

M5: Cloud Security and Monitoring, Case Studies, and Jobs

Glossary

Term	Definition
Access group	A group of users and service IDs is created so that the same access can be assigned to all entities within the group with one or more access policies
Administrative users	Create, update, and delete application and service instances, and need insight into their team members' activities
API keys	Unique identifiers are passed into an API to identify calling application or user
Application Performance Monitoring (APM)	Measures application availability and performance, providing tools needed to troubleshoot issues in an application's environment
Application users	Users of the cloud-hosted applications
AppSec	Application Security
Audit and compliance	A critical service within identity and access framework used to validate implemented controls against policies
Authentication	Also known as identity service, it enables applications deployed to the cloud to authenticate users at an application level
BYOK	Bring Your Own Keys
Client-side encryption	Occurs before data is sent to cloud storage
Cloud directory services	Used to securely manage user profiles and associated credentials inside a cloud environment
Cloud encryption	Also known as the last line of defense, it encrypts data and provides robust data access control, key management, and certificate management
Cloud monitoring solutions	Assess data, application, and infrastructure behaviors for performance, resource allocation, network availability, compliance, and security risks and threats
Cloud security	Policies, technological procedures, services, and solutions designed to secure the enterprise applications and data on the cloud against insider threats, data breaches, compliance issues, and organized security threats
Database monitoring tools	Help track processes, queries, and availability of services to ensure the accuracy and reliability of database management systems
Decryption key	Defines how the encrypted data will be transformed back to legible data
Developer users	Authorized to read sensitive information and to create, update, and delete applications
Encryption	Scrambling data to make it illegible
Encryption algorithm	Defines the rules by which data will be transformed so that it becomes illegible
Encryption at rest	Protecting data while it is stored
Encryption in transit	Protecting data while it is transmitted from one location to another
Encryption in use	Protecting data when it is in use in memory
Identity and access management	Also known as access control, it helps authenticate and authorize users and provides user-specific access to cloud resources, services, and applications
Infrastructure monitoring tools	Identify minor and large-scale hardware failures and security gaps so that developers and administrators can take corrective action before problems affect user experience
Key management services	Help perform life cycle management for encryption keys that are used in cloud services or customer-build apps
KYOK	Keep Your Own Keys
Multifactor authentication	Adds an additional layer or authentication for application users
Reporting	Provides a user-centric view of access to resources
Server-side encryption	Occurs after cloud storage receives your data but before the data is written to disk and stored
SSL	Secure Sockets Layer