



HEADLIGHT

Cloud Security Seminar
2nd and 5th Oct 2018

Agenda Cloud Security Seminar

Tomas intro:

- The future is already here.....

Joakim:

- Cloud provider: Security "of" the cloud
- Customer, Security "in" the cloud
- NIS directive, recurring security work

Marcus

- Public sector requirements on cloud security, PUL, GDPR, data in Sweden

Tim

- Global requirements regarding cloud security
- How can AWS unite all the security reqs on different markets



HEADLIGHT

Tomas Täuber

CEO

Intro

- Cloud Computing is a reality
 - Hybrid
 - Serverless
 - Elasticity
 - Programmable IT
 - Global
 - Pay as you go

IS IT SAFE?

A top-down view of a wooden table with a laptop, papers, and hands working on a project. The scene is dimly lit, with a dark overlay covering the central part of the image. The text 'HEADLIGHT' is prominently displayed in the center of this overlay. Below it, the name 'Joakim Florén' and the title 'IT-Arkitekt' are written. The background shows a laptop on the left, a spiral notebook and a pen at the bottom, and several sheets of paper with charts and graphs in the center and right. Hands are visible interacting with the laptop and the papers.

HEADLIGHT

Joakim Florén

IT-Arkitekt

Q&A

Facebook Vulnerability Affecting 50 Million Users Allowed Account Takeover

By [Mayank Parmar](#)

September 28, 2018 01:43 PM 1



Today, Facebook disclosed a security vulnerability that affected 50 million people on the social media network and allowed malicious third parties to potentially access the affected users account.

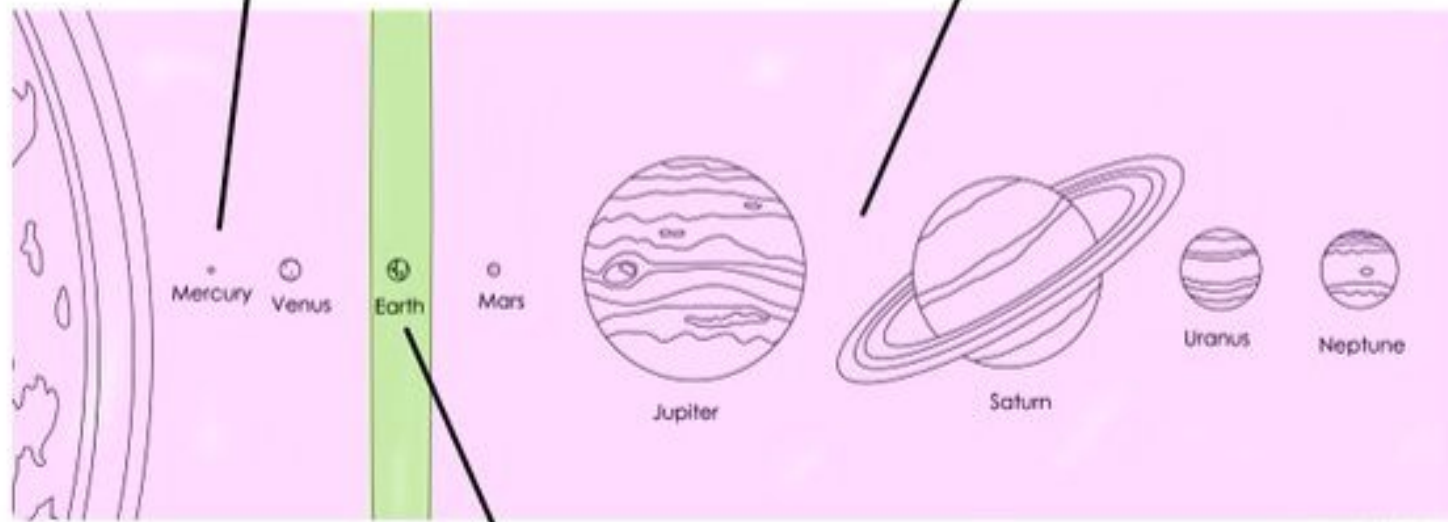
In a blog post, Facebook's Guy Rosen, VP of Product Management explained that the attackers exploited a vulnerability associated with Facebook's "View As" feature that allowed them to steal Facebook access tokens. These tokens could then be used to take over people's accounts.

