



Financial Services Industry in AWS

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About Nordcloud and Me



Premier
Consulting
Partner

DevOps Competency

MSP Partner

APN Training Partner

Channel Partner

Public Sector Partner

Nordcloud in Nutshell

100% Public Cloud

300+ employees - one of
the fastest growing tech
companies in Europe



Helsinki | Stockholm | Malmö | Copenhagen | Oslo | London | Munich | Amsterdam |
Poznań



Worked with cloud strategy
and projects several large
and small financial
institutions over last 6
years. 30% of OMX40
Public Cloud Strategy.

What we do



Cloud Strategy & Advisory

Cloud DevOps & Migrations



Managed Services

Cloud Capacity & Optimization



Cloud Training

App Development



CHALLENGES IN FINANCIAL SERVICES INDUSTRY

DIGITAL TRANSFORMATION

“By 2030, 80% of heritage financial firms will go out of business, become commoditized or exist only formally.”

Gartner

DIGITAL CHALLENGE

- Legacy FSI systems and business models **cost more to run** than cloud based FinTech
- Regulators becoming more **consumer centric** to promote innovation & new entrants (PSD2, open banking APIs)
- Slow **time to market** for new features in digital channel
- Digital moves financial services to open international market with **software economies of scale**

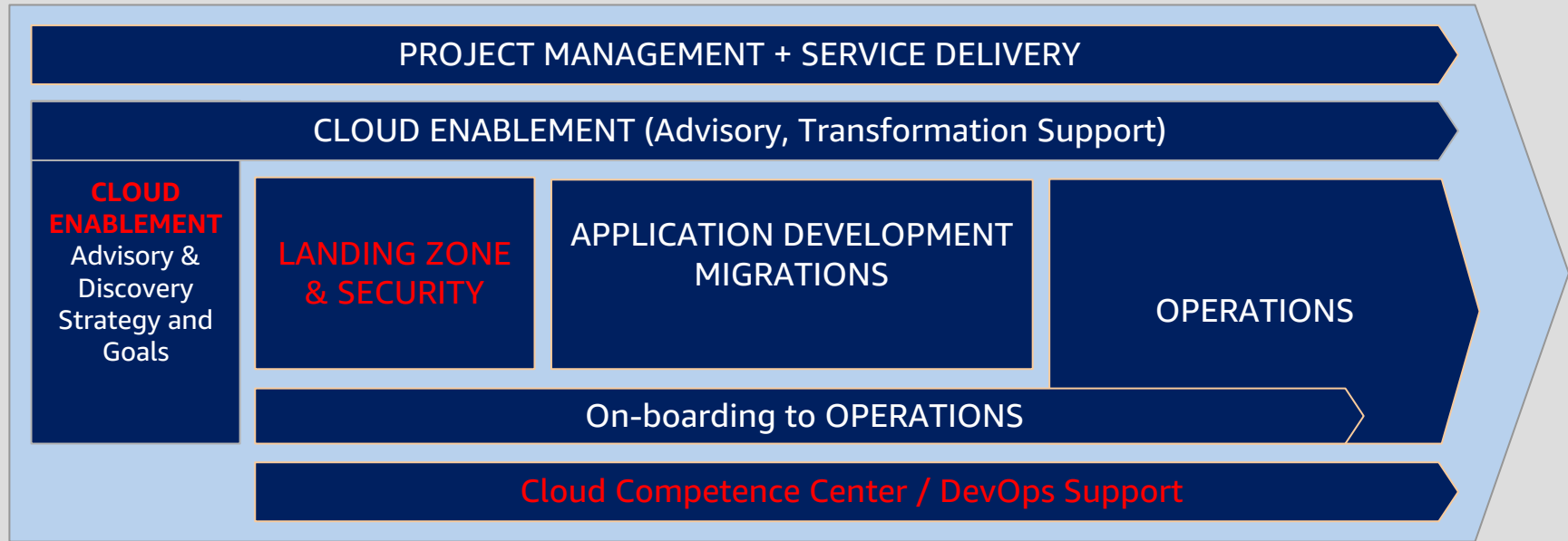
IF YOU COMPETE WITH
SOFTWARE YOU NEED TO BE
GREAT WRITING IT

AWS is the fastest way to improvement development productivity in FSI

(..and in other industries)

LESSONS LEARNED IN FSI DEVOPS JOURNEYS

Lessons Learned Cloud Journey Context



How to combine developer productivity with security and compliance?

