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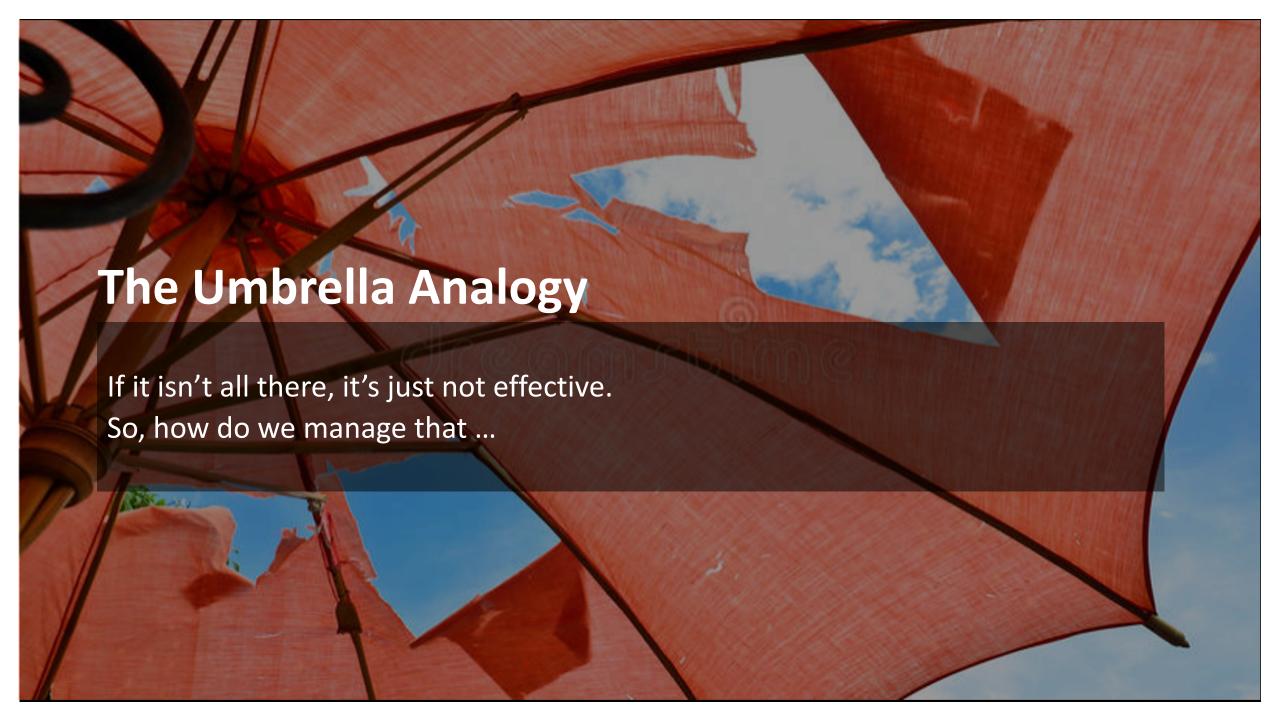
The Cybersecurity Umbrella

Peter Fizelle, Chief Information Security Officer, Principal IT Specialist (Cyber) 26 October 2021



Agenda 1 3 4

- 1 What's the Umbrella concept
- 2 Align business goals & objectives
- 3 Develop an effective governance framework
- 4 Manage that governance framework



Align business goals & objectives

Businesses cannot operate without security..

And security's goal is to enable safe business operations.





Develop an effective governance framework

Let the organization know what is required of them

Step 1 Consult relevant security framework

• NIST V1, ISO 27001

Step 2 Incorporate security requirement in project stages

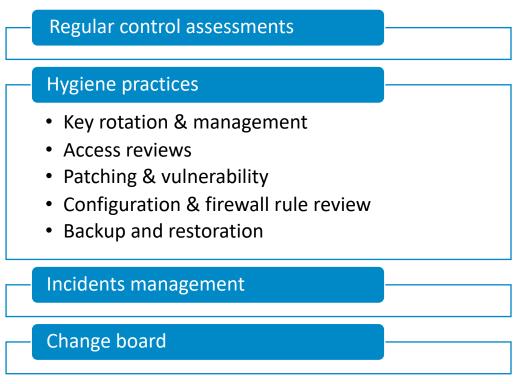
- Plan
 - Security Guardrails
 - Cloud Risk & Adoption Framework
- Analysis & Design
- Build
- Test
- Deploy (SLTO)

