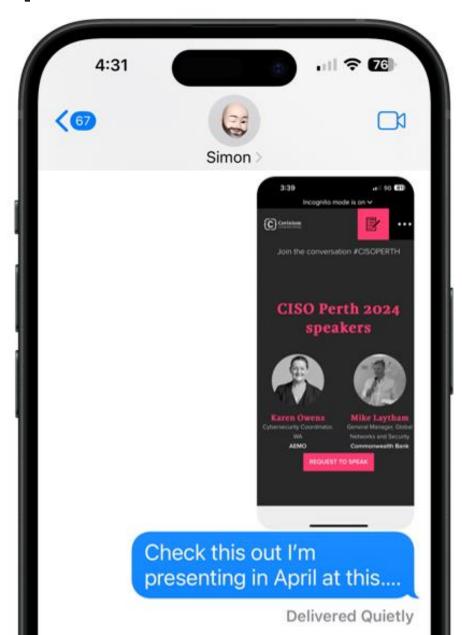
MIKE LAYTHAM

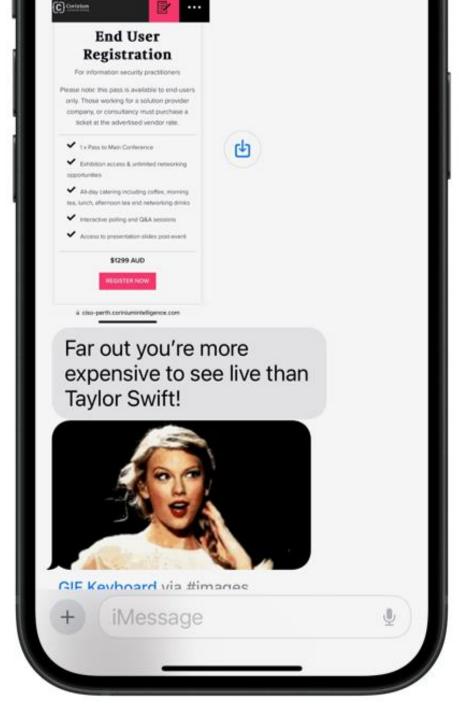
Engineering General Manager

CBA Global Networks/Security & Bankwest Technology

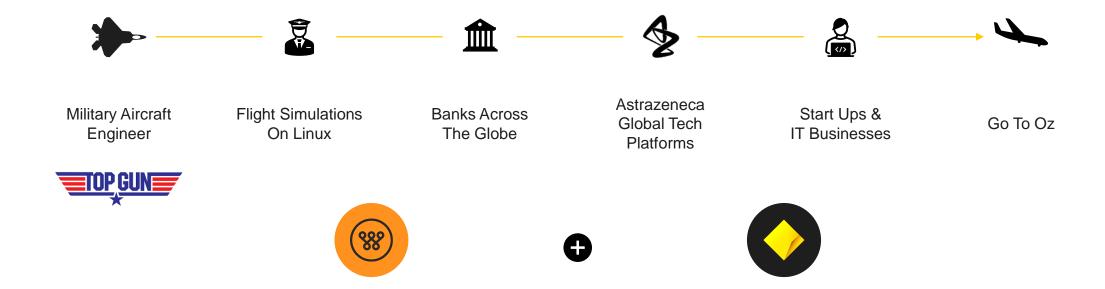


Blank Space





About me



BANKWEST General Manager of Technology Platforms

Networks & Security
Cloud/hosting
Mainframe
Digital Workplace
Service Management

COMMONWEALTH BANK Engineering General Manager for Commonwealth Bank Global Networks and Security

Reporting into the Group CTO

Cyber Leadership Team



Availability and security go hand in hand

66

You have the most dangerous job in the bank

9.

Bob Bigman

Former CIA - Chief Information Security Officer (CISO)



They want Mach 10?
Let's give them Mach 10

Size of the Prize



Size of the Prize



42%

of the Australian economy goes through CBA





\$16,000,000,000,000.00

(\$16 Trillion Dollars)

1 8 billion transactions



just mobile app

22 million customers





Cyber

108,682,056,364

Signals analysed

210,000,000

DDoS Blocks





Biggest deltas on DoS requests last month

Brazil



Don't think, just do.

