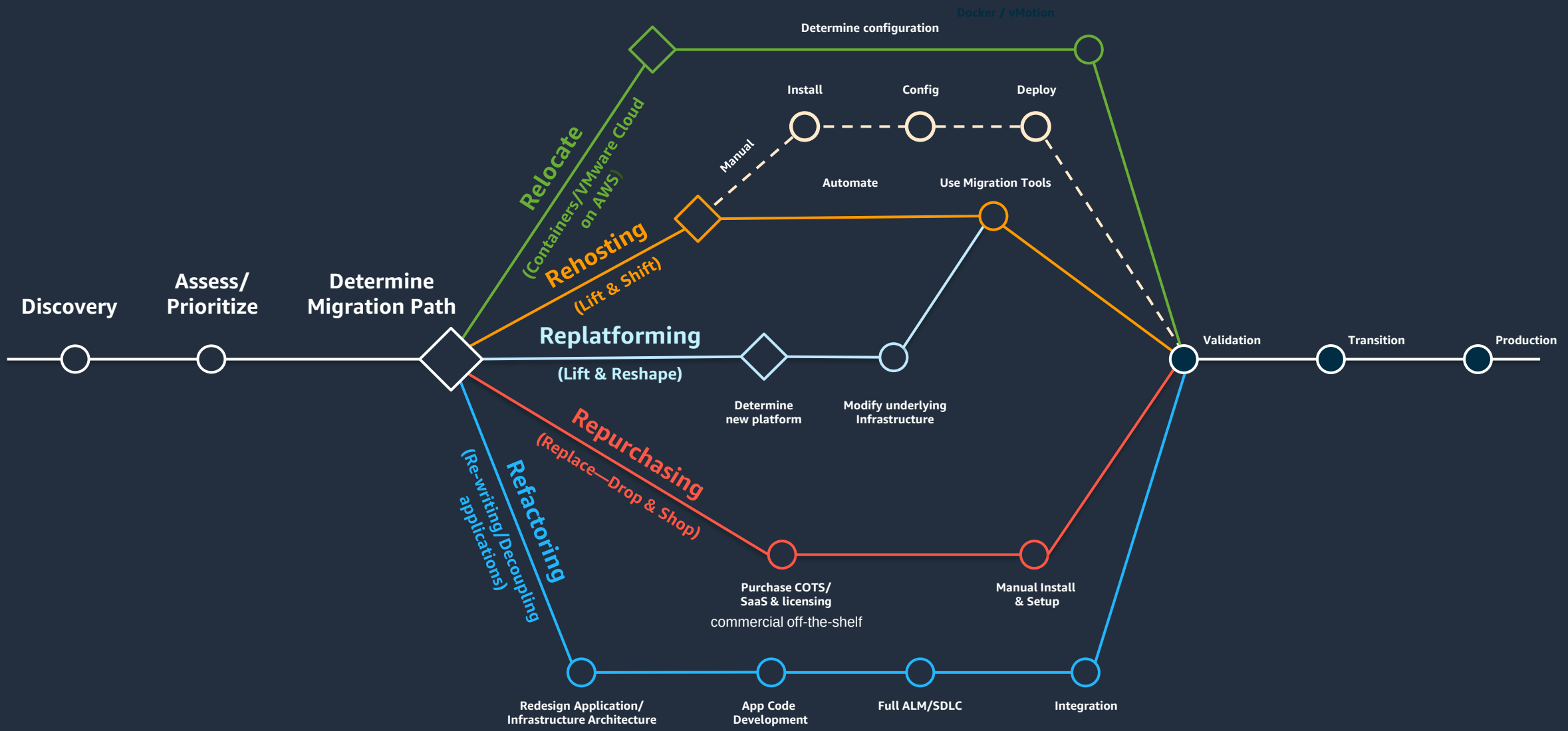
AWS Marketplace

OS	Security	Storage	Networking	Database	SIEM	DevOps	BI
CentOS	TREND MICRO	NetApp	cisco	TERADATA	splunk>	APPDYNAMICS	+ableau
ubuntu	paloalto NETWORKS	druva	f5	SAP	sumologic	ca technologies	TIBCO
debian	CROWDSTRIKE	N2WS a Veeam company	JUNIPER NETWORKS	snowflake	ArcSight An HP Company	New Relic	Qlik
SUSE	Check Point SOFTWARE TECHNOLOGIES LTD.	SoftNAS	CITRIX	VERTICA	ALIEN VAULT	puppet	alteryx
ORACLE Linux	Barracuda	commvault	riverbed	Couchbase		CHEF	MATILLION
Windows	FORTINET	DELL EMC	NGINX	mongoDB.	LogRhythm	MICRO FOCUS	Informatica

