

Cloud Security Essentials **EXAM BLUEPRINT**



EC-Council Official Curricula



Cloud Security Essentials

Exam Blueprint

S.No	Domains	Sub Domains	Domain %
1	Cloud Security Fundamentals	Cloud Computing Types and Service Models	12
		Cloud Security Challenges and Concerns	
		Cloud and Security Shared Responsibility	
		Evaluating Cloud Service Providers	
		Cloud Security Benefits	
		Threats and Attacks in Cloud Environments	
		Cloud Security Design Principles	
		Cloud Security Architecture	
2	Identity and Access Management (IAM) in the Cloud	IAM Fundamentals	8
		Principal Roles of IAM in the Cloud	
		Role-based Access Control (RBAC)	
		Identity Federation	
		Single Sign-on (SSO) and Self-Service Password Reset (SSPR)	
		Multifactor Authentication (MFA)	
		Principle of Least Privilege	
		IAM Auditing and Monitoring	
3	Data Protection and Encryption in the Cloud	Data Classification and Lifecycle	16
		Encryption Techniques (at rest, in transit)	
		Customer vs. Cloud Provider Managed Keys	
		Key Management in the Cloud	
		Data Loss Prevention (DLP)	
		Backup and Disaster Recovery Strategies	
4	Network Security in Cloud	Cloud Network Fundamentals	12
		Virtual Private Clouds (VPC)	
		Network Isolation and Segmentation	
		Network Access Control Lists (NACLs) and Network Security Groups (NSG)	

		Remote Access and Connections	
		Firewalls and Intrusion Detection	
5	Application Security in Cloud	Secure Software Development Lifecycle (SDLC) in the Cloud	20
		Web Application Firewall (WAF) in Cloud Environments	
		Web Application Security and OWASP Top Ten	
		Security by Design Principles for Cloud Applications	
		Secure Coding Practices	
		API Security and Integration Best Practices	
		Serverless Security Considerations	
		Container Security (Docker, Kubernetes)	
6	Cloud Security Monitoring and Incident Response	Cloud Logging	8
		Cloud Security Monitoring	
		SIEM and SOAR	
		Cloud-native Monitoring Solutions	
		Continuous Cloud Security Monitoring	
		Incident Response and Investigation in the Cloud	
7	Cloud Security Risk Assessment and Management	Identify Cloud Security Risks	12
		Risk Assessment Frameworks for Cloud Environments	
		Cloud Security Controls and Countermeasures	
		Threat Modeling and Vulnerability Assessment in Cloud Environments	
		Quantitative vs. Qualitative Risk Assessment Approaches	
		Cloud Risk Treatment, Response, and Mitigation	
8	Cloud Compliance and Governance	Regulatory and Industry Compliance	12
		Cloud Security Standards	
		Cloud Security Governance and Risk Management	
		Auditing and Monitoring Cloud Resources	
		Cloud Security Assessment and Penetration Testing	
		Total	100