



**amazon**  
web services

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# AWS Introduction

AWS stands for **Amazon Web Services**.--2006

The AWS service is provided by the Amazon that uses distributed IT infrastructure to provide different IT resources available on demand. It provides different services such as infrastructure as a service (IaaS), platform as a service (PaaS) and packaged software as a service (SaaS).

Amazon launched AWS, a cloud computing platform to allow the different organizations to take advantage of reliable IT infrastructure.

# Uses of AWS

- A small manufacturing organization uses their expertise to expand their business by leaving their IT management to the AWS.
- A large enterprise spread across the globe can utilize the AWS to deliver the training to the distributed workforce.
- An architecture consulting company can use AWS to get the high-compute rendering of construction prototype.
- A media company can use the AWS to provide different types of content such as ebook or audio files to the worldwide files.

# Who uses AWS?

Many thousands of companies use AWS for big data

**NOKIA**

**NETFLIX**

**NASDAQ OMX**

 **PHILIPS**

**docomo**

 **AUTODESK**

**SAMSUNG**

 **Adobe**

**amazon**

**AdRoll**

 **Expedia**

**foursquare**

 **WILLBROS**

**Kellogg's**

**AON**

 **THE CLIMATE CORPORATION**

 **airbnb**

**ThermoFisher  
SCIENTIFIC**

**yelp**

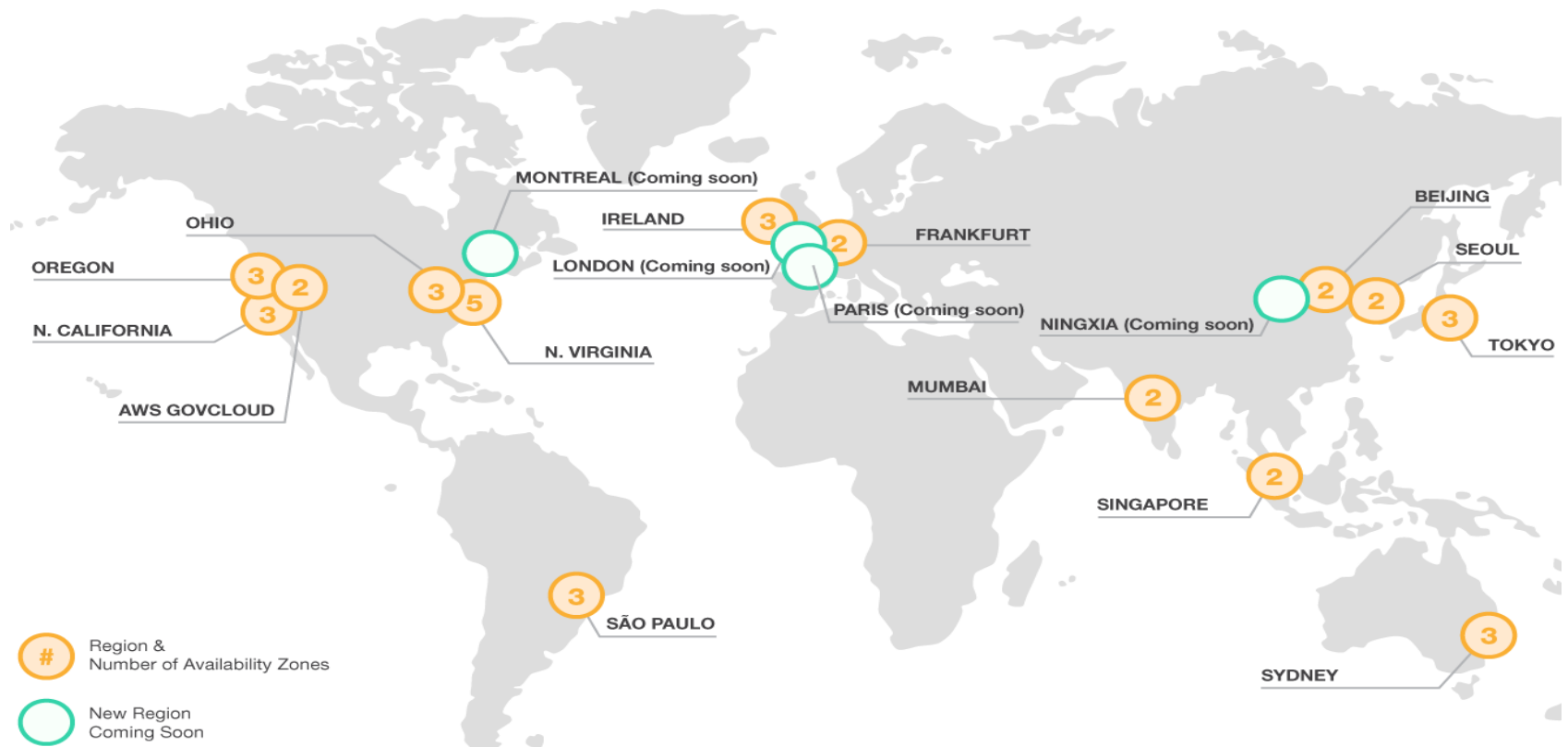
**VIVAKI** 

# **AWS's security and reliability**

Compared to a company website that is self-hosted, AWS is more secure. Dozens of data centers across the world are continuously monitored and has a vigilant team watching over it. As the data centers are spread out, a natural disaster or outage at one location won't affect other data centers.