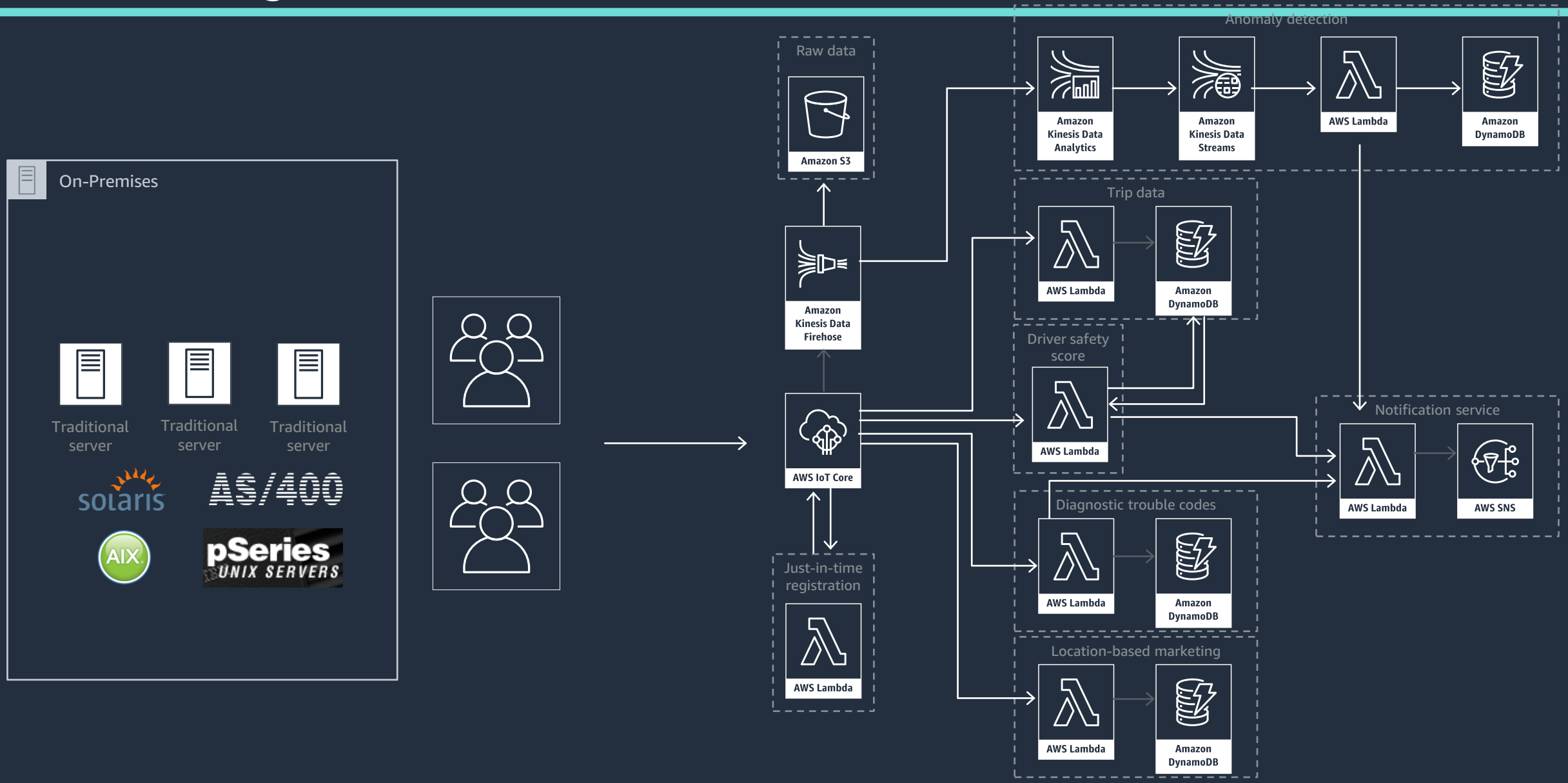
* as of 9/4/2018

35 Categories, 4 Deployment Types (AMI, SAAS, Cloudformation, API), 3 Commerce Models - Free, BYOL, Paid

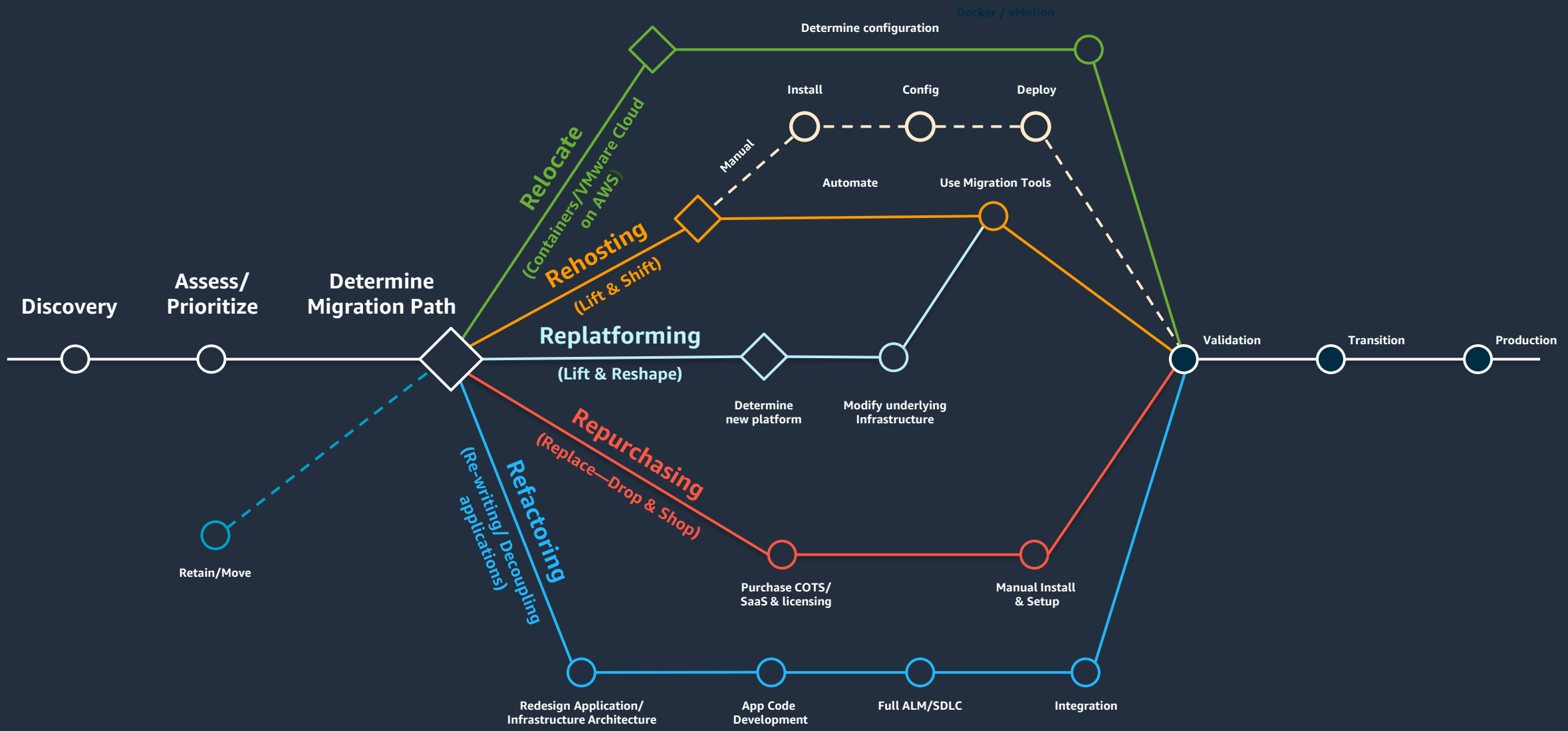
Application migration strategies



Refactoring



Application migration strategies



Retain

On-Premises

Traditional server

Traditional server

Traditional server

solaris

AS/400

AIX

pSeries UNIX SERVERS

Co-lo Such as Connect Direct Partner

Managed Service Provision

On-Premises

Traditional server

Traditional server

Traditional server

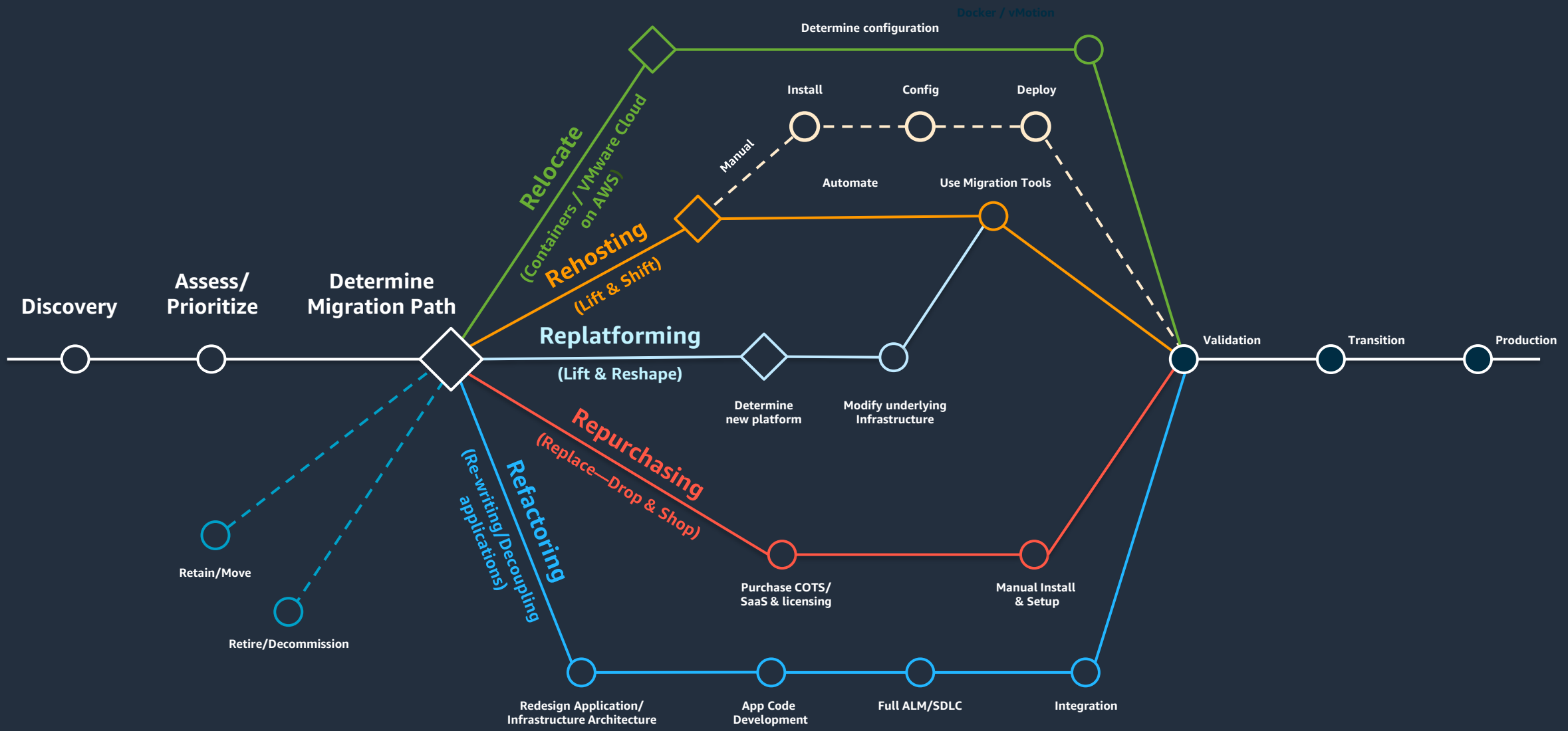
solaris

AS/400

