

# A Survey on various Services offered by Various Cloud Providers (AWS, Azure, GCP etc)

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## AMAZON WEB SERVICES:

It is the world's most comprehensive and broadly adopted cloud platform. It provides on-demand cloud computing services to individuals, companies, and government organizations on a paid subscription basis. For example, you can connect to, setup, safeguard, and operate a server on AWS exactly like a real server by renting one. The virtual server is different since it is operating on a planet-scale network that is managed by AWS.



- AWS has more than 200+ services upon running.
- It has over 102 availability zones in 33 Regions.
- The platform is developed with a combination of infrastructure as a service (IaaS), platform as a service (PaaS), and packaged software as a service (SaaS) offerings.

AWS provides a wide range of services that most branded companies use. Like Netflix, BBC, Facebook, Spotify, LinkedIn

## AZURE:

Microsoft offers Azure as a cloud computing service. a collection of distinct cloud computing services, including remotely hosted and managed variations of proprietary Microsoft **technology**, are used to create, test, deploy, and manage cloud-based applications.



- Offer almost 200+ Services.
- It has 78 regions available in 140 countries which are huge compared to other cloud providers.

Some famous brands like Adobe, HP, eBay, Samsung, and Rolls-Royce use Azure.

## GOOGLE CLOUD PLATFORM:

Google Cloud Platform launched its suite of cloud computing services in 2008 under the name Google Cloud, formerly known as App Engine. GCP provides software as a service (SaaS), platform as a service (PaaS), and infrastructure as a service (IaaS) to businesses globally. For instance, GCP's major offering is the development and upkeep of unique applications, which can subsequently be released from its hyper-scale data centers. Check out our blog post about AWS Secrets Manager as well.















With more than 100 Services active, GCP offers 35 regions and 106 operational zones. PayPal, Twitter, Airbus, and Toyota rely on the Google cloud platform.

## AWS, Azure, GCP Tools and Services Compared

  
**Compute Services**

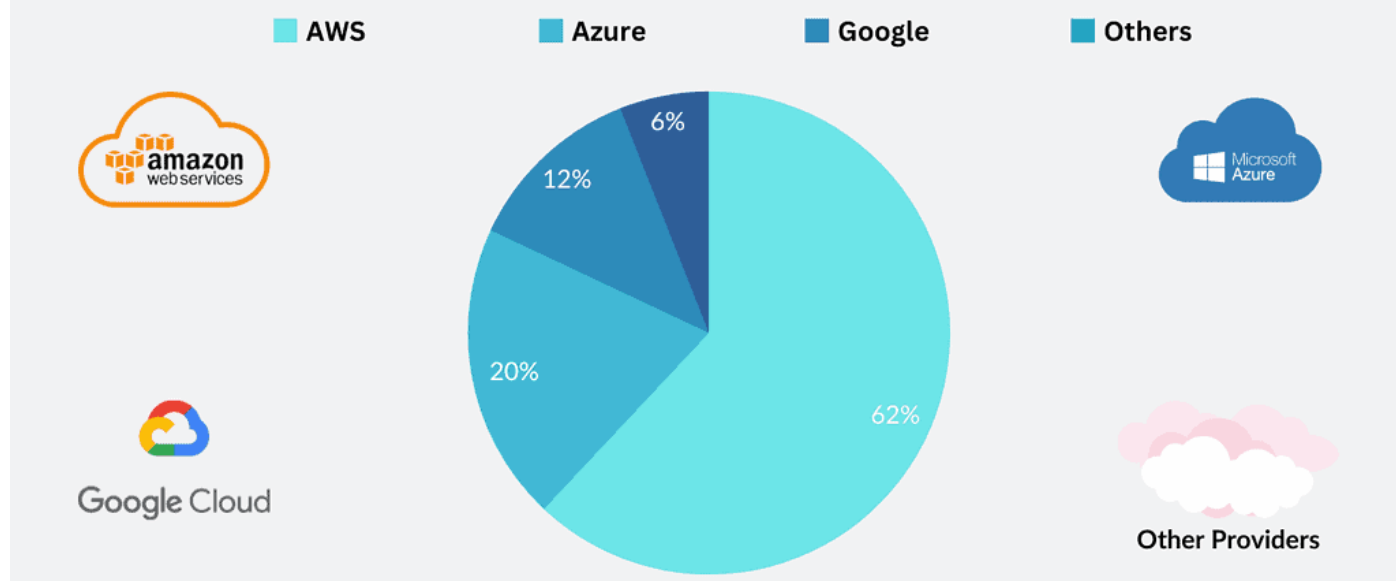
  
**Object Storage**

  
**Networking**

		
 Elastic Compute Cloud (EC2)	 Virtual Machines	 Compute Engine
 Amazon S3	 Azure Blob Storage	 Cloud Storage
 Amazon VPC	 Azure Virtual Network	 Cloud Virtual Network

## GCP vs Azure vs AWS Market Share:

### AWS vs Azure vs Google Market Sale






Data – Analytics	Athena CloudSearch FinSpace Kinesis OpenSearch QuickSight X-Ray	Analysis Services Cognitive Search Databricks Data Explorer Data Lake Analytics Power BI Stream Analytics Synapse Analytics Time Series Insights	BigQuery Dataflow Looker
Data – Big Data	EMR	HDInsight	Dataproc
Data – Database	DocumentDB DynamoDB ElastiCache MemoryDB for Redis RDS SimpleDB	Cache for Redis Cosmos DB Database for MariaDB Database for MySQL Database for PostgreSQL SQL Database	Cloud Bigtable Cloud Spanner Cloud SQL Datastore Firestore Memorystore

## Amazon AWS vs. Microsoft Azure vs GCP – Databases

The main variations between cloud service providers are whether you can license the database engine on the hypervisor of the cloud and whether any additional guidance, services, or capabilities, like automatic patching, are offered.

