Features	AWS	vs	Azure	vs	GCP
Compute Services	■ AWS Beanstalk ■ Amazon EC2 ■ Amazon EC2 Auto-Scaling ■ Amazon Elastic Container Registry ■ Amazon Elastic Kubernetes Service ■ Amazon Lightsail ■ AWS Serverless Application Repository ✔ VMware Cloud for AWS ■ AWS Batch ■ AWS Fargate ■ AWS Lambda ■ AWS Outposts ■ Elastic Load Balancing		■ Platform-as-a-service (PaaS) ■ Function-as-a-service (FaaS) ■ Service Fabric ■ Azure Batch ■ Cloud Services ■ Container Instances Batch ■ Azure Container Service (AKS) ■ Virtual Machines Compute Engine ■ Virtual Machine Scale Sets		■ App Engine ■ Docker Container Registry ■ Instant Groups ■ Compute Engine ■ Graphics Processing Unit (GPU) ■ Knative ■ Kubernetes ■ Functions
Storage Services	■ Simple Storage Service (S3) ■ Elastic Block Storage (EBS) ■ Elastic File System (EFS) ■ Storage Gateway ■ Snowball ■ Snowball Edge ■ Snowmobile		■ Blob Storage ■ Queue Storage ■ File Storage ■ Disk Storage ■ Data Lake Store		■ Cloud Storage ■ Persistent Disk ■ Transfer Appliance ■ Transfer Service
AI/ML	■ SageMaker ■ Comprehend ■ Lex ■ Polly ■ Rekognition ■ Machine Learning ■ Translate ■ Transcribe ■ DeepLens ■ Deep Learning AMIs ■ Apache MXNet on AWS ■ TensorFlow on AWS		■ Machine Learning ■ Azure Bot Service ■ Cognitive Services		■ Cloud Machine Learning Engine ■ Dialogflow Enterprise Edition ■ Cloud Natural Language ■ Cloud Speech API ■ Cloud Translation API ■ Cloud Video Intelligence ■ Cloud Job Discovery (private beta)
Database Services	■ Aurora ■ RDS ■ DynamoDB ■ ElastiCache ■ Redshift ■ Neptune ■ Database Migration Service		■ SQL Database ■ Database for MySQL ■ Database for PostgreSQL ■ Data Warehouse ■ Server Stretch Database ■ Cosmos DB ■ Table Storage ■ Redis Cache ■ Data Factory		■ Cloud SQL ■ Cloud Bigtable ■ Cloud Spanner ■ Cloud Datastore
Backup Services	Glacier		■ Archive Storage ■ Backup ■ Site Recovery		■ Nearline (frequently accessed data) ■ Coldline (infrequently accessed data)
Serverless Computing	■ Lambda ■ Serverless Application Repository		Functions		Google Cloud Functions
Strengths	■ Dominant Market Position ■ Extensive, Mature Offerings ■ Support for Large Organizations ■ Global Reach ■ Flexibility and a Wider Range of Services		■ Second Largest Provider ■ Integration with Microsoft Tools and Software ■ Broad Feature Set ■ Hybrid Cloud ■ Support for Open Source ■ Ideal for Startups and Developers		■ Designed for Cloud-native Businesses ■ Commitment to Open Source and Portability ■ Flexible Contracts ■ DevOps Expertise ■ Most Cost-efficient
Networking	Amazon Virtual Private Cloud (VPC)		Azure Virtual Network (VNET)		Cloud Virtual Network
Security	AWS Security Hub		Azure Security Center		Cloud Security Command Center
Location	102 Availability Zones within 32 Geographic Regions		Presence in 60+ Regions Across the World		Presence in 38 Regions and 115 Zones. Available in 200+ Countries and Territories
Documentation	Best in Class		High Quality		High Quality
Caching	Elastic Cache		Redis Cache		Cloud CDN
File Storage	EFS		Azure Files		ZFS and Avere
DNS Services	Amazon Route 53		Azure Traffic Manager		Cloud DNS
Notifications	Amazon Simple Notification Service (SNS)		Azure Notification Hub		None
Load Balancing	Elastic Load Balancing		Load Balancing for Azure		Cloud Load Balancing
Automation	AWS Opsworks		Azure Automation		Compute Engine Management
Compliance	AWS CloudHSM		Azure Trust Center		Google Cloud Platform Security
Pricing/Discount Options	One-year free trial along with a discount of up to 72% for a 1-3 year commitment		Up to 90% discount compared to the pay-as-you-go pricing model for a commitment ranging from one to three years		GCP offers a 30% discount on the monthly expense of utilizing a single GPU