



# Sky High Success

**Elevating Your ERP Cloud Strategy to a  
Higher Level**

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Gabriel Tocci

# Housekeeping

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Webinar will be recorded for future reference on the SIGConnect website



▶ @SIGCorpLive



**Gabriel Tocci**  
@gabetocci



## Gabriel Tocci

Senior DBA/Certified Cloud Architect

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### Focused on application of Cloud and Container Technologies

- Cloud Migration
- Cloud Optimization
- Containerization

### Certified Cloud Solutions Architect

- Amazon Web Services (AWS)
- Oracle Cloud Infrastructure (OCI)

### Senior Banner Admin and DBA

- Banner ERP Implementations
- Banner Product Implementations and Upgrades
- Oracle Upgrades

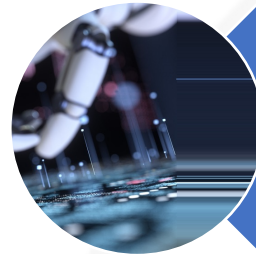
### Diverse IT Background

- Senior Software Engineer
- Systems Administrator (windows and Linux)
- Networking / Information Security
- BS and MS in Computer Science

# Presentation Summary



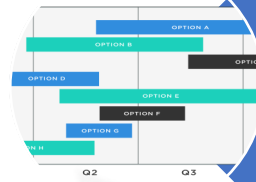
Determine  
Desired Outcomes



Cloud Provider  
Assessment/Fit



Analyze  
Modernization  
Capacity



Project Planning

