

Addressing Challenges to Cloud Security Governance

Redefining Cloud Security Governance in the Digital Era

PRESENTED BY



Challenges to Cloud Security Governance — Stricter Supervision over Cyber Security and Privacy Protection Worldwide

Global: Differentiated personal data protection and localization of important data

Ireland/Germany/France

- Cyber security: EU NIS 2 Directive; EUCC Scheme; EU Cybersecurity Act; Germany's IT Security Act 2.0
- Privacy protection: EU General Data Protection Regulation (GDPR); EU ePrivacy Regulation; Ireland's Data Protection Act

Brazil/Mexico

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- Cyber security: Brazil's National
 Cybersecurity Strategy
- Privacy protection: Brazil's General Data Protection Act; Mexico's Data Protection Act

UAE/Saudi Arabia

- Cyber security: Saudi Arabia's Cloud Computing Regulatory Framework (CCRF) 2018; UAE's Information Assurance Regulation
- Privacy protection: Saudi Arabia's Personal Data Protection Act; UAE's Personal Information Protection Act

Singapore/Indonesia

- Cyber security: Singapore's Cybersecurity Act; Indonesia's Cybersecurity and Resilience Act Privacy protection: Singapore's Personal Data Protection Act: Indonesia's
- Protection Act; Indonesia's Personal Data Protection Act

Thailand/The Philippines

- Cyber security: The Philippines' Cloud First Policy 2021; Thailand's Cybersecurity Act
- Privacy protection: The Philippines' Data Privacy Act; Thailand's Personal Data Protection Act

China: Systematic legislation, regular inspection, and precise law enforcement





Challenges to Cloud Security Governance — Rapid Development of Huawei Cloud Business Leading to Greater Challenges





Summary of Challenges to Cloud Security Governance

Excessive security compliance requirements, repeated execution, and low maintainability

Inefficient security governance and costly ex-post rectification Invisible governance process and lack of evaluation criteria for governance effectiveness



R Business personnel





Redefining Cloud Security Governance in the Digital Era





 Build a unified compliance library (3CS) that integrates all applicable security requirements and regulations.



Implement automated execution of Policy as Code (PaC) and embed efficient security governance into business processes. Promote improvement via measurement and implement digital operations of security governance.



3CS as a Unified Compliance Library

Huawei Cloud 3CS Framework

3CS =

CLOUD SERVICE CYBERSECURITY & COMPLIANCE STANDARD

Features:

- Closely integrated with cloud service processes
- Auditable, traceable, measurable, and constantly optimizable
- Built upon the strengths of multiple mainstream security management standards
- Based on Huawei's 30 years of security management experience and technology achievements





3CS — Overall Framework of Cloud Security Governance





3CS — Cloud Security Governance Controls

evel-1 requirements:	Level-1 No.	Topic	Level-1 Requirement	Level-2 No.	Level-2 Requirement	Key Elements	Remarks
Specify management priorities and objectives.				1	CSPs should identify scenarios where data must be encrypted for transmission based on data	Such data includes but is not limited to: - Personal information or sensitive data transmitted over the public network - E-commerce and online transaction data transmitted over the public network and data	Non-console access refers to access from local/internal networks, as well as access fro
.evel-2 basic requirements:					categories and levels.	involved in non-console	other words, it refers to acces
Specify countermeasures.						administrative access - Data managed, imported, and exported by interoperability and portability systems (including cloud platforms)	the systems over networks.
Supplementary requirements:	1.4.6 t	Data transmission	CSPs should implement technical measures to ensure the security of in- transit data.		CSPs should implement the following technical measures to		Currently, secure protocols in
Refine key execution points.				2	ensure the authenticity, confidentiality, and integrity of in-transit data in identified scenarios: - Ensure authenticity by	TLS, IPsec, and SSH. However following protocol versions h been verified as insecure: SSL 2.0, SSL 3.0, TLS 1.0, TLS SSHv1, IKEv1, etc.	
Description:					authenticating the communicating parties before		The following measures are al available based on data sensit - Block the exchange of restric data. - Suspend the transmission of data that may be confidential. - Report suspicious data transmission activities to
Provide explanations and remarks.					the communication is established - Use secure protocols, ensuring that these support secure versions and configurations. - Encrypt sensitive data for transmission or use secure transmission channels or		
Guidelines:					protocols.		designated personnel.
Check the implementation				3	Cross-border data transfers should comply with local laws and regulations, and be documented.		CSPs should comply with secu management regulations rela to cross-border data transfers



Measurement-driven Improvement — Evaluation of Cloud Security Governance Effectiveness Based on 3CS





Suggestions on Cloud Security Governance in the Digital Era — Eleven Steps of Four Phases





Outlook for Cloud Security Governance in the Next Three to Five Years





Thank You!

