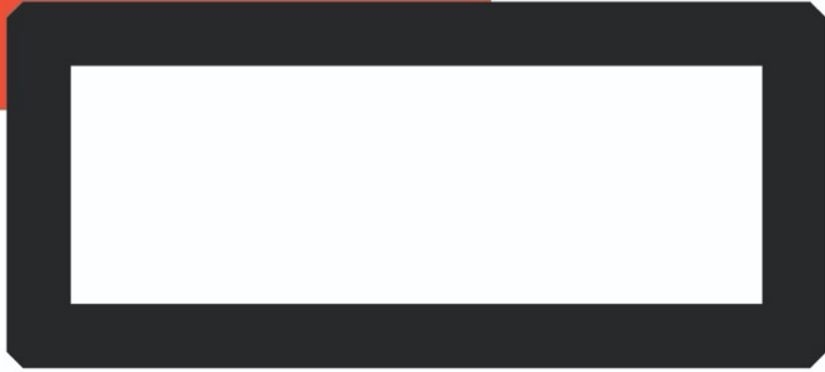




# Migration Strategy v1

## Sample CIO Deck

Feb 2020

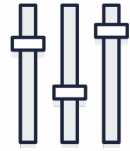


# Customer Objectives

# Customer – Outcomes



## Enabling Technologies



## Metrics



## Stakeholders



## Business Outcomes / Goals

Migrate workloads to cloud where practical, consider Outpost where latency constrains

Migrate Database to RDS where possible, or migration to EC2 standard machine images.

Adopt DevOps for key business applications. Implement Continuous Integration / Continuous Deployment

Investigate machine learning / AI for associating advertising with content

Establish Cloud foundation team

# KPIs not met

# New services to clients

% Employee Attrition

# Processes Automated

# Human time to deploy/fix

Business Application Teams

CTO

CIO

3<sup>rd</sup> Party Providers

Accelerate speed of change. Implement business requested change within 6 weeks

Reduce Total Cost of Ownership by XX%

Address obsolescence whilst optimizing CAPEX spend.

Broadcast are looking to vacate existing data centre

Address technical risk for mission critical applications

Address short term technical debt

Development and adoption of a Cloud First strategy, allowing growth of services available

Improve Innovation

Reduce Cost

Enable Regionalisation, reduce location independence

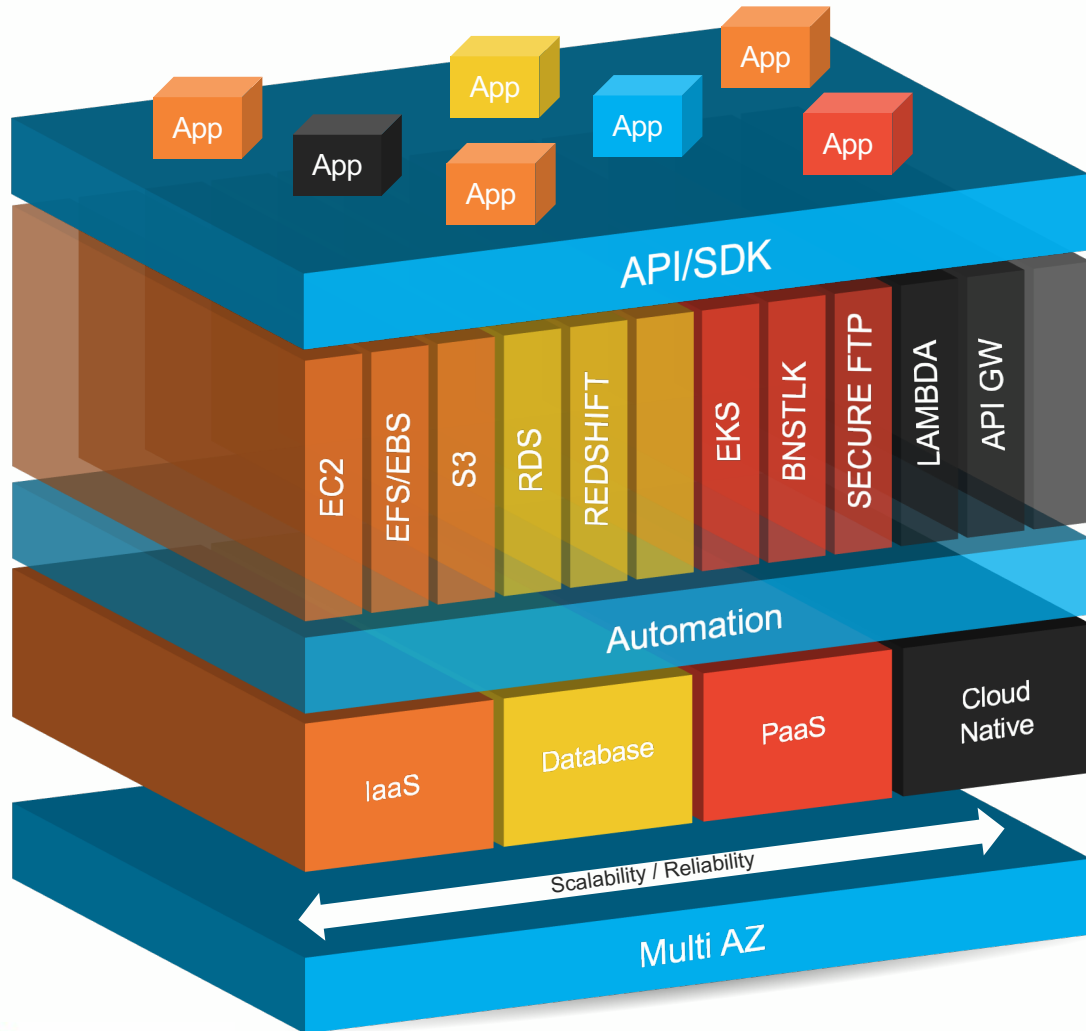
# Key Metrics

Metric Name	Importance	Description
Remove technical debt	High	<ul style="list-style-type: none"><li>• Re-host and Re-platform applications from existing hardware and underlying data centre fabric</li></ul>
Database to DBaaS	Medium	<ul style="list-style-type: none"><li>• Consolidation of databases onto a more cost effective underlying infrastructure platform.</li><li>• Opportunity to consolidate onto low cost database as a service solution.</li></ul>
Application to PaaS	Medium	<ul style="list-style-type: none"><li>• Explore specific use-cases where the application or COTS product can run on a standard PaaS platform/build.</li></ul>
Application to Serverless	Medium	<ul style="list-style-type: none"><li>• Explore specific use-cases</li></ul>



