



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 ebox 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

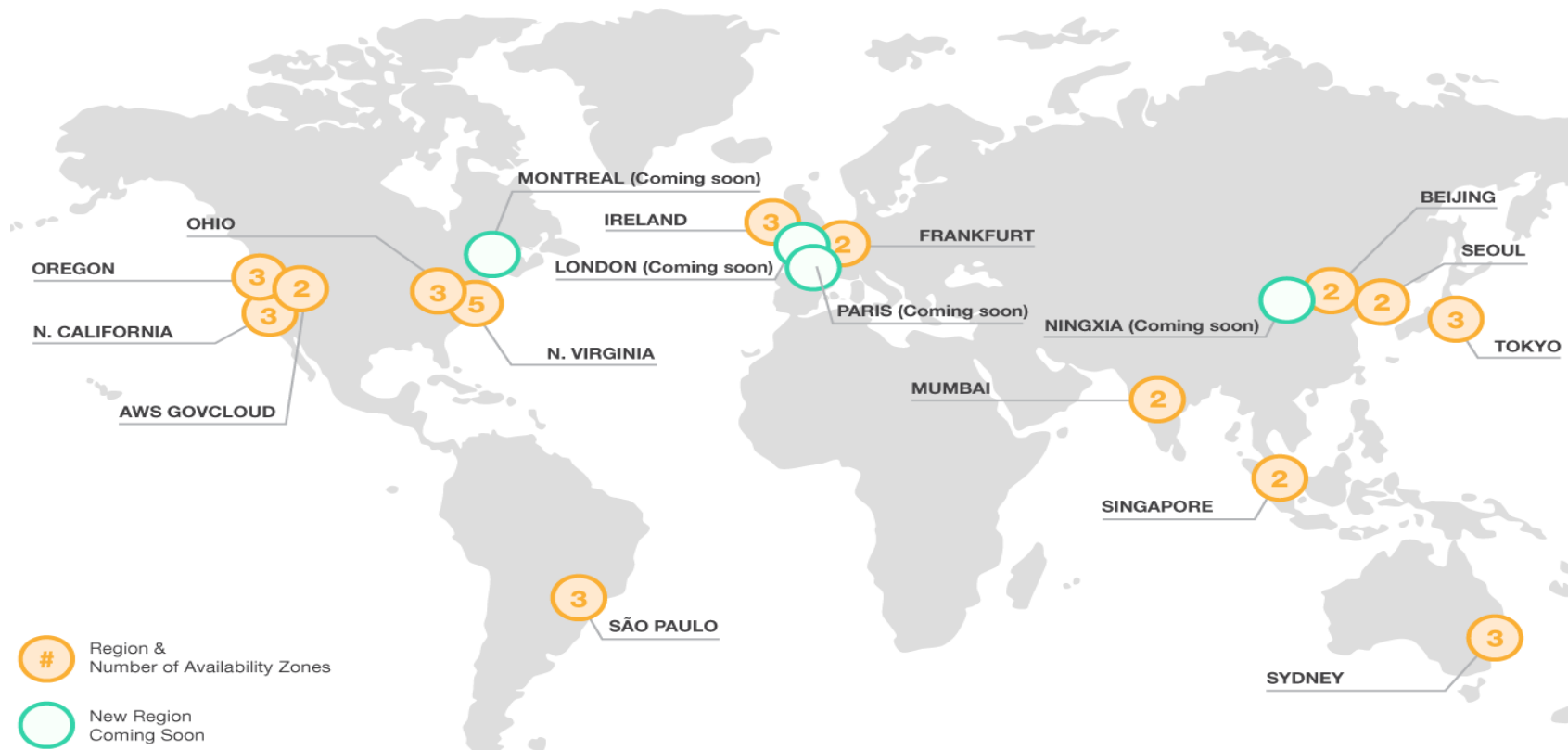
VIVAKI 

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.

