



Day 33



“CLOUD SECURITY”

What is Cloud Storage?

1. Definition – Cloud storage is a service model where data is stored offsite and accessed over the internet or private connection.
2. Management – The provider manages, maintains, and backs up the stored data for availability.
3. Benefit – It is a cost-effective alternative to maintaining large on-premise storage systems.

Benefits of Cloud Storage:

1. Pay as per usage
2. Global availability
3. Scalability
4. Disaster Recovery
5. Data Synchronization

Cloud Data Security:

1. Definition – Cloud data security protects organizational data in the cloud from corruption, unauthorized access, and threats during storage (at rest) and transmission (in transit).
2. Measures – CSPs apply physical security, firewalls, encryption, access controls (MFA), event logging, and data-aware filtering.
3. Resilience – Backup, recovery, and policy-based lifecycle management ensure data availability and compliance.

Importance of Cloud Data Security:

1. Protects sensitive data – Ensures safety of personal, financial, consumer, and employee data stored in the cloud.
2. Regulatory compliance – Prevents legal issues and fines by meeting government data protection regulations.
3. Prevents breaches – Reduces risk of data theft, financial loss, and reputational damage from security breaches.

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