



SUMMIT
ONLINE

엔터프라이즈 클라우드 전략 및 마이그레이션 모범 사례

신규진
시니어 프랙티스 매니저
AWS Korea

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프랙티스 매니저
AWS Korea

엔터프라이즈 클라우드 전략

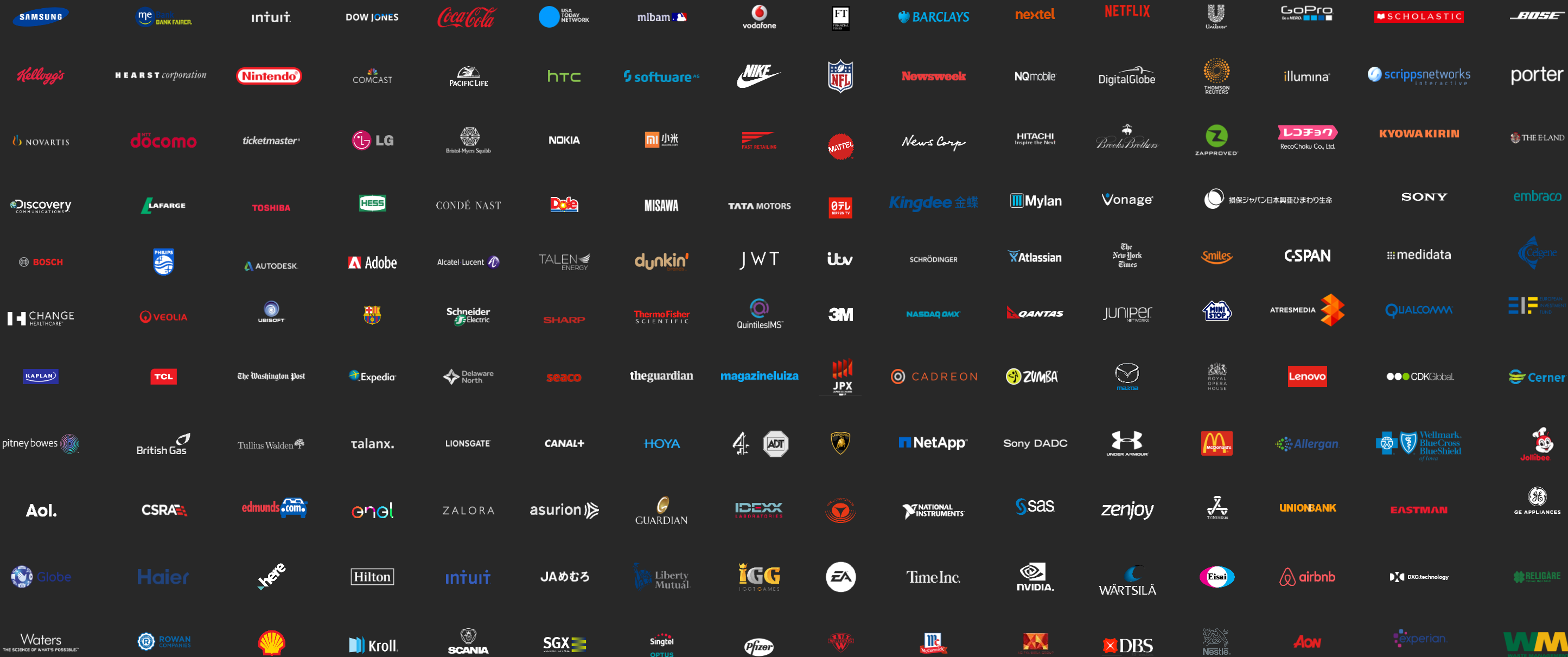
Something New?

AWS Seoul Summit 2019 (2019년 4월)

- **“엔터프라이즈의 효과적인 클라우드 도입 전략”**

https://www.youtube.com/watch?v=CZ-4OL63_e4&t=1177s

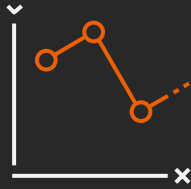
Cloud is the ~~new~~ Normal, even in Enterprise World



Business Value of Cloud Adoption



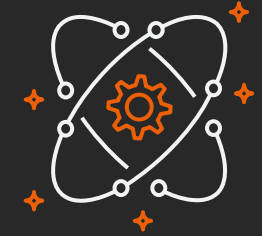
Cost savings (TCO)



Staff productivity



Operational resilience



Business agility

What is it?