# Target State

# Target Cloud Services Architecture



- **Business Applications**

- **API/SDK**

- Access for applications to consume platform services

- **AWS Service Catalogue**

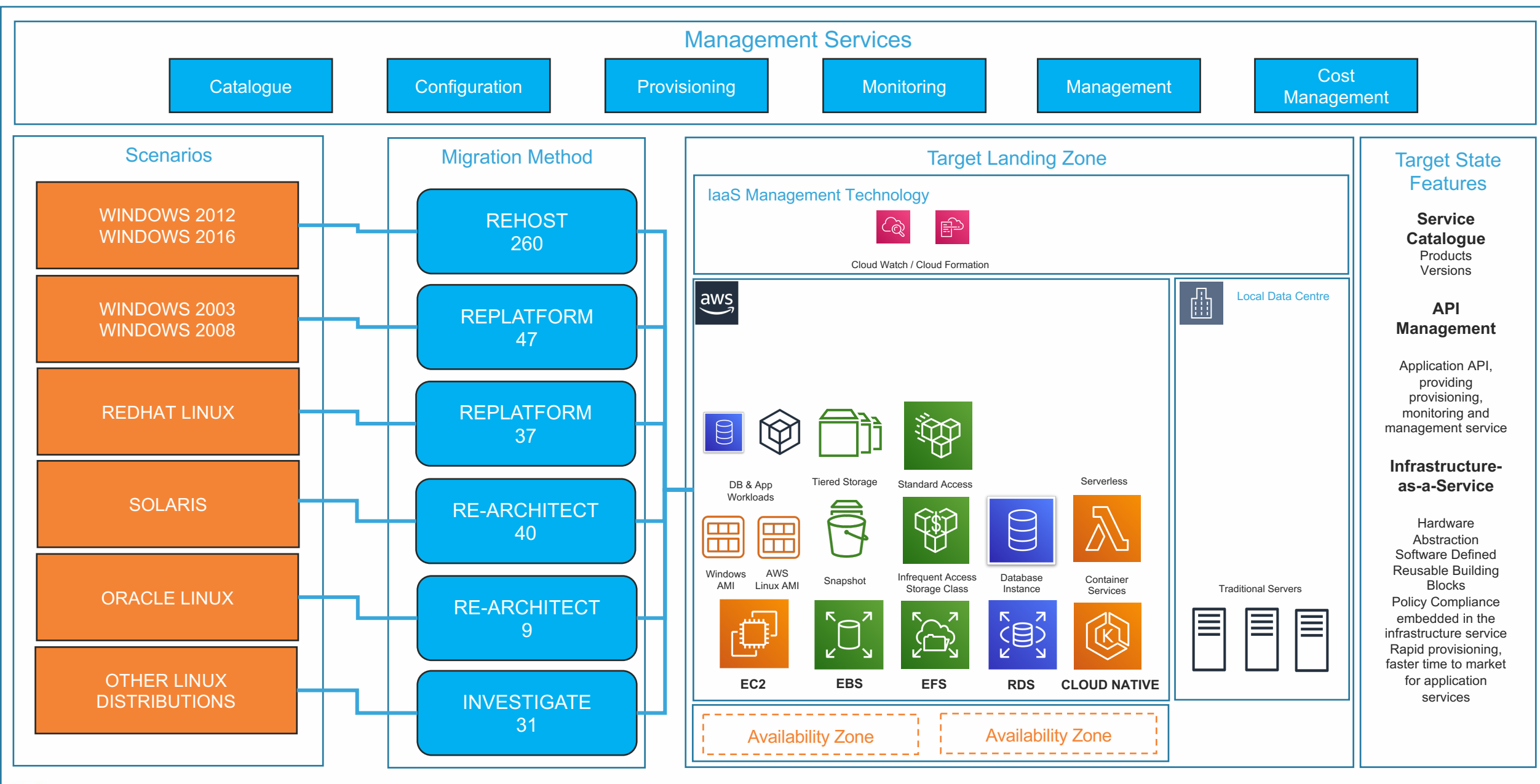
- Portfolio
- Products
- Versions
- Access Management
- Constraints

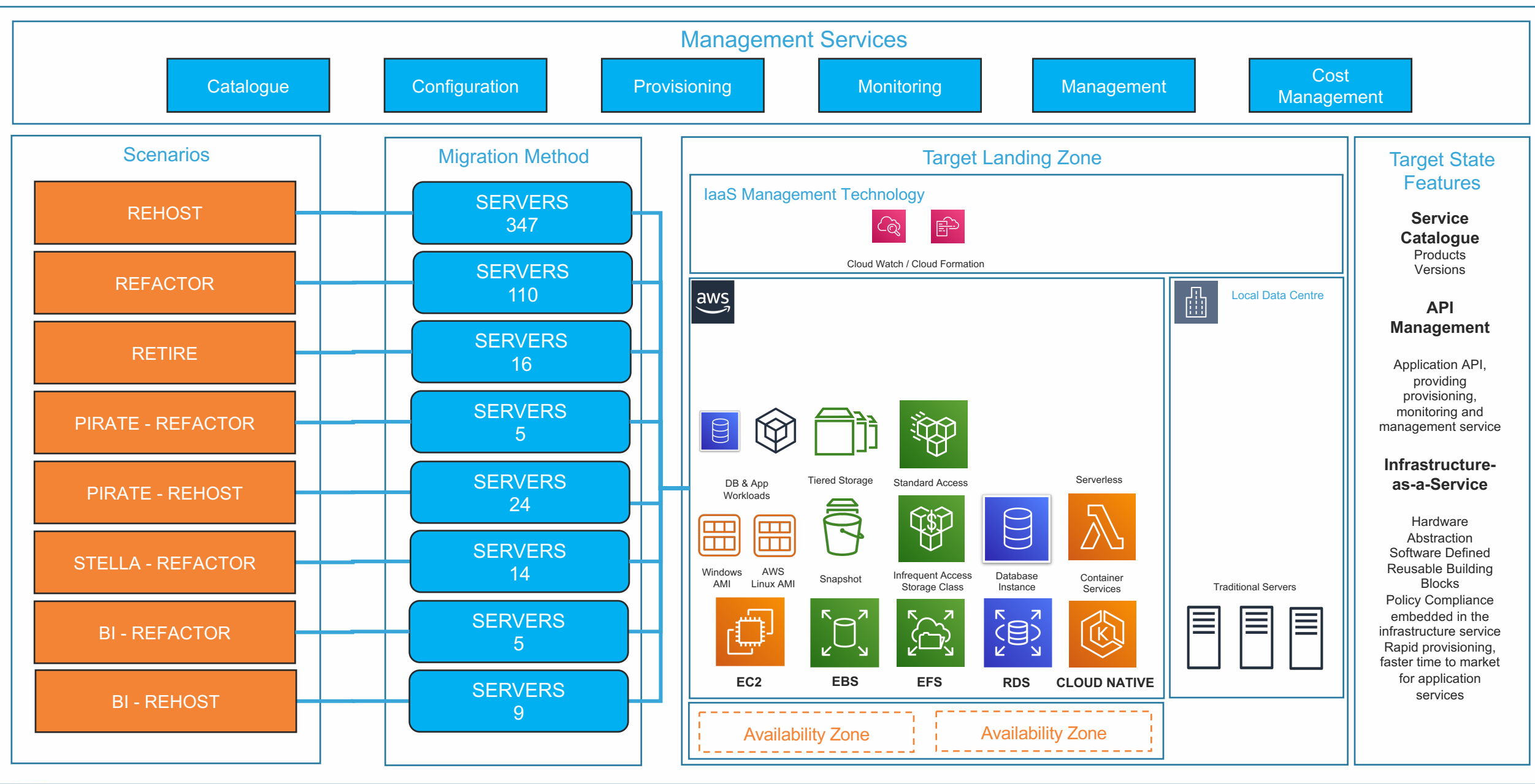
- **Automation**

- CloudFormation
- Build Templates

- **Cloud Infrastructure**

- Scalability
- Reliability via software defined network and data centre fabric








# Standard Migration

## Short Term 2020

 **Rehost EC2 (Pilot Wave)**  
*Pilot wave of Re-Host compliant workloads to EC2.*

 **T5 obsolescence removal**  
*AWS Outpost or existing VMWARE cloud with replacement storage.*

Today


 **RDS**  
*Introduction of database services allowing application teams to move away from on-premise solutions.*

 **Cloud Centre of Excellence  
Cloud Enablement Engine**  
*Cloud Business Office  
Cloud Platform Engineering*


 **ESX 6.0 EOSL**  
*2020-03-12*


## Mid Term 2021


 **Rehost to EC2**  
*Rehost VMWARE based images to EC2 using Cloud Endure, reducing on premise VMWARE spend.*

 **Infrastructure Automation**  
*Increased adoption of infrastructure automation services from AWS, cloud formation and automated testing of infrastructure builds.*

