

see only  
pdfs from whatsapp

# Day 1 AWS trainings. (siddhant sharma) (sikkim)

+alt + R → recording

|           |  |
|-----------|--|
| Page No.: |  |
| Date:     |  |

team chats IT

Videos (mobile laptop)

Whatsapp (pdf)

wp shubham photos

wp pdf manuals

11 to 12:30 → study

12:30 to 12:40 → Break

4 to 4:30 → Break

5:40 to 6 → Break

6 to 7:15 → hands on, test, assign, small task

Myself Meghana Patil. I am from Satara, Maharashtra, I have completed my Masters of science in Applied stats & Informatics with distinction from Shivaji Uni Kolhapur. I have joined principal in July 2022. I am interested in data science.

login → management console

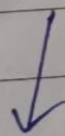
(CLI) Command line or programme access  
cloud development kit

3  
ways  
Consoles

\* Amazon Simple Notification Service (SNS)

AWS → product of Amazon

Google → AWS certification list → click on any picture



(AWS Solutions Architect → management console  
AWS Developer → CLI)

DevOps is automated version of SDLC (Software development life cycle)

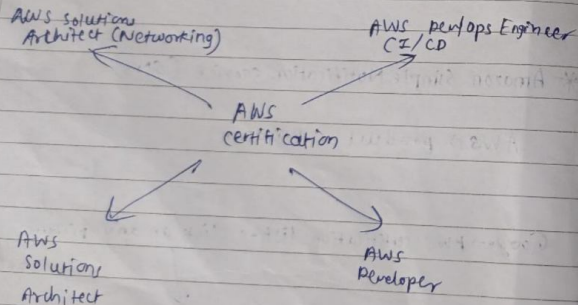
CI/CD continuous integration & continuous development deployment

CI/CD is heart of AWS DevOps Engineer

Networking → AWS Solutions Architect

3389 is port used for Remote Desktop Protocol (RDP)

\* Syllabus to be covered:



\* Cloud service providers: Google: GCP, Amazon: AWS, Microsoft: Azure

Azure is child of Microsoft

\* AWS management console

↓  
Virginia d2 click b2d

↓  
Asia Pacific (Mumbai)

↑  
Region

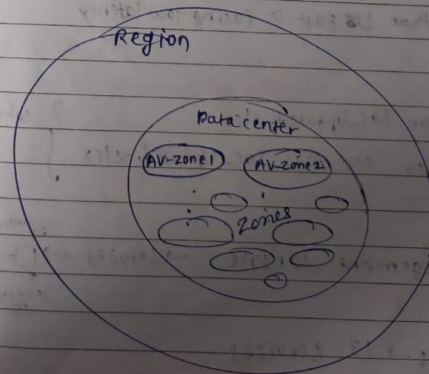
↑  
Data center

\* Video d2 d2 important points: Project Natick

Cloud is under the water?

no. of people  
n can deploy same data center

Data center takes the responsibility of n people's deployment





When Flipkart sale → inbound traffic

Source: WWW

Destn: Data center

Inbound traffic is load on data center.

There is need of load balance

\* Flipkart item migration are from Delhi & Dubai

time taken from source to destination

Latency: low

Distance matters.

\* AWS speed test → AWS latency test

AWS Speed Test.com

Africa → Region 312

Capetown is Data center

See that US East is facing low latency

\* See Python-TOC-Updated.xlsx

& also see AWS-TOC-Updated.xlsx

} whatsapp

\* AWS management console → Services

eg. S3, EC2, Ground station  
services are

for Analytics → 13 services

we are going to study services related to

- AWS solution Arch

- AWS devops

- AWS machine learning

- AWS networking

\* localhost: 8080 xampp server → local server

Computer → network (www) → 24x7 online

eg. windows server, linux server

Dedicated Hosting: entire server

Shared hosting: shared folder path

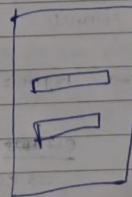
Harddisk two types → HDD/SSD

EFS/EBS

\* Computer

• local server → HDD/SSD

• Cloud server → EFS/EBS



## \* AWS terminologies

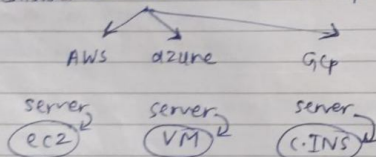
elastic file storage  
elastic block storage  
elastic bean stalk  
elastic Kubernetes service  
elastic compute cloud

scale up → increasing ram  
scale down → decrease ram

scale up: traffic spike → increase system configuration  
scale down: traffic down → decrease

Home-work  
Scale vertical?  
Scale horizontal?

consider we have 3 cloud service providers



credentials from terraform

## lab 1 Create a window server instance

management console → region = us-east-1 ✓  
↓  
ec2 click करें  
⇒ ec2 dashboard opens

Then click on instances.

