	SERVICE TYPE	DESCRIPTION	aws	Azure	Google Cloud
	Object storage	For storing any files you regularly use	<u>Simple Storage Service (S3)</u>	<u>Blob Storage</u>	<u>Cloud Storage Buckets</u>
	Archive storage	Low cost (but slower) storage for rarely used files	<u>S3 Glacier Instant, Glacier Flexible,</u> Glacier	Blob Cool/Cold/Archive tiers	<u>Cloud Storage Nearline, Coldline,</u> Archive
	File storage	For storing files needing hierarchical	Elastic File System (EFS), FSx	<u>Avers vFXT, Files</u>	Filestore
RAGE	Block storage	organization For storing groups of related files	Elastic Block Storage	Disk Storage	Persistent Disk
STORA	Hybrid storage	Move files between on-prem & cloud	<u>Storage Gateway</u>	<u>StorSimple, Migrate</u>	<u>Storage Transfer Service</u>
		Move offline data to the cloud	<u>Snowball</u>	Data Box	<u>Transfer Appliance</u>
	Edge/offline storage				
	Backup	Prevent data loss	<u>Backup</u>	<u>Backup</u>	<u>Backup and Disaster Recovery</u>
	Relational DB management	Standard SQL DB (PostgreSQL, MySQL, SQL Server, etc.)	<u>Relational Database Service (RDS),</u> <u>Aurora</u>	<u>SQL, SQL Database</u>	<u>Cloud SQL, Cloud Spanner</u>
	NoSQL: Key-value	Redis-like DBs for semi-structured data	<u>DynamoDB</u>	<u>Cosmos DB, Table storage</u>	<u>Cloud BigTable, Firestore</u>
ASE	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>
DATABASE	NoSQL: Column store	Cassandra/HBase-like DBs for structured hierarchical data	<u>Keyspaces</u>	<u>Cosmos DB</u>	<u>Cloud BigTable</u>
	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>	<u>Cache for Redis, HPC Cache</u>	<u>Memorystore</u>
	Time Series DB	DB tuned for time series data	<u>Timestream</u>	<u>Time Series Insights</u>	<u>Cloud BigTable</u>
	Blockchain	Dogecoin, etc.	<u>Managed Blockchain</u>	<u>Blockchain Service, Blockchain Workbench,</u> <u>Confidential Ledger</u>	N/A
	Virtual machines	Software-emulated computers	<u>Elastic Compute Cloud (EC2)</u>	<u>Virtual Machines</u>	<u>Compute Engine</u>
COMPUTE	Spot virtual machines	Cost-effective VMs	EC2 Spot Instances	Spot Virtual Machines	<u>Spot VMs</u>
	Autoscaling	Autoscaling	EC2 Auto Scaling	Virtual Machine Scale Sets	Instance Groups
	Functions as a service	Adjust resources to match demand Execute code chunks without worrying	Lambda	Functions	Cloud Functions
	(Serverless computing) Platform as a service	about infrastructure Manage applications without worrying	<u>Elastic Beanstalk, Red Hat OpenShift on</u>	<u>App Service, Cloud Services,</u>	App Engine
	Batch scheduling	about infrastructure Run code at specified times	<u>AWS</u> Run code at specified times	<u>Spring Cloud, Red Hat OpenShift</u> Batch	Batch, Cloud Scheduler
	Isolated servers	VM on your own machine, for high	<u>Batch</u> Dedicated Instances	Dedicated Host	Sole-tenant Nodes, Shielded VMs
		security			
	On-premise/Ed	Cloud-services on your own hardware	<u>Outposts</u> , <u>Snow</u>	<u>Modular</u> Modular Datacenter, Stack Hub,	N/A
	On-premise/Edge devices	Cloud-services on your own hardware	<u>Outposts</u> , <u>Snow Family</u>	<u>Stack HCI, Stack Edge</u>	N/A
	Quantum computing	Determine if cat is alive or dead	<u>Braket</u>	Quantum	N/A
	Data Warehouse	Data Warehouse Centralized platform for all your data	<u>RedShift</u>	<u>Synapse Analytics</u>	<u>BigQuery</u>
	Big data platform	Run Spark, Hadoop, Hive, Presto, etc.	EMR	<u>Data Explorer, HDInsight</u>	<u>Dataproc</u>
	Business analytics	Dashboards and visualization	<u>Quicksight, FinSpace</u>	<u>Power BI Embedded,</u> <u>Graph Data Connect</u>	<u>Looker, Looker Studio,</u> <u>Vertex Al Workbench</u>
CS	Real-time analytics	Streaming data analytics	<u>Kinesis Data Analytics, Kinesis Data</u> <u>Streams, Managed Streaming for Kafka</u>	<u>Stream Analytics, Event Hubs</u>	<u>Dataflow, Pub/Sub, Datastream</u>
ALYTICS	Extract-Transform-Load (ETL)	Preprocessing and importing data	<u>Glue, Kinesis Data Firehose, SageMaker</u> Data Wranglar	<u>Data Factory</u>	Data Fusion, Dataflow, Dataproc,