150 000 miljader

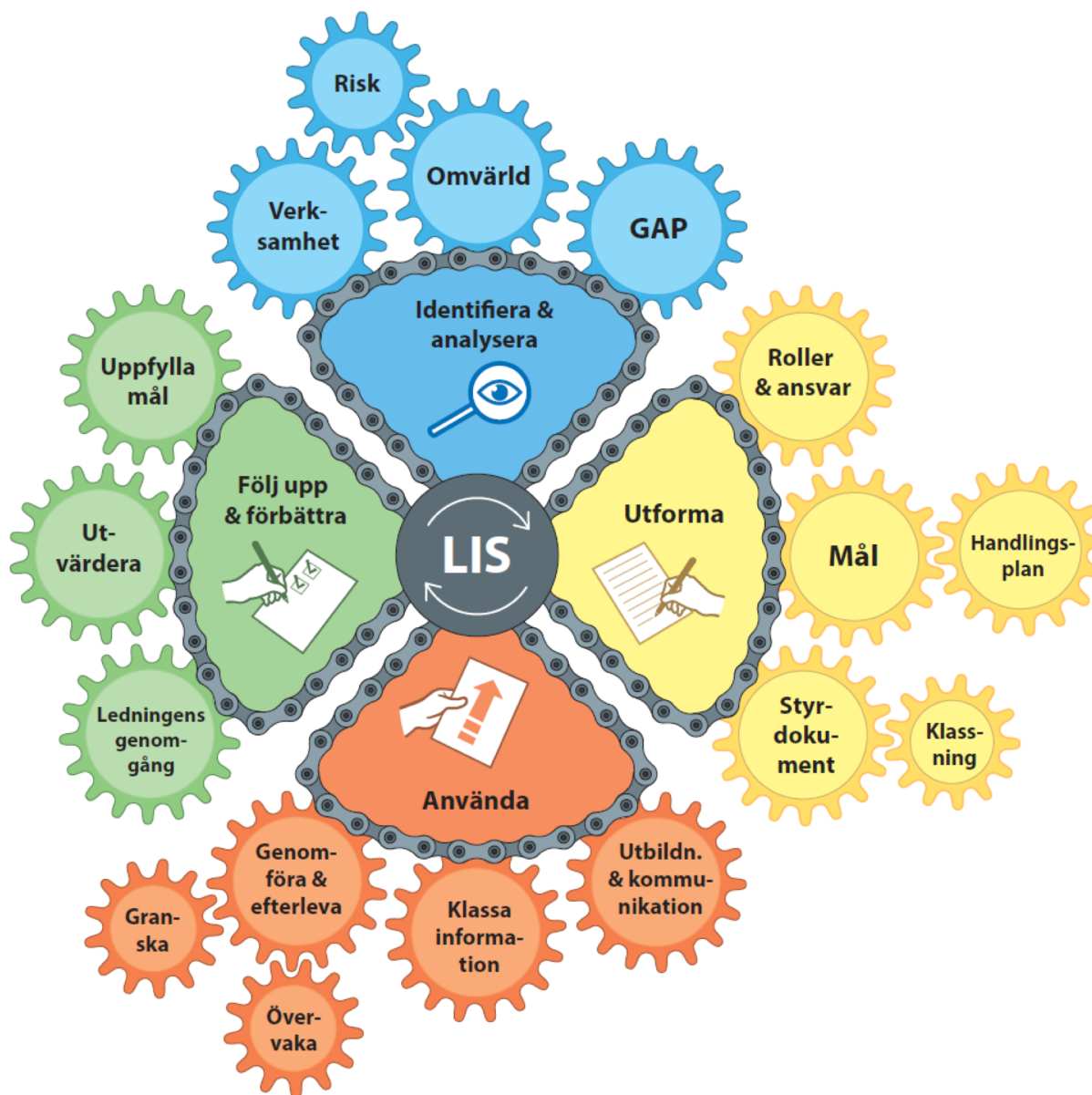
CHART TO HELP DETERMINE RISK OF BEAR ATTACK:

NO RISK OF BEAR ATTACK

ALSO NO RISK OF BEAR ATTACK



REALLY VERY HIGH RISK OF BEAR ATTACK



Ansvarsfördelning

Customers are responsible for security *'in'* the Cloud

Customer Data

Platform, Applications,
Identity & Access Management

Operating System, Network &
Firewall Configuration

Client-side Data
Encryption & Data
Integrity
Authentication

Server-side Encryption
(File System and/or
Data)

Network Traffic
Protection (Encryption /
Integrity / Identity)

AWS is responsible for security *'of'* the Cloud

Compute

Storage

Database

Networking

AWS Global
Infrastructure

Regions

Avail. Zones

Edge
Locations

AWS Security Tools & Features



Identity & Access Control



Data Encryption



Infrastructure Security



Monitoring & Logging



Inventory & Configuration



AWS Partner Solutions

Högre krav från några



The stringent demands of a few...