Infrastructure cost savings/avoidance from moving to the cloud

Efficiency improvement by function on a task-by-task basis

Benefit of improving SLAs and reducing unplanned outages

Deploying new features/applications faster and reducing errors

Examples

50%+ reduction in TCO (**GE**)

Over 500 hours per year of server configuration time saved (**Sage**)

Critical workloads run in multiple AZs and regions for robust DR (**Expedia**)

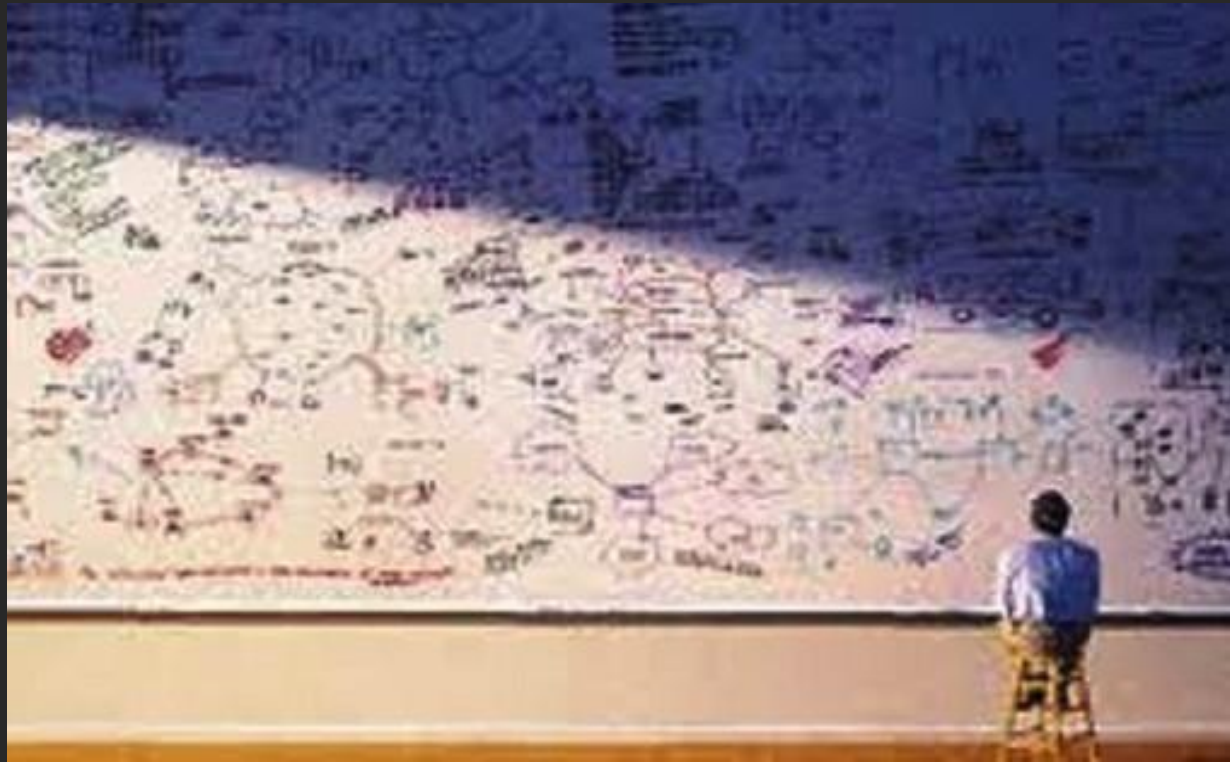
Build-outs and deployments happen 5x faster (**Intuit**)

← Typical focus →

← Most compelling cloud benefits →

Business/value

Enterprise Cloud Adoption is Difficult...