Can't see the wood for the trees













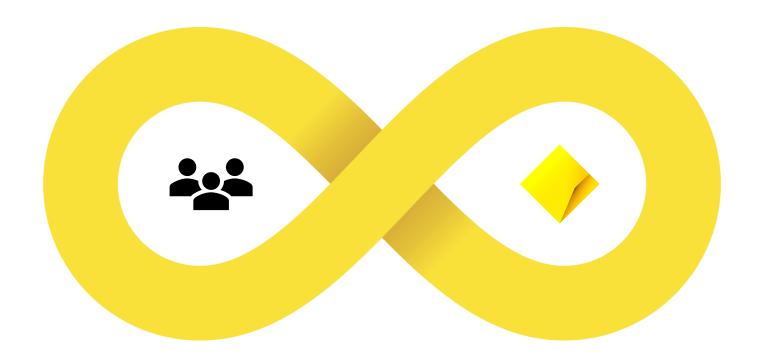






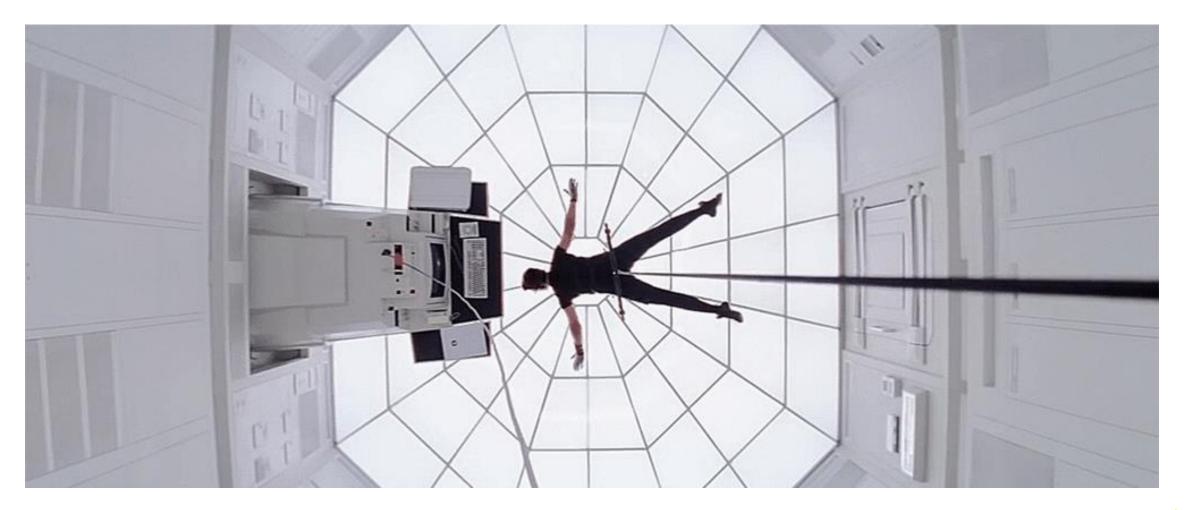


Partners that play well together





People over dramatize





Get the basics right





72 minutes

Average time from click to being in the system

99% Basic security hygiene still protects 99% of attacks

The Basics

Enable multifactor authentication (MFA)

Apply Zero Trust principles

Use extended detection and response (XDR) and antimalware

0-0

Keep up to date

Protect data



Tech Lifecycle Management



Asset identification – can't fix what you don't know



Can't leave it until the last minute – Decision process

Otherwise struggle to patch





3 Year view - End of Life & End of Support







Move to fully automated

at a business service level not a server



Traditional thinking



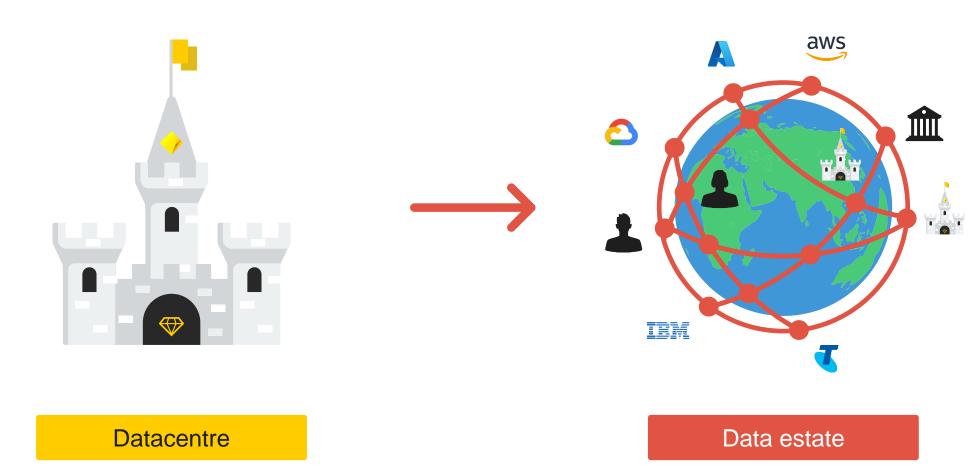
Traditional security tools

- Keep unauthorised out
- Not track and protect data
- OK as data didn't go anywhere