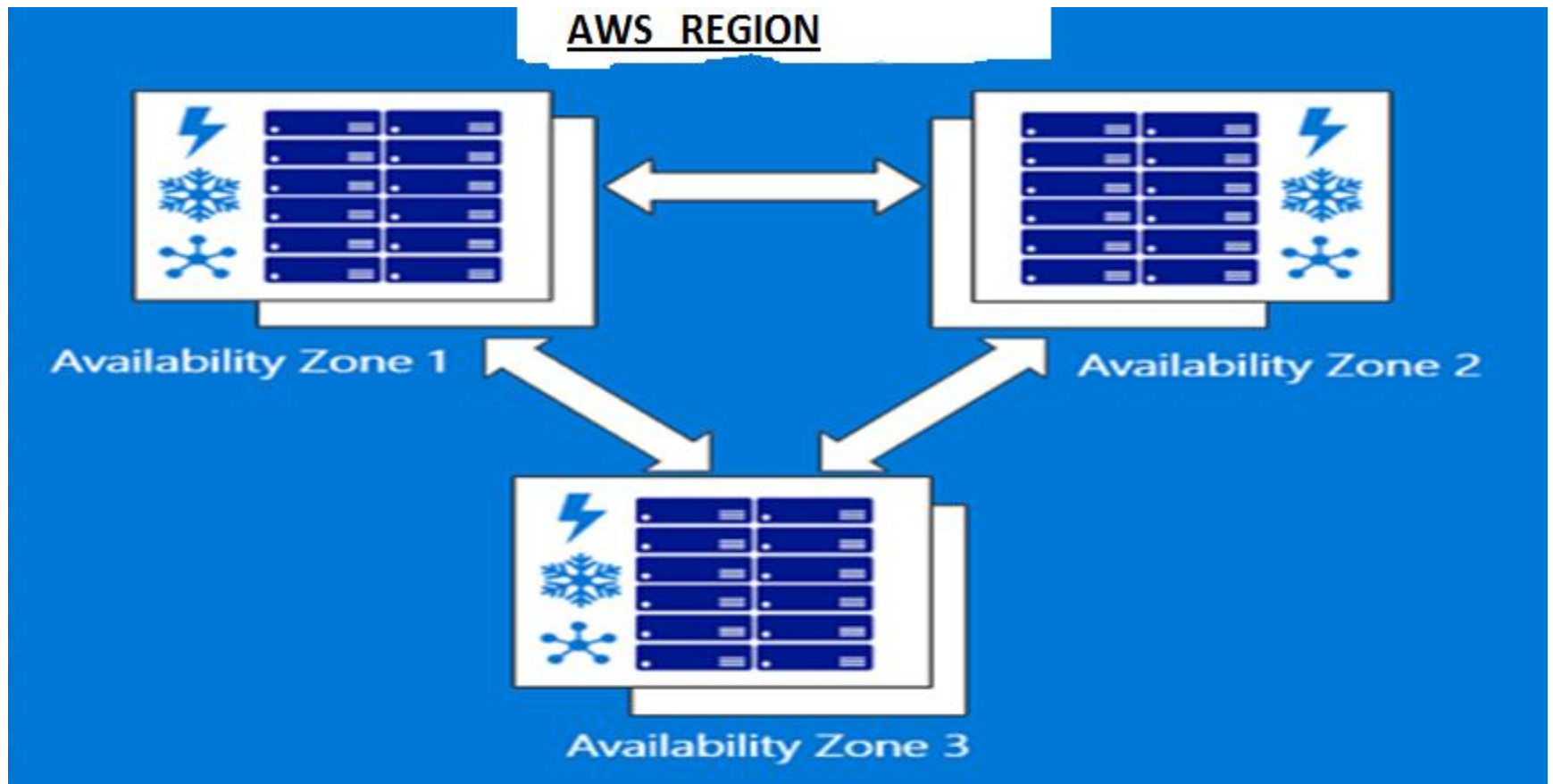
AWS's Regions

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



