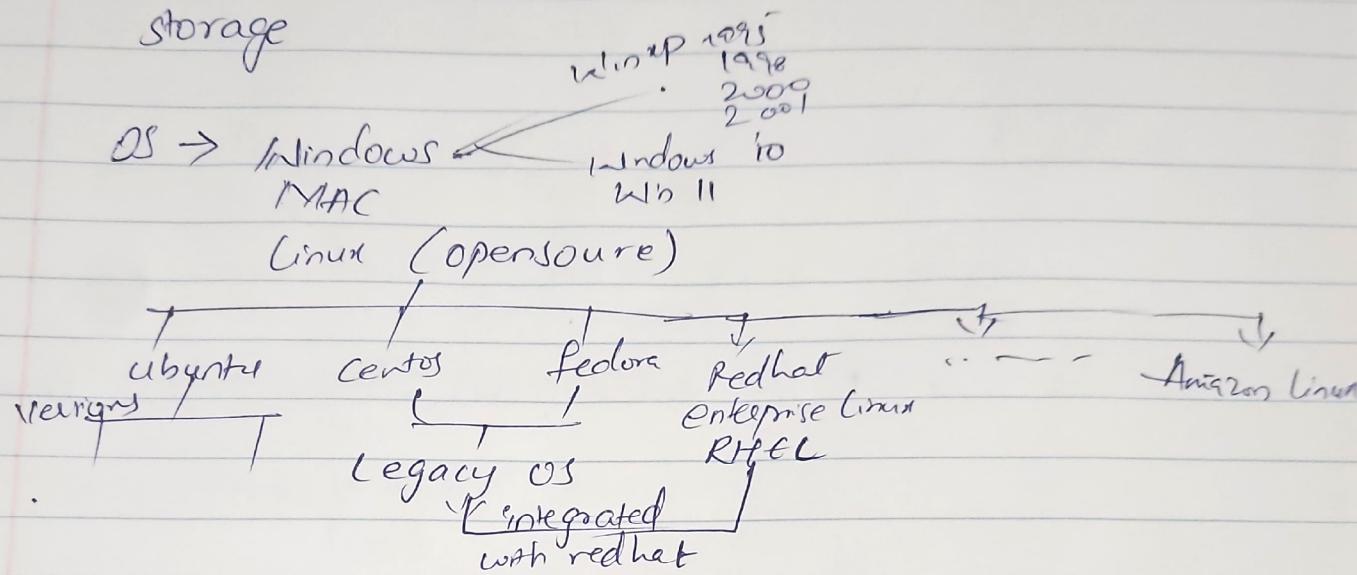


for cost estimate ask

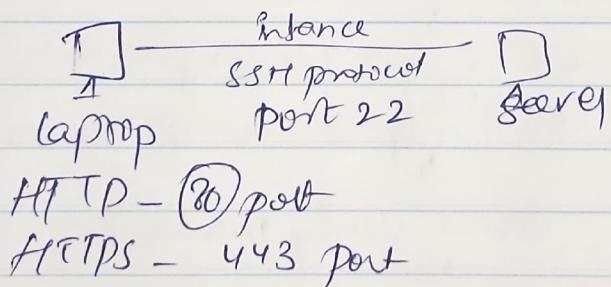
Core
RAM

Storage



in production ⇒ 1st preference → REDHAT Enterprise Lin.
↳ RHEL

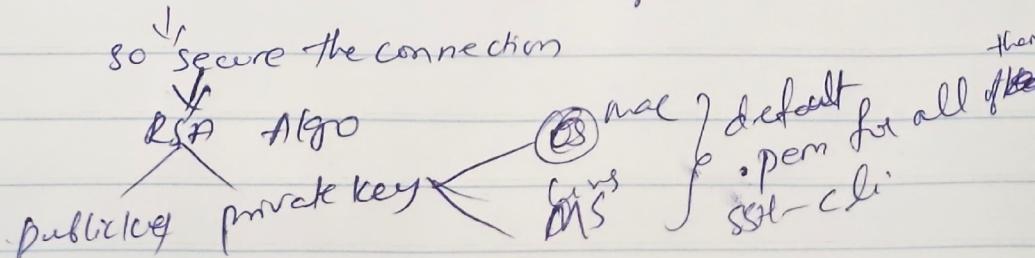
bcoz it has more support mechanisms