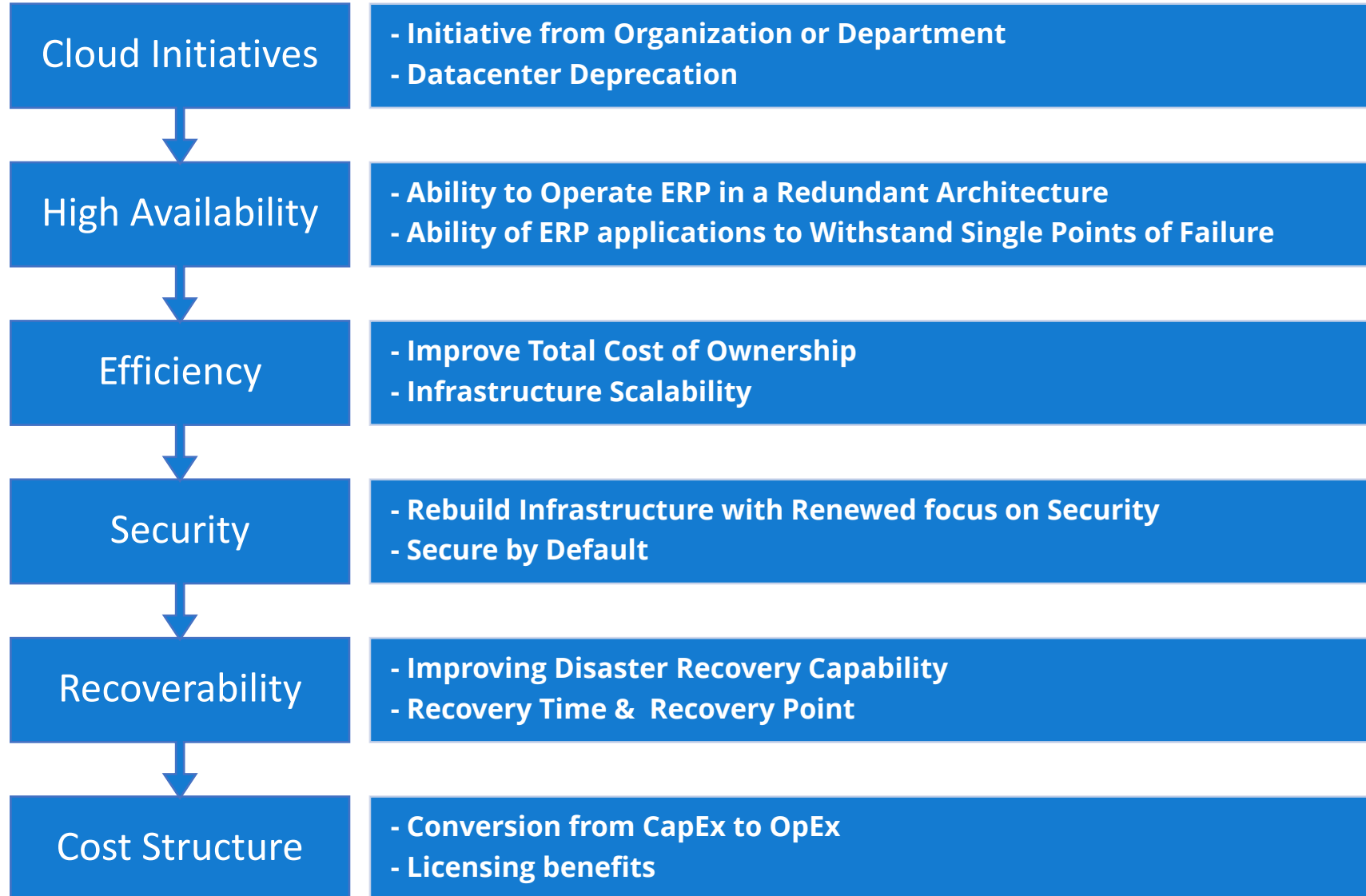


Assess  
Team/Partner  
Capability



Architecture  
Recommendations

# Desired Outcomes



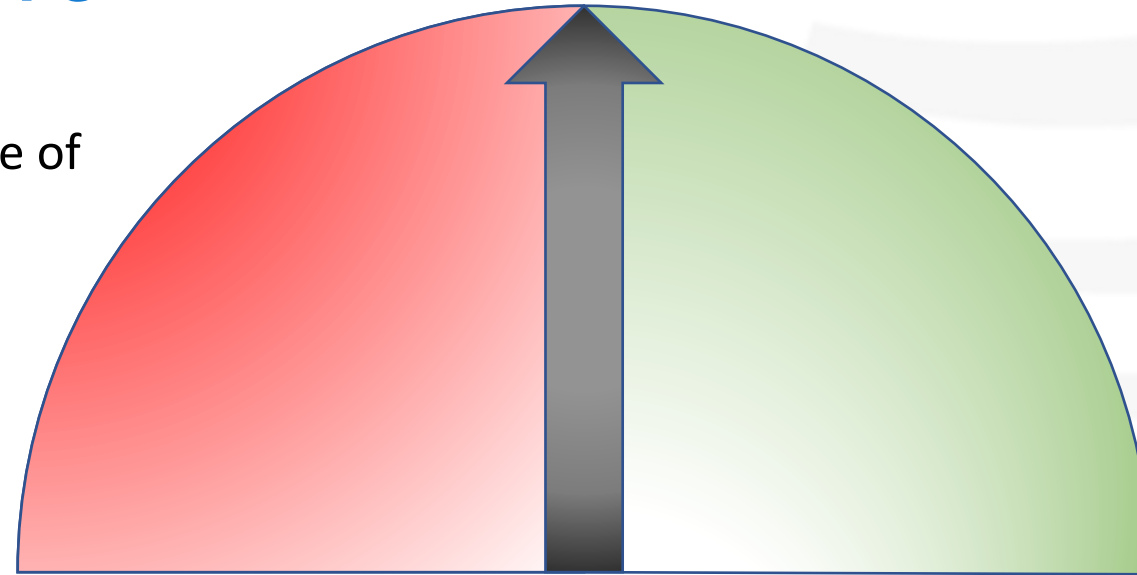
# High-Level Strategy

## Lift and Shift

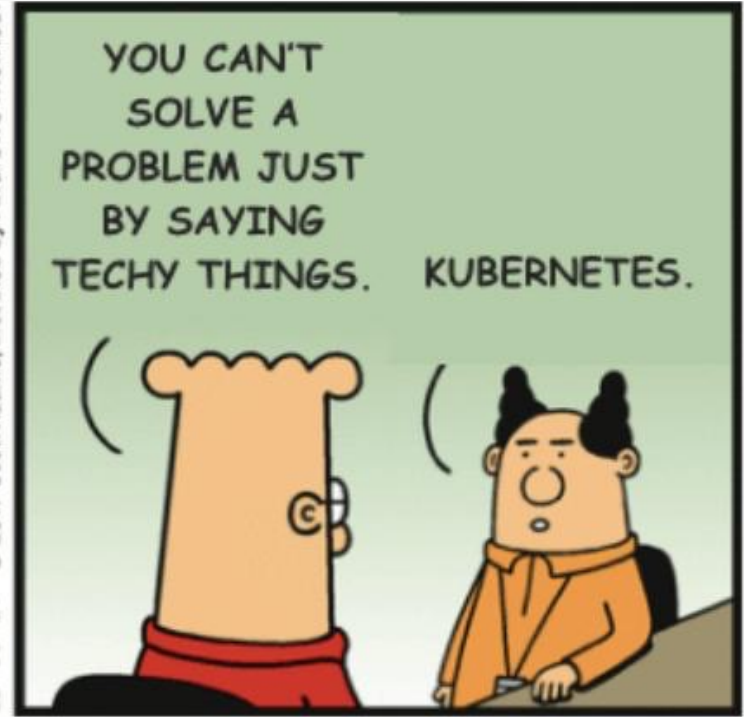
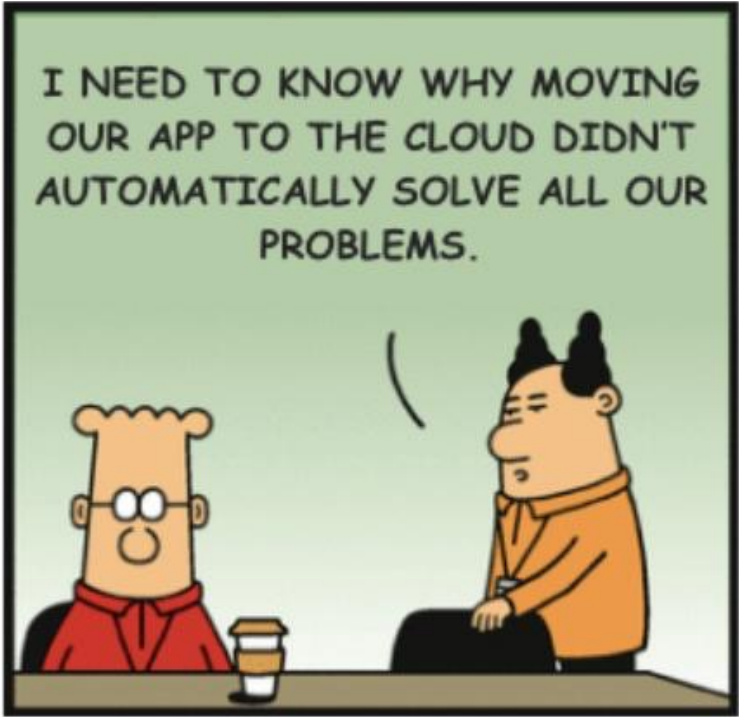
- Higher Long-Term Cost
- Does not take Advantage of Cloud Technology

## Move and Improve

- Lower Long-Term Cost
- Takes Advantages of Cloud Technology



Modernization Spectrum



Dilbert.com @ScottAdamsSays

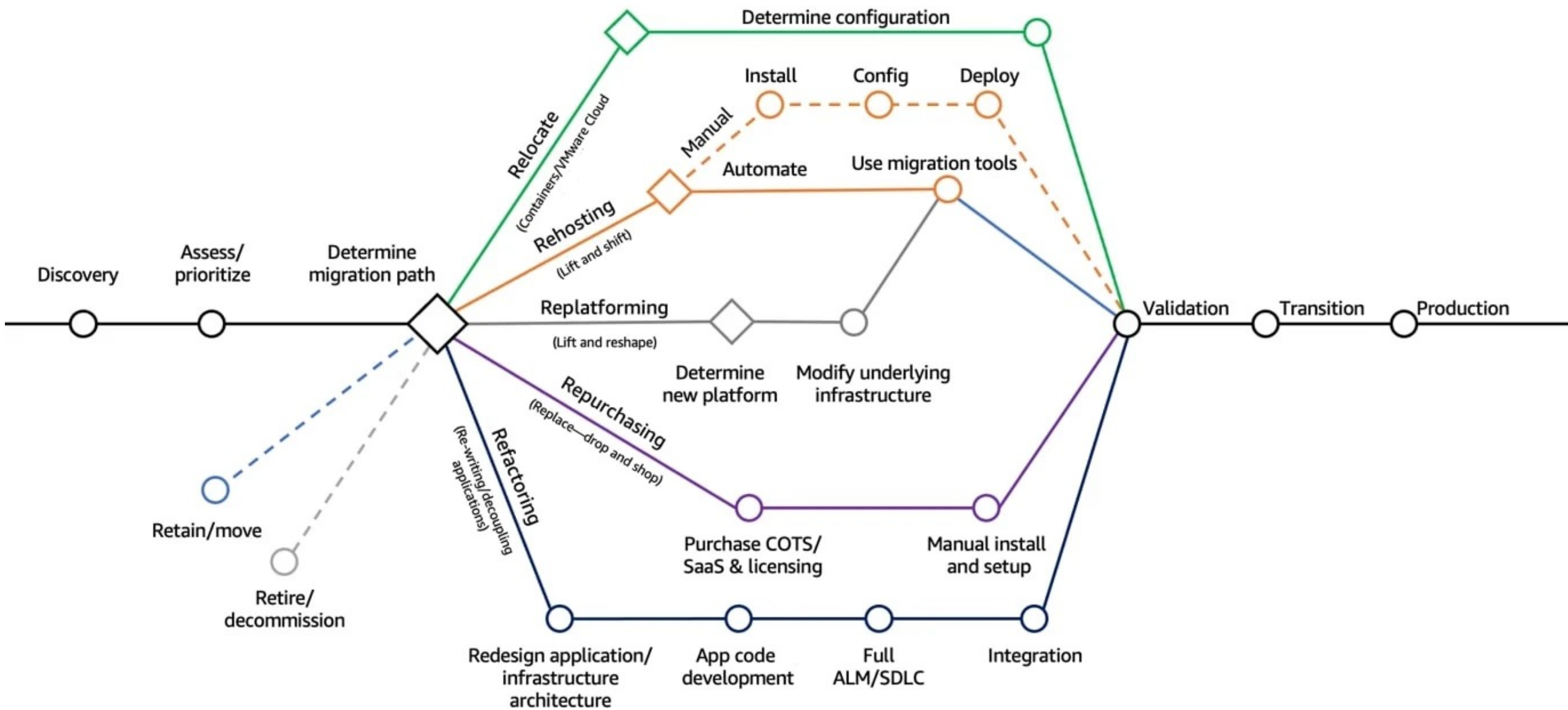
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# Modernization Capability