NASDAQ



Set a higher standard for everyone



Tough scrutiny, market-leading capabilities, constant improvements, and a world-class AWS security team benefit the whole client community.

Everyone's Systems and Applications

NASDAQ

REQUIREMENTS



REQUIREMENTS



REQUIREMENTS

Amazon Web Services Security Infrastructure

- Gör det rutinmässiga arbetet till företagskultur
- Börja direkt
- Tag ansvar för den kvarvarande risken

Tack!

joakim.floren@headlight.se

A top-down view of a wooden table with a laptop, papers, and hands working on a project. The scene is dimly lit, with a dark overlay covering the central part of the image. The text 'HEADLIGHT' is prominently displayed in the center, with a horizontal line underneath it. Below the line, the name 'Marcus Fredriksson' is on the left and 'IT-Arkitekt SCB' is on the right. The background shows a laptop on the left, a spiral notebook and a pen at the bottom, and several sheets of paper with charts and graphs in the center and right. Hands are visible interacting with the laptop and papers.

HEADLIGHT

Marcus Fredriksson

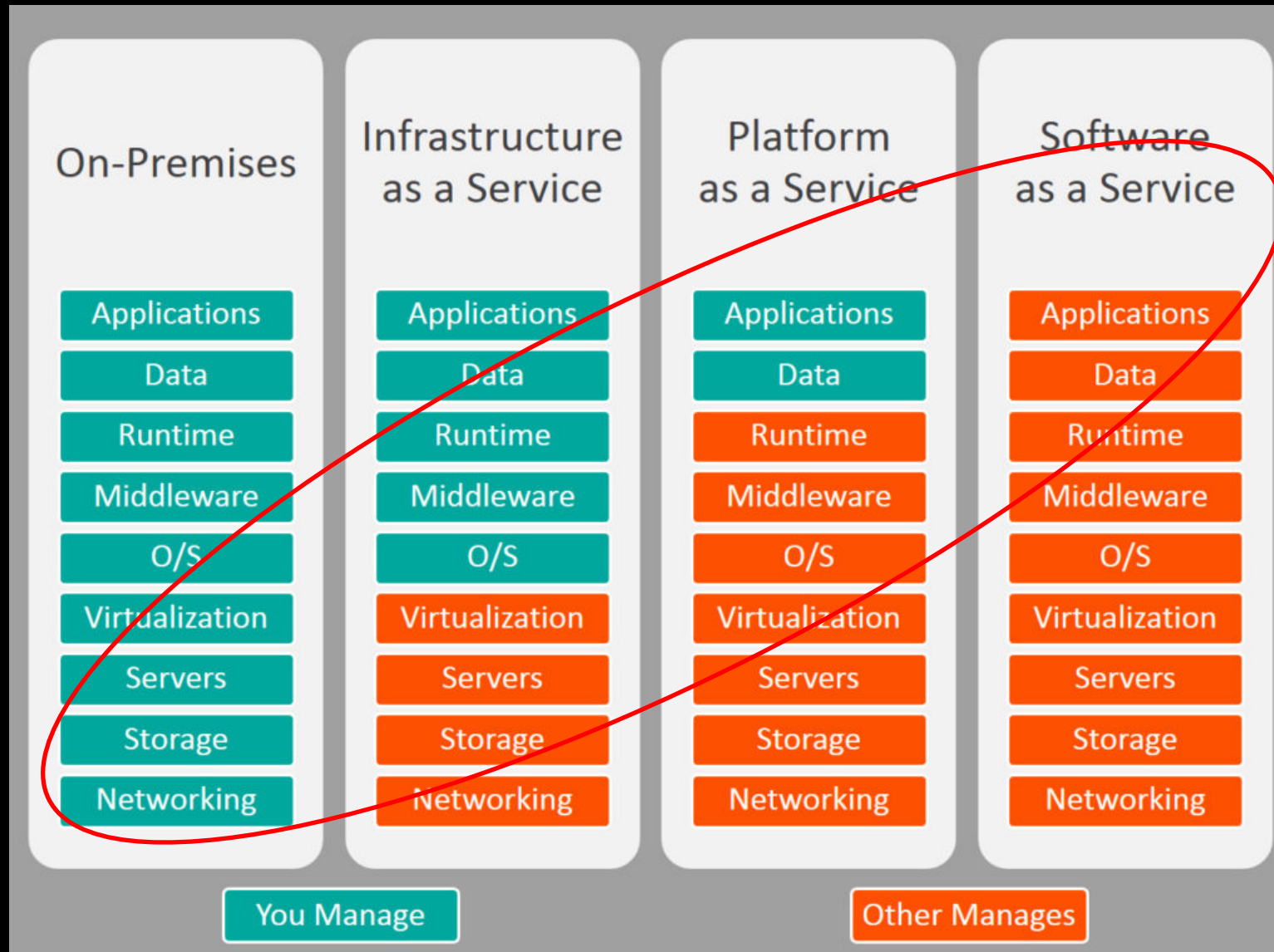
IT-Arkitekt
SCB

Public sector requirements on cloud

Agenda:

- Perspektiv på molntjänster
- Informationssäkerhet
- Myndigheters krav på molnet
- Summering