Ż			<u>Data Wrangler</u>		<u>Dataprep by Trifacta</u>
ANA	Workflow orchestration	Build data and model pipelines	Data Pipeline, <u>Managed Workflows for</u> <u>Airflow</u>	<u>Data Factory</u>	<u>Dataprep by Trifacta</u> <u>Cloud Composer</u>
AN	Workflow orchestration Data lake creation	Build data and model pipelines Import data into a lake	Data Pipeline, Managed Workflows for	<u>Data Factory</u> <u>Data Share</u>	
AN			<u>Data Pipeline, Managed Workflows for</u> <u>Airflow</u>		<u>Cloud Composer</u>
AN	Data lake creation	Import data into a lake	Data Pipeline, Managed Workflows for <u>Airflow</u> Lake Formation <u>CloudSearch, OpenSearch Service,</u>	Data Share	Cloud Composer Cloud Storage
	<section-header><section-header></section-header></section-header>	Import data into a lake Enterprise search	Data Pipeline, Managed Workflows for <u>Airflow</u> Lake Formation CloudSearch, OpenSearch Service, <u>Kendra</u>	Data Share Cognitive Search	Cloud Composer Cloud Storage Cloud Search
	Data lake creation Managed search Data Catalog	Import data into a lake Enterprise search Metadata management	Data Pipeline, Managed Workflows for AirflowLake FormationCloudSearch, OpenSearch Service, KendraGlue Data Catalog	Data Share Cognitive Search Purview, Data Explorer	Cloud Composer Cloud Storage Cloud Search Data Catalog
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	Data lake creation Managed search Data Catalog Machine Learning Jupyter notebooks Data science/machine	Import data into a lake Enterprise search Metadata management Train, fit, validate, and deploy ML models Write data analyses and reports	Data Pipeline, Managed Workflows for Lake Formation Lake Formation CloudSearch, OpenSearch Service, Kendra Glue Data Catalog SageMaker SageMaker Notebooks	Data Share Cognitive Search Purview, Data Explorer Machine Learning Notebooks	Cloud Composer Cloud Storage Cloud Search Data Catalog Vertex Al
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	Data lake creationManaged searchData CatalogMachine LearningJupyter notebooksData science/machine learning VMAutoMLNatural language Processing AlRecommendation Al	Import data into a lake Enterprise search Metadata management Metadata management Virtual machines tailored to data work Automatically build ML models Analyze text data Extract text from printed text &	Data Pipeline, Managed Workflows for Airflow Lake Formation CloudSearch, OpenSearch Service, Kendra Glue Data Catalog Glue Data Catalog SageMaker SageMaker Deep Learning AMIs GageMaker Personalize	Data Share Cognitive Search Cognitive Search Durview, Data Explorer Machine Learning Data Science Virtual Machines Data Science Virtual Machines Gachine Learning Studio, Automated ML Gersonalizer	Cloud Composer Cloud Storage Cloud Search Data Catalog Vertex Al Colab Deep Learning VM Vertex Al Workbench Natural Language Al Recommendations Al
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Y CONTAINERS NETWORKING & ML & AI ML & AI	Data lake creationManaged searchData CatalogMachine LearningJupyter notebooksData science/machine learning VMAutoMLNatural language Processing AlRecommendation AlOccument captureComputer visionSpeech to textSpeech to textText to speechTatal agentsAl agentsHuman-in-the-loopContent delivery networkDomain Name System (DNS)Load balancingManaged containers	Interprise search Interprise search<	Para Pipeline: Managed Workflows for Airflow Claue Formation CloudSearch, OpenSearch Service, Kendra Glue Data Catalag Glue Data Catalag SageMaker SageMaker Deep Learning AMIs Garana Garana Arana Garana Arana Garana Grana Garana Arana Garana Arana Garana Grana Garana Arana Garana Grana Garana Grana Garana Arana Garana Grana Garanaa Grana Garanaa	Data Share Cognitive Search Purview, Data Explorer Machine Learning Iotabooks Data Share Machine Learning Iotabooks Iotabooks <td< th=""><th>Cloud Composer Gloud Storage Gloud Storage Cloud Storage Cloud Storach Cloud Storach Cloub</th></td<>	Cloud Composer Gloud Storage Gloud Storage Cloud Storage Cloud Storach Cloud Storach Cloub