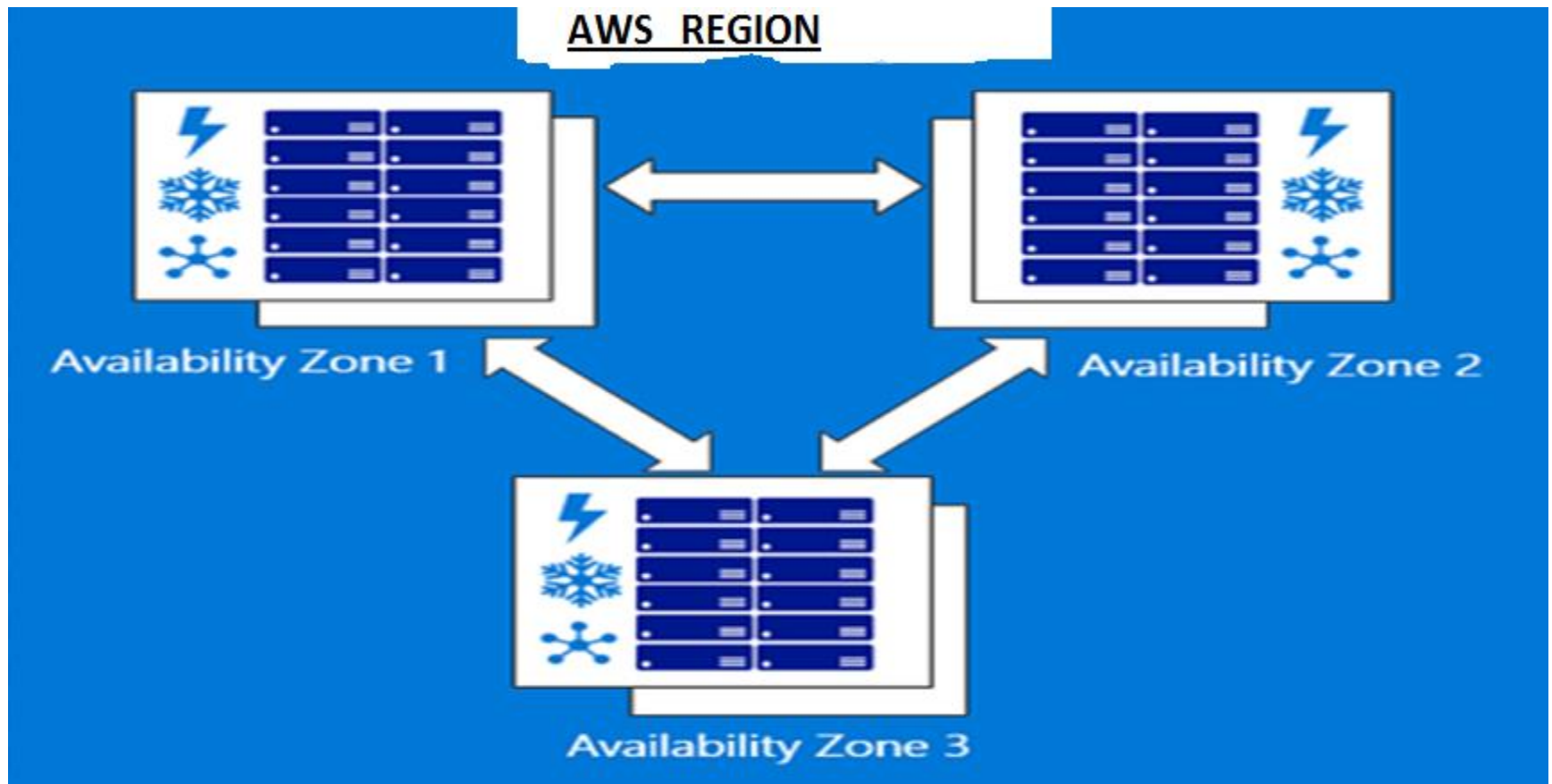
# AWS's Regions

Regions are the datacenter available across worldwide-24 regions and 76 availability zones globally



# AWS Availability Zone

