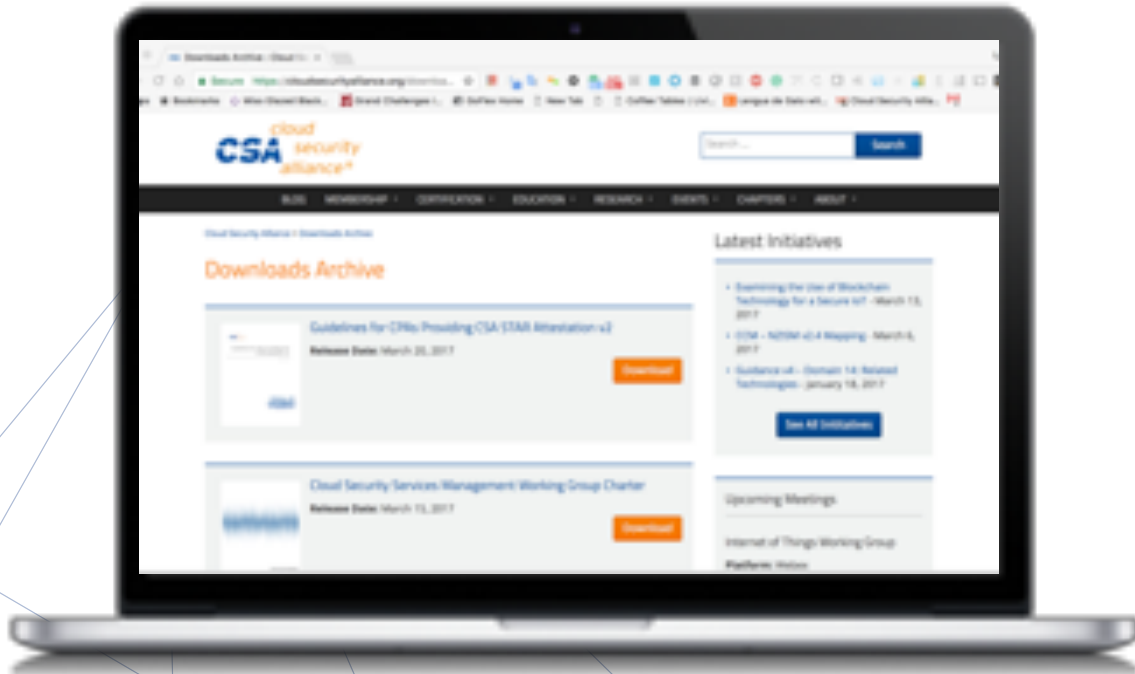


# Transitioning, Enhancing, and Innovating In the Cloud



*Presented by the Cloud Security Alliance*  
**John Yeoh** Global Vice President of Research



# CCSK<sup>TM</sup>

*Certificate of*  
**Cloud Security Knowledge**

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- Fundamental cloud security research that started CSA
- 4<sup>th</sup> version, released July 2017
- Significant enterprise lessons learned

DOWNLOAD at  
[WWW.CLOUDSECURITYALLIANCE.ORG/DOWNLOAD](http://WWW.CLOUDSECURITYALLIANCE.ORG/DOWNLOAD)

## SECURITY GUIDANCE

For Critical Areas of Focus  
In Cloud Computing v4.0



CSA  
Cloud Security Alliance

# Due Diligence in the Cloud

## Cloud Security Controls



- Common framework for technology, IS management
- Assesses the overall security risk of a cloud service
- Provides standardized security, operational risk management
- Harmonizes to security standards and compliance frameworks

## Provider Assessment Questions



- Questions to enable cloud computing assessments
- Establish the presence and testing of security controls
- Discover presence of security capabilities and gaps
- Document security controls in IaaS, PaaS, SaaS

## Provider Assessment Reports



- Provider listing of security controls
- Transparency, auditing, and harmonization of standards
- Level of assurance meeting requirements
- Industry acceptable

## Cloud Solutions Management Dashboard



- Solution to help organizations manage compliance
- Assign maturity and relevance scoring
- Provision and manage user access to assessments
- Compare assessments based on common criteria

# The Value Equation in the Cloud

**Security Service + Transparency Service =**

**Compliance & Trust  $\Rightarrow$  VALUE Captured**

...delivering evidence-based confidence ...