Y, IDENTITY CONTAINERS NETWORKING & CONTENT DELIVERY	Data lake creationManaged searchData CatalogJuayter notebooksJupyter notebooksData science/machineIoata science/machineIoata science/machineProcessing AlRecommendation AlDocument captureIocomputer visionSpeech to textIranslation AlVideo IntelligenceAl agentsHuman-in-the-loopIcontent delivery networkApplication ProgrammingIterrace (API) managementIoomain Name System (DNS)Icoad balancingIcontainer registration	 Import data into a lake Enterprise search Metadata management Metadata analyses and reports Write data analyses and reports Write data analyses and reports Automatically build ML models Analyze text data Product recommendation engine Extract taxt from printed text & anadwriting Gage classification, object detection & cother Al with image data Speech transcription Speech generation Gaute and asset search Virtual assistants and chatbots Virtual assistants and chatbots Virtual assistants and chatbots Serve content to users Gaute end users to applications Rauta end apply applications Build and deploy APIs Rauta and deploy applications Anange container images 	Data Pipelins, Managed Workflows for Airflow Lake Formation GloudSearch, SpenSearch, Service, Kendra GloudSearch, SpenSearch, Service, SageMaker GloudSearch, Statistick GloudFront GloudFront GloudFront API Gateway GloudFront	 Data Share Cognitive Search Rurview, Data Explorer Machine Learning Natebooks Data Science Virtual Machines Machine Learning Studio, Machine Learning Studio, Automated ML Machine Learning Studio, Searce Journa Studio, Automated ML Garn Recognizer Cognitive Services for Speech to Text, Cognitive Services for Speech to Speech Cognitive Services for Speech to Translation, Translator Garnitive Services for Speech Translation, Translator Garnitive Services for Speech Translation, Translator Garnitive Services for Speech Translation, Translator Garnitive Services Content Monitor Garnitive Services Content Monitor Garnitive Service, Container Apper Kubernetes Service, Container Apper Garnitive Service, Container Apper 	Cloud Composer Cloud Storage Cloud Storage Cloud Storad Cata Catalog Vertex Al Colob Colob Colob Colob Colob Coloment Al Coloument Al Coloument Al Coloument Al Coloument Al Coloument Al Coloument Al Coloument Al Coloument Al Coloud Chanelone NA Cloud Chanelone Cloud Chanelone Cloud Chanelone Cloud Lood Balonecing Cloud Lood Balonecing Cloud Lood Balonecing
IDENTITY CONTAINERS CONTENT/DELIVERY ML & AI ML & AI	Data lake creationManaged searchData CatalogMachine LearningJupyter notebooksJupyter notebooksData science/machine learning VMAutoMLNatural language Processing AlRecommendation AlComputer visionGasech to textJupsech to textYideo IntelligenceAl agentsUtideo IntelligenceAl agentsJupitcation Programming Interface (API) managementLoad balancingContain registrationAccess management	 Import data into a lake Enterprise search Metadata management Metadata analyses and reports Write data analyses and reports Virtual machines tailored to data work Automatically build ML models Analyze text data Product recommendation engine Extract text from printed text & handwriting Gonvert text bayeech transcription Speech transcription Speech generation Yitual assistants and chatbots Virtual assistants and chatbots Virtual assistants and chatbots Virtual assistants and chatbots Serve content to users Gauid and deploy APIs Build and deploy applications Distribute work evenly accross machines Manage containering Manage containering User permissions and authentications 	Pata Pipelins. Managed Workflows for Airliow Lake Formation GloudSearch. SpenSearch. Service, SageMaker Gloud Data Catalog SageMaker SageMaker Deap Learning AMIs Gloud Data Catalog Gloud Data Catalog GageMaker SageMaker BageMaker SageMaker GageMaker SageMaker