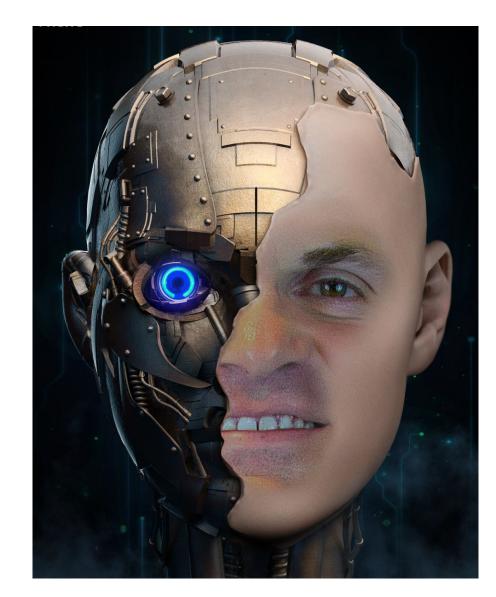
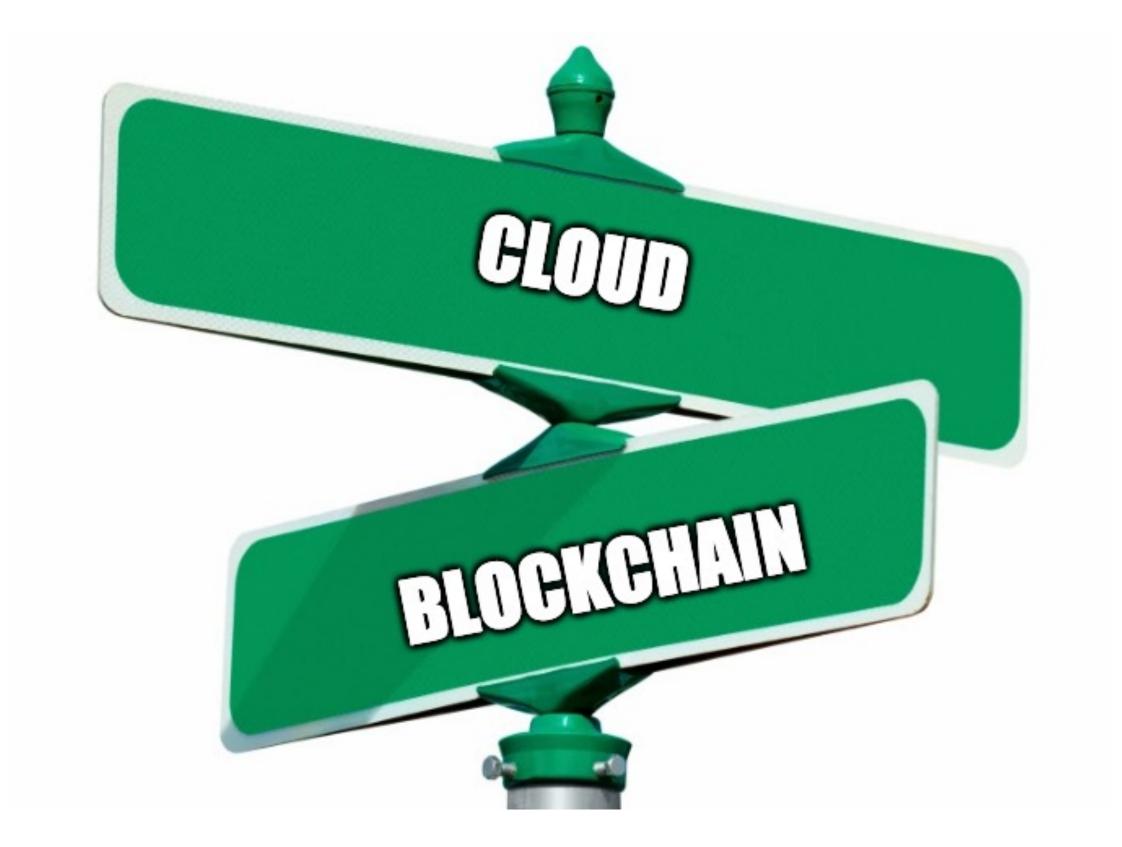
THE FUTURE OF CYBERSECURITY

AT THE INTERSECTION OF CLOUD AND BLOCKCHAIN



Jim Reavis CEO, Cloud Security Alliance





What are our concerns for the future of Tech?

