

Unit 5

Cloud Security

Data must be secured in cloud storage.

According to Cloud Security Alliance, the cloud security threats includes

- 1) Data leaks
- 2) Compromising Accounts And Authentication Bypass
- 3) Interface and API hacking
- 4)
 - Cyberattacks
 - Permanent Data loss
 - Vulnerabilities
 - Lack of Awareness
 - Abuse of Cloud Service

Protection Methodology

- Regular software update scheduling
- Patching Procedures
- Monitoring and audit requirements
- Regular testing and vulnerability analysis

* Iaas Information Security Measures

- Data Encryption
- Network Encryption
- Access Control
- Cloud Access Security Broker (CASB)
- Vulnerability Control
- Monitor, Audit and Identify Anomalies
- Staff Training
- Data Security In Cloud Computing

Privacy and Legal Issues in Cloud Computing

- Data Breaches
- Network Security
- Data Locality
- Data Access
- DoS Attack (Denial of Service Attack)
- System Vulnerabilities
 - Account Hacking
 - Malicious Insiders
- The APT Parasite
- Permanent Data Loss
 - Shared Technology, Shared Dangers
- Compromised Credentials and Broken Authentication
- Hacked Interfaces and APIs

API → Application Program Interface

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DPI → Data Packet Inspection

Intrusion Detection and Prevention
Solution (IDS/IPS)

IDS → Intrusion ~~Detection~~ Solution

IPS → Intrusion Prevention Solution

APT → Advanced Persistent
Threat