

## What is the cloud?

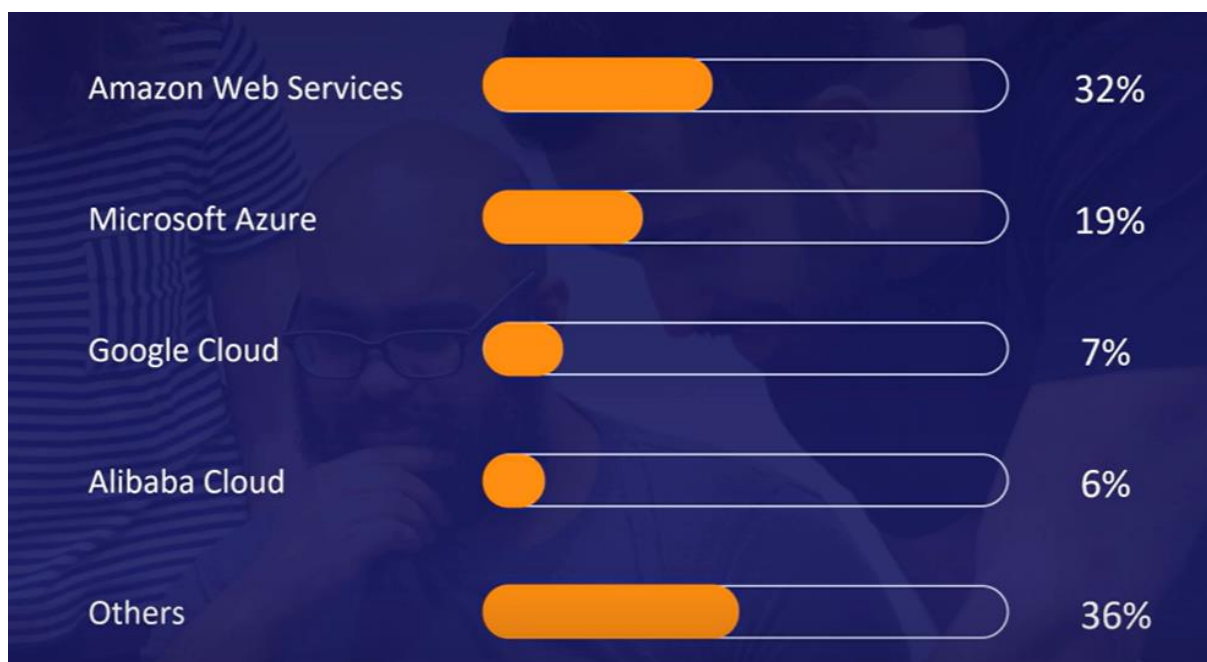
- A collection of services which create a platform
  1. Virtual servers
  2. Media services
  3. Security
  4. Databases
  5. Networking
  6. Data Storage
  7. Analytics
  8. Machine Learning

AWS is the worlds most comprehensive and broadly adopted cloud platform, offering over 200 fully featured services from data centres globally, millions of customers – including the fastest growing start-ups, largest enterprises and leading govt agencies are using AWS to lowers costs , become more agile and innovate faster.