Public sector requirements on cloud

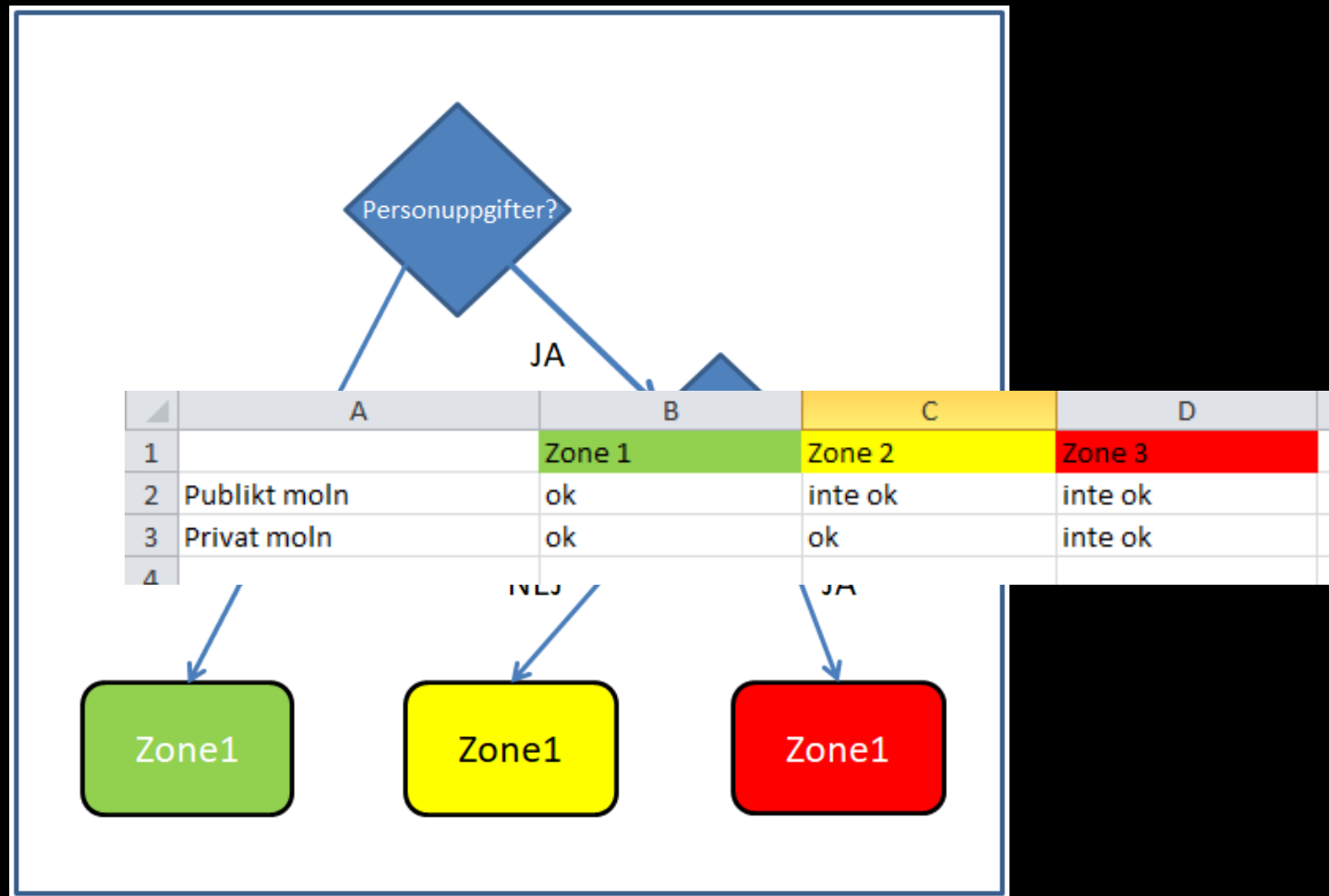


Public sector requirements on cloud

Informationssäkerhet

- GDPR, PUL
- Data in Sweden

Public sector requirements on cloud



Public sector requirements on cloud

Summering:

- Inventera er information och vad som är skyddsvärt.
- Analysera var ni kan få mest effekt av molntjänster.
- Besluta om molnet är lämpligt för den skyddsvärda informationen.