BageMaker SageMaker GageMaker SageMaker SageMaker GageMaker SageMaker SageMaker SageMaker GageMaker SageMaker	 Lata Share Cagnitive Search Rurview, Data Explorer Machine Learning Machine Learning Data Science Virtual Machines Machine Learning Studie, Machine Services for Speech to Translation. Translator Gagnitive Services for Speech Translation. Translator Gagnitive Services Content Monitor Gagnitive Services Content Monitor DNS Application Gateway, Load Balancer, Traffic Manager Gather Registry Gather Registry Entra ID 	Cloud Composer Cloud Storage Cloud Storage Data Catalog Vertex Al Colab Colab Vertex Al Workbench Vertex Al Workbench Recommendations Al Vision Al Speech-to-Text Speech-to-Text Dialogiflow Vickea Intelligence API Na Cloud CDNs and Media CDNs Cloud Load Balancing Gloud Load Balancing Kubernetes Engine Cloud Identity.
& SECURITY IDENTITY CONTAINERS CONTENT DELIVERY ML & AI ML & AI	Data lake creationManaged searchData CatalogMachine LearningJupyter notebooksData science/machine learning VMAutoMLNatural language Processing AlRecommendation AlOcourent captureGorent captureText to speechTranslation AlYideo IntelligenceAl agentsApplication Programming Interface (API) managementDomain Name System (DNS)Load balancingAccess managementActivity tracking	 Import data into a lake Enterprise search Metadata management Write data analyses and reports Write data analyses and reports Virtual machines tailored to data work Automatically build ML models Analyze text data Product recommendation engine Extract text from printed text ala Image classification, object detection s Gasech transcription Speech transcription Speech generation Gasech transcription Text to speech Speech generation Gasech transcription Gasech transcription Speech generation Gasech transcription Speech generation Gaser content to users Gaser content to users Build and deploy APIs Build and deploy APIs Gastribute work evenly across machines Gastribute work evenly across machines Gastribute work evenly across machines Guser permissions and authentication Frack user activity Protect your data, network ond 	I Cata Pipelina Managed Warkflows for Lake Formation I Cata Earnation I Cata Data Catalog I CatageAdwar	Data Share Cognitive Search Purview, Data Explorer Machine Learning Notebooks Data Science Virtual Machines Machine Learning Studio. Cognitive Services for Speach to Text Analytics Cognitive Services for Speach to Speach Speach Cognitive Services for Speach to Speach Stude Indexer Video Indexer Cognitive Services for Speach to Stude Service, Cognitive Services for Speach to Speach API Apps, API Management DNS Application Gateway, Load Belancer, Taroffic Manager Kubernetes Service, Container Apps Scontainer Registry Scontainer Registry <th>Cloud ComposerCloud StorageCloud StorageCloud StorageData CatalogVertex AlColabVertex Al WorkbenchVertex Al WorkbenchRecommendations AlSpeech-to-TextVision AlSpeech-to-TextVision AlVision AlCloud StorageVision AlSpeech-to-TextVision AlCloud Italiigence APIVideo Intelligence APINaCloud CDN and Media GDNApigee API ManagementCloud Load BalancingGibarder Aritiact RegistryCloud Load BalancingCloud Load RatingCloud RatingCloud RatingCloud RatingCloud RatingCloud RatingCloud RatingCloud RatingCloud RatingClou</th>	Cloud ComposerCloud StorageCloud StorageCloud StorageData CatalogVertex AlColabVertex Al WorkbenchVertex Al WorkbenchRecommendations AlSpeech-to-TextVision AlSpeech-to-TextVision AlVision AlCloud StorageVision AlSpeech-to-TextVision AlCloud Italiigence APIVideo Intelligence APINaCloud CDN and Media GDNApigee API ManagementCloud Load BalancingGibarder Aritiact RegistryCloud Load BalancingCloud Load RatingCloud RatingCloud RatingCloud RatingCloud RatingCloud RatingCloud RatingCloud RatingCloud RatingClou
