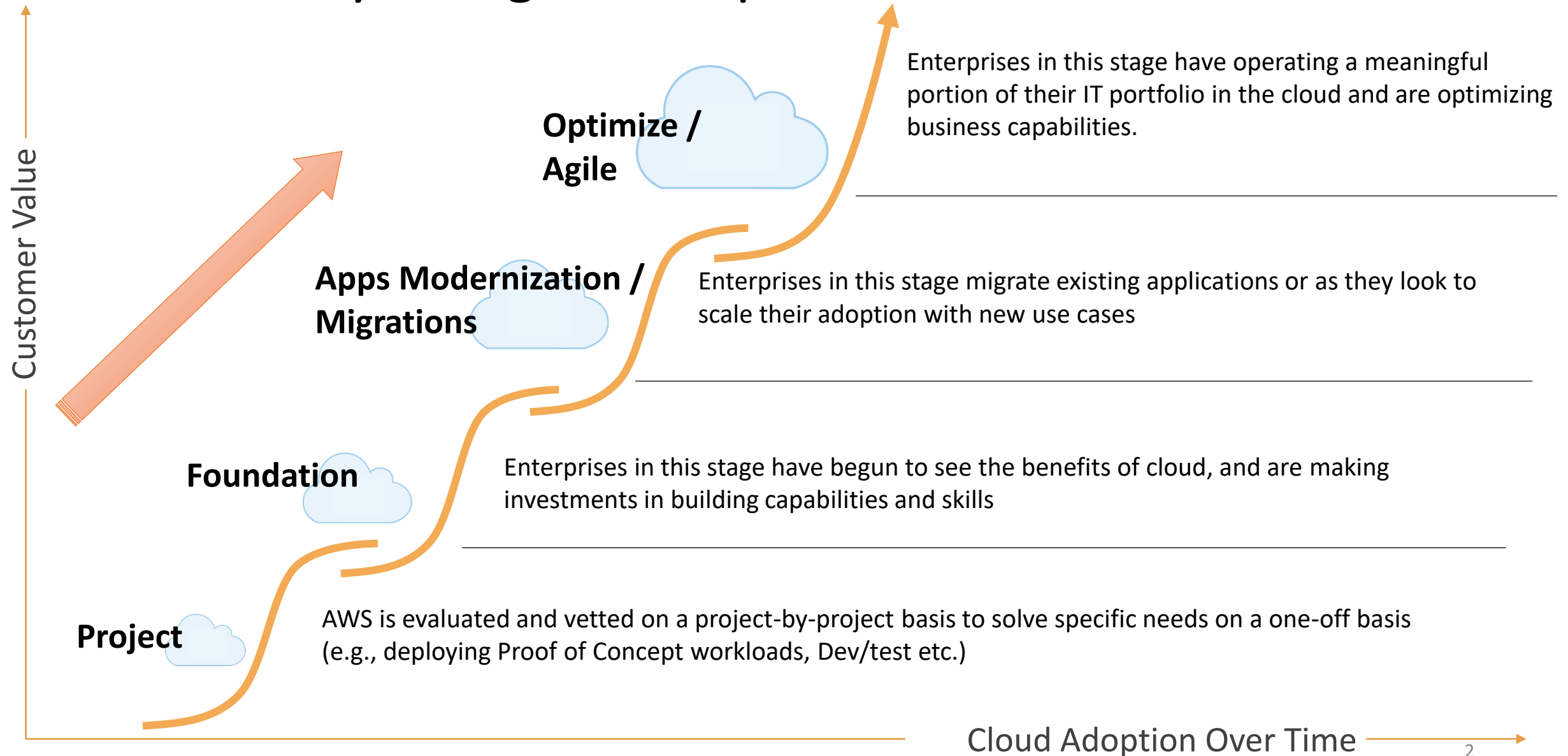


AWS Migration Program Overview



Joe Healy, Umar Mohammad
AWS Professional Services

Cloud Journey – Stage of Adoption



AWS Migration Program— how it evolved

Based on field lessons learnt, customer feedback & questions from our customers

- How should I plan or manage a transition like this?
- The value proposition is increasingly positive, but migrating existing assets is difficult
- I am not achieving my goals of Cloud usage (cost, agility, operational efficiency etc.)
- Who can help me? Where do I start?
- I am not really sure what I have in my data center, What should I do?
- Our teams are all over the place. How can we correct the course?
- Are we using the right processes & tools?
- How long should it take?
- Is there an 'easy button' to press?