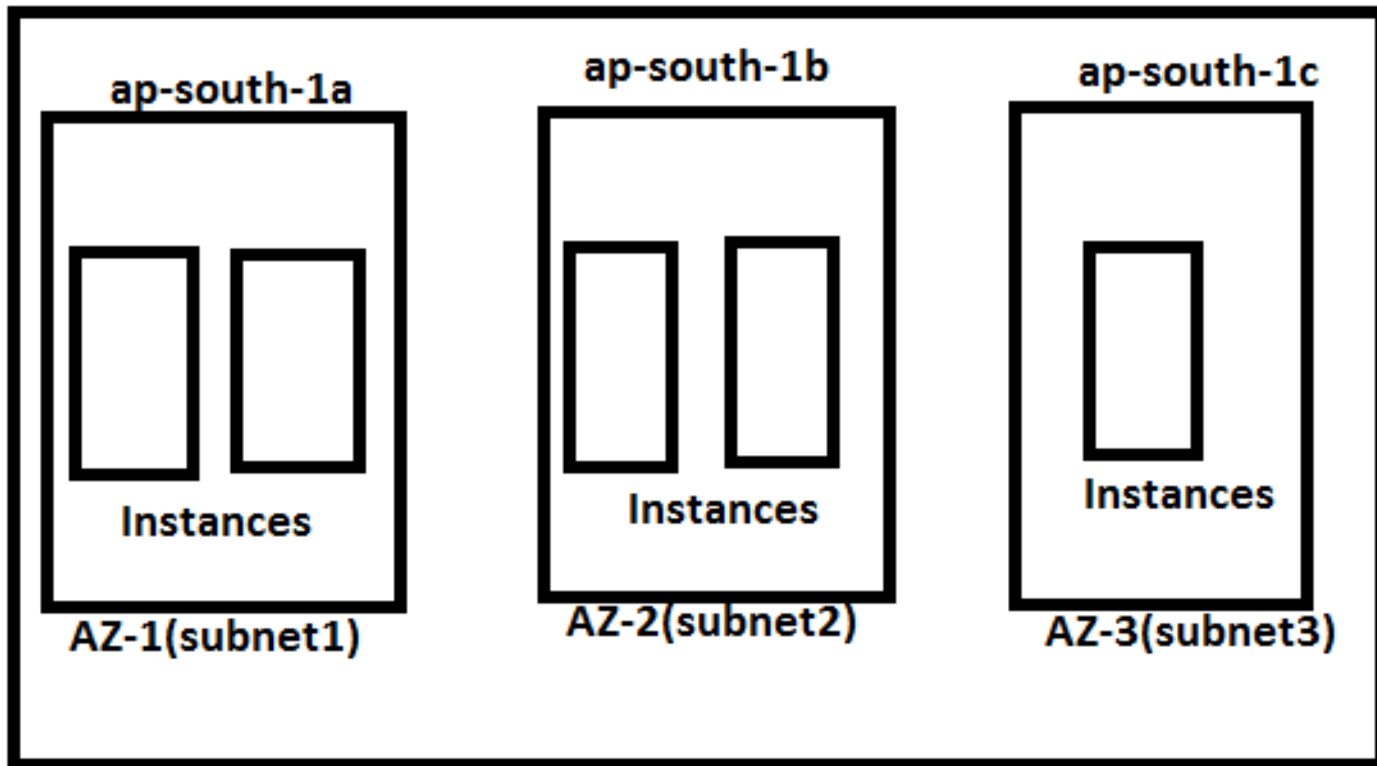
Unique physical locations within a region. Each zone is made up of one or more datacenters equipped with independent power, cooling, and networking.





