	SERVICE TYPE	DESCRIPTION	aws	Azure	Google Cloud
	Object storage	For storing any files you regularly use	Simple Storage Service (S3)	Blob Storage	Cloud Storage Buckets
	Archive storage	Low cost (but slower) storage for rarely used files	S3 Glacier Instant, Glacier Flexible, Glacier	Blob Cool/Cold/Archive tiers	Cloud Storage Nearline, Coldline, <u>Archive</u>
	File storage	For storing files needing hierarchical organization	Elastic File System (EFS), FSx	<u>Avers vFXT</u> , <u>Files</u>	<u>Filestore</u>
STORAGE	Block storage	For storing groups of related files	<u>Elastic Block Storage</u>	<u>Disk Storage</u>	<u>Persistent Disk</u>
ST	Hybrid storage	Move files between on-prem & cloud	Storage Gateway	<u>StorSimple</u> , <u>Migrate</u>	Storage Transfer Service
	Edge/offline storage	Move offline data to the cloud	<u>Snowball</u>	<u>Data Box</u>	<u>Transfer Appliance</u>
	Backup	Prevent data loss	<u>Backup</u>	<u>Backup</u>	Backup and Disaster Recovery
	Relational DB management	Standard SQL DB (PostgreSQL, MySQL,	Relational Database Service (RDS),	SQL, SQL Database	Cloud SQL, Cloud Spanner
	NoSQL: Key-value	SQL Server, etc.) Redis-like DBs for semi-structured data	<u>Aurora</u> <u>DynamoDB</u>	Cosmos DB, Table storage	Cloud BigTable, Firestore
	NoSQL: Document	MongoDB/CouchDB-like DBs for hierarchical JSON data	<u>DocumentDB</u>	<u>Cosmos DB</u>	<u>Firestore, Firebase Realtime</u> <u>Database</u>
ABASE	NoSQL: Column store	Cassandra/HBase-like DBs for structured hierarchical data	<u>Keyspaces</u>	<u>Cosmos DB</u>	Cloud BigTable
DATABA	NoSQL: Graph	Neo4j-like DBs for connected data	<u>Neptune</u>	N/A	N/A
	Caching	Redis/Memcached-like memory for calculation	<u>ElastiCache</u>	Cache for Redis, HPC Cache	<u>Memorystore</u>
	Time Series DB	DB tuned for time series data	<u>Timestream</u>	<u>Time Series Insights</u>	Cloud BigTable
	Blockchain	Dogecoin, etc.	Managed Blockchain	Blockchain Service, Blockchain Workbench, Confidential Ledger	N/A
COMPUTE	Virtual machines	Software-emulated computers	Elastic Compute Cloud (EC2)	<u>Virtual Machines</u>	Compute Engine
	Spot virtual machines	Cost-effective VMs Autoscaling	EC2 Spot Instances	Spot Virtual Machines	Spot VMs
	Autoscaling Functions as a service	Autoscaling Adjust resources to match demand Execute code chunks without worrying	EC2 Auto Scaling	Virtual Machine Scale Sets Functions	Instance Groups Claud Functions
	(Serverless computing)	about infrastructure Manage applications without worrying	<u>Lambda</u> <u>Elastic Beanstalk</u> , <u>Red Hat OpenShift on</u>	<u>Functions</u> <u>App Service, Cloud Services,</u>	Cloud Functions Ann Engine
	Platform as a service	about infrastructure	AWS Run code at specified times	Spring Cloud, Red Hat OpenShift	App Engine Ratch Cloud Schoduler
	Batch scheduling	Run code at specified times VM on your own machine, for high	Batch Dedicated Instances	Batch Dedicated Host	Batch, Cloud Scheduler Sole-tenant Nodes, Shielded VMs
	Isolated servers	security		<u>Dedicated Host</u>	Sole-tenant Nodes, Shielded VMs
	On premise/Ed	Cloud-services on your own hardware	Outposts, Snow	Modular Modular Datacenter, Stack Hub,	N/A
	On-premise/Edge devices	Cloud-services on your own hardware	Outposts, Snow Family	Stack HCI, Stack Edge	N/A
	Quantum computing	Determine if cat is alive or dead	<u>Braket</u>	<u>Quantum</u>	N/A
TICS	Data Warehouse	Data Warehouse Centralized platform for all your data	<u>RedShift</u>	Synapse Analytics	<u>BigQuery</u>
	Big data platform	Run Spark, Hadoop, Hive, Presto, etc.	<u>EMR</u>	<u>Data Explorer</u> , <u>HDInsight</u>	<u>Dataproc</u>
	Business analytics	Dashboards and visualization	<u>Quicksight</u> , <u>FinSpace</u>	<u>Power BI Embedded,</u> <u>Graph Data Connect</u>	<u>Looker, Looker Studio,</u> <u>Vertex Al Workbench</u>
	Real-time analytics	Streaming data analytics	Kinesis Data Analytics, Kinesis Data Streams, Managed Streaming for Kafka	Stream Analytics, Event Hubs	<u>Dataflow, Pub/Sub, Datastream</u>
ANALY	Extract-Transform-Load (ETL)	Preprocessing and importing data	Glue, <u>Kinesis Data Firehose</u> , <u>SageMaker</u> <u>Data Wrangler</u>	<u>Data Factory</u>	<u>Data Fusion, Dataflow, Dataproc,</u> <u>Dataprep by Trifacta</u>