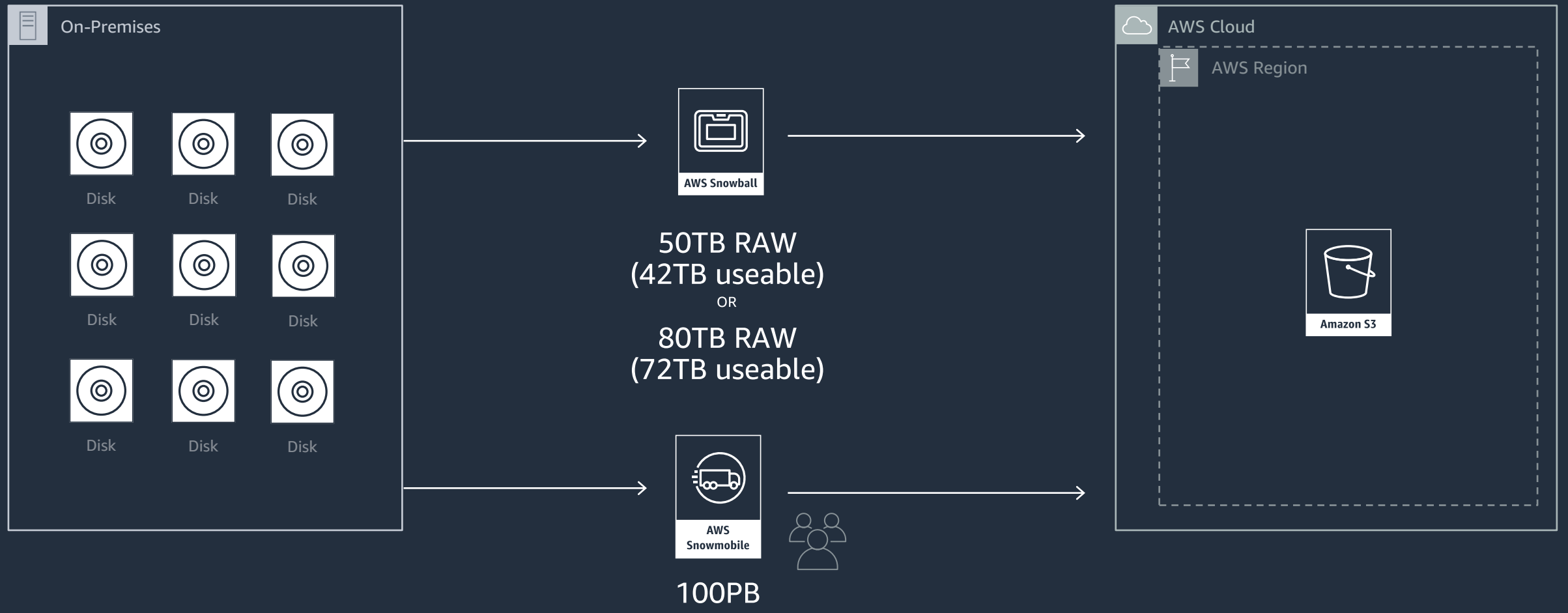
AIX

pSeries UNIX SERVERS

Application migration strategies



Moving vast amounts of data



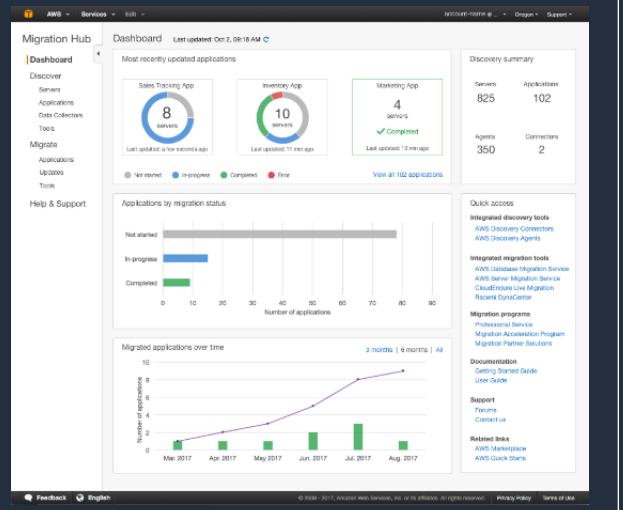
	Pattern description	Percentage
Relocate	As appropriate	TBD
Retire	Application and host decommission on source	10%
Retain	Customer will keep application or move to secure shared facility	5%
Re-Host	Like for Like application migration to target cloud	40%
Re-Platform	Up-Version of the OS and/or Database	30%
Re-Factoring	Application architecture changes to Cloud Native	10%
Re-Purchase	Appropriately leveraging SaaS	5%

70%

Tools to accelerate the journey