1. Refactor
2. Replatform
3. Repurchase
4. Rehost
5. Relocate
6. Retain
7. Retire

Migration Strategy	Effort (Time and Cost)	Opportunity to Optimize
Re-Host	★ ★	★
Re-Platform	★ ★ ★ ★	★ ★ ★
Re-Purchase	★ ★ ★	★
Re-architect	★ ★ ★ ★ ★	★ ★ ★ ★ ★
Retire		
Retain	★	





# Team Capability

## Cloud Technologies

- Difficult to assess prior to provider selection
- Infrastructure as Code
- Cost Management

## ERP System Implementation

- Were existing systems are inherited by current staff?
- Were existing systems implemented by outside consultants?
- ERP Core, Ancillary, Third Party Integrations

## Infrastructure Technologies

- On-premise and Cloud
- Systems Administration
- Networking
- DNS
- Load Balancers
- Security Systems

## Bandwidth

# Partner Capability

## Familiarity

- Cloud Platforms
- ERP Systems
- Infrastructure Technologies

## Bandwidth

## Additional Considerations

- Partner Builds Cloud Systems WITH you
  - Your team builds with guidance from partner
  - Train your team throughout process
  - Longer timeline
  - Client decision driven
    - Tools of your choice
- Partner Builds Cloud Systems FOR you
  - Partner builds with guidance from you
  - Train your staff after implementation
  - Shorter timeline
  - Opinionated decisions
    - Best practices
    - Existing Tooling
    - Automation
    - Cloud Optimized

# Cloud Providers

## Amazon Web Services (AWS)

- Market Leader
- First Mover (2006)
- Services Broad and Deep
- Extensive Ecosystem
  - Partnerships
  - Conferences
  - Training

## Oracle Cloud Infrastructure (OCI)

- Modeled after AWS
- Oracle Database License with Cloud Infrastructure
- Managed Oracle Database Service
- Multi-cloud Architecture with Azure

## Microsoft Azure

- Second Largest Market Share
- Largest YoY Growth
- Broad Range of Services
- European Gap
- Industry Tailored Solutions
- Multi-cloud Architecture with OCI
- Unique User Experience