Services	AWS	Azure	GCP
<b>RDBMS</b>	Amazon Relational Database Service	SQL Database	Google Cloud SQL
<b>NoSQL: Key-Value</b>	Amazon DynamoDB	Table Storage	Google Cloud Datastore, Google Cloud Bigtable
<b>NoSQL: Indexed</b>	Amazon SimpleDB	Azure Cosmos DB	Google Cloud Datastore

### AWS vs Azure vs GCP Cons.

		
Incomplete and weak Hybrid Strategy	Integration with non-Microsoft is complex.	Google's App Engine is limited to Java, Python, PHP, and Google Go.
No demonstrated support for hybrid cloud outputs is still in its nascence	Restrictive Platform, Less flexible with non-windows server platforms	The cost of downloading data from Google Cloud Storage is relatively high

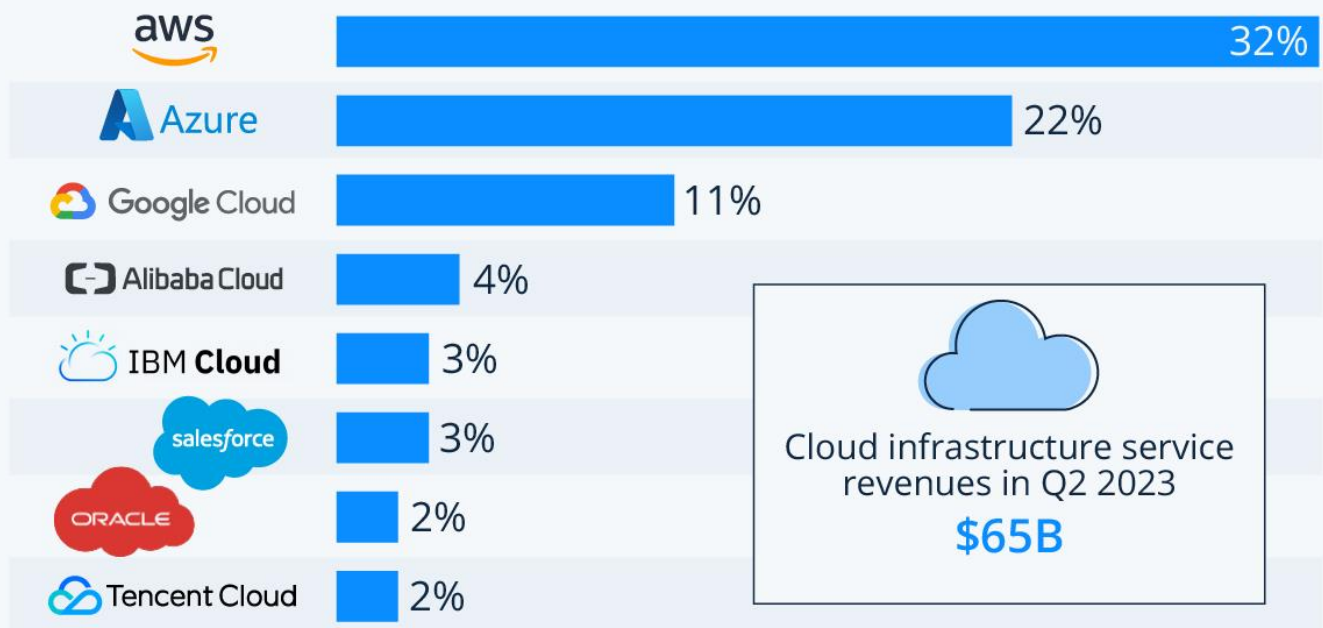
Large and Complex scale offerings that can potentially be manipulated.	Low-Quality Support	Quite costly support fee of about \$150 per month for the silver class, which is the most basic of services
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## AWS vs Azure vs GCP Pros.

		
AWS is an established market leader.	Azure is Open to Hybrid Cloud systems.	GCP specializes in high-competitive offerings like Big data and machine Learning.
High Transfer Stability: Minimal data loss during server and storage transfer.	Easy integration with Microsoft tools and software.	Easy integration with other GCP Services like Compute Engine, Kubernetes Engine, or App Engine.
Easy Availability of Data: users can choose to store data close to their location.	Azure has a more profound knowledge of enterprise needs.	Well-detailed documentation, including an API reference guide.
78 Azure regions available across 140 countries ( which is higher in all cloud giants )	Higher Availability Zones (106 ) with 24 Countries.	Outstanding reputation in the open-source community

# Amazon Maintains Lead in the Cloud Market

Worldwide market share of leading cloud infrastructure service providers in Q2 2023\*



\* Includes platform as a service (PaaS) and infrastructure as a service (IaaS) as well as hosted private cloud services

Source: Synergy Research Group



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