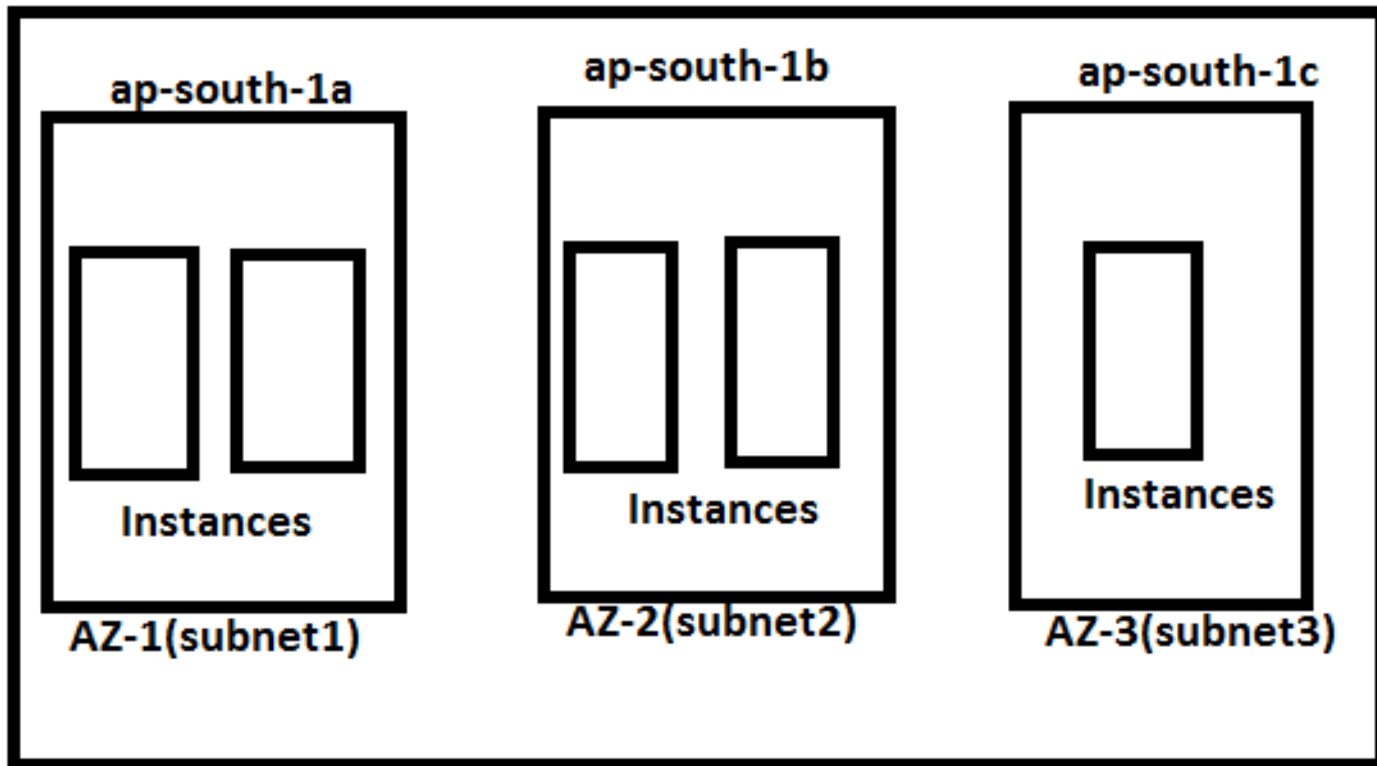
AWS Availability Zone

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



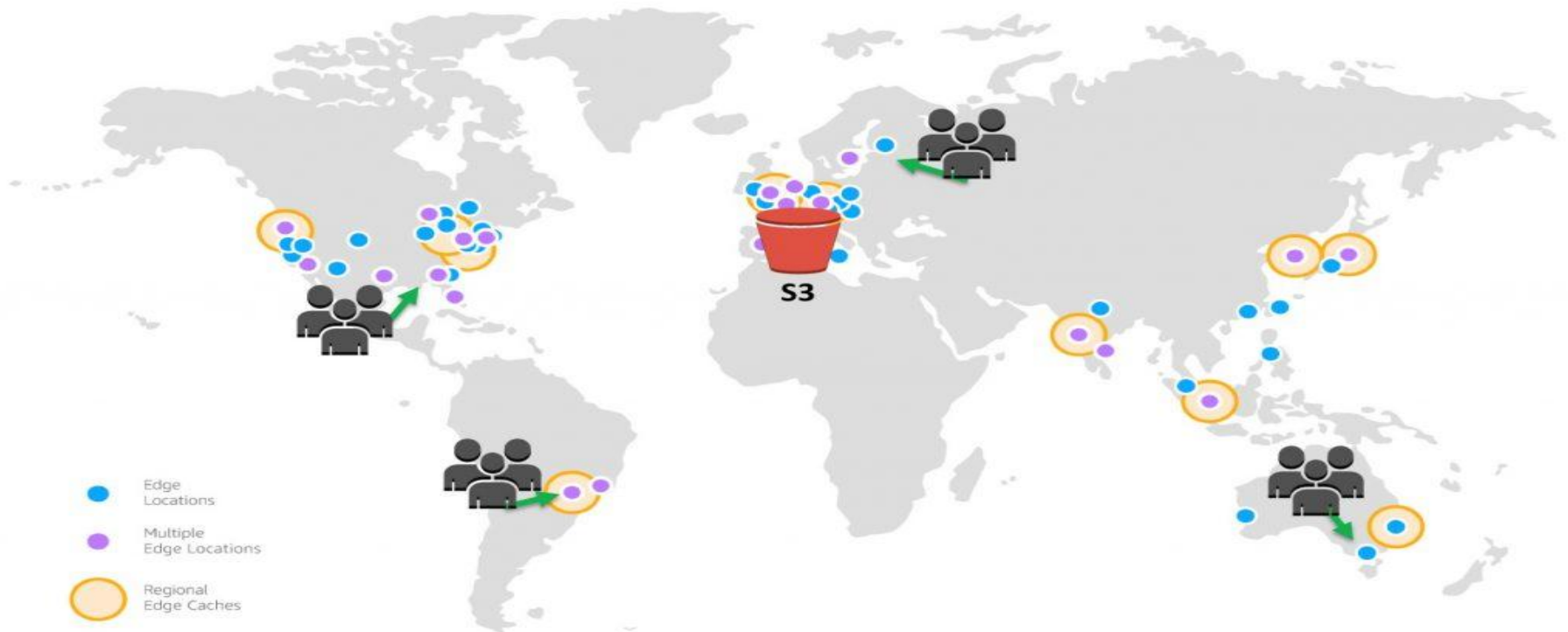