How does AWS defines Foundational Capabilities

Targeted migrations

New applications

DR/Backups

Migrations at scale

Re-platforming / Re-architecting

Development & Test environments

Burst Computing

Specialized compliance requirements

Others

Business Foundations

Business Alignment

Governance@Scale – Cost Mgmt., Account Mgmt., Compliance

People – Training/Skills

Technical Foundations

Landing Zones

Security

IT Operations Model

MAP Migration Methodology



Migration Readiness Assessment

Total Cost of Ownership

Rapid Discovery

TCO Report



App Discovery & Planning

Landing Zone

Operating Model

Security & Compliance

Business Case

Skills / CoE

Migration Plan

Migration Expertise



Migrate

Operate

Optimize

MRP Timing: 2 - 6 Months, Partner, and/or AWS ProServe consulting project

Cloud Readiness Assessment









6

perspectives

1

week

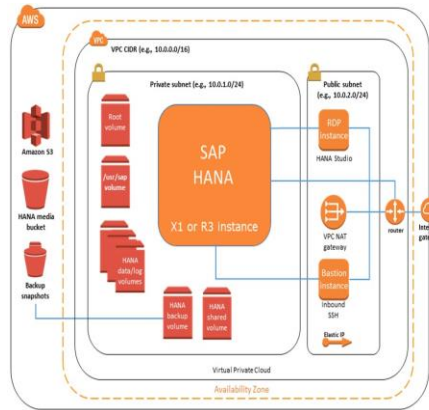
AWS Cloud Adoption Framework

CAF Perspective		MRP Work Stream		Readiness Activities	Summary Observations & Actions
<div>  BUSINESS <div style="font-size: 24px; font-weight: bold;">14</div> </div> <div>  PEOPLE <div style="font-size: 24px; font-weight: bold;">10</div> </div> <div>  GOVERNANCE <div style="font-size: 24px; font-weight: bold;">8</div> </div>	<div>  PLATFORM <div style="font-size: 24px; font-weight: bold;">10</div> </div> <div>  SECURITY <div style="font-size: 24px; font-weight: bold;">9</div> </div> <div>  OPERATIONS <div style="font-size: 24px; font-weight: bold;">12</div> </div>	Business	Business Case	High Level Business Case	Strengths: Federated IT, clear IT strategy, Leadership commitment to cloud, well-defined scope for initial set of applications. MRP Actions: Develop high-level business case and simple TCO analysis.
				Key Stakeholder Sign-off	
				Migration Funding Commitment	
				Specific Migration Workloads Committed	
				Detailed Business Case	

- Focuses on determining customer's readiness for cloud journey
- Identifies necessary foundational capabilities gaps that must be in addressed for smooth operational efficiencies
- AWS provides detailed report on customer's readiness and recommended next steps

Cloud Readiness & Planning - Outcomes

1. Landing Zone



• LZs Design

- Account structure
- Network design including VPC, VPN, DX, & multi-region
- Controlled Identity and Access Mgmt.

2. Security and Compliance

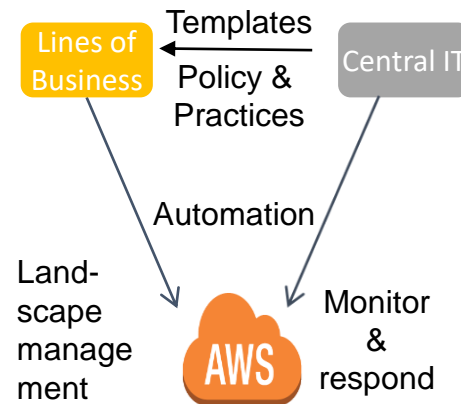


• Security Responses playbook

• Security, Risk, and Compliance models

- Preventive measures to protect & mitigate threats
- Inspect & Detect Infractions
- Remediate to standards

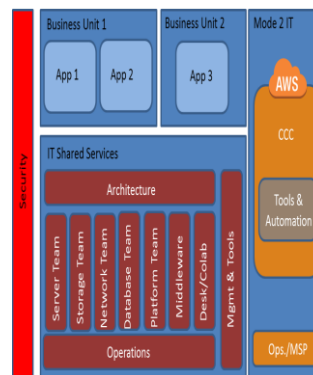
3. Cloud Operating Model



• Operational Runbooks

- Monitoring
- Patching
- Backups
- Others

4. People & Skills / Governance at Scale



• Governance at Scale

- Financial Cost Mgmt.
- Account Mgmt.
- Security and Compliance

• Training Plans

- Key roles determined, training performed to build knowledge
- Experience built with actual AWS work

