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Assignment No: 2

Aim: Explore and compare the similar types of services provided by AWS, Azure and Google cloud platform.

⇒ Amazon Web Service (AWS), Microsoft Azure, and Google Cloud Platform (GCP) are the three major players in the cloud computing market, each offering a wide range of services to meet the diverse needs of businesses and developers.

1) **Compute Service:**

a) **AWS**

⇒ Amazon Elastic compute Cloud (EC2) provide resizable compute capacity in the cloud.

b) **Azure**

⇒ Azure virtual Machines (VMs) offers scalable computing resources with various configuration.

c) **GCP**

⇒ Google Compute Engine (GCE) allows users to create virtual machines in Google's data center.

2) **Storage services:**

a) **AWS:**

⇒ Amazon Simple Storage service (S3) provides scalable object storage.

b) Azure

⇒ Azure blob storage offers massively scalable object storage for unstructured data.

c) GCP

⇒ Google Cloud storage (GCS) provides durable and highly available object storage.

3) Database Services

a) AWS

⇒ Amazon relational database service (RDS) offers managed relational databases like MySQL, PostgreSQL, etc.

b) Azure

⇒ Azure SQL database provide fully managed relational databases.

c) GCP

⇒ Google Cloud SQL offers manged MySQL, PostgreSQL and SQL server databases.

4) Networking Services:

a) AWS

⇒ Amazon Virtual Private Cloud (VPC) enables users to launch AWS services into a virtual network.

b) Azure

⇒ Azure functions provides serverless Azure virtual network allows users to provide isolated networks in the cloud.

c) GCP

⇒ Google virtual Private Cloud (VPC) offers global virtual networking for Google Cloud resources.

3) Serverless Computing:

a) AWS

⇒ AWS lambda allows users to run code without provisioning or managing servers.

b) Azure

⇒ Azure functions provides serverless compute for event-driven applications.

c) GCP

⇒ Google cloud functions enables users to run event-driven functions without managing infrastructure.

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