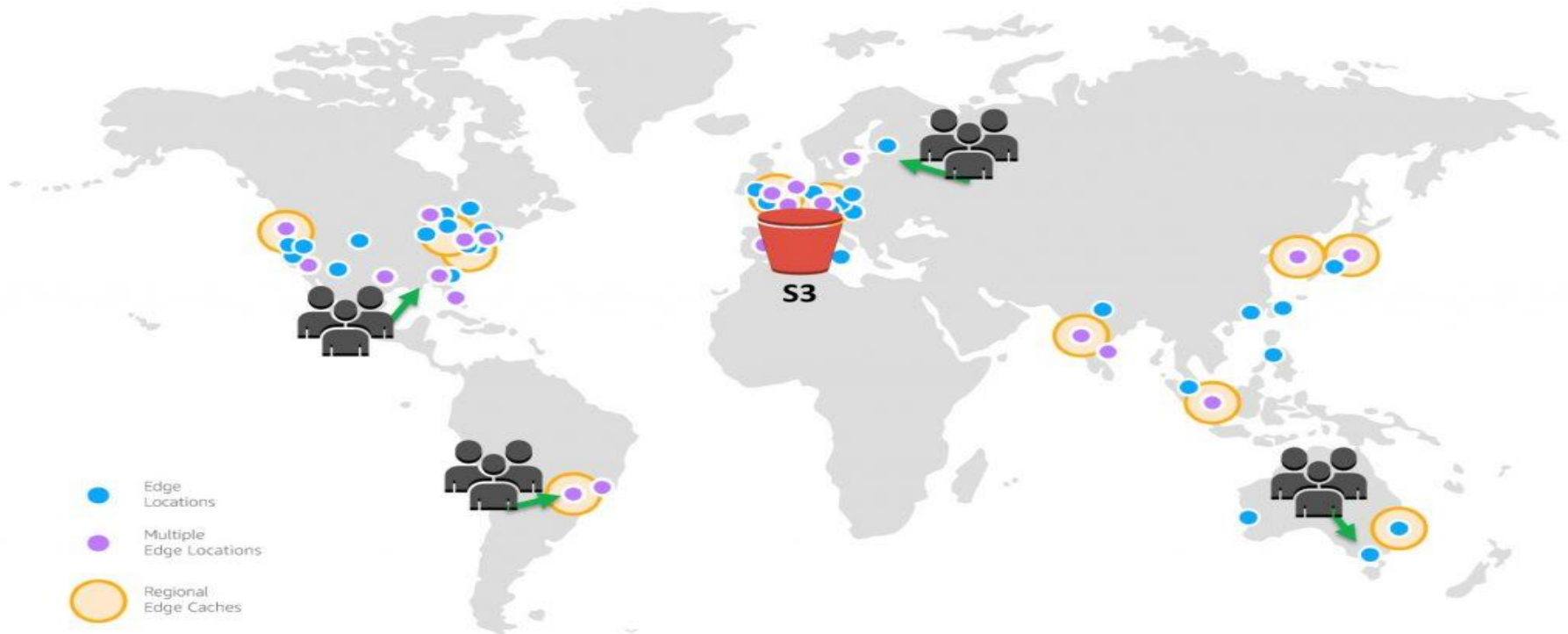
REGION AND AVAILIBLITY ZONE

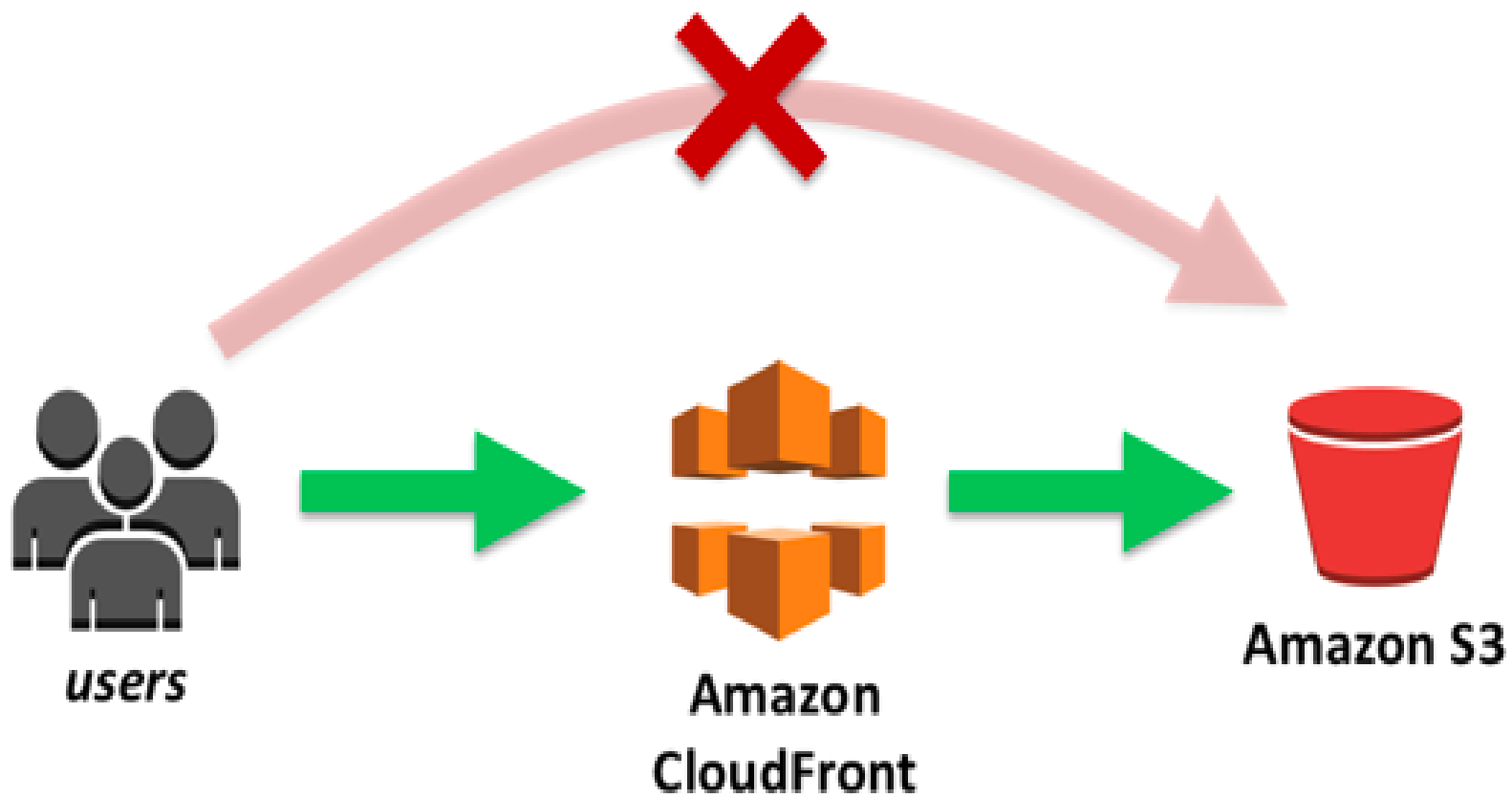
**Region -Asia Pacific Mumbai(ap-south-1)**



# AWS's Edge location

A site that CloudFront uses to cache copies of your content for faster delivery to users at any location.





# Accessing AWS Console

We need to open account in aws console using our debit card.