- Large programs with many work streams
- Thousands of workloads across multiple data centers
- Many inter-dependencies
- Significant compliance requirements
- Changes in processes, tools, operations



“There is
No Compression Algorithm
for **EXPERIENCE.**”







- *Andy Jassy, CEO of AWS*

Suggest **4 THINGS**
you can start right now
for **EXPERIENCE.**

1

Conduct CAF Workshop

AWS Cloud Adoption Framework (CAF)

 BUSINESS	 PLATFORM
 PEOPLE	 SECURITY
 GOVERNANCE	 OPERATIONS

Learn more about the CAF online:

https://d0.awsstatic.com/whitepapers/aws_cloud_adoption_framework.pdf

Helps organizations:

- Understand how cloud adoption transforms the way they work
- Leverage experience of 1000's of cloud adoption journeys
- Customize a collaborative, executable Action Plan

CAF starts with:

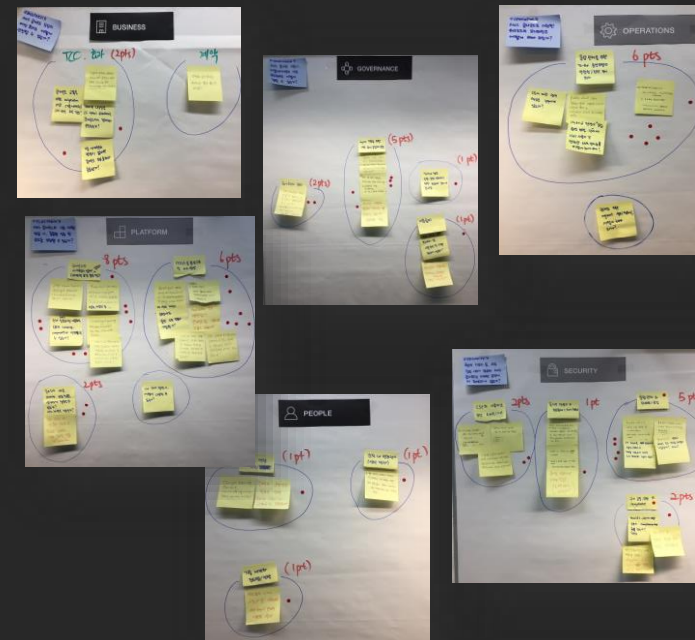
- Identifying critical stakeholders
- Grouping related stakeholders into six perspectives

Perspectives allow to:

- Identify barriers and gaps to Cloud Adoption by stakeholder
- Recognize cross-organizational dependencies

1 Conduct CAF Workshop

Define Action Plan through 1-day Workshop



Key Actions				Dependencies	Process	Skills
BUSINESS	Learn about reporting services for billing	Learn about to variable cost models for IT	Establish a process for billing enquiries	Establish process to review Cloud funding options within IT Finance		
	Brad X	John A	Brad X	John A		
PEOPLE	Identify Roles, skills and capabilities for Cloud-based IT	Review current support model and identify skills gaps and training plans	Establish skills matrix and track Cloud certifications	Engage training partner to identify suitable training plans	Identify Communication Strategy for cloud adoption	Establish process to create Cloud Evangelists
	Helen A	Bob Z	Helen A	Bill G	Mark A	Helen A
GOVERNANCE	Review how cloud governance will integrate into current Governance Team	Review RACI Model for Cloud Managed Services and align to wider Support RACI	Agree priorities for Interim Governance Dashboard	Map out timelines and adoption process for initial cloud projects		
	Bruce C	George F	Bruce C	James H		
PLATFORM	Establish patterns and standardization for the cloud	Review patterns for shared services / Retail Integration components	Review stack delivery mechanism requirements for AWS-MS	Review and investigate networking architecture designs	Review SecOps and Service Management integration patterns	Undertake Service Catalog immersion Day
	Julie B	Julie B	Bryan N	Jim W	(Cross) Tim A	Geoff M
SECURITY	Review security operations skills and capabilities and identify gaps	Create and agree a RACI model around security operations	Undertake a Security Assessment to determine control framework	Review end to end authentication mechanisms		
	Tim A	Alice H	Eve E	Barb L		
OPERATIONS	Identify BANK service operations processes and align to current operations	Identify Interim and Target Operating Model requirements	Review existing operational multi-party processes that cloud will touch			
	Dan N	Bob B	Dan N			

