

The New Era of Cyber-Threats: Shifting to Self-Learning, Self-Defending Networks Sam Alderman-Miller, Account Executive



## Agenda

- Understand the new trends in today's cyber-threats, including automated attacks, and 'trust attacks'
- Learn about an 'immune system' approach for cyber defence, based on machine learning and mathematics
- Discover real-world threat incidents that were not caught by traditional security controls – including IoT compromises

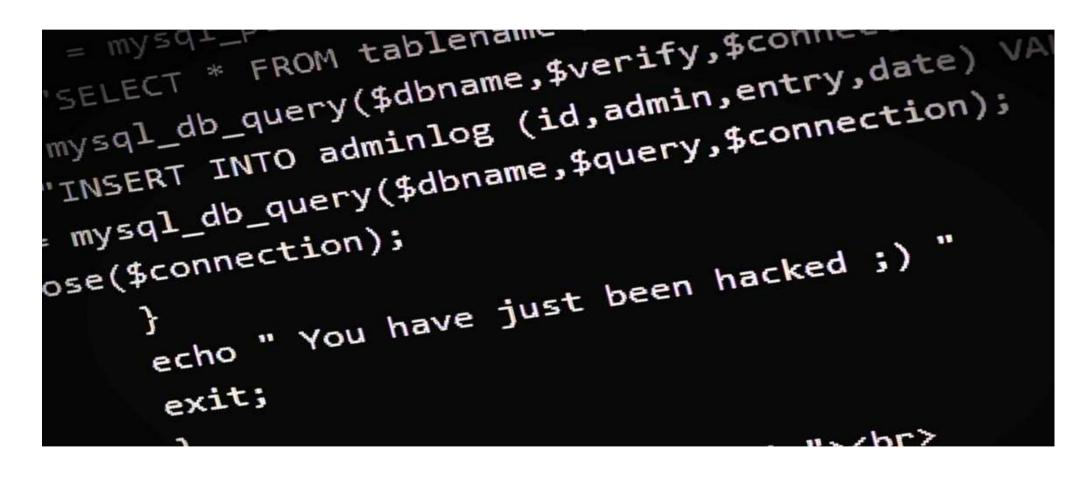








## New Era of Cyber Threats: Automated Attacks



## **Trust Attacks**

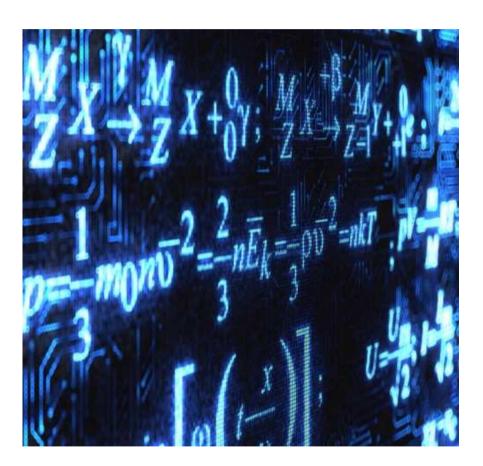






# The Opportunity: Machine Learning & Mathematics

- Learns what is 'normal'
- No need for prior knowledge & context (unsupervised)
- Saves you from being inundated by security alerts
- Models every user and device in the network
- Real time





## An Immune System for the Enterprise?

- Sits in the heart of the network
- Starts modelling immediately
- Provides 100% visibility
- Identifies threats early
- Correlates weak indicators
- Allows for play-back and investigation

"It grows with you" – Financial Services customer



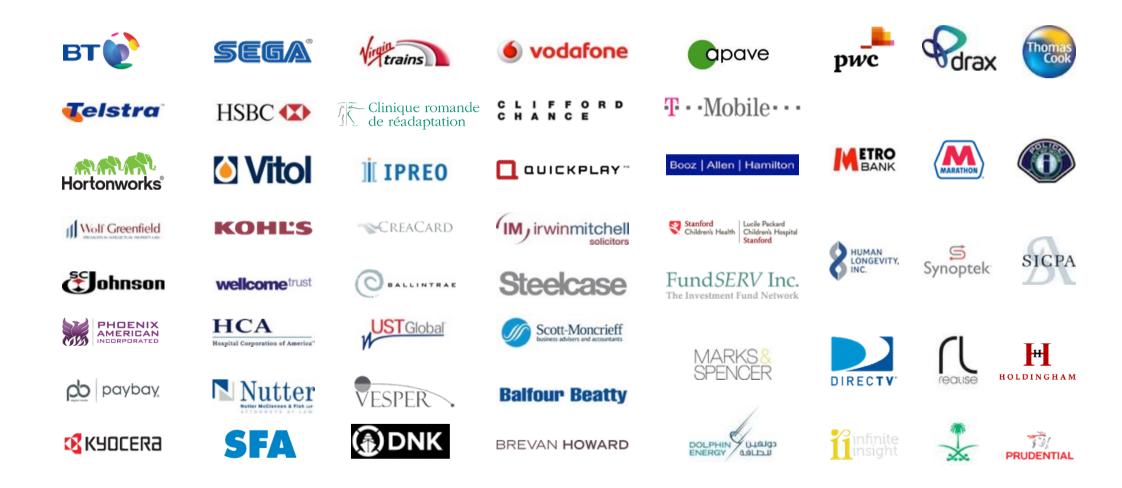
## Real-World Threat: Biometric Scanner

- Biometric building access system breached
- Fingerprint records taken from company network
- Physical security compromised by digital attack
- Hacker could alter levels of authorisation
- Logs edited to cover tracks



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#### Organisations Using the Enterprise Immune System







### Conclusion

- The battlefield is now inside corporate networks
- Rules and signatures don't work
- No security team, no matter how large, can keep up with new era of machine threats
- Darktrace uses a fundamental new approach