If any instance is running then terminate it → from instance state

create a new instance → launch instance  
note: t2.micro & t3.micro are virtual computers. Here difference is server name.

enter key name: → create key pair enter name: perm ✓

network settings → open the downloaded profile to see RSP private key

Instance create → edit → subnetwork (no private IP) → enable → after creating instance ✓  
Imp Default storage in EC2 is EBS

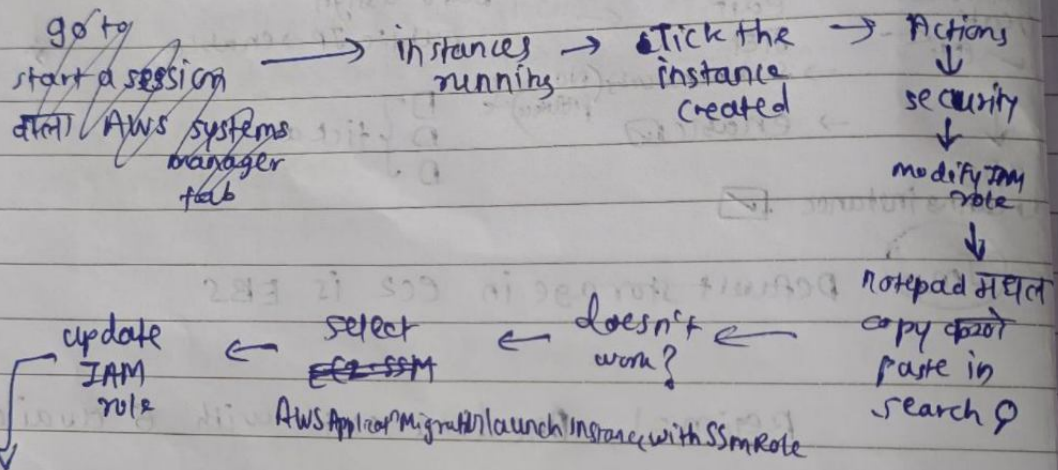
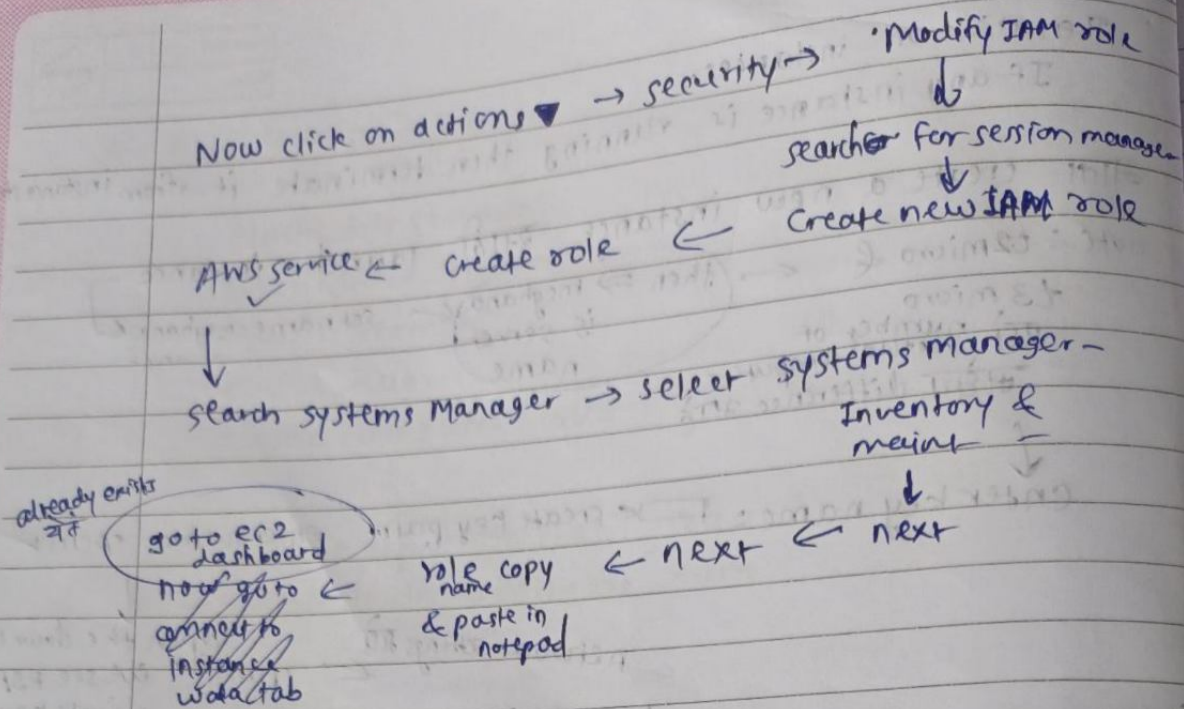
Region = 1, One data center with 6 availability zones

