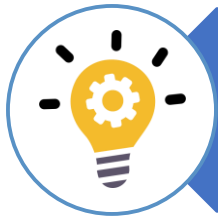# Modernising Security and Enabling Cloud Journey
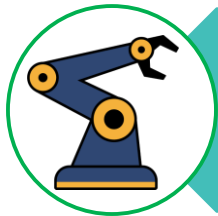
12 October 2022
OGCIO

Cloud Services within the Government

Government Cloud Infrastructure Services (GCIS)

- Infrastructure as a Service (IaaS)
- Platform as a Service (PaaS)
- Database as a Service (DBaaS)
- Container as a Service (CaaS)

Technologies

- Artificial Intelligence
- Blockchain
- Big Data Analytics

e-Services

- Examples:
  - ➢ iAM Smart
  - ➢ Electronic Vaccination and Testing Record System

Government Public Cloud Services (GPCS)

- 50+ Services Providers
- 400+ Cloud Service Options

Security Consideration for Cloud Adoption

CLOUD SECURITY

Management Responsibilities
- Risk-based assessment
- Security management practices and controls

Operational Security
- Vulnerability management
- Logging, monitoring and backup
- Change and incident management

Data Security
- Encryption
- Data centre security
- Network-level protections

Personnel Security
- Clearly defined roles and responsibilities
- Obligation of confidentiality

Identity & Authentication
- Logical access control
- Identity and access management architecture
- Multi-factor authentication

Governance & Compliance
- Security risk assessment
- Compliance audit

Government's Cyber Security Strategy

- **Protection within the Government**
- **Local and International Collaboration**
- **Supporting the Community**
- **Nurturing Talent**

Protection within the Government

Governance & Organisation

- Framework of information security management and incident response

- IT security policy and guidelines

- Compliance audit

Process

- Security by design

- Privacy by design

- Practice Guides, in particular one on Cloud Computing Security

Technology

- Multi-layered defence measures

- Zero trust architecture

People

- Staff capability

- Cyber security awareness

- Nurturing talent

5

Local Collaboration

1200+
MEMBERS

~2300
REPRESENTATIVES

10+
INDUSTRIES/SECTORS

Cybersec Infohub

Figures as of Sep 2022

Trust

Collaboration

Sharing

Support

International Collaboration

GovCERT.HK
Government Computer Emergency Response Team Hong Kong

FIRST
Forum of Incident Response and Security Teams

HKCERT
Hong Kong Computer Emergency Response Team Coordination Centre

CERT/CC
Computer Emergency Response Team / Coordination Center

APCERT
Asia Pacific Computer Emergency Response Team

Supporting the Community

- Check Your Cyber Security Readiness Tool

- Incident Response Guideline

- Practice Guide for Cloud Computing Security

- Cybersec Training Hub

- Free In-depth Website Security Scan Services

- Suspicious Email Detection System (V@nguard)

- Technology Voucher Programme

Nurturing Talent

ITC
Technology Talent Admission Scheme (TechTAS)

techtas.itc.gov.hk

HKIRC
Cyber Youth Programme
Game aided Cyber Security Learning for Primary School Students

HKIRC
Cyber Youth Programme
Training Course for Secondary School Students

HKCERT
Capture the Flag Challenge

CTF 2022
香港網絡保安新生代
Hong Kong Cyber Security New Generation
奪旗挑戰賽
Capture the Flag Challenge
2022 Nov • 11TH - 13TH

THANK YOU