## Long Term 2022+

 **Application Refactors**  
*Core business applications refactored and migrated to cloud services.*

 **T5-2 EOSL**  
*2022-05-31*

 **Business Intelligence Migration**  
*Migration from Oracle database platform to RedShift making use of AWS data pipeline services.*

 **Solaris 11**  
*2034-11-01*

Goal

# Accelerated Migration

## Short Term 2020



### Rehost EC2 (Pilot Wave)

Pilot of Rehosting migration pattern using Cloud Endure



### T5, 3PAR & NetApp mitigation

Purchase extended support contracts for hardware platforms reaching EOSL.

Today



### RDS

Introduction of database services allowing application teams to move away from on-premise solutions.



### Cloud Centre of Excellence Cloud Enablement Engine

Cloud Business Office  
Cloud Platform Engineering



### ESX 6.0 EOSL

2020-03-12

## Mid Term 2021



### Rehost to EC2

Rehost VMWARE based images to EC2 using Cloud Endure, reducing on premise VMWARE spend.



### Infrastructure Automation

Increased adoption of infrastructure automation services from AWS, cloud formation and automated testing of infrastructure builds.



### Business Intelligence Migration

Migration from Oracle database platform to RedShift making use of AWS data pipeline services.

## Long Term 2022+



### Application Refactors

Core business applications refactored and migrated to cloud services.



### T5-2 EOSL

2022-05-31



### Solaris 11

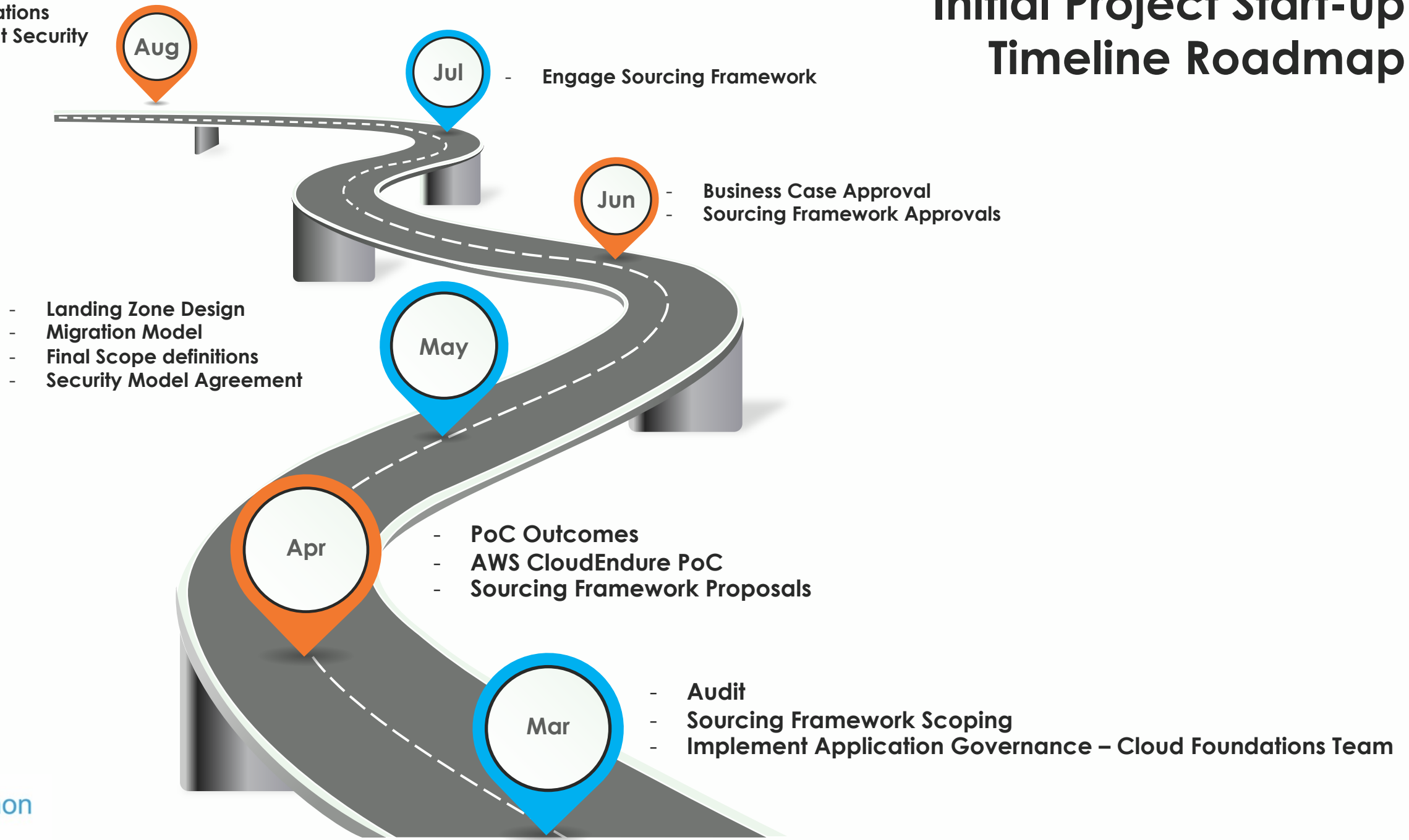
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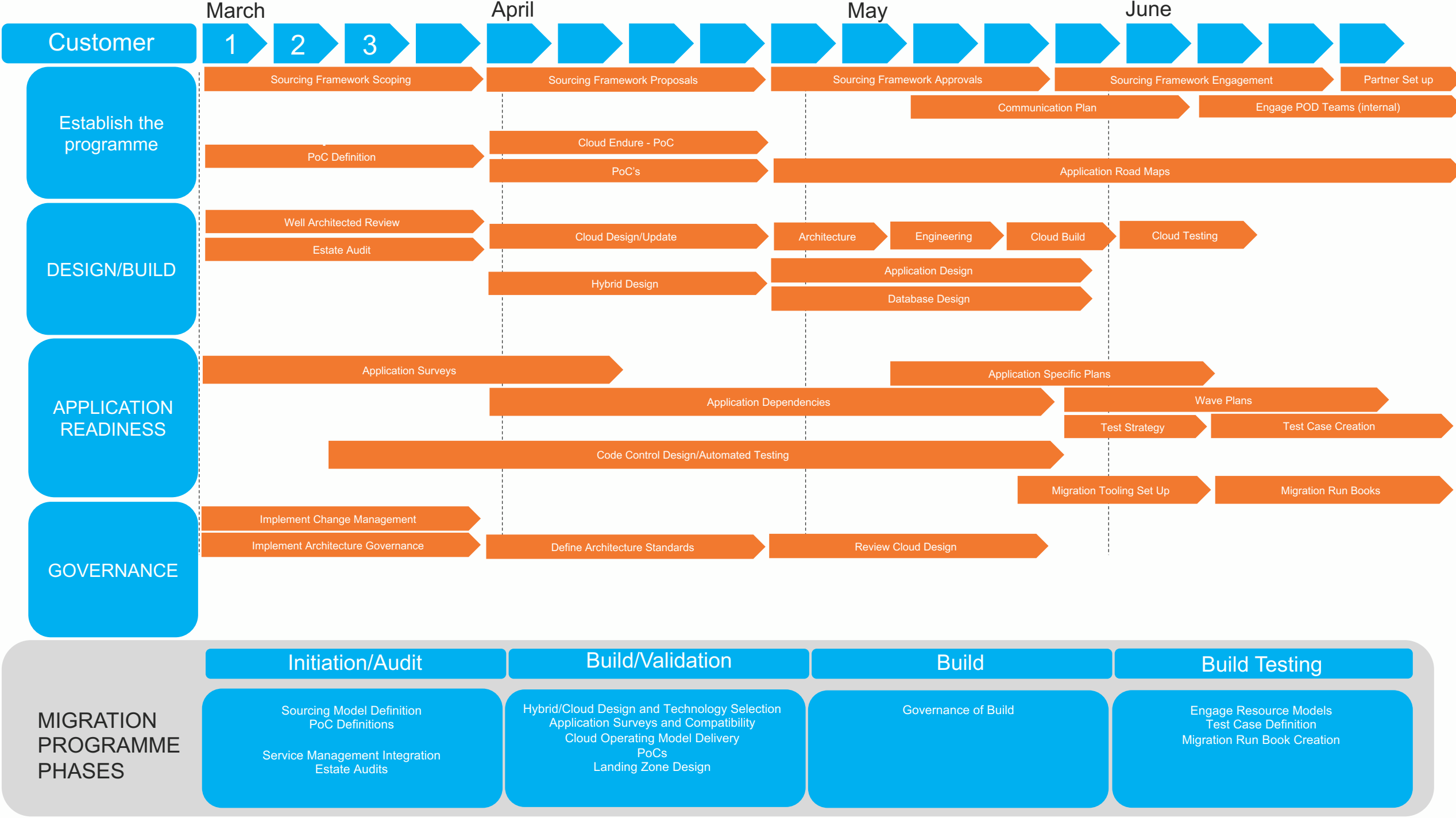
Goal