- Tydliggör det egna ansvaret och leverantörens ansvar.
- Var inte rädda för ny teknik, testa och lär er.

Tack!

marcus.fredricsson@scb.se

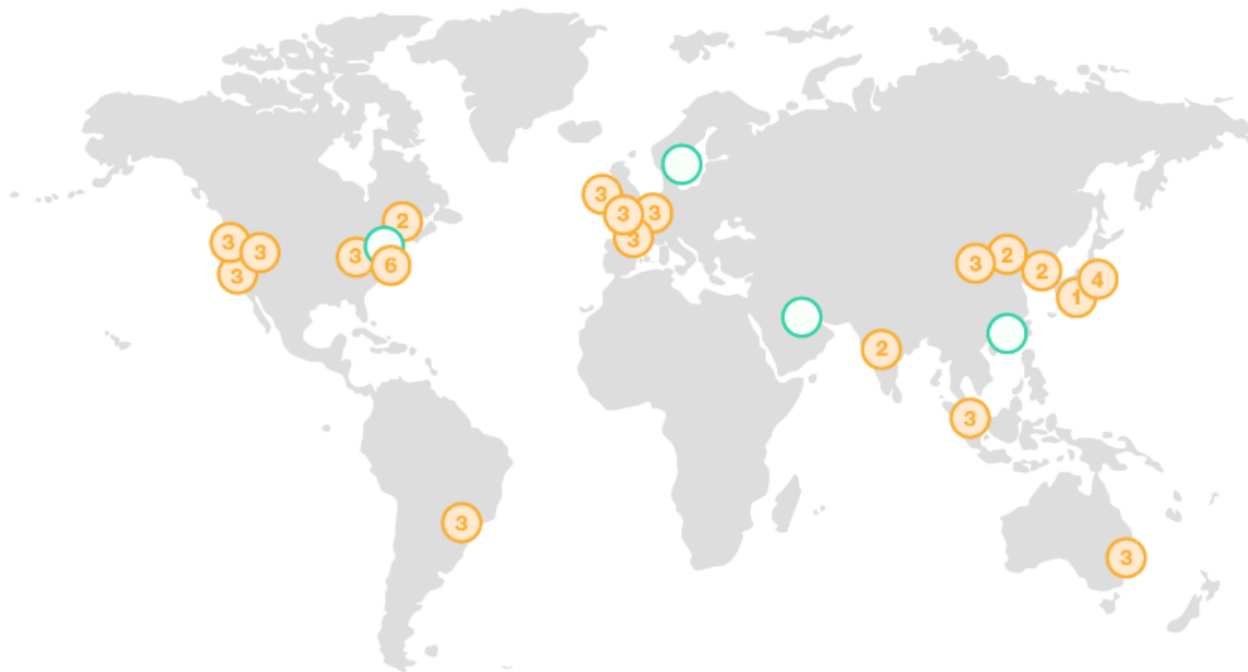


Public Sector: A Global View

Tim Rains, EMEA Regional Leader Security & Compliance
Worldwide Public Sector

AWS Global Infrastructure

18 Regions – 55 Availability Zones



Region & Number of Availability Zones

US East

N. Virginia (6),
Ohio (3)

China

Beijing (2),
Ningxia (3)