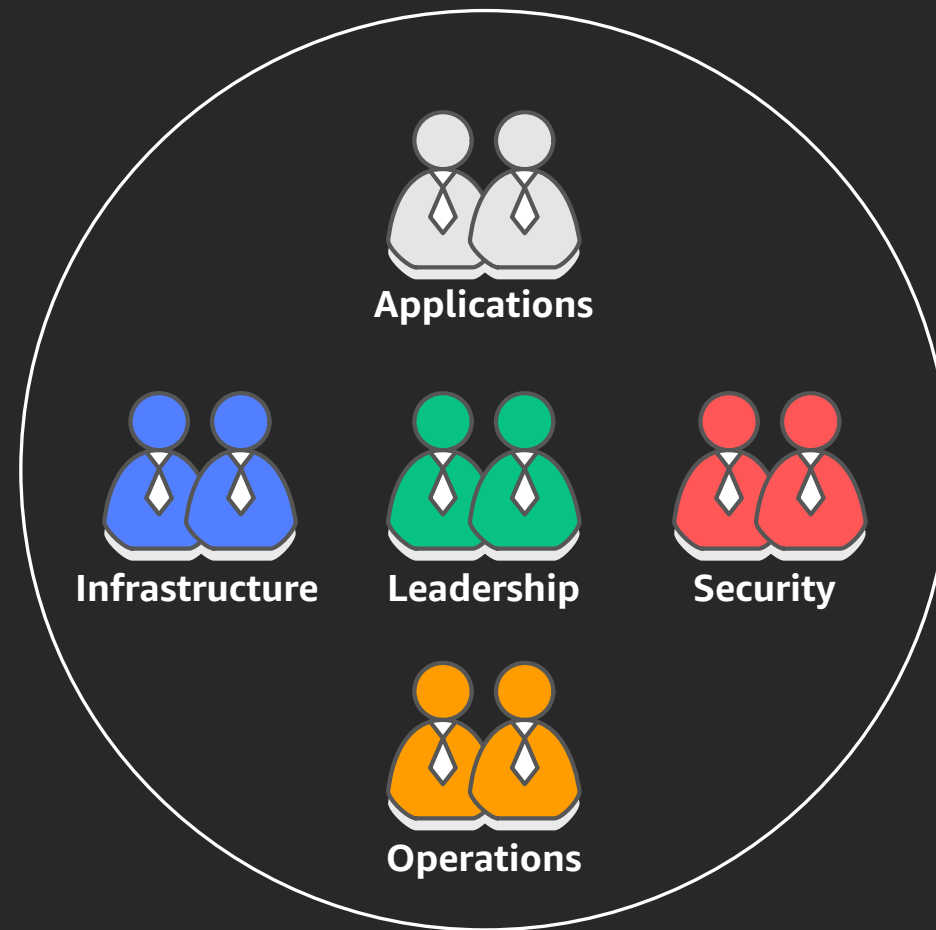
- Better understandings of **Cross-Functional Issues and Risks**
- Prioritized **Concerns and Problems** across stakeholders
- Practical and Realistic **Action Plan** for tackling blockers

2

Build Your Own Cloud Team

Team of 8 to 10,

- Cross-functional
- Empowered
- Accountable
- Hands-on
- Co-located



Let them Do Something,

- Experiment New Things & Ideas
- Build New Service
- Migrate First Few Applications
- Partners with early-adopters
- Establish Standards
- Establish Cloud Strategy
- Create Roadmap

3 Build Your Own Landing Zone

The AWS Landing Zone is a baseline AWS environment that helps you get started in the following areas:



Identity and access management



Multiple accounts



Governance



Data security



Network design

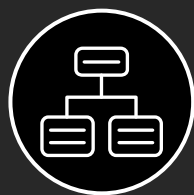


Auditability

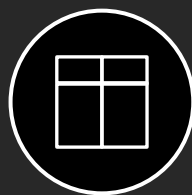


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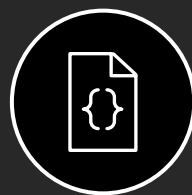
Modernize Your Database