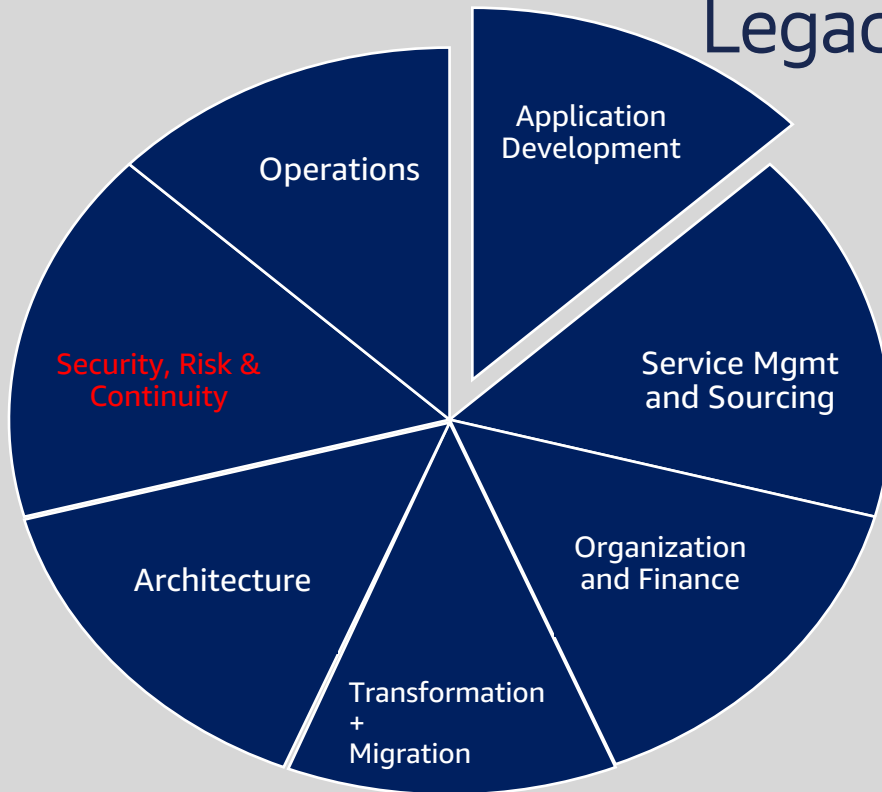
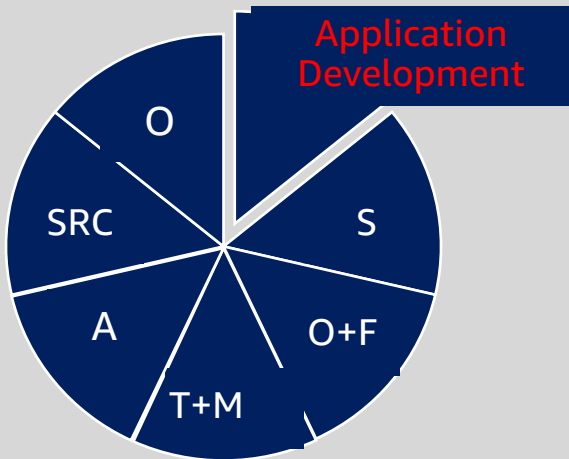
Lesson 1

Use Accelerator IT pattern to ensure speed and agility

Cloud Transformation Strategy - Optimise

Accelerator IT

Legacy Big IT



Use AWS Cloud Adoption Framework or
experienced partner to design goals
and cloud adoption path

