



## History

- AWS started In 2006
- Offering IT infrastructure services to businesses as web services—now commonly known as cloud computing.
- Today, AWS serve 245 countries
- AWS is the leader on cloud infrastructure



Amazon Web Services Microsoft

Figure 1. Magic Quadrant for Cloud Infrastructure as a Service, Worldwide



Source: Gartner (July 2019)



# Leaftaps Application

2010, We hosted locally on a server for classroom:

- Speed
- Performance
- Security
- Cost
- Maintenance
- Load Balancer
- Electricity



## **24 Launched Regions**

Each with multiple Availability Zones (AZ's)

**3 Announced Regions** 

**76 Availability Zones** 

1 Local Zone

For ultralow latency applications

## **2x More Regions**

With multiple AZ's than the next largest cloud provider

245 Countries and Territories Served

97 Direct Connect Locations

#### **216 Points of Presence**

205 Edge Locations and 11 Regional Edge Caches





#### <u>Test Leaf</u>

Compute

EC2
Lightsail C

ECR

ECS

EKS

Lambda

Batch

Elastic Beanstalk

Serverless Application Repository



Storage

AWS Outposts

EC2 Image Builder

S3 EFS

FSx

S3 Glacier

Storage Gateway

AWS Backup



Database

RDS

DynamoDB

ElastiCache

Neptune

Amazon Redshift

Amazon QLDB

Amazon DocumentDB



AWS IQ 🗷

Support

Managed Services



Amazon Managed Blockchain



Satellite

Ground Station



**Quantum Technologies** 

Amazon Braket 7



Management & Governance

**AWS Organizations** 

CloudWatch

AWS Auto Scaling

CloudFormation

CloudTrail

Config

OpsWorks

Service Catalog

Systems Manager

AWS AppConfig

Trusted Advisor

Control Tower

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**Machine Learning** 

Amazon SageMaker

Amazon CodeGuru Amazon Comprehend

Amazon Forecast

Amazon Fraud Detector

Amazon Kendra

Amazon Lex

Amazon Machine Learning

Amazon Personalize

Amazon Polly

Amazon Rekognition

Amazon Textract

Amazon Transcribe

Amazon Translate

AWS DeepLens

AWS DeepRacer

Amazon Augmented Al



Analytics

Athena

EMR

CloudSearch

Elasticsearch Service

Kinesis

QuickSight 2

Data Pipeline

AWS Data Exchange

AWS Glue

AWS Lake Formation



Application Integration

Step Functions

Amazon EventBridge

Amazon MQ

Simple Notification Service

Simple Queue Service

SWF



**AWS Cost Management** 

AWS Cost Explorer

**AWS Budgets** 

AWS Marketplace Subscriptions



**Customer Engagement** 

Amazon Connect

Pinpoint

Simple Email Service



**Business Applications** 

Alexa for Business

Amazon Chime 🗷

WorkMail



**End User Computing** 

WorkSpaces

AppStream 2.0

WorkDocs

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AWS Service Quotas

AZ	Regional	Global
EC2 Instance	S3 Bucket	IAM(Users, Groups, Roles & Policies)
EBS Volume	AMI	Route 53
RDS Instance	Snapshots(EBS/RDS)	CloudFront Distribution
Redshift Node	DynamoDB	
Subnets	VPC	
Elastic File System	Elastic IP	
	SQS, SNS	
	CloudWatch Metrices	







Features/ Cloud	aws Aws	Azure	<b>Google Cloud</b>	iBM Cloud
Service Name	EC2 Spot Instances	Low Priority VMs	Preemptible VMs	Transient Servers
Pricing	Variable	Fixed	Fixed	Fixed
Shutdown Lead Time	2 Mins	30 Secs	30 Secs	None
Maximum Time Limit	None (depends on extra capacity)	None (depends on extra capacity)	24 Hour Limit and certain instances within 6 hours	None (depends on extra capacity)
Capacity Management	Spot Fleet	No	Instance Groups	No
Cost Visibility	Spot Instance Advisor	Fixed Pricing	Fixed Pricing	Fixed Pricing