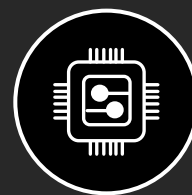
Relational



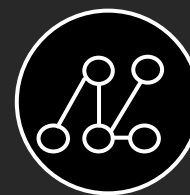
Key-value



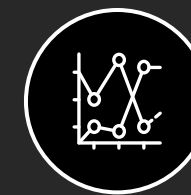
Document



In-memory



Graph



Time-series



Ledger



**Amazon
Aurora**



**Amazon
RDS**



**Amazon
DynamoDB**



**Amazon
DocumentDB**



**Amazon
ElastiCache**



**Amazon
Neptune**



**Amazon
Timestream**



**Amazon
QLDB**

4 Things for better experience

- 1 Conduct CAF Workshop
- 2 Build Your Own Cloud Team
- 3 Build Your Own Landing Zone
- 4 Modernize Your Database

엔터프라이즈 마이그레이션 모범 사례



Helping members protect what's important since 1925

**We are a
Fortune 100
company:**

FORTUNE
World's Most Admired Companies

FORTUNE
100 Best Companies to Work For

FORTUNE
50 Best Workplaces for Diversity



Financial Services
\$23.5 billion in sales

Commercial lines
\$7.8 billion total direct—
written premium

Personal lines
\$11.7 billion total direct—
written premium



The Cloud Journey Progress



2017

- Experimented on cloud providers
- Cloud strategy defined—80% to the cloud in 3-5 years
- Entire application portfolio (2,000+) assigned 7 R's



2018

- Formed dedicated cloud team
- Built controls, pipelines, & documentation to enable self-service
- First apps migrate and succeed



2019

- 315 migrations started
- 80 production cutovers
- 63 new apps created



“Having an IT executive sponsor for cloud is key, but having an sponsor in the business is transformational.”



Nationwide®

Ryan Hughes
VP, Cloud Solutions

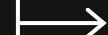


Migration model

2019

Volunteer backlog

Variable financial impact
Likely lower complexity
Lower priority
Just migrate,
continuously improve



Accelerators

Economic patterns
Technical patterns
Migration mechanisms



2020

Priority backlog

Highest financial impact
Likely more complexity
Business alignment
Plan migration using
accelerators

What a thoughtful, methodical multi-year plan for cloud migration includes



Senior leadership conviction
and alignment



Top-down quantifiable goals



Establishing accountable leads,
training your teams



Building experience,
not overanalyzing

Develop an optimization roadmap



Migrated applications

Optimize availability and performance

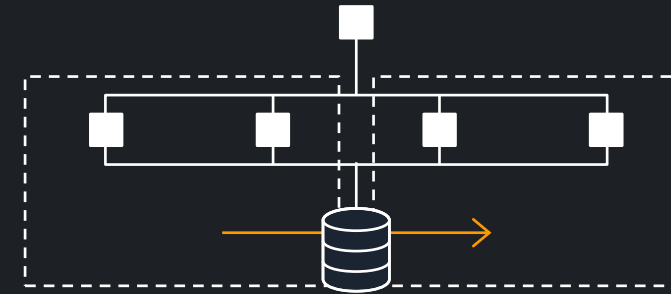
Portfolio tier: **Commodity**

Characteristics

Non-business-critical, low change, minimal risk

Approximate % of portfolio*

50%



Rehosted and repurchased apps



Non-migrated applications



Re-platform,
re-architect

Evolve to breathe new life
into your applications

Portfolio tier: **Critical**

Characteristics

Business-critical, but low rate of change

Approximate % of portfolio*

30%



Re-architect, refactor

Split off microservices
from the monolith

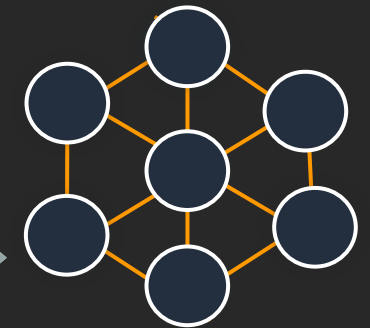
Portfolio tier: **Differentiated**

Characteristics

High rate of change & customer-facing

Approximate % of portfolio*

20%



Modernized applications

* By number of applications, not percent of spend, as seen in typical customer environments

Key Takeaway

- 1 Executive sponsorship from both **IT** and **business** to create a **clear, measurable goals**
- 2 Create your plan with **iterative** approaches and focus on **building the experience**
- 3 Don't forget about **modernization**. After all, cloud migration is a part of **Digital Transformation**

여러분의 소중한 피드백을 기다립니다!
강연 평가 및 설문 조사에 참여해 주세요.

감사합니다