REGION AND AVAILIBLITY ZONE

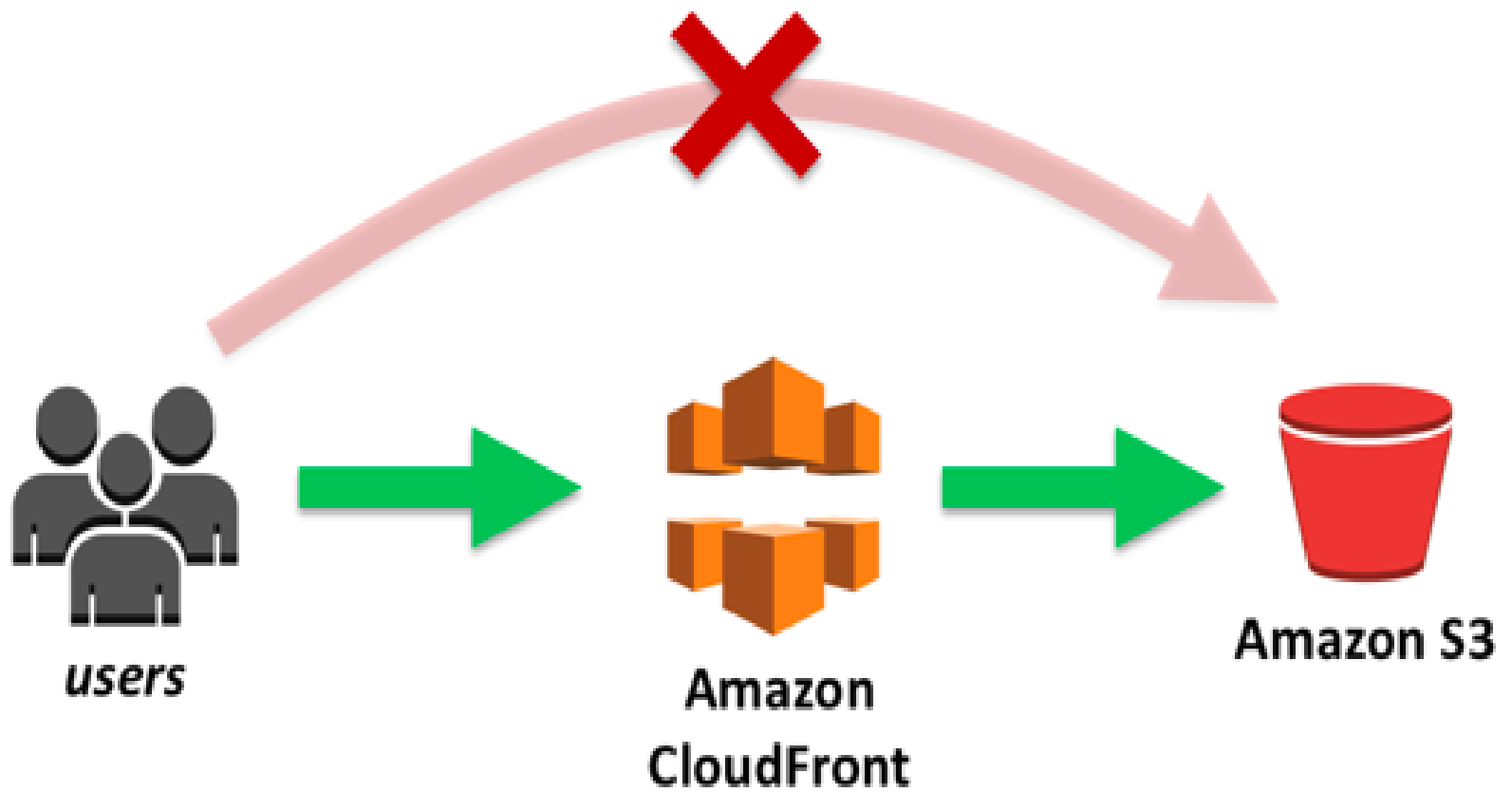
Region -Asia Pacific Mumbai(ap-south-1)



