

# AWS Cloud practitioner notes

## Introduction

0. Cloud computing :- On-demand delivery of IT resources over the Internet with pay-as-you-go pricing.

0. AWS (Public cloud provider)

- Own & maintain data centers
- Provide virtual data center technologies & services to companies & users over the internet.

0. Running workloads on premises versus in the cloud

In an on-premises solution :-

additional environment requires you to buy & install hardware, connect the necessary cabling, Provision Power



install Operating Systems & move.

which is time consuming & expensive.

If application is running in your cloud  
instead of physically installing hardware  
& connecting cabling, solution is managed  
over the internet

Cloud computing saves time during  
Setup and removes undifferentiated  
heavy lifting

Ans provide cloud computing  
Services

Advantages of cloud computing

1. Pay-as-you go pricing

Only pay on computing resources  
you are using.



## 2. Benefit from massive Economies of Scale

Achieve a lower cost than you can get on your own.

## 3. Stop guessing capacity

you can scale up & down when ever you are required.

## 4. Increase Speed and agility

Reduce the time to make resources available to the developers from weeks to minutes.

## 5. Realize Cost Savings

focus on projects instead of maintaining data centers.



6. Go global in minutes.

Applications can be deployed in multiple regions around the world with a few clicks.

Lower latency

AWS global infrastructure.

Physical infrastructure makes up the AWS Global Infrastructure in the form of Regions & Availability Zones.

Regions

Geographic locations where AWS hosts its data centers.

Regions: Asia Pacific, Canada, Europe, Middle East & South America.



AWS Region is associated with a geographical name & Region code

[US East (N. Virginia) us-east-1]

Choose the Right AWS Region

1. Latency :-

If application sensitive to latency (Delay between a request for data & the response) : Choose region close to your user base.

2. Pricing

AWS charges based on financial factors specific to each Region.

3. Service availability

AWS documentation provides a table that shows the services available in each region.



#### 4. Data Compliance

Choose Region that meets your Compliance Requirements.

#### Availability zones

Inside Region - cluster of AZ.

AZ consist of one or more data centers.