...with compliance-supporting data & artifacts ...

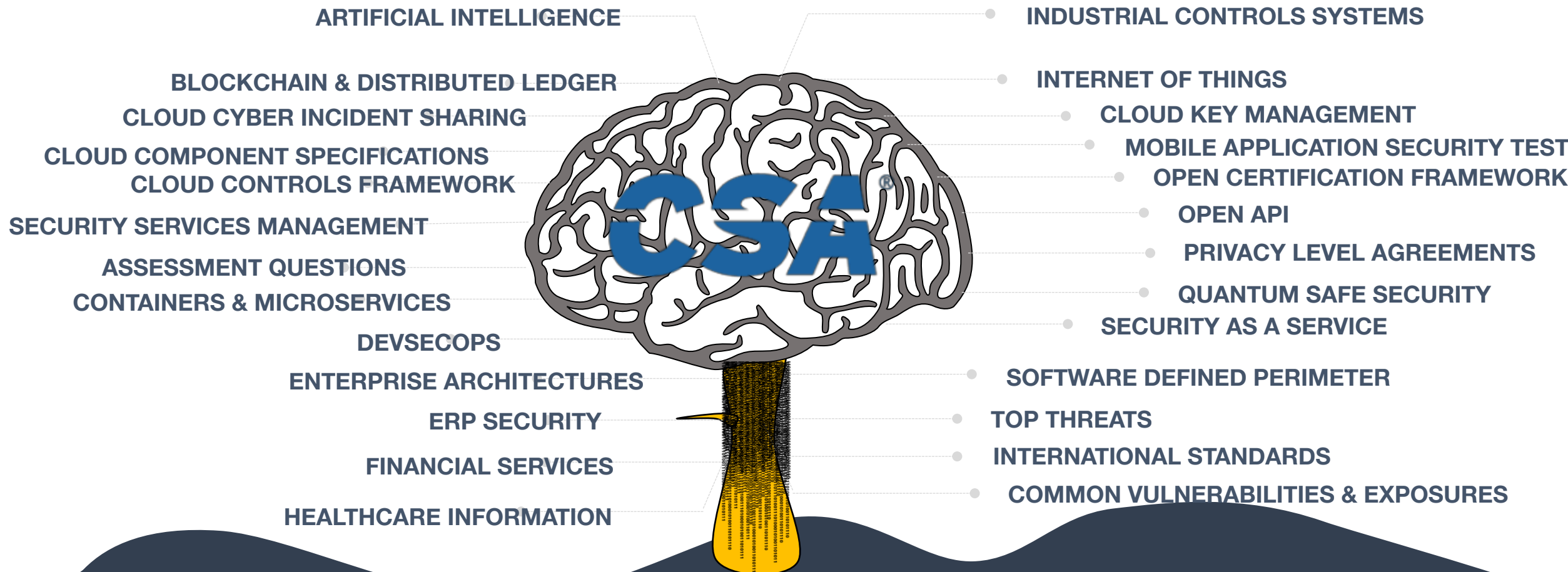
... using the best virtualization and cloud technologies ...

... within quality processes ...

... operated by trained  
and certified staff  
and partners ...

# CSA RESEARCH

28 ACTIVE PUBLIC Working Groups



EDUCATION



THOUGHT  
LEADERSHIP



TOOLS &  
STANDARDS



COLLABORATION

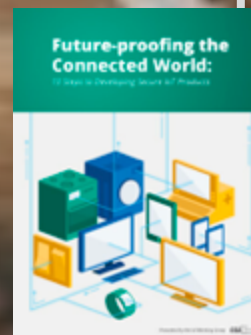


BEST  
PRACTICES &  
SOLUTIONS

# Transitioning

# Enhancing

# Innovating





1. Data Breaches (=)
2. Misconfiguration & inadequate change control (new)
3. Lack of cloud security architecture & strategy (new)
4. Insufficient identity, credential, access & key mgmt (-2)
5. Account hijacking (=)
6. Insider threat (=)
7. Insecure interfaces and APIs (-4)
8. Weak control plane (new)
9. Metastructure and applistrucre failures (new)
10. Limited cloud usage visibility (new!)
11. Abuse and nefarious use of cloud services (-1)

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## Top Threats to Cloud Computing

The Egregious 11



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Adoption of Cloud and Related Technologies

What Are Providers Doing About Security?

