ASSIGNMENT-2

Q1 Discuss the AWS and GCP terms

Service Category	Service	AWS	Google Cloud
Compute	Iaas	Amazon Elastic Compute Cloud	Compute Engine
	Paas	AWS Elastic Beanstalk	App Engine
	Faas	AWS Lambda	Cloud Functions
Containers	Caas	Amazon Elastic Kubernetes Service, Amazon Elastic Container Service	Google Kubernetes Engine
	Containers without infrastructure	AWS Fargate	Cloud Run
	Container registry	Amazon Elastic Container Registry	Container Registry
Networking	Virtual networks	Amazon Virtual Private Cloud	Virtual Private Cloud
	Load Balancer	Elastic Load Balancer	Cloud Load Balancing
	Dedicated interconnect	AWS Direct Connect	Cloud Interconnect
	Domains & DNS	Amazon Route 53	Google Domains Cloud DNS
	CDN	Amazon Cloud Front	Cloud CDN

	DDOS firewall	AWS shield, AWSWAF		
		DDOS Firewall	AWS shield, AWSWAF	Google Cloud Armor
Storage		Object Storage	Amazon Simple Storage Service	Cloud Storage
		Block Storage	Amazon Elastic Block Store	Persistent Disk
		Reduced-availability storage	Amazon S3 Standard-Infrequent Access, Amazon S3 One Zone-Infrequent Access	Cloud storage Nearline and Cloud storage coldline
		Archival Storage	Amazon Glacier	Cloud Storage Archive
		File Storage	Amazon Elastic File System	Filestore
		In-memory data store	Amazon Elastic Cache for Redis	Memorystore
Database		RDBMS	Amazon Relational Database Service, Amazon Aurora	Cloud SQL, Cloud Spanner
		NoSQL: Key-Value	Amazon DynamoDB	Fite Firestore, Cloud Bigtable
		NoSQL: Indexed	Amazon SimpleDB	Firestore
		In-memory data store	Amazon Elastic Cache for Redis	Memorystore

Data analytics	Data Warehouse	Amazon Redshift	BigQuery
	Query service	Amazon Athena	BigQuery
	Messaging	Amazon Simple Notification Service, Amazon Simple Queue Service	Pub/sub
	Batch data processing	Amazon Elastic MapReduce, AWS Batch	Dataproc, Dataflow
	Stream data processing	Amazon Kinesis	Dataflow
	Stream data ingest	Amazon Kinesis	Pub/Sub
	Workflow Orchestration	Amazon Data Pipeline, AWS Glue	Cloud Composer
Management tools	Deployment	AWS CloudFormation	Cloud Deployment Manager
	Cost Management	AWS Budgets	Cost Management
Operations	Monitoring	Amazon CloudWatch	Cloud Monitoring
	Logging	Amazon CloudWatch Logs	Cloud Logging
	Audit logging	AWS CloudTrails	Cloud Audit Logs
	Debugging	AWS X-Ray	Cloud Debugger
	Performance tracing	AWS X-Ray	Cloud Trace
Security & identity	IAM	Amazon Identity and Access Management	Cloud Identity & Access Management
	Secret management	AWS Secret Manager	Secret Manager

&	Encrypted Keys	AWS Key Management Service	Cloud Key Management Service
	Resource monitoring	AWS Config	Cloud Asset Inventory
	Vulnerability scanning	Amazon Inspector	Web Security Scanner
	Threat Detection	Amazon Guard Duty	Event Threat Detection (beta)
	Microsoft Active Directory	AWS Directory Service	Managed Service for Microsoft Active Directory
Machine Learning	Speech	Amazon Transcribe	Speech-to-Text
	Vision	Amazon Rekognition	Cloud Vision
	Natural Language Processing	Amazon Comprehend	Cloud Natural Language API
	Translate	Amazon Translate	Cloud Translation
	Video Intelligence	Amazon Rekognition Video	Video Intelligence API
	Conversational Interface	Amazon Lex	Dialogflow Enterprise Edition
	Fully managed ML	Amazon SageMaker	AI Platform
Internet of Things	IoT Services	Amazon IOT	Cloud IOT