No longer a Datacentre

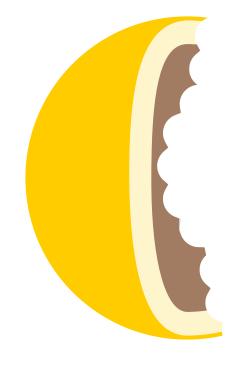
In 2023 **47%** of all data breaches in organisations originated in the cloud





Crunchy M&M – Nom Nom Nom

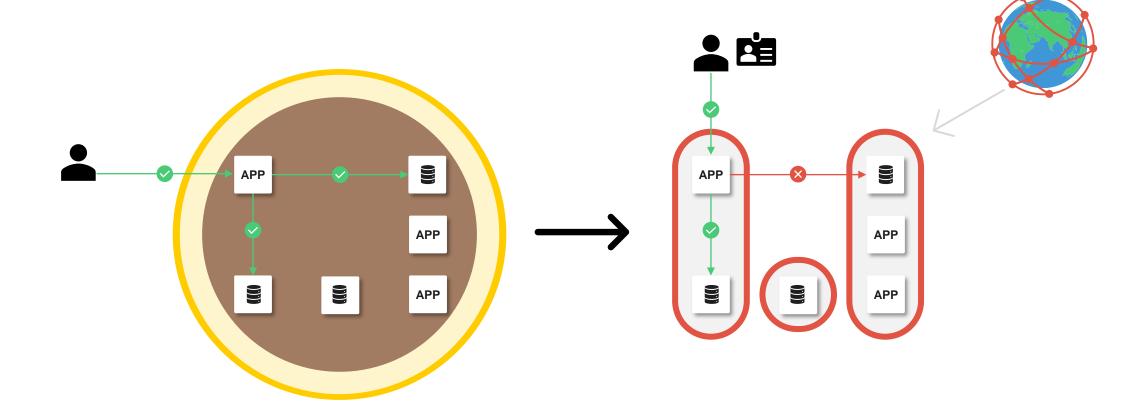
Nice secure exterior wrapped around all the nice goodness



...but once you get through it you've got the lot



Identity is the new perimeter – Zero Trust



TRADITIONAL

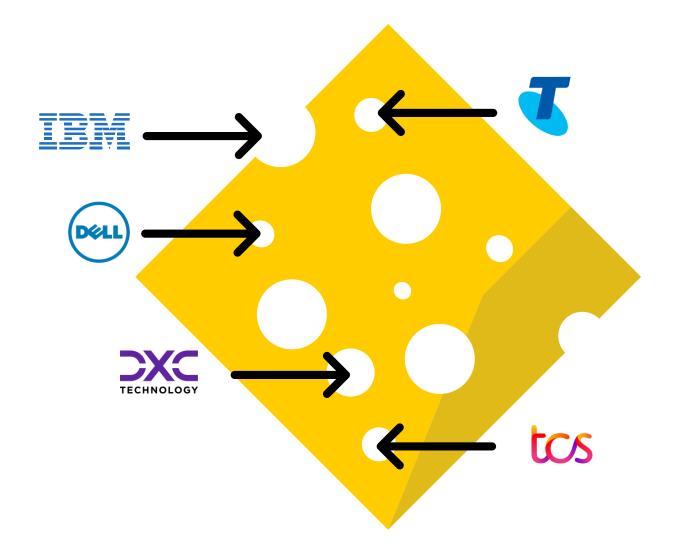
Access enforced by firewalls and policy enforcement controls

MICRO SEGMENTATION

Access enforced by secure segmentation and individual control points around critical assets