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.

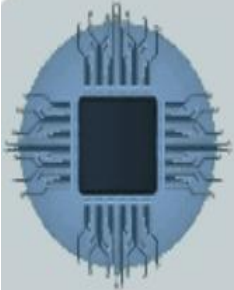
12 month free tier access within some limit



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

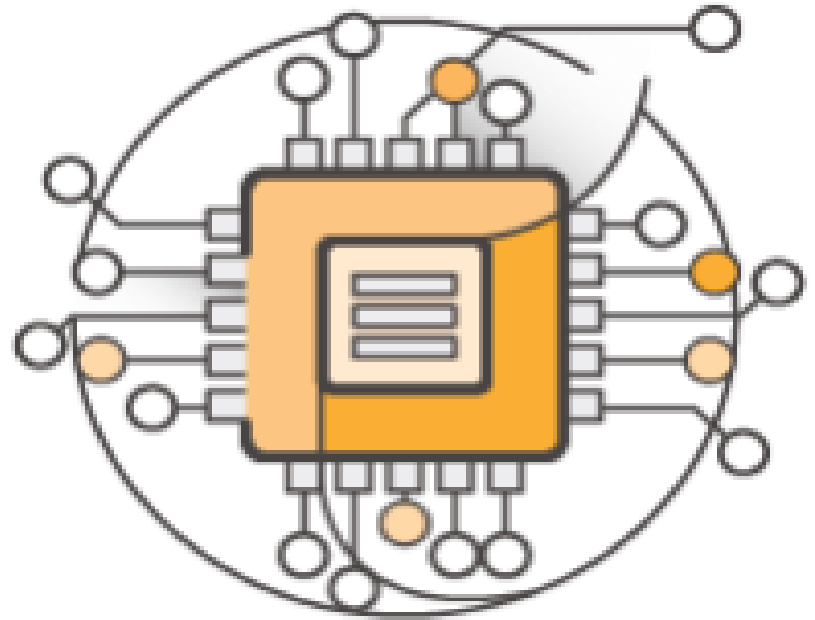
