

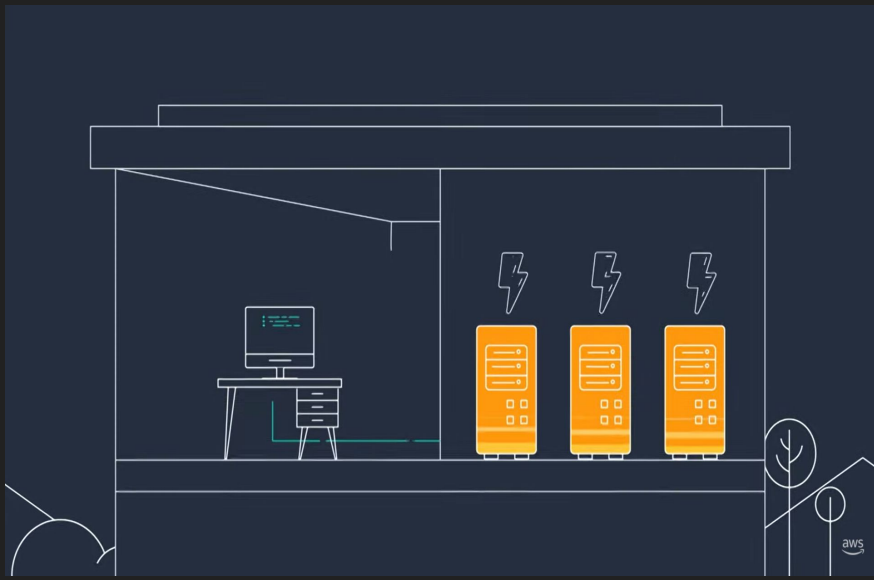


amazon
web services



WHAT IS A “CLOUD” IN IT?

HOW CAN YOU DEFINE “CLOUD” ?



What is the cloud?

In the simplest terms, cloud computing means storing and accessing data and programs over the internet instead of your computer's hard drive.

Top cloud providers



Cloud Terminology

cloud services

Cloud Service Providers

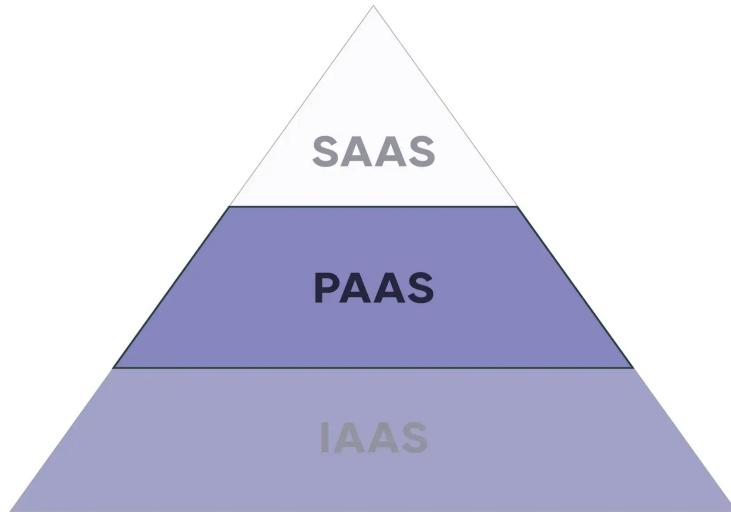
Client vs Consumer

Pay-as-you-use

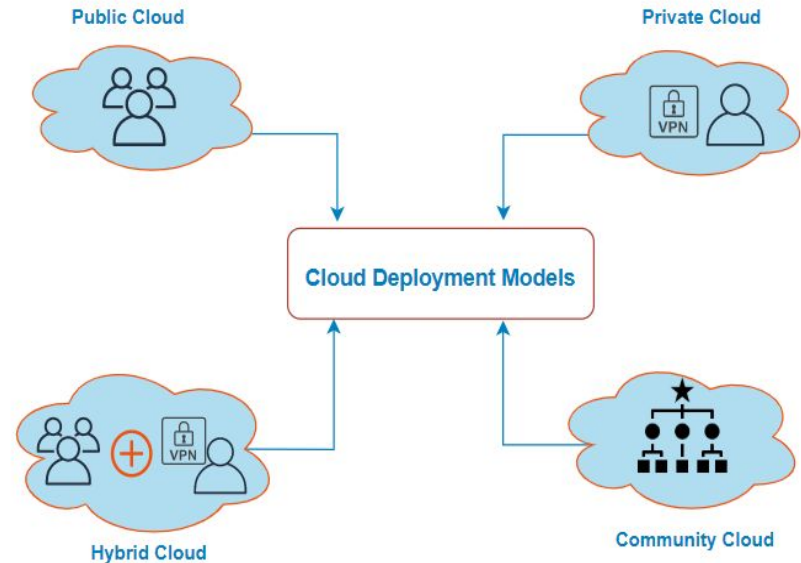
“X” as a service

CLOUD COMPUTING MODELS

Cloud computing services models



cloud computing deployment models





CLOUD COMPUTING

SERVICE MODEL

DEPLOYMENT MODEL

SAAS

PAAS

IAAS

PRIVATE
CLOUD

PUBLIC
CLOUD

HYBRID
CLOUD

COMMUNITY
CLOUD

Cloud computing services models

IaaS vs PaaS vs SaaS

Infrastructure as a service

A service model in cloud computing that provides virtualized computing resources over the internet

Provides access to resources such as virtual machines, virtual storage etc.