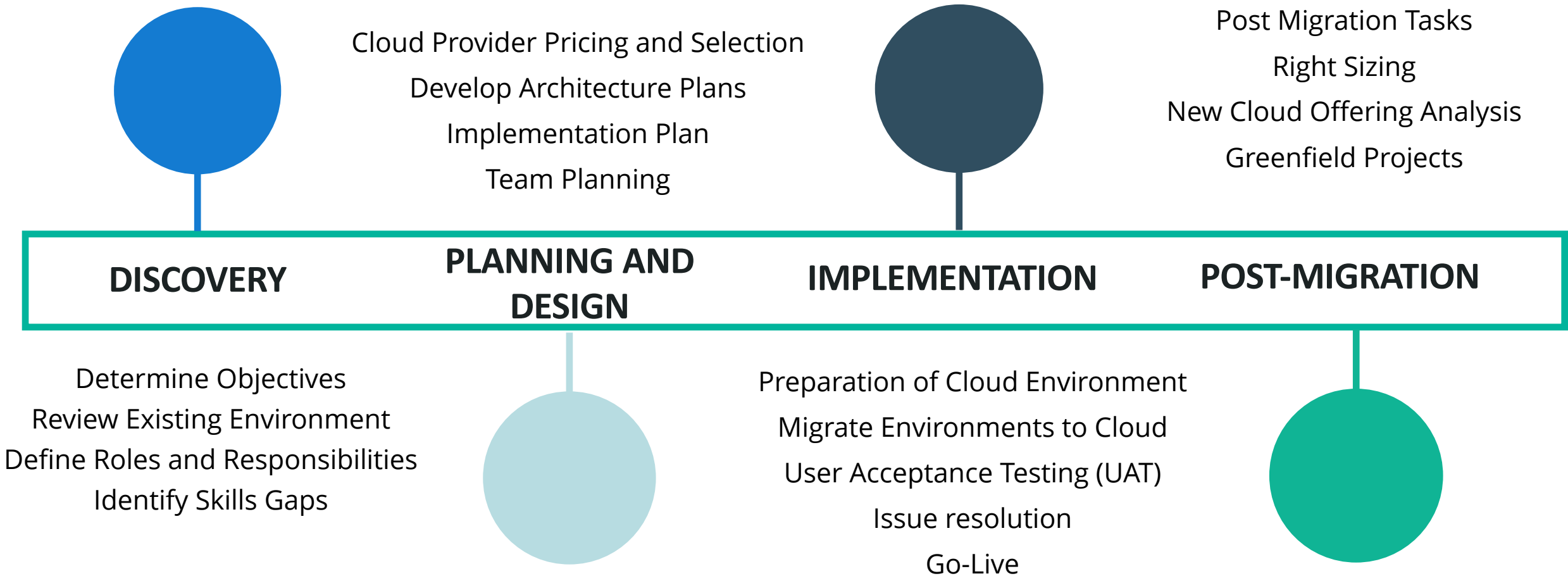
## Google Cloud Platform (GCP)

- Least Familiar Platform
- Not Many Higher Ed ERP Systems
- Highly Capable, by all Reports

Figure 1: Magic Quadrant for Cloud Infrastructure and Platform Services



# Project Planning



# Project Recommendations

## Collaborative Effort

- Combining Knowledge
  - Client Team
  - SIG Team
  - Cloud Provider

## Clearly Defined Roles

- Cloud Technologies
- Infrastructure Technologies
- ERP Systems

## Committed Effort

- Dedicated Time for this Project
- Free them up from other Duties
  - Cross train NOW
  - Cloud Train NOW

## Organized Work Tracking

- Work Tasks
- Task Blockers
- UAT Issues

## Defined Communication Channels

- Email
- Teams / Slack
- Ticket System
- Meetings
  - Scheduled – weekly minimum
  - Ad-Hoc

## UAT Test Plans

- Assigned tests with Completion sign Off
- Throughout Project
- Core and Ancillary ERP Systems
- Integrations and Custom Processes

# Architecture Recommendations

## Separation of Concerns

- Multi-Tenant/Account Landing Zones
  - Root/Master
  - PROD/TEST
  - Networking/DevOps
  - Security
  - Billing/Governance
- Network Separation
  - PROD/TEST
  - Pubic/Private

## Security First

- Least Principal Privileges
- SSO with MFA
- Encryption at Rest
- HTTPS Only
- Network Security/Firewalls
- Threat Detection
- Cloud Tenant/Account Configuration Compliance

## Managed Services

- Low or No Maintenance
- Highly Available

## Infrastructure As Code (IaC)

- Provisioning Processes
  - Repeatable
  - Auditable
- Automated Deployment of Supporting Services
  - Security Restrictions
  - Monitoring

## Containerization

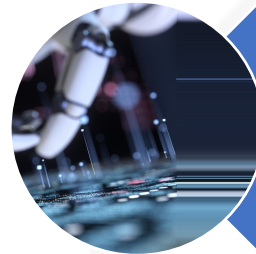
- Extension of Infrastructure as Code
- Orchestration Services
- Managed Services for Tooling
- Wide Adoption for ERP
- Efficient Use of Resources



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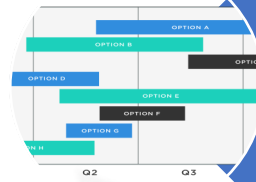
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# QUESTIONS




# Contact

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