What Are Enterprises Doing About Security?

The Threat Landscape Is Changing

Working With Regulator

Industry Skills Gap

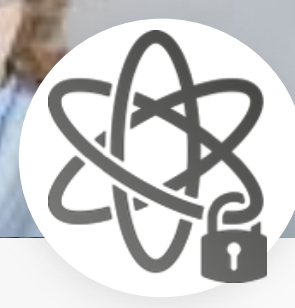


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IDEA!

SOLUTION



### Blockchain

Acted as a Digital Ledger for Cryptocurrency but can now be applied in new use cases.

### Internet of Things

Security for the management, orchestration, and analytics of new types of devices, systems, and data.

### Dev(Sec)Ops

Strives to automate security tasks and embed security into the DevOps Workflow.

### Artificial Intelligence

Promises to transform society on the scale of the industrial revolution before it.

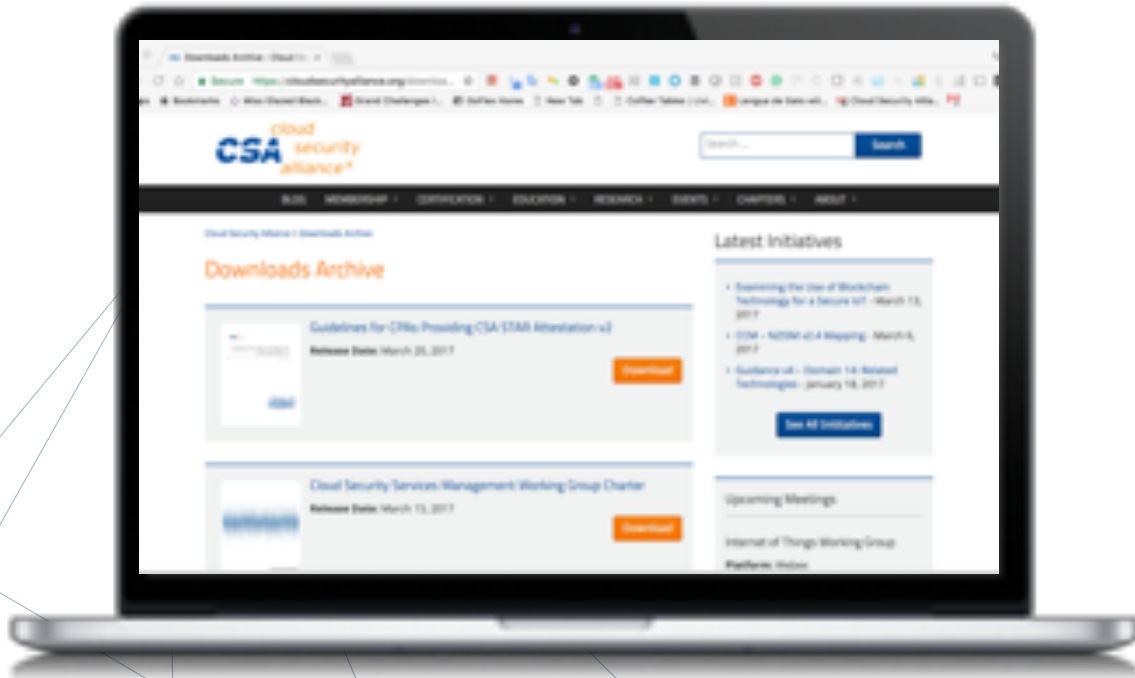
### Quantum Computing

Preparing for compute capabilities beyond traditional binary code and into the qubit era.

### Access Control/Key Mgmt

Identity, role based access utilizing key management, SDP, zero trust approach in the cloud.

# Thank You!



## Contact CSA

Email: [info@cloudsecurityalliance.org](mailto:info@cloudsecurityalliance.org)

Twitter: @CloudSA, @YoTheShow

Site: [www.cloudsecurityalliance.org](http://www.cloudsecurityalliance.org)

Download: [www.cloudsecurityalliance.org/download](http://www.cloudsecurityalliance.org/download)

Email for Craig Balding: [craig@resilientsecurity.co.uk](mailto:craig@resilientsecurity.co.uk)