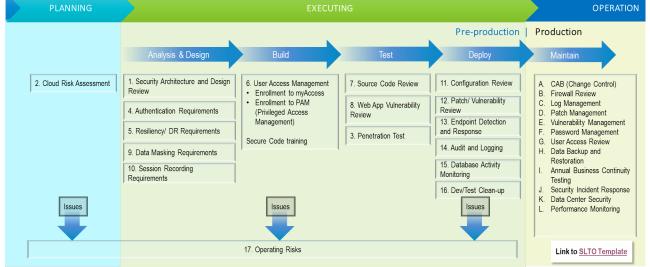




Develop an effective governance framework

Once it's live, it can't be forgotten...







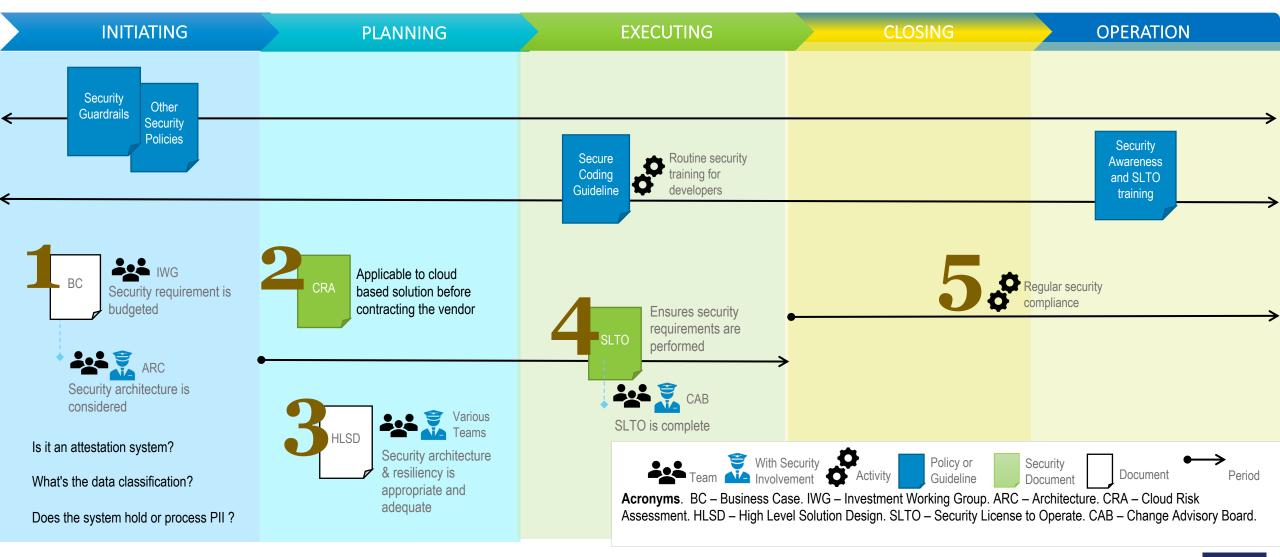
That's all folks



Supporting Slides



Cyber Security in the Project Life Cycle





Security Guardrails

What the vendor do to ensure their security controls

- Respond to our cloud risk assessment (CRA)
- Provide third party audit reports (SOC 1 and/or SOC 2, security test reports)
- Regular security testing of their product
- Knowledge of secure coding
- Connect to ADB through jump host

How the infrastructure is built and maintained

- Integration with ADB's HIP
- Resiliency, BC/DR requirements
- Segregated environments (Dev, test, prod)
- Patches and updates

How do we know if something goes wrong

- Integration with ADB's Security Incident & Event Monitoring (SIEM- QRadar)
- Alert and notification
- · Availability of reports, audit trails

Link to the guardrails is <u>here</u>



How users log in and obtain their rights

- Single-sign-on (SSO)
- Integration with ADB's IDM (MyAccess)
- Multi-factor authentication
- Fine-grain authorization

Security controls in relation to specific business processes

- Maker-checker controls in key processes (e.g. disbursements)
- Transaction signing for critical transactions (e.g. for fund disbursement)

How data is transmitted between systems

- Encryption of communication channels
- IP whitelisting

How data is stored in systems

- Encryption of data
- Management of encryption keys



Security License To Operate (SLTO)