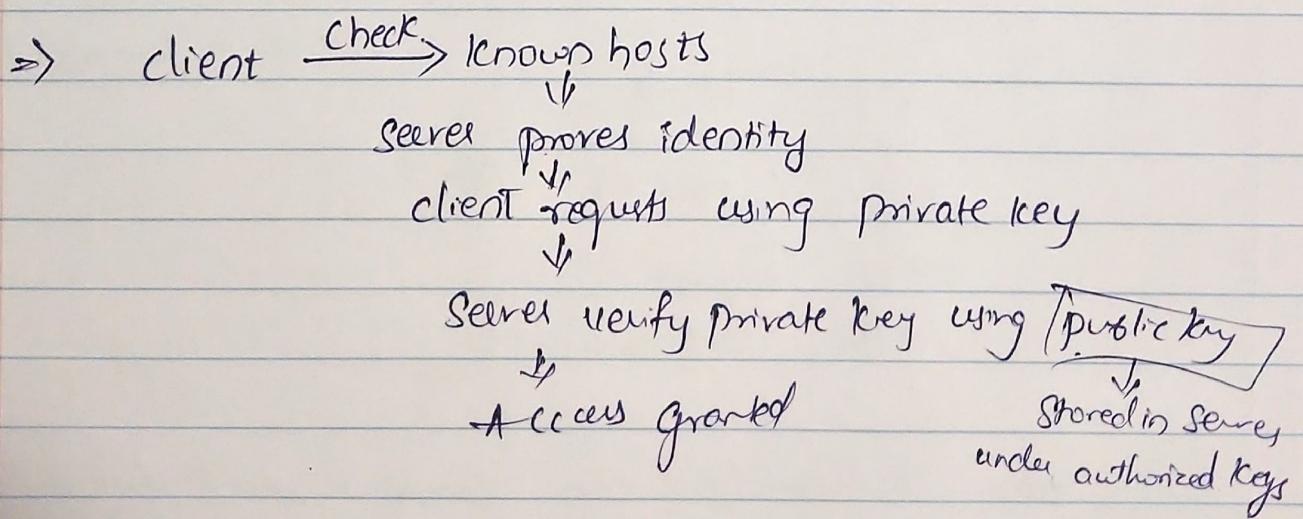
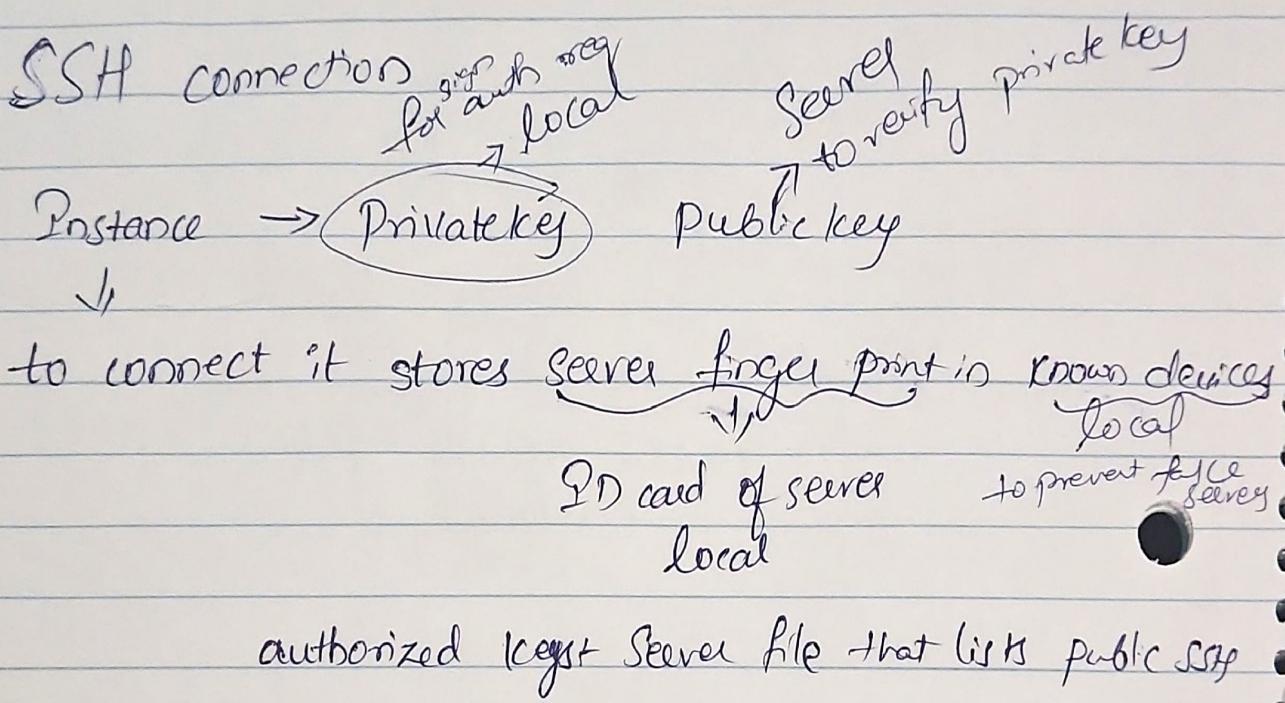
HTTP - 80 port

HTTPS - 443 port

using SSH port we can connect to other system/service



SSH \Rightarrow Known hosts
stores info of all the IP I visited
(it stores public IP of EC2 also)