US West

N. California (3),
Oregon (3)

Europe

Frankfurt (3),
Ireland (3),
London (3),
Paris (3)

Asia Pacific

Mumbai (2),
Seoul (2),
Singapore (3),
Sydney (3),
Tokyo (4),
Osaka-Local (1)¹

South America

São Paulo (3)

**AWS GovCloud (US-
West) (3)**

Canada

Central (2)



New Region (coming soon)

Bahrain

Hong Kong
SAR, China

Sweden

**AWS GovCloud
(US-East)**

Global and Regional Accreditations & Certifications



CSA
Cloud Security
Alliance Controls



ISO 9001
Global Quality
Standard



ISO 27001
Security Management
Controls



ISO 27017
Cloud Specific
Controls



ISO 27018
Personal Data
Protection



SOC 1
Audit Controls Report



SOC 2
Security, Availability,
& Confidentiality
Report



SOC 3
General Controls
Report



PCI DSS Level 1
Payment Card
Standards



CJIS
Criminal Justice
Information Services



DoD SRG
DoD Data Processing



FedRAMP
Government Data
Standards



FERPA
Educational Privacy
Act



FFIEC
Financial Institutions
Regulation



FIPS
Government Security
Standards



FISMA
Federal Information
Security Management



GxP
Quality Guidelines
and Regulations



HIPAA
Protected Health
Information



ITAR
International Arms
Regulations



C5 [Germany]
Operational Security
Attestation



**Cyber Essentials
Plus [UK]**
Cyber Threat
Protection



G-Cloud [UK]
UK Government
Standards



**IT-Grundschutz
[Germany]**
Baseline Protection
Methodology



FISC [Japan]
Financial Industry
Information Systems



IRAP [Australia]
Australian Security
Standards



K-ISMS [Korea]
Korean Information
Security



**MTCS Tier 3
[Singapore]**
Multi-Tier Cloud
Security Standard



**REGULATION 2016/679
[EU]**
Processing of personal
data

<https://aws.amazon.com/compliance/>

Security Assurance

On-premises

- Start with **bare concrete**
- **Periodic** checks
- **Workload-specific** compliance checks
- Must keep pace and **invest in security** innovation
- **Heterogeneous** governance processes and tools
- Typically **reactive**

On AWS

- Start on **accredited services**
- **Continuous** monitoring
- Compliance approach based on **all workload** scenarios
- **Security innovation** drives broad compliance
- **Integrated** governance processes and tools
- Focus on **prevention**

Security Advantages

On-premises

- Big Perimeter
- End-to-End Ownership
- Build it all yourself
- Server-centric approach
- De-centralised Administration
- Focus on physical assets
- Multiple (manual) processes

On AWS

- Micro-Perimeters
- Own just enough
- Focus on your core values
- Service-Centric approach
- Central control plane (API)
- Focus on protecting data
- Everything is automated

Advantages of the API

- **Authoritative** - The interface to, and between, AWS services
- **Auditable** – always know what, and who, is doing what
- **Secure** – verified integrity, authenticated, no covert channels
- **Fast** - can be read and manipulated in sub-second time
- **Precise** – defines the state of all infrastructure and services
- **Evolving** – continuously improving
- **Uniform** - provides consistency across disparate components
- **Automatable** - Enables some really cool capabilities

AWS Cloudstart Helps Governments Digitally Transform

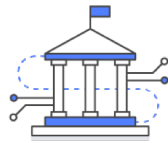
An AWS global initiative to support economic development in international markets to service public sector digital transformation



What program does

- Create “born-in-the-cloud” (BIC) networks to promote economic development
- Help public sector organizations achieve digital transformation
- Provide jobs for digital skilled workforce with ICT companies that seek top talent

Who we work with



Govtechs



Smart City



Edtechs



Healthtechs

Benefits SMEs receive



Basic Cloud Skills



Promotional Credits



Training and Qwik labs

Providing FREE resources to jump start SMEs
on cloud that EDOs want to support

Questions?



Sign up:

EDOs: www.aws.amazon.com/cloudstart

SMEs: www.aws.amazon.com/cloudstart/customer/

Contact us: cloudstart@amazon.com





Thank-you!