- Big Cloud growth leads to risk concentration concerns & more direct cloud attacks
- Massive increase in compute in all dimensions (Cloud, Big Data & IoT)
- ... enabled by 2 game changers: 5G & Quantum Computing
- Challenges ability to "scale up" security
- Risks a long term loss of privacy
 - GDPR is not the last privacy regulation, more are coming with possibly stricter requirements
 - National governments will race to implement privacy laws to protect citizens and punish foreign competitors
 - Enterprises bracing for greater accountability (and liability) for PII (personally identifiable information) stewardship and breaches

Enterprise Directions to Mitigate Risk

- Viewing cloud as the platform for delivering pervasive cybersecurity:
 Security as a Service
- Security at Scale via Automation
 - DevOps/DevSecOps
 - Machine Learning/Al/Data Sciences
- Highly virtualized architectures and frameworks
 - Zero Trust & Software Defined Perimeter
 - Microsegmentation
 - Containerized, Microservices & Serverless
 - Structured frameworks and orchestration to shrink threat windows
 - Highly dependent upon identity and crypto implementation
- Cloud security skills upgrade needed
- Exploring how Blockchain can be leveraged as a security solution

Blockchain as a Security Game Changer?

- Blockchain: the immutable logging infrastructure at the heart of cryptocurrencies
 - Implementation growing out side of Bitcoin, e.g. supply chains
 - Distributed, sometimes seen as "anti-cloud"
- Wide variety of implementations: Permissioned vs permissionless,
 Consensus models, Chaining, Forking
- Cyber security is very dynamic and in some ways resembles a supply chain
- Blockchain provides a security, transparency, accountability layer on top of cloud, and puts it in the hands of the users
- Blockchain + Cloud = Worldwide ledger of trust

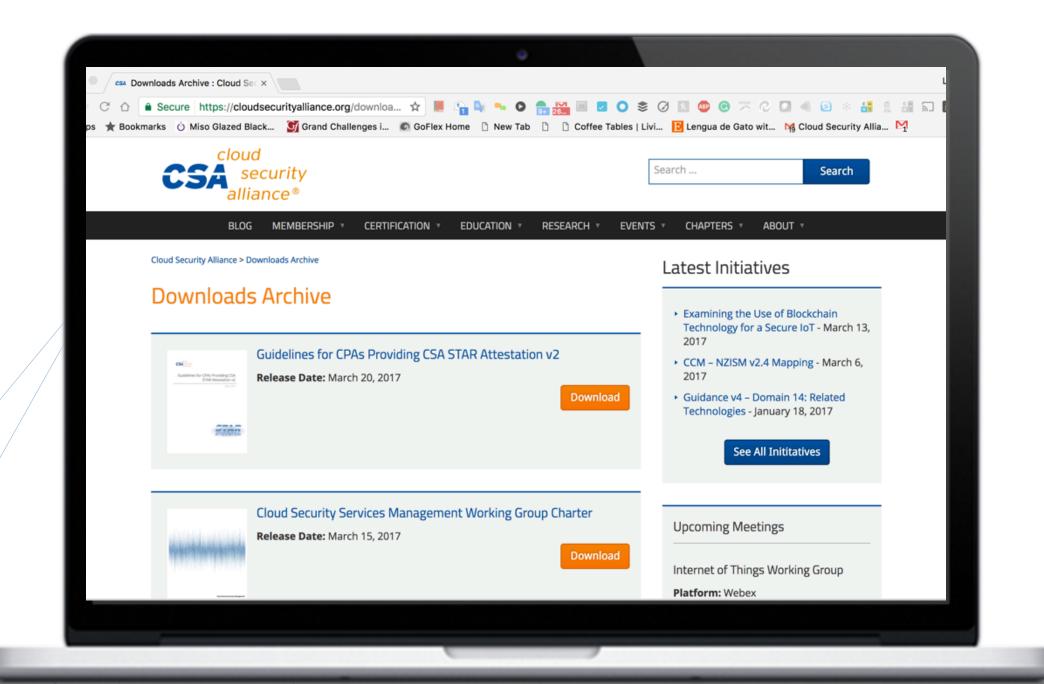
Cybersecurity at the Intersection of Cloud & Blockchain



- We predict a few standard Blockchains will be implemented as Global utilities for Cybersecurity:
- 1. Professional Credentialing: a Blockchain tracking a professional's expertise and education as a pseudo-cryptocurrency
- 2. Organizational Assurance: a Blockchain as an IT audit trail for a service provider's governance, compliance
- 3. Technology Stacks: a Blockchain that enumerates the different technical components of a solution (like the ingredients label in food)
- 4. Threat Intelligence: a Blockchain that allows trusted sharing of threat data



Thank You!



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