CDSA's App & Cloud Framework

May 27th 2020

TPN aims

- Improved content security in studio supply chain
- Common control set
- Efficient operations
- Shared audit reports for studios
- Reduced costs for vendors
- Global talent pool for auditors



New challenges

- Audience and revenues moving online
- Consolidation of digital production and distribution
- Rapid shift to cloud-based workflows
- New skills and security culture required

Content security

Evolution

UK Broadcasters, Production, Vendors

- Awareness Hygiene





- Checklist
- Self certified
- Oversight

US Studios



- Common controls
- Professional audit
- Shared data across members











Zero Trust

NETFLIX



Regulated

- Legislation
- Penalties



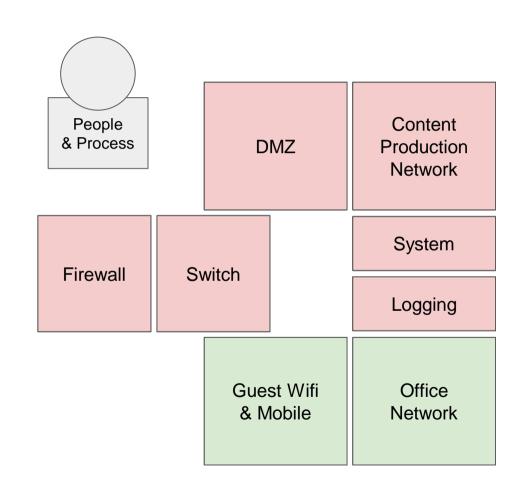


Guidance

Controlled

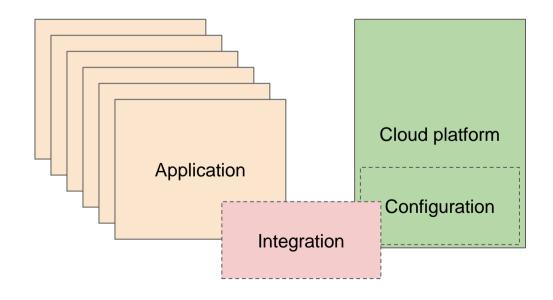
Security audit

- People & process
- Physical
 - Facility
 - Asset management
 - Transport
- Digital
 - Infrastructure
 - Content management
 - Content transfer
- Cloud
 - Software release



App & cloud.. & integration

- Code
- Staff
- Partners



Complex software

- Amazon
- Netflix
- Google

Changing Software

(DEV209-R1) - AWS
re:Invent 2018

Idon't feel trusted.

Auto-Rollback

"The Change"

You're not!

Releasing Mission-Critical Software at Amazon

Change Providence

https://www.slideshare.net/AmazonWebServices/releasing-missioncritical-software-at-amazon-dev209r1-aws-reinvent-2018

"The Process"

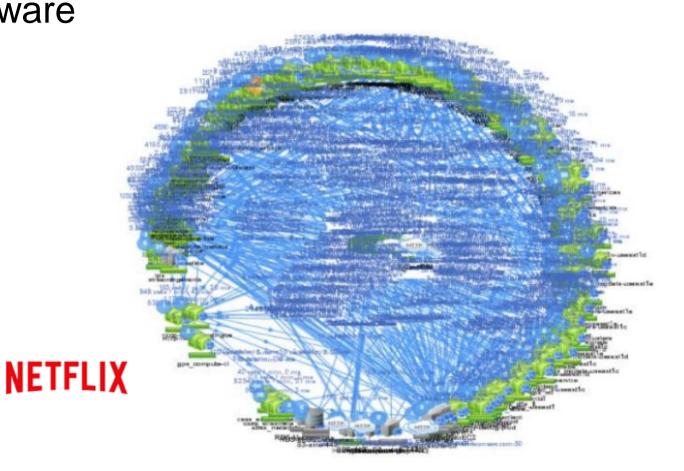


Health Tracking

re:Invent

Complex software

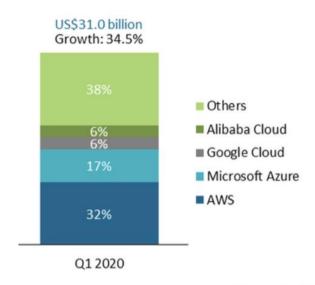
- Amazon
- Netflix
- Google



Shift to cloud

- It's all about software
- New economics CAPEX to OPEX
- Move the tools and skills to the work
- Frequency of audit