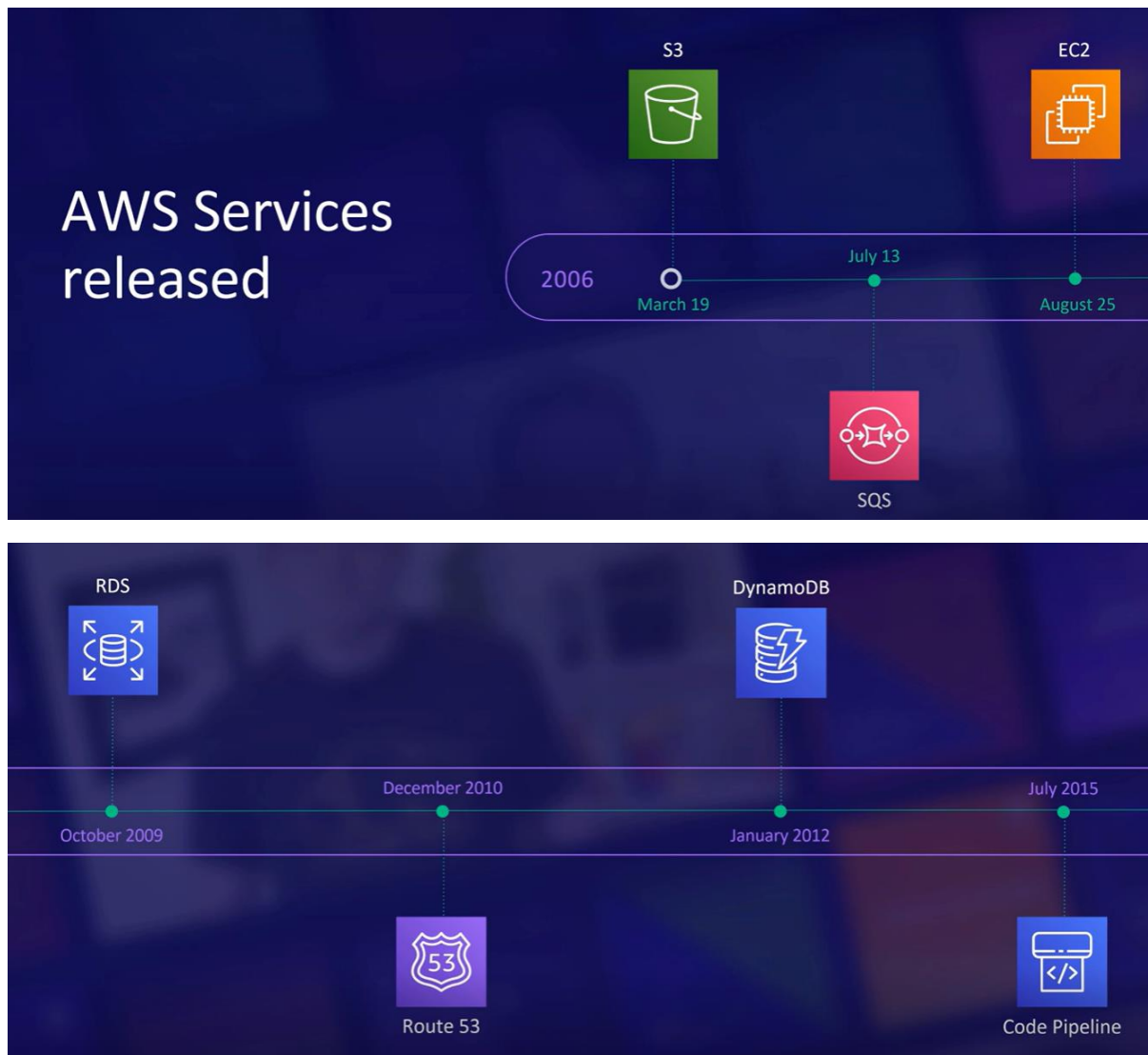
Pay as you go pricing:

- Billed by second for using services
- 60 second minimum
- Use 83 seconds, get charged for 83 seconds
- Lambda recently moved to per millisecond billing

Market Share:



## AWS Service Timeline:



## Regions and availability zones:

### Regions:

- AWS Regions are separate geographic areas that AWS uses to house its infrastructure.
- These are distributed around the world so that customers can choose a region closest to them in order to host their cloud infrastructure there.
- The closer your region is to you, the better, so that you can reduce network latency as much as possible for your end-users. You want to be near the data centres for fast service.

### Availability Zones:

- An AWS Availability Zone (AZ) is the logical building block that makes up an AWS Region. They are isolated locations— data centers — within a region.
- Each region has multiple AZs and when you design your infrastructure to have backups of data in other AZs you are building a very efficient model of resiliency, i.e. a core concept of cloud computing.