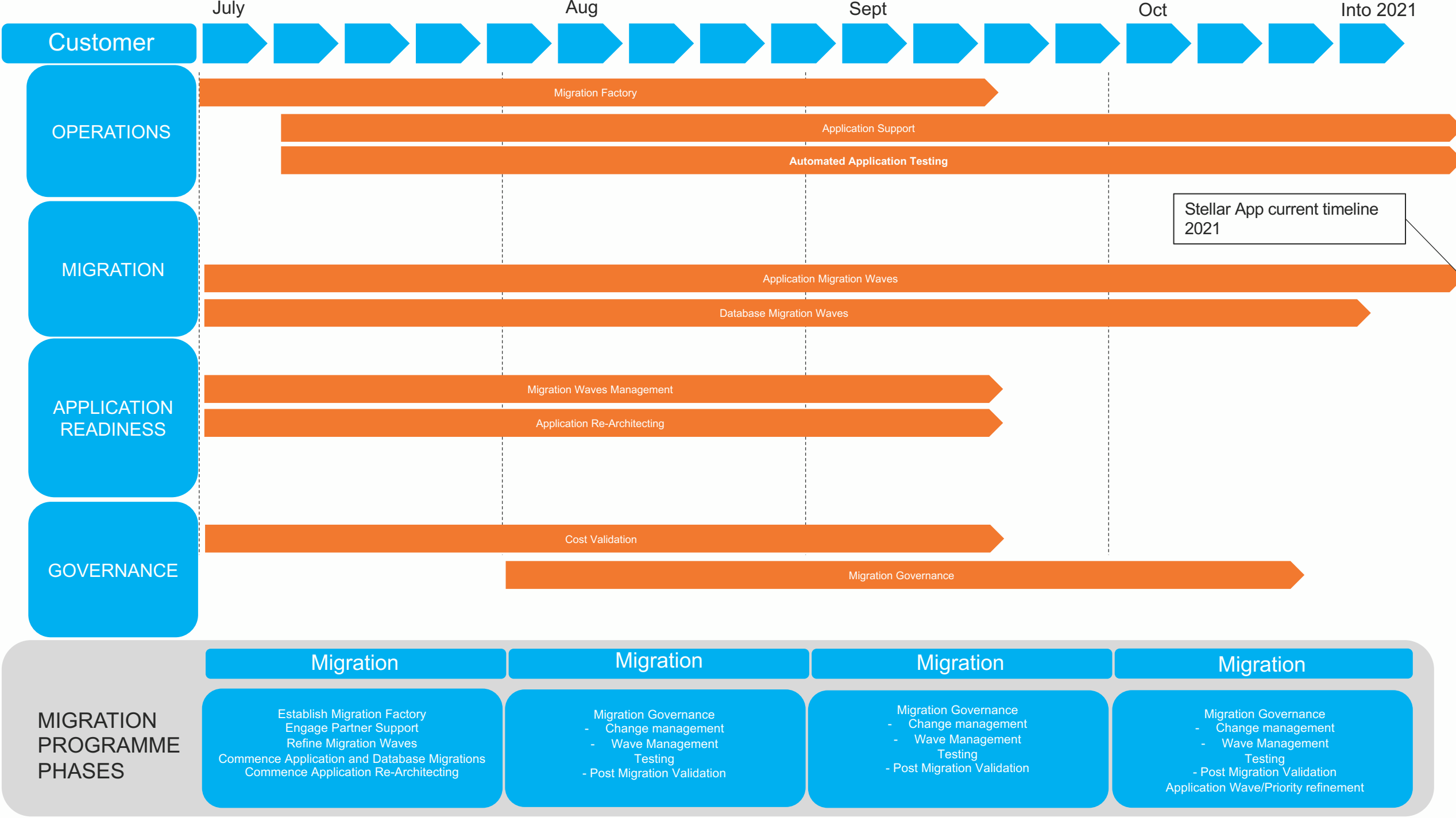


# Approach/Planning

# Initial Project Start-up Timeline Roadmap







# Project Start-up tasks

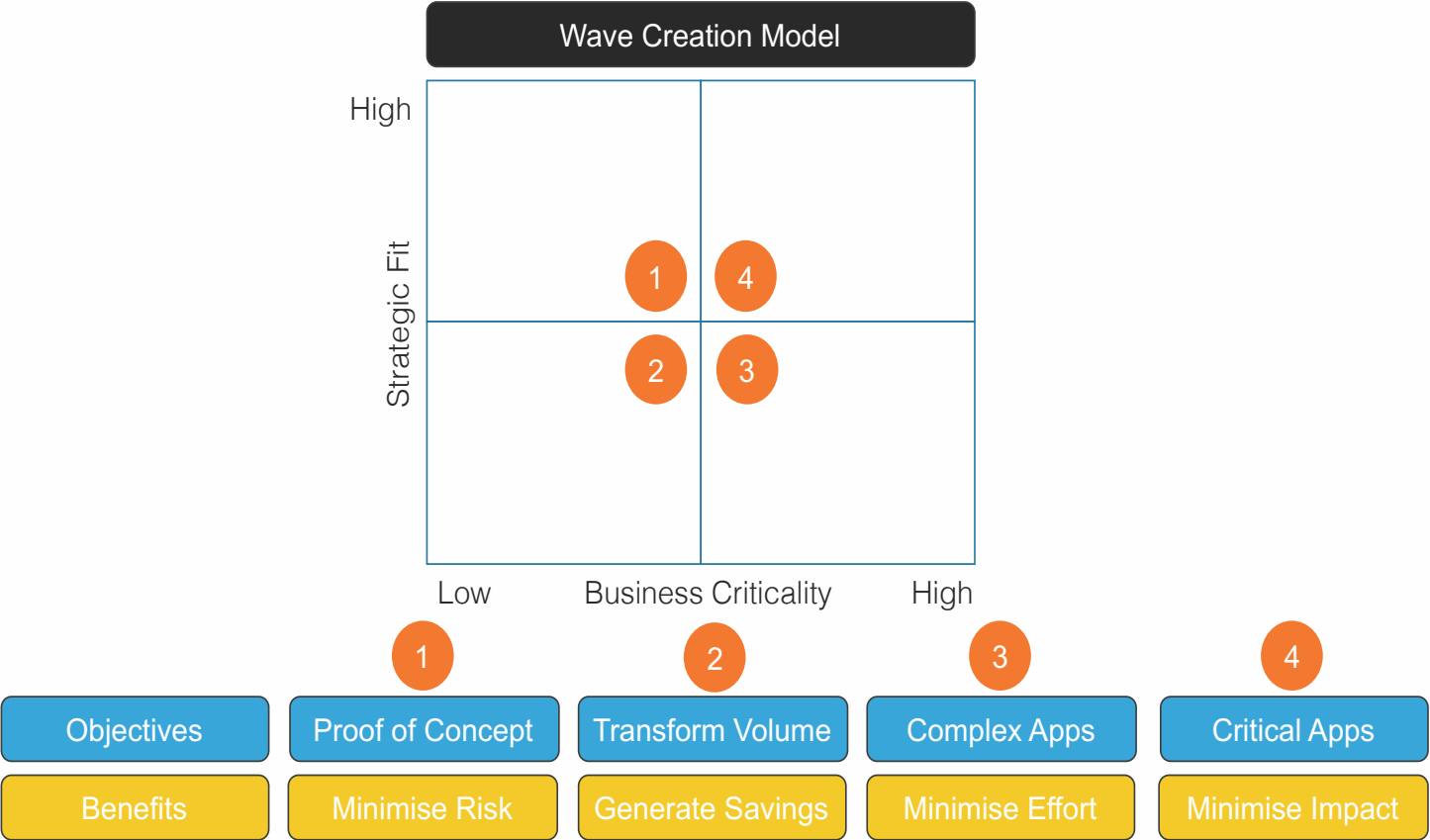
Programme Area	Milestone	What does this achieve	Low Level Tasks	Assumption
Governance	Define Governance Model	This will ensure that the standards are maintained throughout to programme	<ul style="list-style-type: none"> <li>- Define Change Control Process</li> <li>- Establish Application Governance (RoadMap)</li> </ul>	Governance standards are understood
Application Requirements	Application to Infrastructure Mapping	Understanding of the applications estate and the dependencies	<ul style="list-style-type: none"> <li>- Application Dependencies Mapping</li> </ul>	Application Owners have an understanding of the application functionality
Security	Security Policy and Framework Implemented	Standardised Deployment and security governance	<ul style="list-style-type: none"> <li>- Define Security Policy</li> <li>- Publish Security Standards</li> </ul>	Security Framework is defined
PoC Definitions	Scope documented for all PoC	Understanding of PoC inflight	<ul style="list-style-type: none"> <li>- List all PoCs in flight and planned</li> <li>- Define target completion dates for PoC's</li> </ul>	PoC scope is understood
Obsolesce Risk Assessment	Document Obsolesce RoadMap	Understanding of the impact of obsolesce on the business	<ul style="list-style-type: none"> <li>- Define all model numbers for hardware items</li> <li>- Define the roadmap for Operating systems</li> </ul>	An upgrade path for operating systems is available
Audit/Review	Well Architected Review of current AWS Landing Zone	Security assured and Compliant Landing Zone	<ul style="list-style-type: none"> <li>- Complete a Well Architected Framework Assessment</li> <li>- Remediate the actions from the assessment</li> </ul>	AWS Landing Zone has been implemented in line with Well Architected Framework



