



This is not an ADB material. The views expressed in this document are the views of the author/s and/or their organizations and do not necessarily reflect the views or policies of the Asian Development Bank, or its Board of Governors, or the governments they represent. ADB does not guarantee the accuracy and/or completeness of the material's contents, and accepts no responsibility for any direct or indirect consequence of their use or reliance, whether wholly or partially. Please feel free to contact the authors directly should you have queries.

# Security as Transformation Enabler

Kim Kuok Chiang

Senior Security Advisor (APJ)

Amazon Web Services

[kuokk@amazon.com](mailto:kuokk@amazon.com)

# Global Cloud Services

Infrastructure allows you to run workload

You have the same access and capabilities no matter where you are

200+ fully featured services from data centers globally



Cloud is fundamentally  
different;  
You have to **adapt**



# UK National Cyber Security Centre

Updating Cold War era data classification unblocked government digital transformation.

Past policies were based on outdated and less functional IT.

“UK modernization of data classification concepts and processes enabled more responsive public services, as well as massive savings (£1.7bn in 2014 alone).”



<https://aws.amazon.com/blogs/publicsector/how-updating-cold-war-era-data-classification-unblocked-government-digital-transformation/>

# Builder mindset

New cyber threat model

Refresh policies

## New results

Real-time flood alerts

Access to education



# Protect identities, infrastructure, applications and data



# Identity and Access Management

Multi-Factor Authentication (MFA) everywhere

Granular permissions

Continuous verification



# Network

Micro segmentation

Combine identity + network controls

Encrypted traffic is everywhere  
( $\geq$  TLSv1.2)





# Data Protection

Digital sovereignty of your data

Encrypt everything

Use encryption keys for access control

Confidential computing using AWS Nitro System



# Collaborative Community

Build a strong security culture

Everyone has a role in security

Cyber owns, builds and operates security services





# Thank you!

Kim Kuok Chiang

AWS Senior Security Advisor (APJ)

[kuokk@amazon.com](mailto:kuokk@amazon.com)

# Resources

- How updating cold war era data classification unblocked government digital transformation? [blog](#)
- Create real-time flood alerts with the cloud. [blog](#)
- Sekolah.mu secures education service for 11 million students. [Blog](#)
- UK National Cyber Security Centre – [cloud security resources](#)