	Workflow orchestration	Build data and model pipelines	<u>Data Pipeline, Managed Workflows for</u> <u>Airflow</u>	<u>Data Factory</u>	Cloud Composer
	Data lake creation	Import data into a lake	<u>Lake Formation</u>	<u>Data Share</u>	<u>Cloud Storage</u>
	Managed search	Enterprise search	<u>CloudSearch</u> , <u>OpenSearch Service</u> , <u>Kendra</u>	<u>Cognitive Search</u>	<u>Cloud Search</u>
	Data Catalog	Metadata management	Glue Data Catalog	<u>Purview</u> , <u>Data Explorer</u>	<u>Data Catalog</u>
	Machine Learning	Train, fit, validate, and deploy ML models	<u>SageMaker</u>	<u>Machine Learning</u>	<u>Vertex AI</u>
	Jupyter notebooks	Write data analyses and reports	SageMaker Notebooks	<u>Notebooks</u>	<u>Colab</u>
	Data science/machine learning VM	Virtual machines tailored to data work	Deep Learning AMIs	<u>Data Science Virtual Machines</u>	<u>Deep Learning VM</u>
	AutoML	Automatically build ML models	<u>SageMaker</u>	Machine Learning Studio, <u>Automated ML</u>	<u>Vertex AI Workbench</u>
	Natural language Processing Al	Analyze text data	<u>Comprehend</u>	<u>Text Analytics</u>	<u>Natural Language Al</u>
	Recommendation Al	Product recommendation engine	<u>Personalize</u>	<u>Personalizer</u>	Recommendations Al
L & AI	Document capture	Extract text from printed text & handwriting	<u>Textract</u>	<u>Form Recognizer</u>	<u>Document Al</u>
	Computer vision	lmage classification, object detection & other Al with image data	Rekognition, Panorama, Lookout for <u>Vision</u>	Cognitive Services for Vision Cognitive Services for Speech to	<u>Vision Al</u>
	Speech to text	Speech transcription	<u>Transcribe</u>	Text, Cognitive Services for Speaker Recognition	<u>Speech-to-Text</u>
	Text to speech	Text to speech Speech generation	<u>Polly</u>	Cognitive Services for Speech Cognitive Services for Speech	<u>Text-to-Speech</u>
	Translation Al	Convert text between human languages	<u>Translate</u>	Cognitive Services for Speech <u>Translation</u> , <u>Translator</u>	<u>Translation Al</u>
	Video Intelligence	Video indexing and asset search	<u>Rekognition Video</u>	<u>Video Indexer</u> <u>Bot Service, Cognitive Services for</u>	<u>Video Intelligence API</u>
	Al agents	Virtual assistants and chatbots	Lex, Alexa Skills kit	Conversational Language Understanding	<u>Dialogflow</u>
NETWORKING & CONTENT DELIVERY	Human-in-the-loop	Human-based quality control for Al	Augmented AI (A2I)	Cognitive Services Content Monitor	NA
	Content delivery network	Serve content to users	<u>CloudFront</u>	Content Delivery Network	Cloud CDN and Media CDN
	Application Programming Interface (API) management	Build and deploy APIs	<u>API Gateway</u>	API Apps, API Management	<u>Apigee API Management</u>
NETW	Domain Name System (DNS)	Route end users to applications	Route 53	DNS Application Catoway Load Ralancor	Cloud DNS
	Load balancing	Distribute work evenly across machines	Elastic Load Balancing (ELB)	Application Gateway, Load Balancer, <u>Traffic Manager</u>	Cloud Load Balancing
CONTAINERS	Managed containers	Run and deploy containers	Elastic Kubernetes Service, Elastic Container Service	<u>Kubernetes Service</u> , <u>Container Apps</u>	<u>Kubernetes Engine</u>
CON	Container registration	Manage container images	Elastic Container Registry	Container Registry	Artifact Registry
▼TITA	Access management	User permissions and authentication	Identity and Access Management (IAM)	Active Directory	<u>Cloud Identity</u>
TY, IDENT	Activity tracking	Track user activity	<u>CloudTrail</u>	Monitor Activity Log	Access Transparency and Access Approval
SECURIT	Security	Protect your data, network and applications	<u>Security Hub</u>	<u>Security</u>	Security Command Center
ంఠ	Monitoring	Monitor network traffic and detect anomalies	<u>CloudWatch,</u> <u>Transit Gateway Network Manager</u>	Monitor, Anomaly Detector	Operations, Network Intelligence Center
VAGEMENT	Automation	Preform processes automatically	<u>OpsWorks</u>	<u>Automation</u>	Compute Engine Management
MAN	Cost optimization	Reduce your cloud spend	Cost Optimization	<u>Cost Management</u>	<u>Recommender</u>