# Migration Model

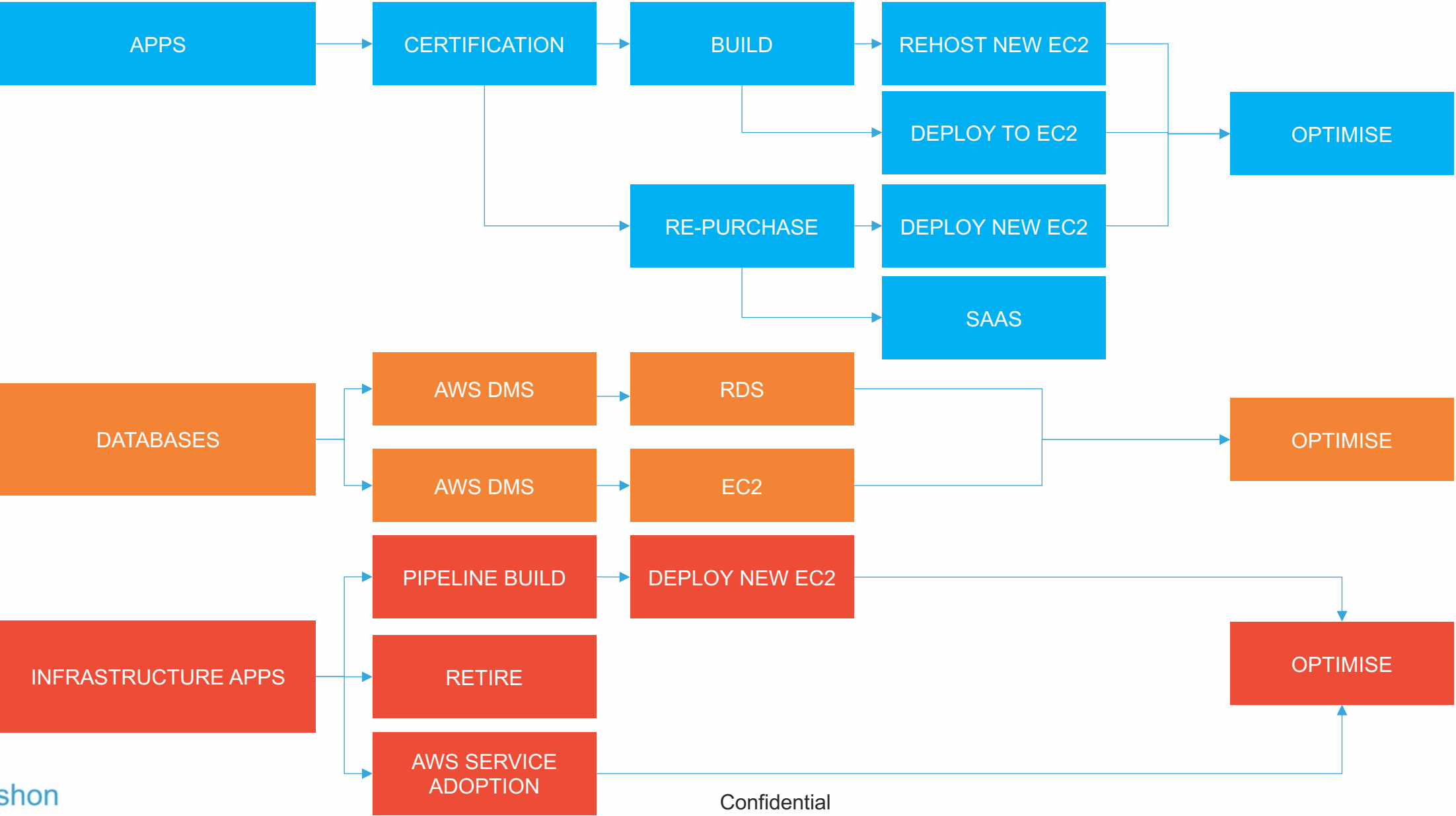


# Application Wave Model

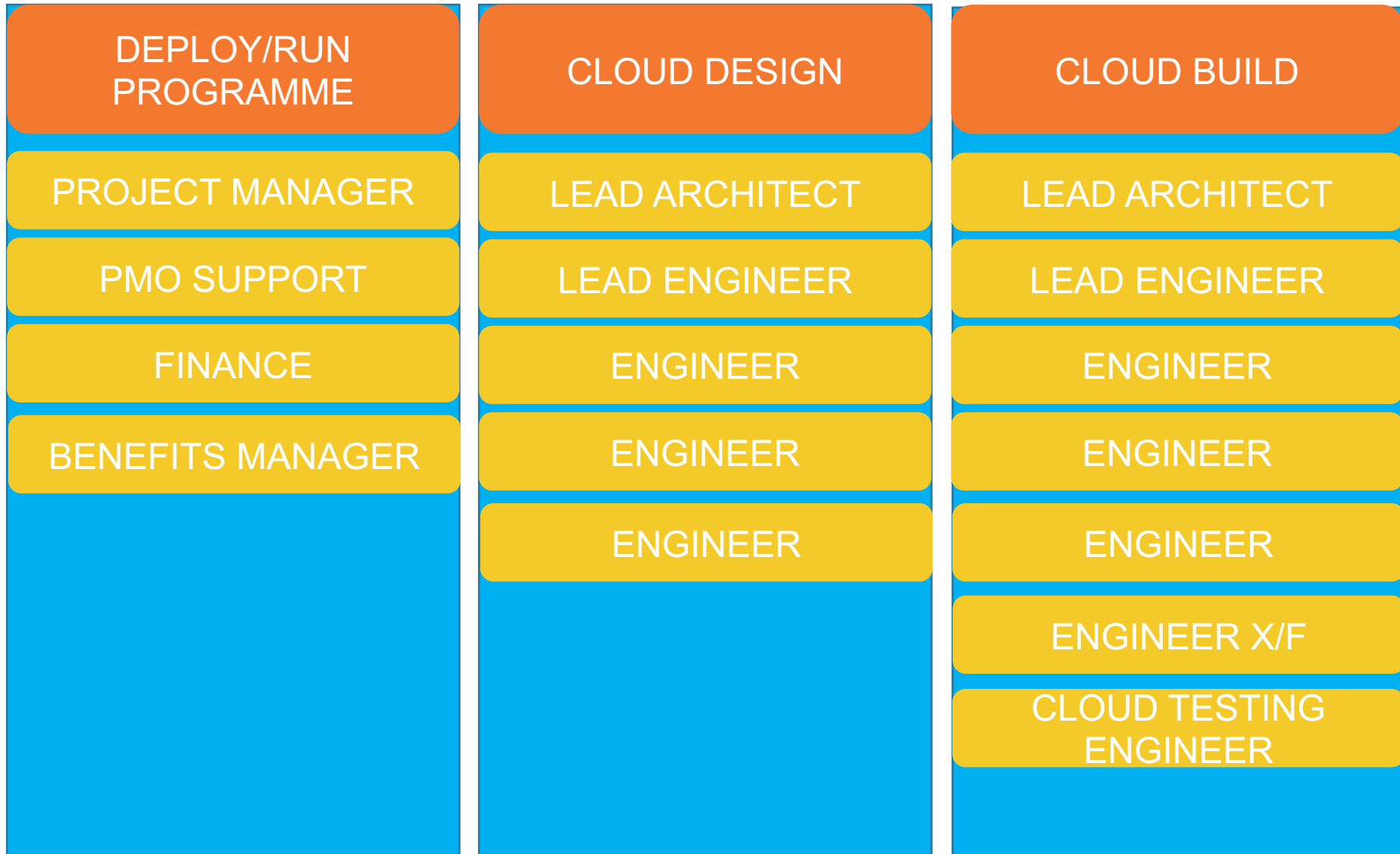


Recommendation is to use the wave creation model with the application teams to assess application for strategic fit vs. business criticality.