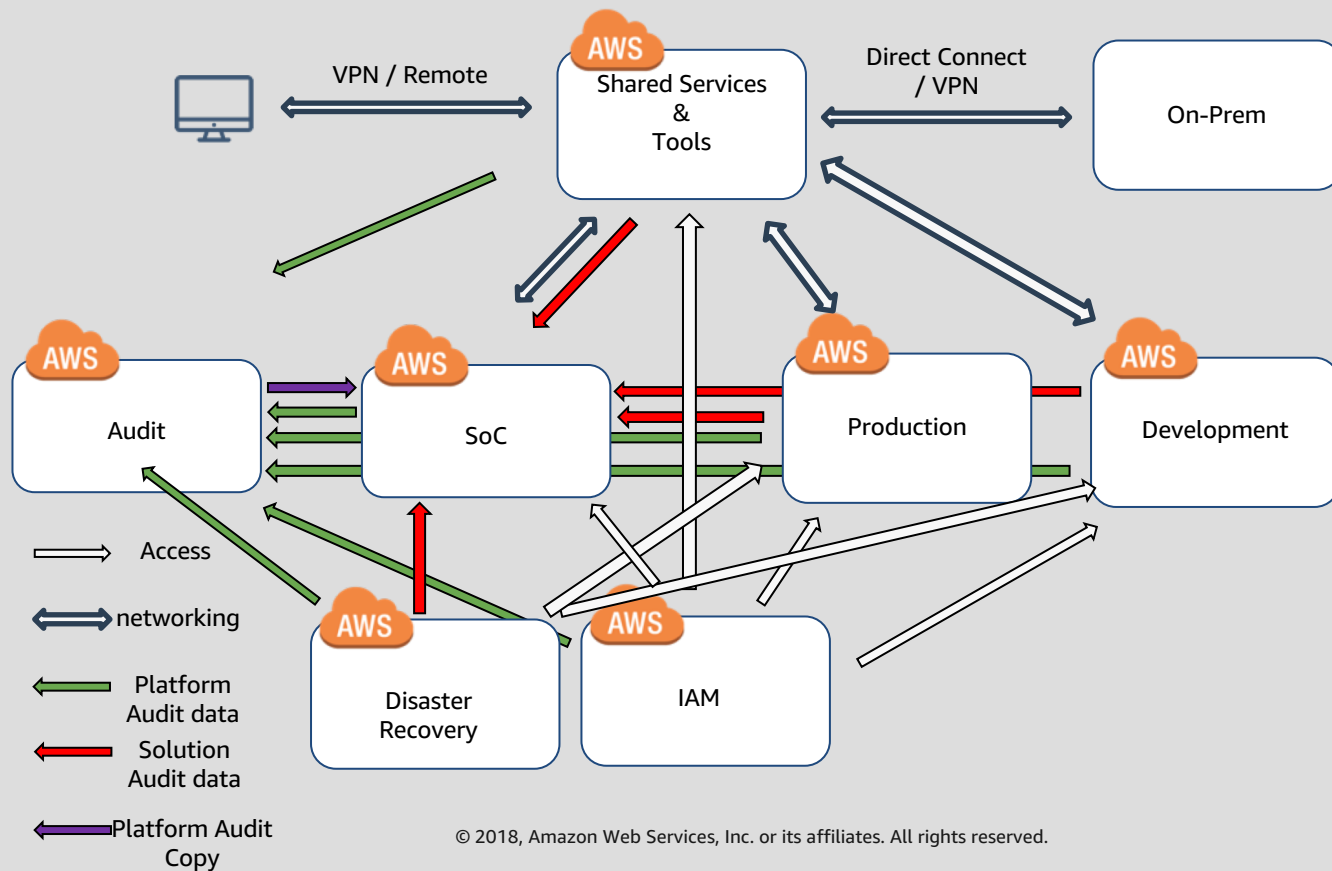
Lesson 2

Define Solid AWS Account Structure from Day 1

Important because....

- It prepares for task automation of security and compliance assurance
- It enables clear separation of concerns between developer teams and security teams
- Helps to integrate with multiple FSI stakeholders

AWS Account Structure



Lesson 3

Build Cloud Competence Center to develop platform and support app teams

No:1 mistake currently in cloud adoption

- No team with clear organisational charter, budget and deliverables
- Results in higher cost and lower velocity as app teams try to deal with compliance without reuse

Cloud Competence Centre

Project and Platform Services

Cloud Architecture Library

Cloud Platform Development

Project Cloud On-Boarding

Cloud Architecture + Components
Support

IAM / Accounts / Networking

Continuous Services

Cloud Environment Creation

Security Assurance

Cost Management

DevOps Support

Developer Tools Support

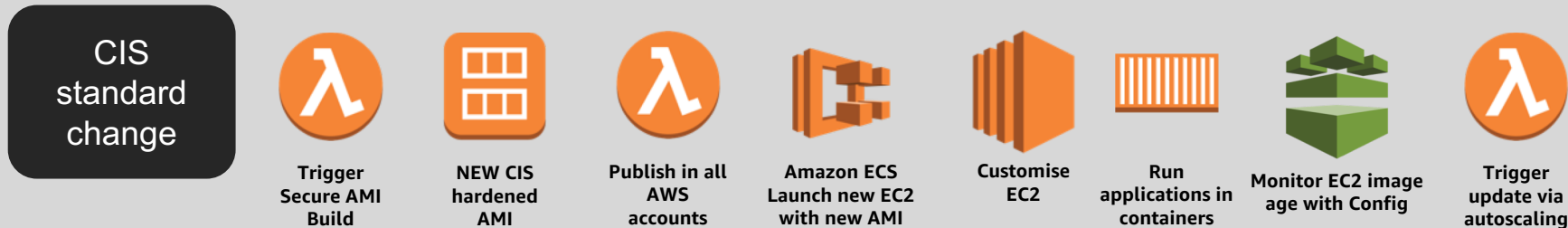
4 Invest in Security around Container Platforms

Developers like containers because...