5. Applications Portfolio Discovery



• Applications details

- Dissecting the Datacenter
- Defining Application Patterns and Grouping
- Application Design Process
- Initial backlog of applications ready to migrate

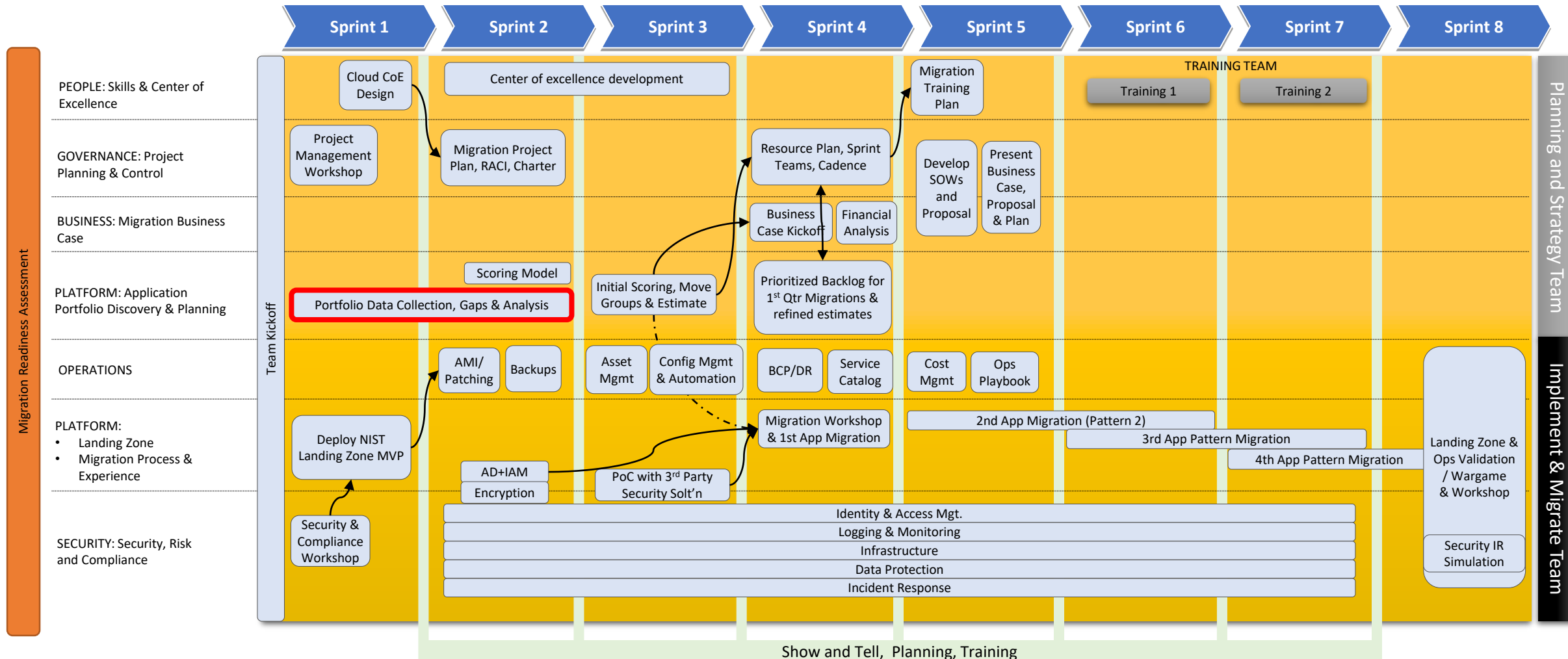
6. Migration / New Use Cases



• Migrations

• Develop new apps

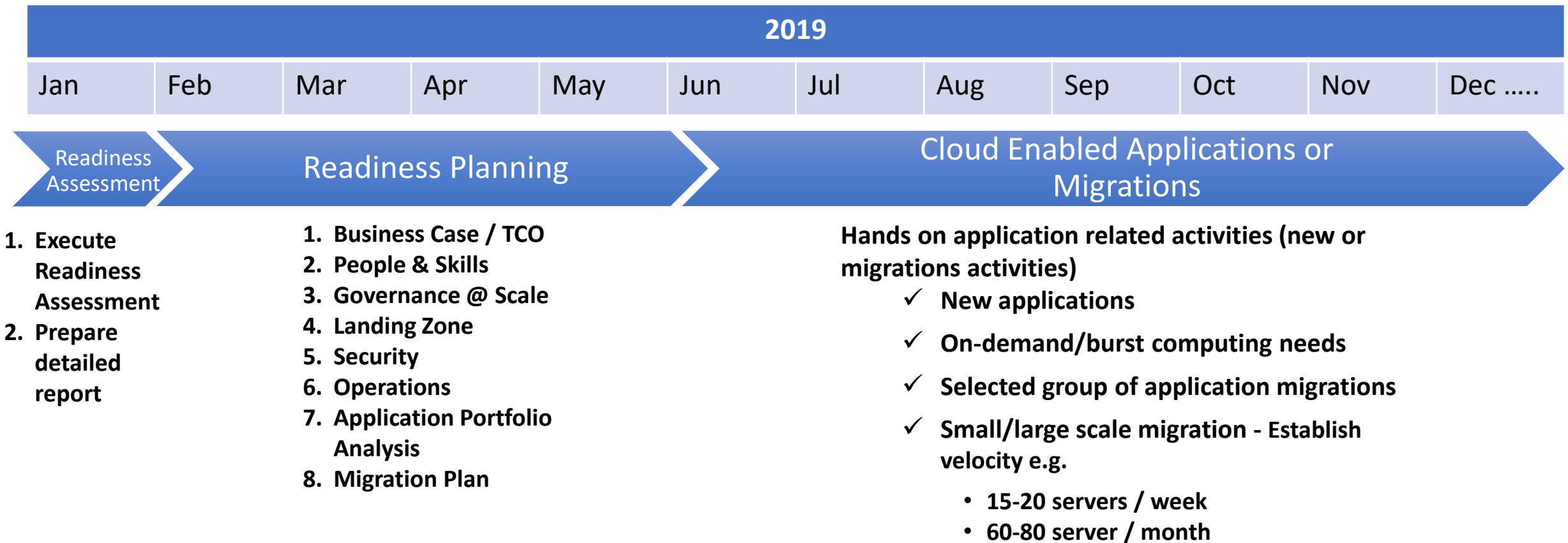
Engagement Delivery Framework (EDF)



Application Migration Patterns – The 6 ‘Rs’

Pattern	Description	Examples
Retain	This is the “do nothing” option. Legacy costs remain and obsolescence costs typically increase over time	Non x86, Mainframe, Physical dependencies
Retire	Decommission and archive data as necessary	EOL plan already in place
Rehost	“Lift and Shift” or “Forklifting.” Automated and scripted migrations are highly effective	P2V, V2V, Modern x86 OS
Repurchase	Either a replacement through procurement, or/and upgrade	SaaS, PaaS, COTS