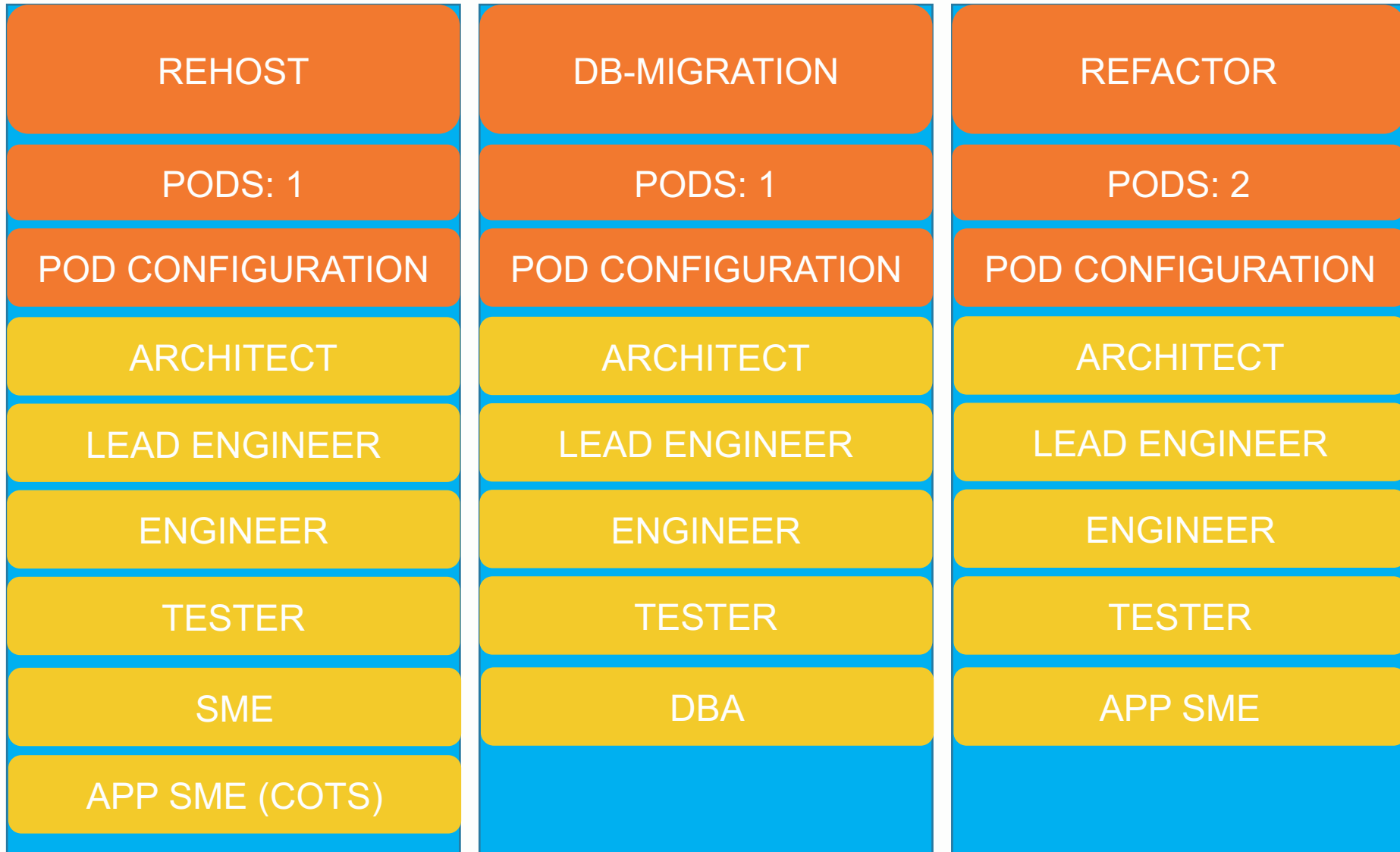
# Migration Play Book

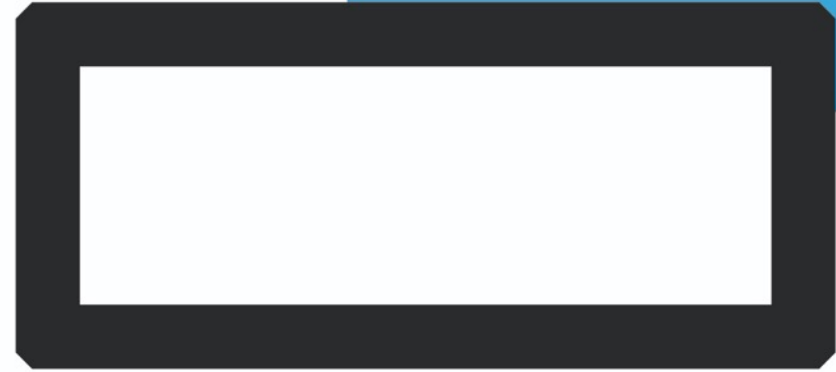


# Transformation Resources – Design and Build



# Transformation Resources – Migration





# Risks

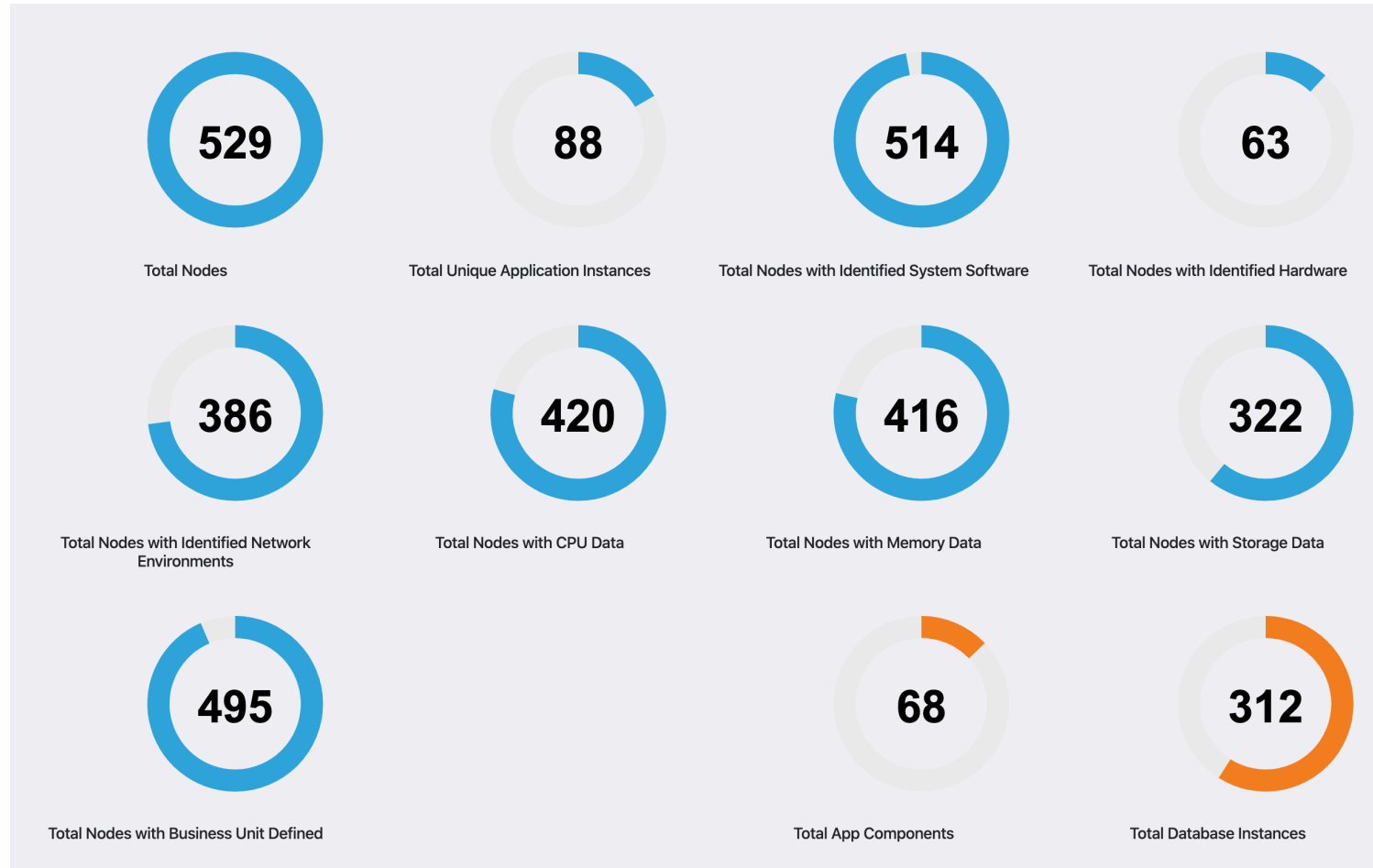
# Top Risks

Programme Area	Risk	How does this risk appear	Mitigation	Impact
Application – Stellar and Pirate	Application Architecture is out of date and requires review	Full understanding of the application is not documented	Deep dive session with application owners/engineers	Application roadmap not fully understood
Technical Debt Considerations	Technical debt requirements impact the delivery of cloud first	Hardware items are approaching obsolescence dates and require a plan for resolution	Review the hardware models for the obsolescence data for support arrangements in lieu of migration	Detracts programme from overall objectives
Security	The intended landing zone has not had a Security Framework and Policy Impact assessment	Existing workload cannot be moved as the landing zone does not comply with security standard	Review the security policy and framework and complete an impact assessment	Migration can not start
Operating Model Development & Rollout	The operating model is dependant on partners	Operational support processes will deviate between partners	Review the requirements on partners following migration	Support during migration will be non standard
Service Catalogue	The service catalogue is currently not published for application owners	Application architecture will not be standardised	Define services architecture and publish to application owners	Bespoke services implemented for each application
Cloud Architecture	Landing Zone Blue Prints are not standard across Customer	Current BluePrints are specific to All4/Online	Review the current BluePrints for implementation into Customer - Corp	Landing Zone Blue Prints will need to be bespoke per workload



