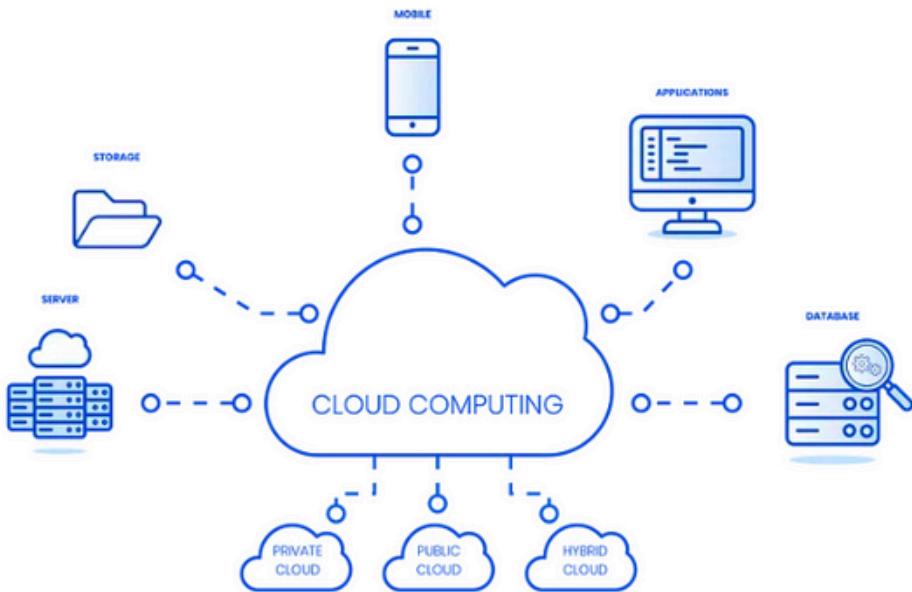




# Core Cloud Services



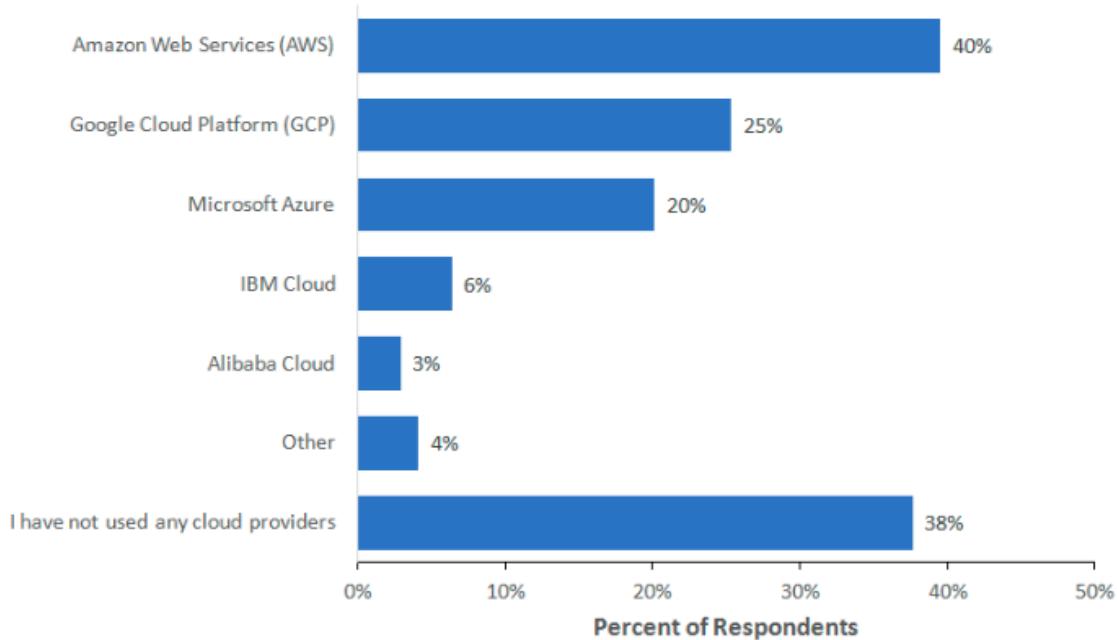
- In this session we'll delve into the critical cloud service options available from the top providers **AWS**, **GCP** and **Azure**.
- As businesses grow increasingly reliant on digital infrastructure, selecting the right cloud service offerings can greatly enhance performance, scalability, and reliability.