Swiss cheese

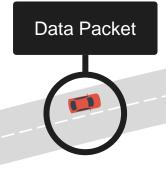






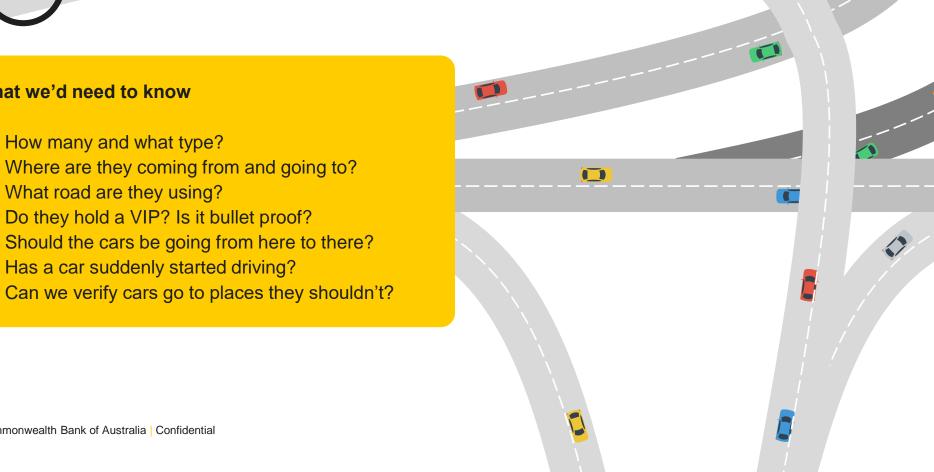


How do we know what is going on now?



What we'd need to know

- How many and what type?
- What road are they using?
- Do they hold a VIP? Is it bullet proof?
- Should the cars be going from here to there?
- Has a car suddenly started driving?
- Can we verify cars go to places they shouldn't?





Creating a digital twin



Network Graph, compares the observed state with the declared state of the network, identifying anomalies

- Complete visibility of the network in near real-time
- Spotting of anomalies Prod connected to Dev
- Identifying insecure protocols being used ftp, telnet...
- Strengthen Cyber defence
- Grounding for Generative AI
- Know the impact of change Risk Blast zone
- Accelerated cloud migration & reduced outages
- Faster decommissioning of assets

70 Billion packets of data ingested every day and increasing



I feel the need, the need for speed





Manual is too slow and complex



Firewall burns



Patching



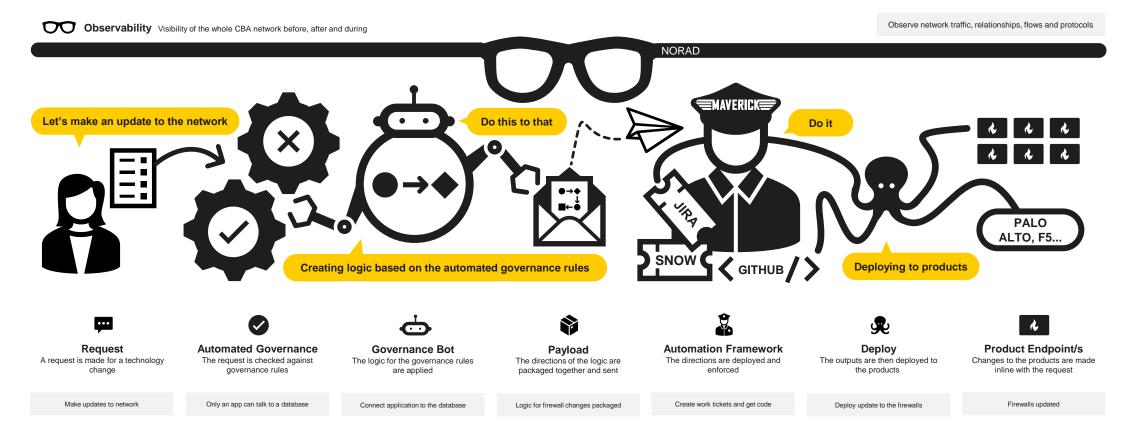
Detection

Security must operate at machine speed





Automating our Network Services





Talk to me Goose.

Can't think about cyber in isolation





Availability



Customer experience



Security



Financial Management

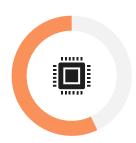


Risk & Impact



What worries me

The proliferation of digitisation of the world is the worry



57% of OT devices use firmware versions exposing them to more than 10 CVEs. firmware reducing exploitable CVEs has been available for more than **10 years** Imagine replacing the word OT with IT – what would you do?



1 in 3 IoT devices with known vulnerabilities on customer networks can't be patched



1 in 4 OT devices on customer networks use unsupported systems



The number of DDoS-for-hire platforms continues to rise, with **20%** having emerged in the past year alone



Cyber has moved on from laptops and servers to any entry point







This is a nice moment, let's not ruin it





Thank you