# Estate Analysis

# Landscape

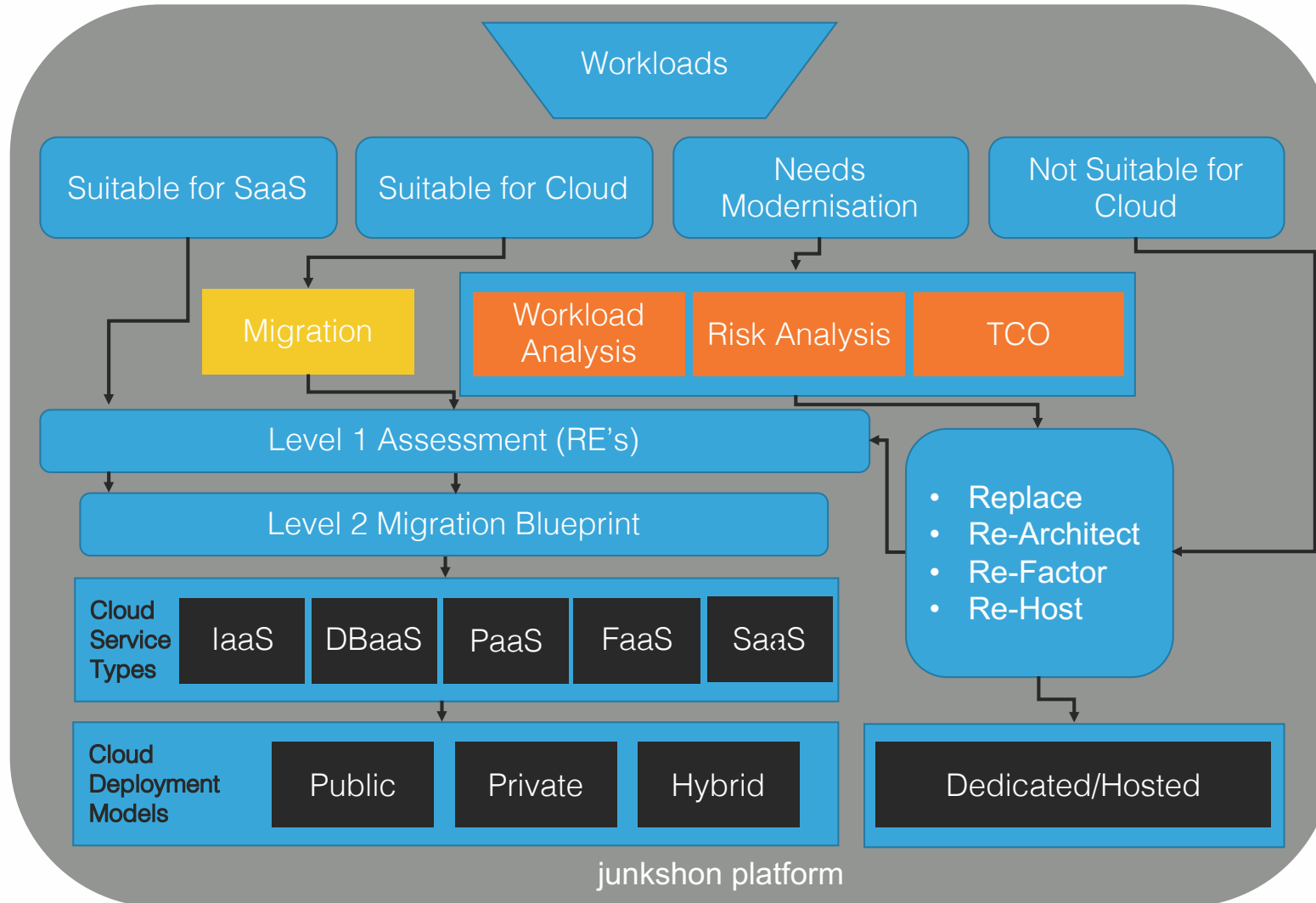




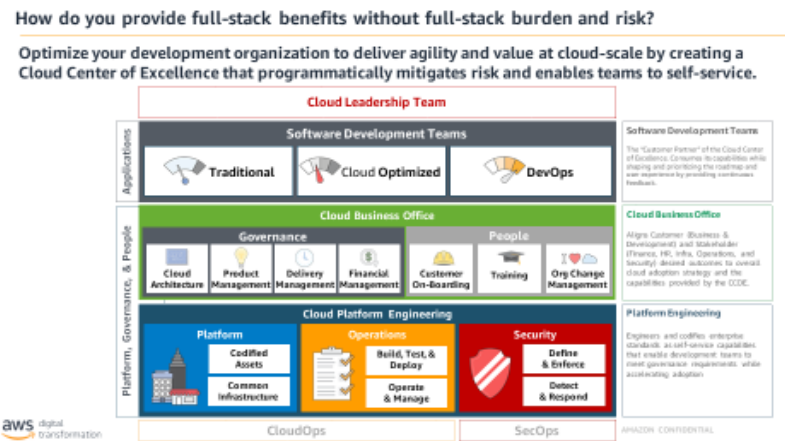


# Backup Slides

# Migration Factory



# Sourcing Plan



Adopt product driven approach rather than project

Prepare partner strategy to intercept key events / renewal points. Consider all phases, Transition, Transformation, Operate. One partner or several.

Shift from Capital Hardware acquisition to consumption based. development

Train and recruit in house core team who are cloud aware and drive the Cloud agenda with partners

Codify enterprise architecture and governance policies as automated, self-service products to enable development teams.

Establish a single IT Service Management platform (Considere SaaS)

Sourcing Strategy   Measuring ROI & Value				
Partners need to be measured too... the contract(s) needs to align with and use the measures				
<b>Key Performance Indicator</b> <ul style="list-style-type: none"><li>Customer Satisfaction</li></ul>	<b>Key Performance Indicators</b> <ul style="list-style-type: none"><li>Cycle-Time</li></ul>	<b>Key Performance Indicator</b> <ul style="list-style-type: none"><li>TCO</li></ul>	<b>Key Performance Indicator</b> <ul style="list-style-type: none"><li>Risk Score (Ops, Sec, Compliance)</li></ul>	<b>Key Performance Indicators</b> <ul style="list-style-type: none"><li>Adoption</li></ul>
<b>Additional Measures</b> <ul style="list-style-type: none"><li>Customer Adoption (Fit)</li><li>Help Requests (Fit)</li></ul>	<b>Additional Measures</b> <ul style="list-style-type: none"><li>Lead-Time</li><li>Time to Adopt New Technology</li><li>Time to On-Board</li></ul>	<b>Additional Measures</b> <ul style="list-style-type: none"><li>Availability</li><li>Allocated vs. Utilized Capacity</li><li>Applications Passing Well-Architected reviews</li></ul>	<b>Additional Measures</b> <ul style="list-style-type: none"><li>Internal Audits Passed</li><li>External Audits Passed</li></ul>	<b>Additional Measures</b> <ul style="list-style-type: none"><li>Existing Workloads Migrations</li><li>New Workloads Deployed</li><li>Employees Trained / Certified</li><li>Readiness Assessments</li></ul>



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