1) EC2

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

2) Lambda

3) Lightsail

4) Elastic Beanstalk



Storage

✓ S3

✓ EFS



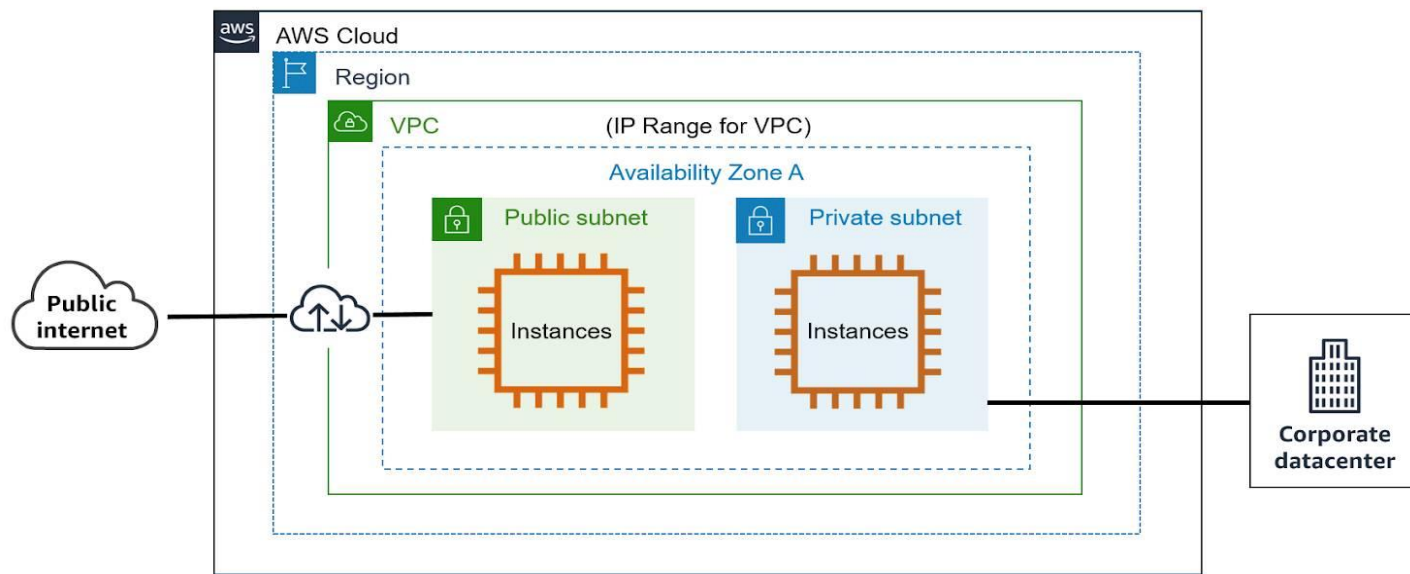
Database

- ✓ RDS
- ✓ Dynamodb