Server storage
network OS &
Middleware packaged
software

Used by network
architects

Platform as a service

A cloud computing model that delivers tools necessary for application development over the internet

Provides runtime environments, development & deployment tools for applications

Server storage
network OS &
Middleware

Used by developers

Software as a service

A service model in cloud computing that hosts software and makes them available for clients over the internet

Provides software as services to the end users

Server storage
network

Used by end users

Examples of SaaS, PaaS, and IaaS

SaaS examples: BigCommerce, Google Apps, Salesforce, Dropbox, MailChimp, ZenDesk, DocuSign, Slack, Hubspot.

PaaS examples: AWS Elastic Beanstalk, Heroku, Windows Azure (mostly used as PaaS), Force.com, OpenShift, Apache Stratos, Magento Commerce Cloud.

IaaS examples: AWS EC2, Rackspace, Google Compute Engine (GCE), Digital Ocean, Magento 1 Enterprise Edition*.

[MORE ABOUT CLOUD SERVICES](#)

cloud computing deployment models



Operated solely
for a single
organization

Maybe on
premise or off
premise

DATA CENTERS



Shared by several
entities that have
a common
purpose.

Maybe on
premise or off
premise

$C1 \Leftrightarrow C2$



Available to the
general public
and owned by a
single
organization
selling cloud
services.

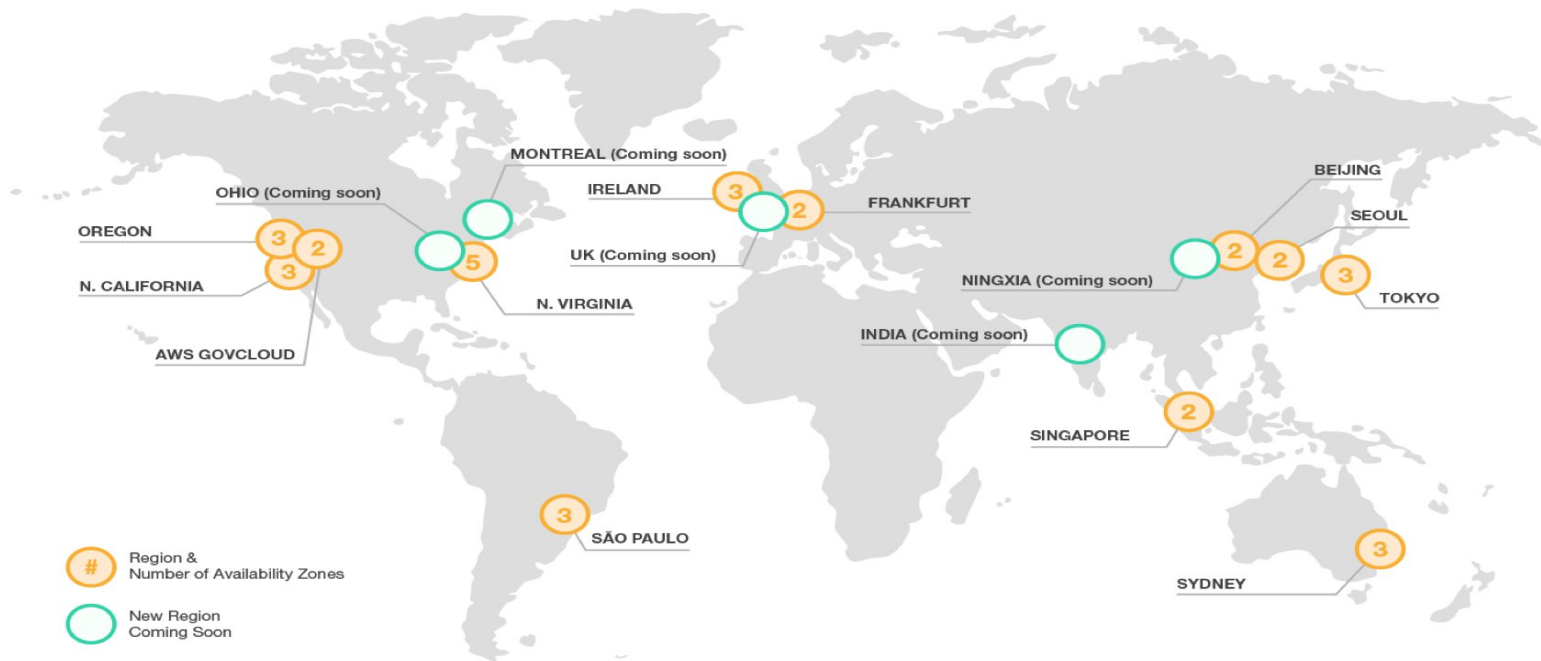
AWS



Any combination
of two or more
private /
community or
public clouds.

REGIONS AND AVAILABILITY ZONES

Global Infrastructure



[AWS GLOBAL INFRASTRUCTURE](#)

SOME OF THE AMAZON WEB SERVICES

1. **Amazon EC2** (Elastic Compute Cloud)

2. **Amazon S3** (Simple Storage Service)

3. **Amazon EBS** (Elastic Block Store)

4. **Amazon IAM** (Identity and Access Management)

5. **Amazon Route53**

[FEW MORE SERVICES](#)

EC2 - ELASTIC COMPUTE CLOUD

Amazon Elastic Compute Cloud (Amazon EC2) is a web-based service that allows businesses to run application programs in the Amazon Web Services (AWS) public cloud. Amazon EC2 allows a developer to spin up virtual machines (VMs), which provide compute capacity for IT projects and cloud workloads that run with global AWS data centers.

Instances An EC2 instance is used to run applications on the Amazon Web Services infrastructure.

Amazon EC2 Instance Types

1 General Purpose

2 Compute Optimized

3 Memory Optimized

4 Accelerated Computing

5 Storage Optimized

<https://aws.amazon.com/ec2/instance-types/>

LETS CREATE AN EC2 INSTANCE