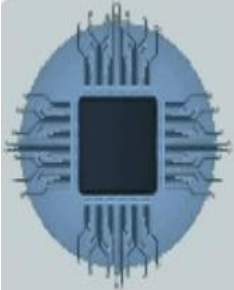
12 month free tier access within some limit



# Free tier Access limit

- 1) Total EBS --30 GB HD
- 2) Instance type: 1vcpu(2.5ghz), 1 GB RAM
- 3) Instance Running : 750 hour/month
- 4) Image snapshot – 1 GB
- 5) One Elastic IP attached with running Instance
- 6) S3 bucket storage – 5 GB

# AWS Services



Compute



Migration



Security



Storage



Networking



Messaging



Database



Management Tools



Analytics

# AWS Certification

- AWS Certified Solutions Architect - Associate
- AWS Certified Solutions Architect - Professional
- AWS Certified SysOps Administrator - Associate
- AWS DevOps Engineer Professional

aws   
certified

**Solutions  
Architect**

Associate



# Main Course Content

- ✓ **Compute**
- ✓ **Storage**
- ✓ **Database**
- ✓ **Networking**
- ✓ **Management**
- ✓ **Security**
- ✓ **Application Integration**

# Compute

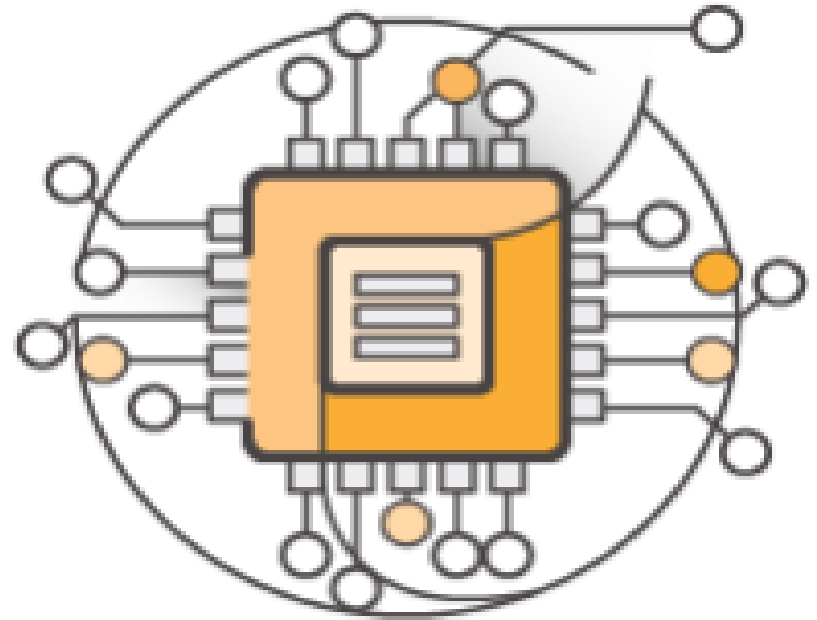
## 1) EC2

- ✓ AMI
- ✓ Instance
- ✓ Security Group
- ✓ Key pair
- ✓ Load Balancer
- ✓ Autoscaling
- ✓ Volume
- ✓ Snapshot