Replatform	Opportunities to address significant infrastructure upgrades can be realized which positively affects compliance, regulatory and obsolescence drivers	Legacy OS/App/DB upgrades, Managed Service (RDS)
Refactor	Re-architecting and recoding require investment in new capabilities. Potentially significant business disruption	Autoscaling, Decoupled,

Sample – Plan Execution



Delivery Model

1. AWS + Partner jointly deliver (recommended)
2. Partner led
3. AWS led

** Partner can be customer preferred or one of AWS migration competency partner **

Thank You

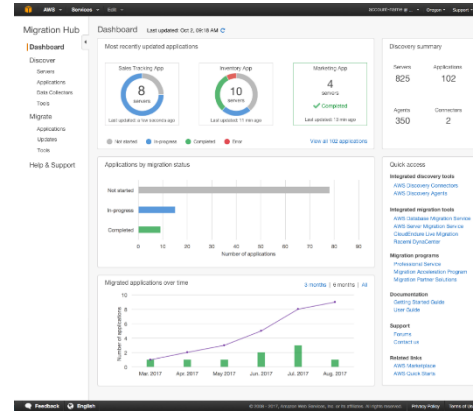


Tools to Accelerate Migrations

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 Server Migration Service
- AWS Database Migration Service
- AWS Schema Conversion Tool
- VMware Cloud on AWS

AWS DATA TRANSFER

- S3 Transfer Acceleration
- AWS Storage & File Gateway
- AWS Snowball & Snowmobile
- AWS Direct Connect
- Amazon Kinesis Firehose

Inventory



Business Case



Deep Discovery & Planning



App Dependency Mapping



Workload & Data Migration



Validation