Following are few Core Cloud Services:

- a) Compute Services
- b) Storage Services
- c) Database Services
- d) Networking & Content Delivery
- e) Analytics Services
- f) Security, Identity, & Compliance



# Core Cloud Services



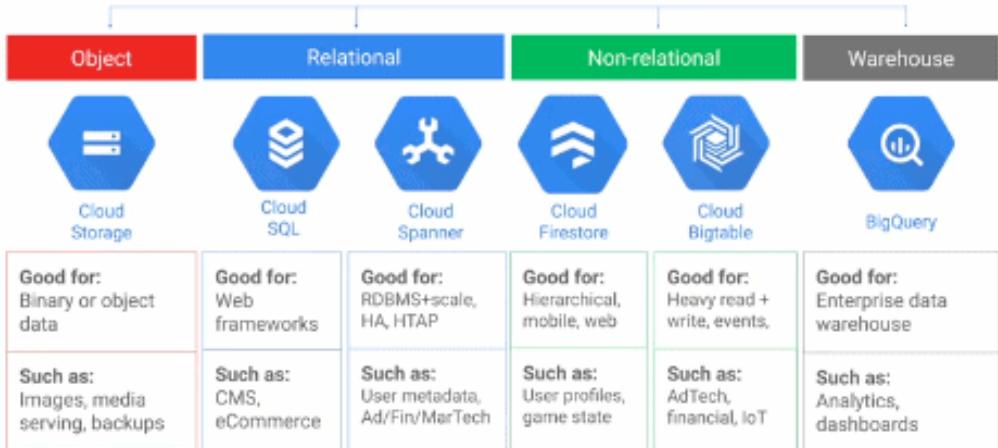
## a) Compute Services

Compute services provide scalable virtual servers, container orchestration, and serverless computing for flexible deployment.

- **AWS:** Amazon EC2, AWS Lambda, Amazon Lightsail, AWS Fargate, Amazon Elastic Beanstalk
- **GCP:** Compute Engine, Cloud Functions, Google Cloud Run, Cloud Run, App Engine
- **Azure:** Virtual Machines, Azure Functions, Azure App Service, Azure Container Instances, Azure App Service



# Core Cloud Services



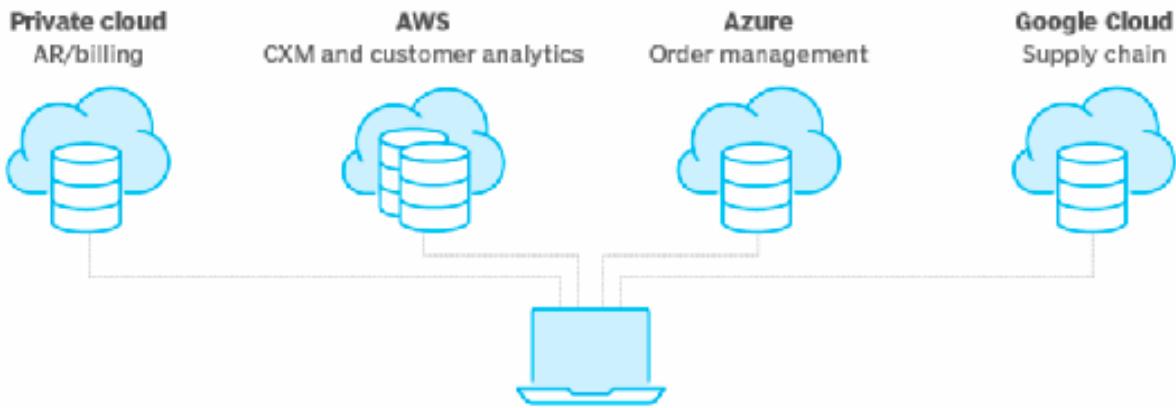
## b) Storage Services

Cloud storage services offer secure and scalable options for storing and retrieving files, backups, and data lakes.

- **AWS:** Amazon S3, Amazon S3 Glacier, Amazon EBS, Amazon EFS, AWS Storage Gateway
- **GCP:** Cloud Storage, Coldline Storage, Persistent Disk, Filestore, Cloud Storage Gateway
- **Azure:** Blob Storage, Azure Archive Storage, Managed Disks, Azure Files, Azure Storage Gateway