## 2) Lambda

## 3) Lightsail

## 4) Elastic Beanstalk



# Storage

✓ S3

✓ EFS



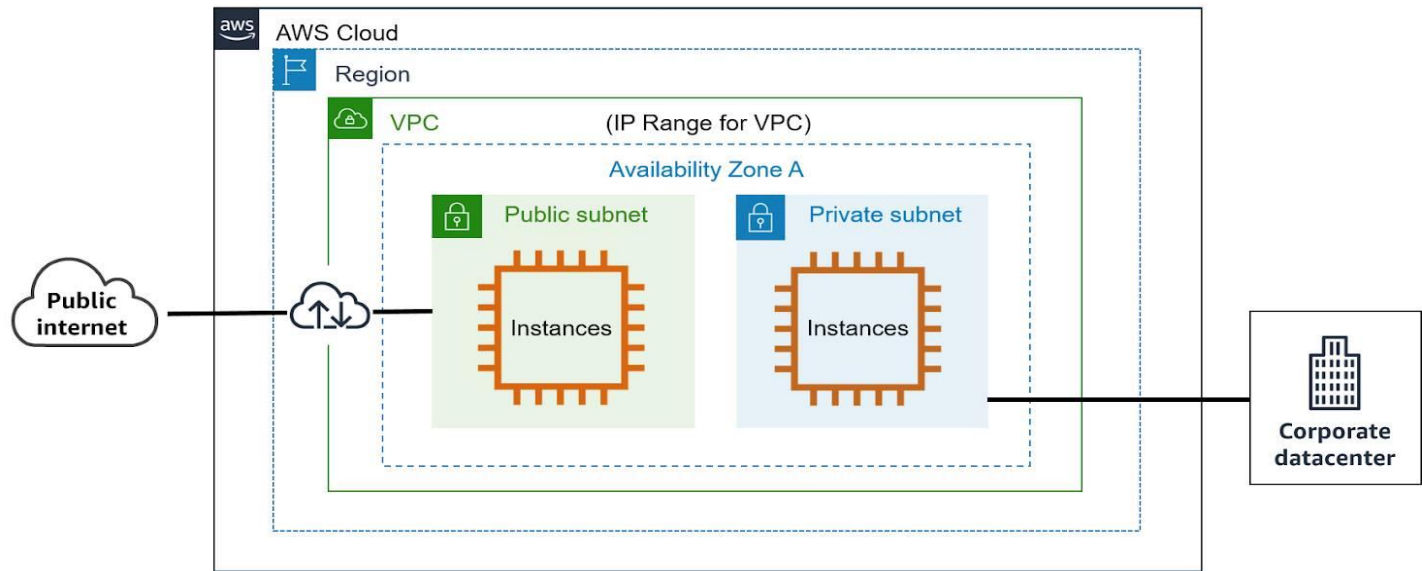
# Database

- ✓ RDS
- ✓ Dynamodb



# Networking

- ✓ VPC
- ✓ Cloudfront
- ✓ Route53



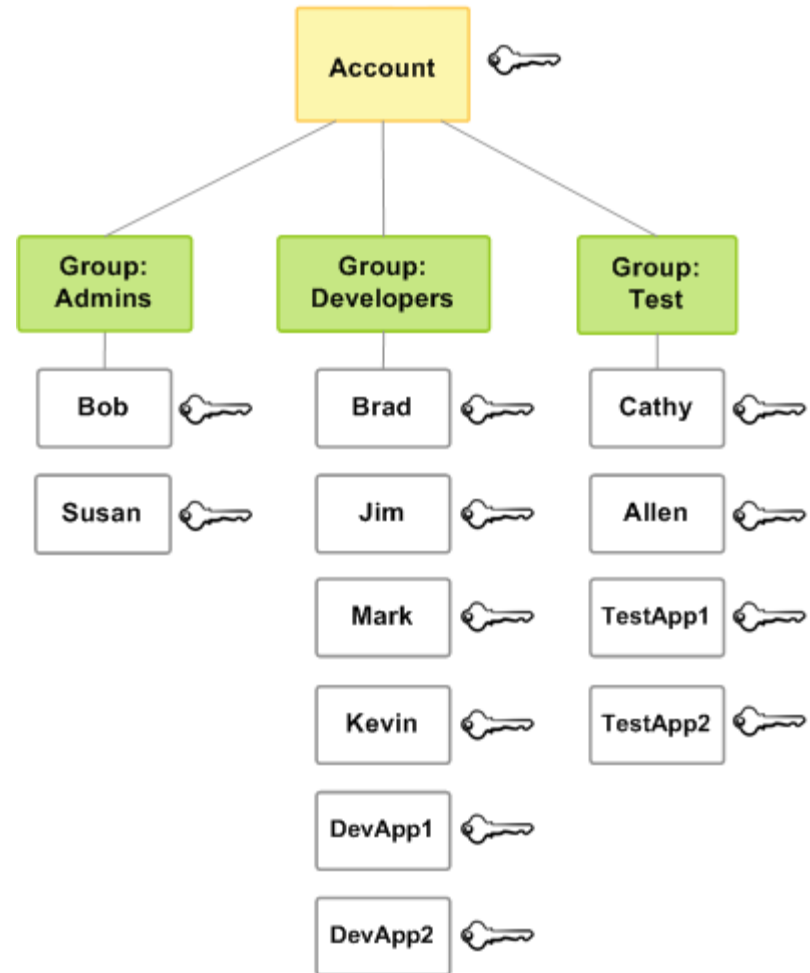
# Management

- ✓ Cloudwatch
- ✓ Cloudformation



# Security

✓ IAM



# Application Integration

✓ SNS

✓ SQS