- Boilerplate from DockerHub et al (!)
- Excellent development workflow
- Part of systems management becomes “invisible” as the OS is no longer a concern
- ECS / Kubernetes simplify deployments

Example: Provide OS security as a service for devs

- Containers rely on underlying OS but do not manage it
- Build service that assures hardened operating systems (e.g. image factory / AWS Config rule version alerts)
- Remove access to EC2 instance metadata with IP tables
- Install Cloudwatch and metrics scripts



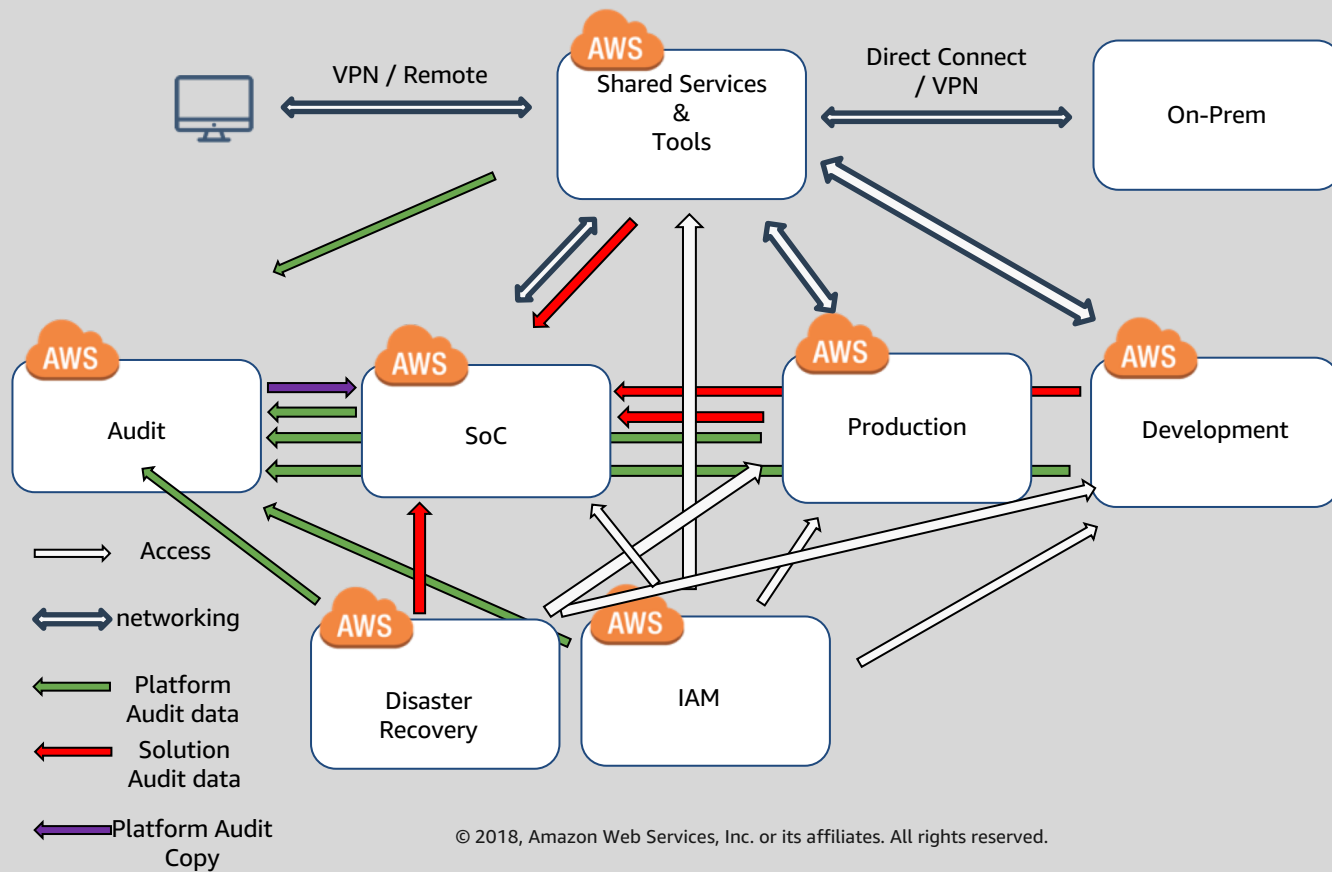
Lesson 5

Be ready for AWS Account Explosion

Trend towards more and more AWS accounts

- AWS accounts per use case provide easier political and cost separation
- Tools like AWS organizations reduce the cost of running many accounts
- Implementing all security and compliance features via code is a must with scale

Automate this!



Account workflow

- Define the role for the new account
- Create Account via AWS Organizations programmatically
- Define external integrations (e.g IPAM for VPC CIDRs)
- Define set of 'blueprints' (ordered Cloudformation) to run on the account and supporting accounts
 - Audit / DR accounts
 - IAM
 - VPC creation and peering
 - Remote access and Security Groups
 - GuardDuty + Config rules
- Execute

High velocity FSI product
development is possible with
AWS, but it requires right
strategy

Q&A

Please complete the session survey
in the summit mobile app.

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