

# Certified Cloud Security Professional, CCSP®

D6 - Legal & Compliance

# Domain 6 – Legal & Compliance

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# Domain Objectives

## Cloud Security - Legal and Compliance

- Understand how to identify the various legal requirements and unique risks associated with the cloud environment with regard to legislation and conflicting legislation, legal risks, controls, and forensic requirements
- Describe the potential personal and data privacy issues specific to personal identifiable information within the cloud environment
- Define the process, methods, and required adaptations necessary for an audit within the cloud environment
- Describe the different types of cloud-based audit reports
- Identify the impact of diverse geographical locations and legal jurisdictions
- Differentiate between cloud to enterprise risk management and its implications
- Explain the importance of cloud contract design and management for outsourcing a cloud environment
- Identify appropriate supply-chain management processes

# Domain Agenda

MODULE	NAME
1	Understand Legal Requirements and Unique Risks Within the Cloud Environment
2	Understand Privacy Issues, Including Jurisdictional Variances
3	Understand Audit Process, Methodologies, and Required Adaptations for a Cloud Environment
4	Understand Implication of Cloud to Enterprise Risk Management
5	Understand Outsourcing and Cloud Contract Design
6	Execute Vendor Management

# International Legislation Conflicts

- Appraisal of legal issues relevant to cloud computing
  - OECD, APEC, EU Data Protection, ePrivacy
  - Legal controls

# E-Discovery

- Challenges
- Considerations & responsibilities
- Reducing risk
- E-discovery in cloud environments (3 examples)
  - SaaS-based
  - Hosted eDiscovery (provider)
  - Data stored in the cloud
- Forensics requirements
  - ISO-27037, 27041, 27042, 27043, 27050 standards

# Privacy & Jurisdictional Variances

- Borderless
- Difference between contractual and regulated PII
- Mandatory Breach Reporting

# Some reasons for regulation of PII

- Due care is undertaken and ensured
- Apply adequate protections
- Increased protection of customer and consumers
- Ensure appropriate mechanisms and controls are implemented
- Reduce likelihood of malformed/fractured practices
- Establish a baseline level of controls and processes
- Create a repeatable and measurable approach to regulated data and systems
- Continued alignment with statutory bodies and fulfillment of professional conduct requirements
- Transparency between customers, partners, and related industries

# Contractual Components

- Scope of processing
- Use of subcontractors
- Removal/Deletion of data
- Appropriate/Required data security controls
- Location(s) of data
- Return of data/Restitution of data
- Audits/Right to audit subcontractors

# Cloud Security Audit

- Internal & External Audits
- Impact of requirements programs of cloud use
- Assurance challenges of cloud and virtualization
  - Audit scope statements
- Types of Audit reports
  - SOC I, II, III (service organization controls)
  - CSA STAR (security, trust & audit registry)
    - EuroCloud Star Audit, China C-Star (ref standard)
- Restrictions of audit scope
- Gap analysis

# Cloud Audit Goals

- Ability to understand, measure, and communicate the effectiveness of cloud service provider controls and security to organizational stakeholders/executives
- Proactively identify any control weaknesses or deficiencies
- Obtain levels of assurance and verification as to the cloud service provider's ability to meet the SLA

# ISO-27018 (Privacy for Cloud Consumer Data)

- Consent
- Control
- Transparency
- Communication
- Independent and yearly audit

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# Internal ISMS (ISO-27001)

- Information Security Management System
- Internal information security controls system
  - 14 domains
- Policies

# Cloud Computing Security Policies

- Password Policies
- Remote Access
- Encryption
- Third-Party Access
- Segregation of Duties
- Incident Management
- Data Backup

# Identification and involvement of relevant stakeholders

- Stakeholder identification challenges
- Communication coordination
- Specialized compliance requirements for highly-regulated industries
- Impact of distributed IT models
  - Communication / clear understanding
  - Coordination / management of activities
  - Governance of processes /activities
  - Coordination Is key
  - Reporting

# Cloud & Enterprise Risk Management

- Risk profile, risk appetite
- Difference between data owner / controller and data custodian / processor
  - Data Subject means an individual who is the subject of personal data.
  - Data Controller means a person who determines the purposes for which and the manner in which any personal data are, or are to be, processed.
  - Data Processor means any person who processes the data on behalf of the data controller.
  - Data Stewards responsible for data content, context, and associated business rules.
  - Data Custodians are responsible for the safe custody, transport, storage of the data, and implementation of business rules.
  - Data Ownership or Data Owners hold legal rights and complete control over a single piece or set of data elements.

# SLA Management - metrics

Components and considerations –

- Availability
- Performance
- Security Privacy of the Data
- Logging and Reporting
- Disaster Recovery Expectations
- Location of the Data
- Data Format/Structure
- Portability of the Data
- Identification and Problem Resolution
- Change Management Process
- Dispute Mediation Process
- Exit Strategy

# Cloud SLAs – more considerations

- Uptime guarantees
- SLA penalties
- Penalty exclusions
- Suspension of service
- Provider liability
- Data protection requirements
- Disaster recovery
- Security requirements

# Key SLA elements

- Assessment of risk environment
- Risk profile
- Risk appetite
- Responsibilities
- Regulatory requirements
- Risk mitigation
- Different risk frameworks

- Quality of Service (QoS)
- Risk Management
- Metrics for Risk management

# Outsourcing & contract design

- Business requirements
- Vendor management
  - Risk management (understanding risk exposure)
  - Supply Chain Management
    - Standards (ISO-28000)
    - Risk and impact assessment
- Accountability
- Frameworks & Standards
- Contract management