# Core Cloud Services



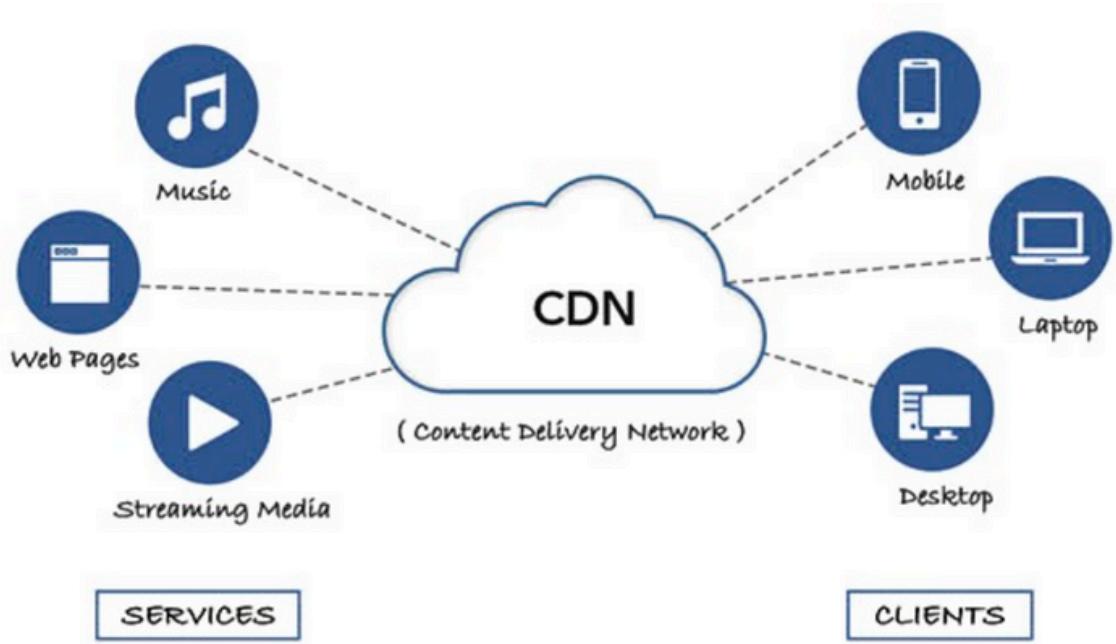
## c) Database Services

Managed database services provide structured, NoSQL, and data warehousing solutions for high-performance and secure data management.

- **AWS:** Amazon RDS, Amazon Aurora, Amazon DynamoDB, Amazon Redshift, Amazon DocumentDB
- **GCP:** Cloud SQL, Cloud Spanner, Firestore, BigQuery, Firestore
- **Azure:** Azure SQL Database, Azure SQL Database Hyperscale, Azure Cosmos DB, Synapse Analytics.



# Core Cloud Services



## d) Networking & Content Delivery

Networking services enable secure and high-speed data transfer within and outside the cloud, including global content delivery.

- **AWS:** Amazon VPC, Amazon CloudFront, Amazon Route 53, Elastic Load Balancing, AWS Direct Connect
- **GCP:** Virtual Private Cloud, Cloud CDN, Cloud DNS, Cloud Load Balancing, Dedicated Interconnect
- **Azure:** Virtual Network, Azure CDN, Azure DNS, Azure Load Balancer, Azure ExpressRoute



# Core Cloud Services



Convert insights into actionable decisions that drive outcomes

- Data-driven digital transformation
- Custom digital products



Scale and assess impact at high velocity

- Speed-to-value
- Relentless focus on outcomes
- Platform view



Adopt and sustain outcome-centric operations, products, and innovation culture

- Data-literate operation
- Fit-for-purpose innovation
- Rigorous evaluation



Trust and protect the quality of your data

- Secure and ethical value creation
- Industry-tailored data governance

## e) Analytics Services

Analytics services support big data processing, visualization, and machine learning for data-driven insights.

- **AWS:** Amazon Athena, Amazon EMR, Amazon Kinesis, Amazon QuickSight, AWS Glue
- **GCP:** BigQuery, Dataproc, Pub/Sub and Dataflow, Looker, Data Fusion
- **Azure:** Azure Synapse Analytics, Azure HDInsight, Azure Event Hubs, Power BI, Azure Data Factory



# Core Cloud Services

## Security in the Cloud

### SHARED RESPONSIBILITY

AWS manages security in the cloud  
You manage security in the cloud

### SECURITY

Use software-based tools to monitor flow of data in and out of the cloud

1. Keep your data safe
2. Meet compliance requirements
3. Save money
4. Scale quickly

### IDENTITY ACCESS MANAGEMENT (IAM)

Allows you to manage users and their level of access in the AWS console

## f) Security, Identity, & Compliance

Security services provide identity management, encryption, threat detection, and compliance tools to secure cloud resources.

- **AWS:** AWS IAM, Amazon GuardDuty, AWS Key Management Service (KMS), AWS Shield, AWS WAF
- **GCP:** Identity and Access Management (IAM), Security Command Center, Cloud Key Management Service, Cloud Armor, Cloud Armor
- **Azure:** Azure Active Directory (AD), Azure Security Center, Azure Key Vault, Azure DDoS Protection, Azure Web Application Firewall