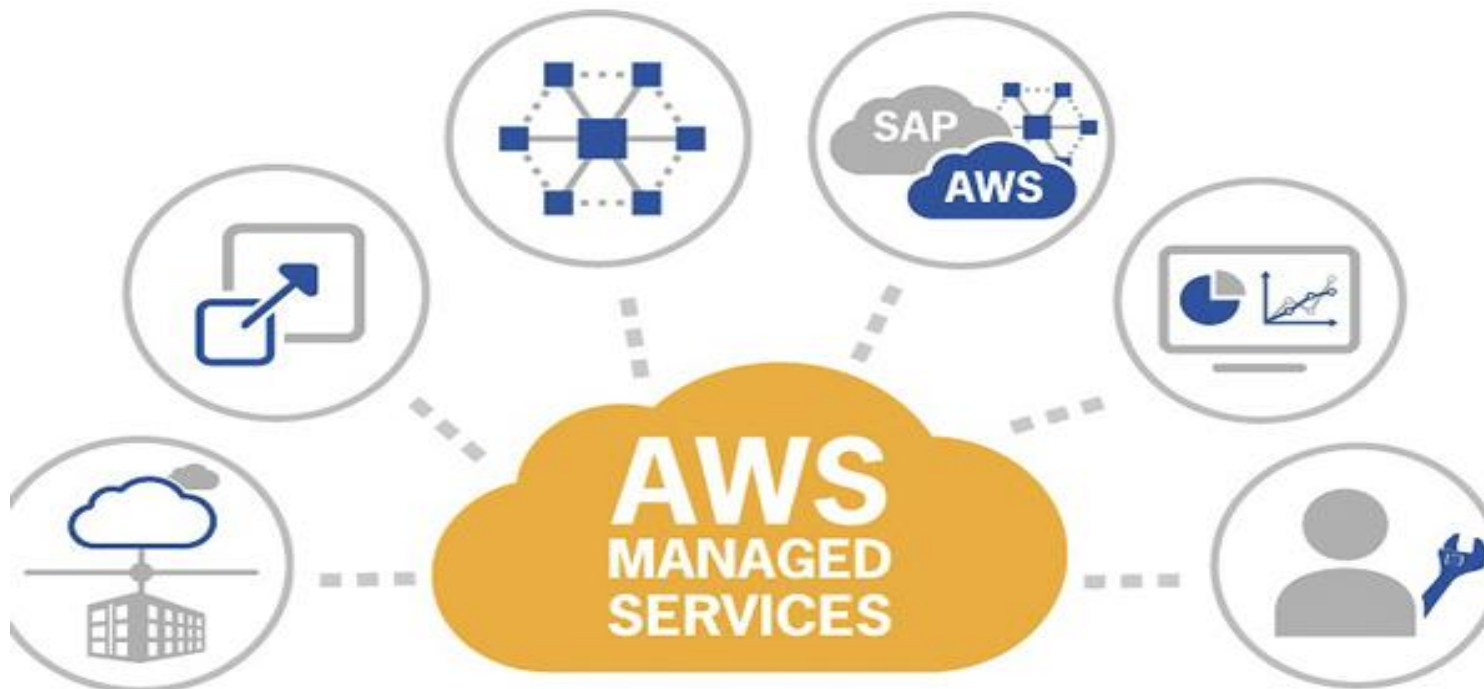
Networking

- ✓ VPC
- ✓ Cloudfront
- ✓ Route53



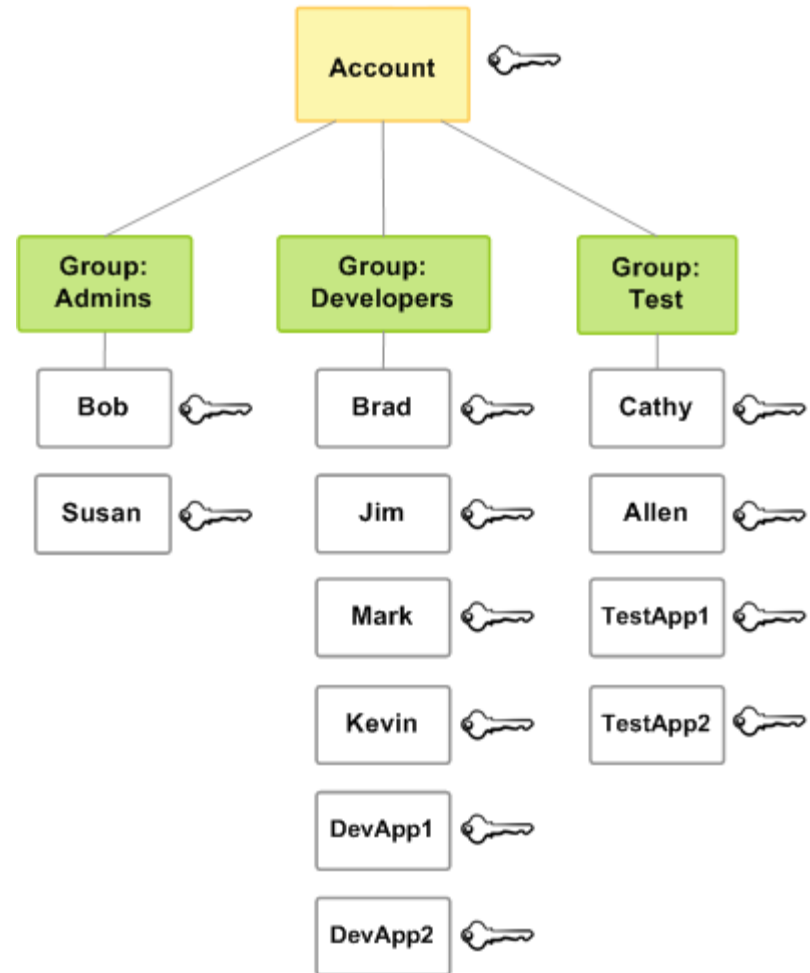
Management

- ✓ Cloudwatch
- ✓ Cloudformation



Security

✓ IAM



Application Integration

✓ SNS

✓ SQS