CDSA App & Cloud initiative launched to extend original programme to cover new use cases with a custom control set





Supply chain assurance

- Range of business sizes & types
- Effective security requires ongoing skills development
- Consistent approach depends on the weakest link in the chain
- Need to establish a security culture from CEO down

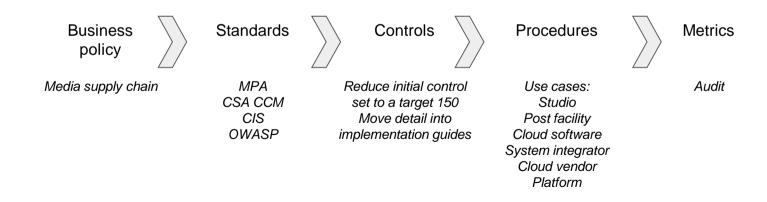


NBCUniversal

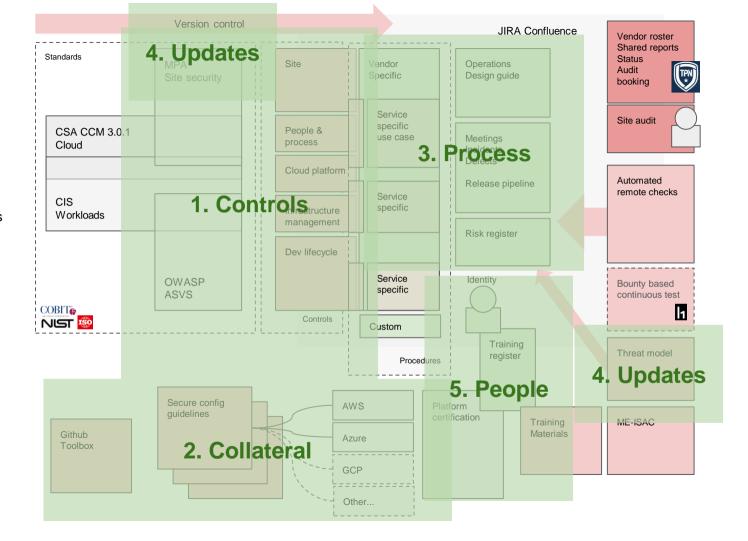


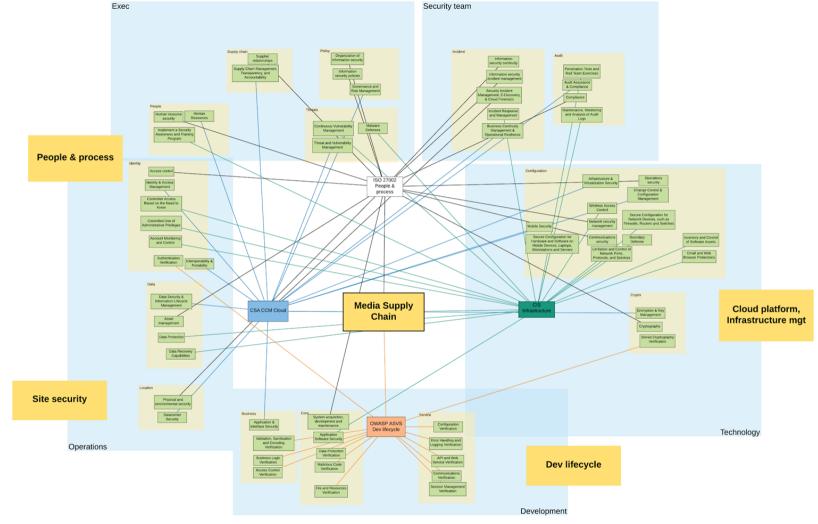
New approach

- Map controls from industry standards, with frequent updates
- Leverage cloud platforms best practice and design patterns
- Deliver documentation in a usable format that is easily applied to any size of business
- Automate tracking and checks to reduce the cost of audit
- Help develop new skills to build a security culture



- Reduce controls
 maintenance effort
- Leverage cloud platform collateral
- Usable documentation, easy to adopt approach
- 4. Highlight control changes and new threats
- Enable skills development