Imp The availability zones in data center will be distinguished via the concepts of subnets.  
Each of the subnets falls under the same VPC (virtual private cloud)

Now, instance is created. Tick that. Click on connect

features → search → session manager → duplicate tab → कौसी chrome की tab ओर लीला right click  
session manager select करें  
Start session → now → instances → instance click करें  
यहाँ click करें





then start a session से instance खोलो → click it → start a session (5 min की)

now type:

Install - Windows Feature - name space Web-Server space - Include M

management Tools

यहाँ पर

go to instances in another tab. tick the instance created

Copy public IPv4 address

paste in new tab:

http:// [paste]

this new tab will be named as WS Windows server



Now go to the tab that contains

EC2 > Instances > id036... > Connect to instance

Go to RDP client section

Connect using RDP client

Get password

keyname.pem

File file  
downloaded file

← browse

This PC

instance create karta hai  
open address or  
click on open file gets  
downloaded  
open file  
select karta

Decrypt password

Now go to RDP section of scroll & copy administrator

user name gets copied

paste in notepad

also copy password & paste in notepad

now click on download remote desktop file

so, instance\_name.rdp file is downloaded

click on open file → click on connect

ok

(sit) → login & password

RDP open

(Remote desktop)

see server icon type

for RDP use personal laptop

VDI सारणी को प्रकट कर desktop → RDP ✓

Go to server Manager.

↓  
☒ ✓

OK ✓

click on Add roles & features

↓  
next

next  
next

☒ files & storage ☒ IAS server IP } next

next

next

next

Now This PC → local disk C → <sup>EPI</sup> ~~APP~~ extra folder appears

RDP is getting installed.

This PC → drive → inetpub folder

This was all about server manager

But Principal Global does not recommend

server manager. It recommends system (session)  
manager

we can download python in RDP.



<sup>Lab</sup>  
Theory → EC2 created

Task #1: create a ec2, and run a website

website uses 2 protocols → http(443), https(80)

RDP → protocol used for connecting to ec2  
(3389)  
↑  
portnumber

Task2: Create ec2 & write hello world in python ← see page ✓

According to the task we will be defining protocols used for it

Task #2:

- Delete old instance
- Create a Ubuntu EC2 - instance (18.04 LTS)  
T2.small with 10gb of EBS, install  
APACHE2 webserver & show me the new ~~is~~  
index.html file

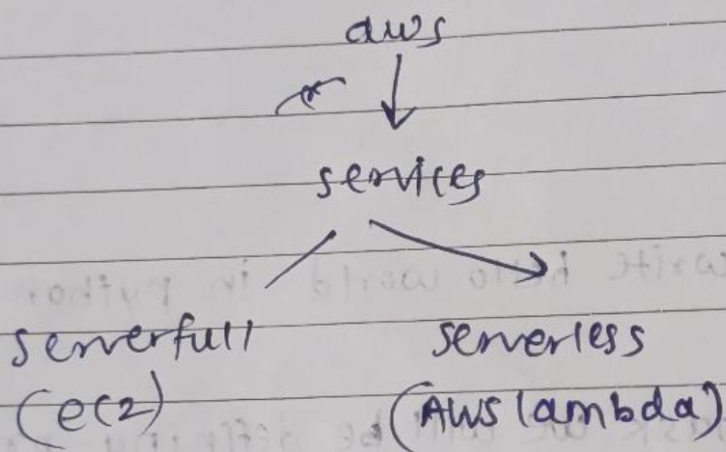


• serverless components:

how ec2 is charging us?

\$ per hour

ec2 is server



Day 1 completed