SECURITY IDENTITY CONTAINERS CONTENT DELIVERY MI & AI MI & AI	Data lake creationManaged searchData CatalogMachine LearningJupyter notebooksData science/machine learning VMAutoMLNatural language Processing AlObcument captureObcument captureGarecomputer visionText to speechTranslation AlSpeech to textAl agentsAl agentsAl agentsApplication Programming Interface (API) managementLoad balancingAccess managementActivity trackingActivity trackingSecurity	 Import data into a lake Enterprise search Metadata management Varita data analyses and reports Vartual machines tailored to data anola Automatically build ML models Analyze text data Product recommendation engine Extract taxt from printed text & handwriting Image classification, object detections Speech transcription Speech transcription Virtual assistants and chatbots Serve content to users Gaver content to users Gaver content to users Build and deploy APIs Build and deploy APIs Castro chatin inages Manage container inages Virtua assistants and chatbots Castro chatin ta data Run and deploy aPIs Castro chatin inages Protect your data, network and applications Protect your data, network and applications 	Data Pipelina Ananged Warkflows for Lake Formation GlaudSearch SpenSearch Searcies GlaudSearch SpenSearch Searcies SageMaker SageMaker SageMaker Babe Dear Landrag Gaen Data Catolog Gaen Marker SageMaker SageMaker SageMaker Carage Marker Gaen Data Catolog Gaen Data Catolog <tr< th=""><th> Lata Share Caganitive Search Rurview, Data Explorer Machine Learning Machine Learning Lata Science Virtual Machines Cata Science Virtual Machines Machine Learning Studio, Automated ML Text Analytics Form Recognizer Cagnitive Services for Speech or Speech Cagnitive Services for Speech or Translation. Translator Cagnitive Services for Speech or Translation. Translator Gagnitive Services for Speech or Speech Cagnitive Services for Speech or Translation. Translator Gagnitive Services for Speech or Translation. Translator Gagnitive Services for Speech or Translation. Translator Gagnitive Services Content Monitor Garbert Delivery Network API Apps, API Management API Apps, API Management API Apps, API Management API Apps, API Management Cantert Deliver, Container Apps Kubernetes Service. Container Apps Fatra ID Kubernetes Service. Container Apps Gantar Deliver, Cantanter Apps Security </th><th>Cloud ComposerCloud StorageCloud StorageCloud StorageData CatalogVertex AlColabColabColabVertex Al WorkbenchCharantalanguage AlRecommendations AlVision AlSpeech-to-TextGatactabegenVision AlSpeech-to-TextCloud IdentifiedAritact AlbanemendationCloud CDN and MediagementCloud CDN and MediagementCloud Load BatoneingCloud Load BatoneingCloud IdentifiedCloud IdentifiedAccess Transparency and Access ApprovalScourity Command Center</th></tr<>	 Lata Share Caganitive Search Rurview, Data Explorer Machine Learning Machine Learning Lata Science Virtual Machines Cata Science Virtual Machines Machine Learning Studio, Automated ML Text Analytics Form Recognizer Cagnitive Services for Speech or Speech Cagnitive Services for Speech or Translation. Translator Cagnitive Services for Speech or Translation. Translator Gagnitive Services for Speech or Speech Cagnitive Services for Speech or Translation. Translator Gagnitive Services for Speech or Translation. Translator Gagnitive Services for Speech or Translation. Translator Gagnitive Services Content Monitor Garbert Delivery Network API Apps, API Management API Apps, API Management API Apps, API Management API Apps, API Management Cantert Deliver, Container Apps Kubernetes Service. Container Apps Fatra ID Kubernetes Service. Container Apps Gantar Deliver, Cantanter Apps Security 	Cloud ComposerCloud StorageCloud StorageCloud StorageData CatalogVertex AlColabColabColabVertex Al WorkbenchCharantalanguage AlRecommendations AlVision AlSpeech-to-TextGatactabegenVision AlSpeech-to-TextCloud IdentifiedAritact AlbanemendationCloud CDN and MediagementCloud CDN and MediagementCloud Load BatoneingCloud Load BatoneingCloud IdentifiedCloud IdentifiedAccess Transparency and Access ApprovalScourity Command Center