Control set

Index 😇	CDSA =	Control Domain =	Control Sub Domain	Updated Control Specification =	Status =	Control ID (CSA,CIS, OWASP,M PA)	Mapping Candidate	Review comments	+ +	TPN/MPA =	TPN Control Category Name	TPN/MPA Control ID	Control Description	System Type
7	People & process	Audit Assurance & Compliance	Independent Audits	Independent reviews and assessments shall be performed at least annually by a qualified assessor to ensure that the organization addresses nonconformities of established policies, standards, procedures, and compliance obligations.		CCM V3.0.1 AAC-03	CCM V3.0.1 AAC-03							
8	People & process	Audit Assurance & Compliance	Information System Regulatory Mapping	Organizations shall create and maintain a control framework which captures standards, regulatory, legal, and statutory requirements relevant for their business needs. The control framework shall be reviewed at least annually to ensure changes that could affect the business processes are reflected.		CCM V3.0.1 AAC-03	CCM V3.0.1 AAC-03	MSPP-5.2.1 PP-5.3 PP-5.3.3						
9	People & process	Business Continuity Management & Operational Resilience	Business Continuity Planning	A consistent unified framework for business continuity planning and plan developments halb be established, documented, and adopted to ensure all business continuity plans are consistent in addressing priorities for testing, maintenance, and informations security requirements. Requirements for business continuity plans include the following: Requirements for business continuity plans include the following: Defined purpose and scope, aligned with relevant dependencies: Accessible to and undenstood by those who will use them Owned by a named person(i) who in exponsible for their review, update, and approval of communication, roles, and responsibilities Detailed recovery procedures, manual work-around, and reference information Method for plan invocation		CCM V3.0.1 BCR-01	CCM V3.0.1 BCR-01	BCM-3.1.1	TPN App&Cloud	6.0	Data Protection	DP-6.15	Develop and implement a Service Continuity Plan for the resumption of information system functions based on documented Recovery Point Objective (RPO) and Recovery Time Objective (RTO).	Applications, Serven
10	People & process	Business Continuity Management & Operational Resilience	Business Continuity Planning	A consistent unified framework for business continuity planning and plan developments halb established, documented, and adopted to ensure all business continuity plans are consistent in addressing priorities for testing, maintenance, and information security requirements. Requirements for business continuity plans include the following: Requirements for business continuity plans include the following: Requirements for business continuity plans include the following: A consistle to and understood by those who will use them A consistle to and understood by those who will use them Convent by a named person(i) who in exposurable for their review, update, and approval and approval For the proposal pr		CCM V3.0.1 BCR-01	CCM V3.0.1 BCR-01	BCR-01	TPN App&Cloud	12.0	Service Continuity	SC-12.1	Document and implement a Service Continuity Plan	ALL
11	People & process	Business Continuity Management & Operational Resilience	Business Continuity Testing	Business continuity and security incident response plans shall be subject to testing at planned intervals or upon significant organizational or environmental changes. Incident response plans shall involve impacted customers (tenant) and other business relationships that represent critical intra-supply chain business process dependently.	Unmapped	CCM V3.0.1 BCR-02	CCM V3.0.1 BCR-02							
12	People & process	Business Continuity Management & Operational Resilience	Datacenter Utilities / Environmental Conditions	Data center utilities services and environmental conditions (e.g., water, power, temperature and humidity controls, telecommunications, and internet connectivity) shall be secured, monitored, maintained, and setsed for continual effectiveness at planned intervals to ensure protection from unauthorized interception or damage, and designed with automated fail over or other redundancies in the event of planned or unplanned disruptions.	Unmapped	CCM V3.0.1 BCR-03	CCM V3.0.1 BCR-03							
13	People & process	Business Continuity Management & Operational Resilience	Documentation	Information system documentation (e.g., administrator and user guides, and architecture diagrams) shall be made available to authorized personnel to ensure the following: • Configuring, installing, and operating the information system • Effectively using the system's security features		CCM V3.0.1 BCR-04	CCM V3.0.1 BCR-04							
14	People & process	Business Continuity Management & Operational Resilience	Environmental Risks	Physical protection against damage from natural causes and disasters, as well as deliberate attacks, including fire, flood, atmospheric electrical discharge, solor induced geomagnetic storm, wind, earthquake, stunami, explosion, nuclear accident, volcania activity, biological hazard, civil unrest, mudside, etconic activity, and other forms of natural or man-natural or man-		CCM V3.0.1 BCR-05	CCM V3.0.1 BCR-05	8CM-3.1.1	TPN App&Cloud	6.0	Data Protection	DP-6.20	Ensure that backup and restoration hardware, firmware, and software are protected from loss.	