

CCSP Certification

1. Architecture Concepts and Design Requirements

- a. Cloud Computing Concepts
- b. Cloud Reference Architecture
- c. Security Concepts Relevant to Cloud Computing
- d. Design Principles of Secure Cloud Computing
- e. Trusted Cloud Services

2. Cloud Data Security

- . Cloud Data Lifecycle
 - a. Design and Implement Cloud Data Storage Architectures
 - b. Design and Apply Data Security Strategies and Implement Data Discovery and Classification Technologies
 - c. Design and Implement Data Rights Management
 - d. Design and Implement Relevant Jurisdictional Data Protections for Personally Identifiable Information (PII)
 - e. Plan and Implement Data Retention, Deletion, and Archiving Policies
 - f. Design and Implement Auditability, Traceability, and Accountability of Data Events

3. Cloud Platform and Infrastructure Security

- . Cloud Infrastructure Components
 - a. Risks Associated to Cloud Infrastructure
 - b. Design and Plan Security Controls
 - c. Plan Disaster Recovery and Business Continuity Management

4. Cloud Application Security

- . Need for Training and Awareness in Application Security
 - a. Cloud Software Assurance and Validation
 - b. Use Verified Secure Software
 - c. Software Development Life-Cycle (SDLC) Process
 - d. Apply the Software Development Life-Cycle
 - e. Specifics of Cloud Application Architecture
 - f. Design Appropriate Identity and Access Management (IAM) Solutions

5. Operations

- . Support the Planning Process for the Data Center Design
 - a. Implement and Build Physical Infrastructure for Cloud Environment
 - b. Run Physical Infrastructure for Cloud Environment
 - c. Manage Physical Infrastructure for Cloud Environment
 - d. Build Logical Infrastructure for Cloud Environment
 - e. Run Logical Infrastructure for Cloud Environment
 - f. Manage Logical Infrastructure for Cloud Environment
 - g. Ensure Compliance with Regulations and Controls (ITIL, ISO/IEC 20000-1)

- h. Conduct Risk Assessment to Logical and Physical Infrastructure
- i. Collection, Acquisition, and Preservation of Digital Evidence
- j. Manage Communication with Relevant Parties

6. Legal and Compliance

- . Legal Requirements and Unique Risks within the Cloud Environment
 - a. Privacy Issues, Including Jurisdictional Variation
 - b. Audit Process, Methodologies, and Required Adaptions for a Cloud Environment
 - c. Implications of Cloud to Enterprise Risk Management
 - d. Outsourcing and Cloud Contract Design
 - e. Execute Vendor Management