AWS Migration Hub

A single location to track the progress of application migrations across AWS and partner solutions



AWS migration services

- AWS Application Discovery Service
- AWS Database Migration Service
- AWS Server Migration Service
- VMware Cloud on AWS

AWS data transfer

- AWS Snowball
- AWS Snowball Edge
- AWS Snowmobile
- AWS Direct Connect
- Amazon Kinesis Data Firehose
- Amazon Kinesis

Inventory	Business case	Deep discovery & planning	App dependency mapping	Workload & data migration	Validation
RISC Networks	Cloudamize	RISC Networks	RISC Networks	ATADATA	New Relic
Cloudamize	TSO Logic	Cloudamize	ATADATA	CloudEndure	dynatrace
ATADATA TSO Logic		ATADATA	New Relic	ATTUNITY	AppDynamics
CloudHealth Technologies		turbonomic	dynatrace AppDynamics	rivermeadow CLOUDVELOX	
turbonomic					

Partners to help you migrate

- AWS Migration Competency Partners (40+)
- Established AWS migration practice
- Current Managed Services or DevOps Competency

- At least Advanced level AWS Consulting partner
- AWS certifications and certified consultants
- Audited annually against competencies

https://aws.amazon.com/migration/partner-solutions/

Serverless Track

- James Eastham

Guest Speaker

Aisha

- Ashish & James

Thank you.

See you next week.