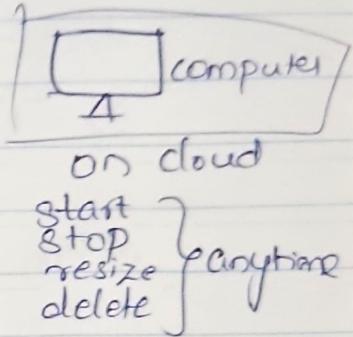
In powershell

ssh --version

ssh -i path\mykey.pem ec2-user@publickey, , yes
exit

EC2: Infrastructure as a Service IaaS

EC2 is a service that provides virtual servers (instances) on demand



Why EC2 needed? \Rightarrow no need of physical servers

costly, slow setup, fixed capacity
 \Rightarrow pay as we launch in minutes scale up/down

Instance \Rightarrow virtual machine running in AWS

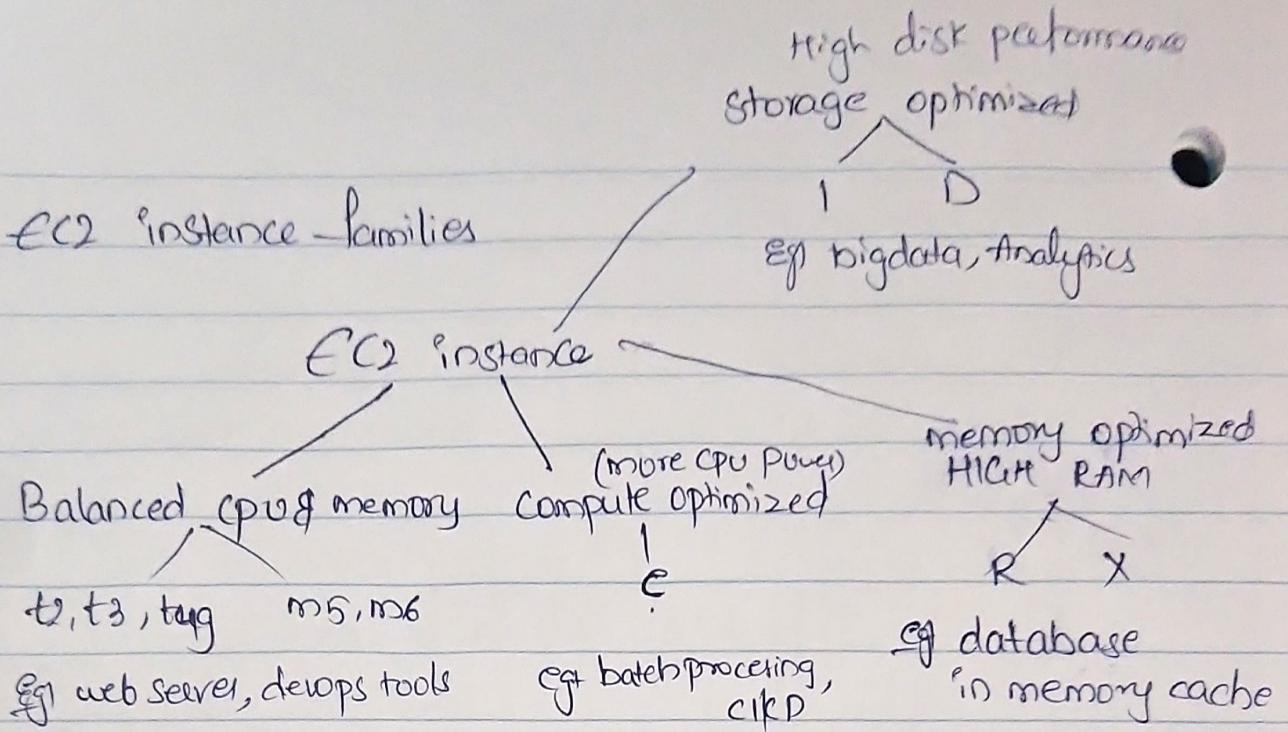
AMI: Amazon Machine Image

template to create EC2 has OS preinstalled s/w

AMI = OS + base configuration

Instance Type! CPU, RAM, NI/w, Storage

Eg! t3.micro \rightarrow 1cpu, 1GB ram



- * CPU & memory balanced

t1, m

- * More CPU power

c

- * Memory optimized → high RAM

R X

- * Storage optimized

i d

t2, t3 - FREE TIER

LAUNCH

Name

Name

AMI

Instance

Key Pair

Net Settings

Reason

identification, cost tracking

AmazonLinux (preferred), Ubuntu, Windows

learning → t3.micro } based on app load

production → m5.large } budget

to login securely

public → stored on server (instance)

private → stored locally

VPC → has subnet, route table, internet gateway

Subnet → division of VPC

Public → internet

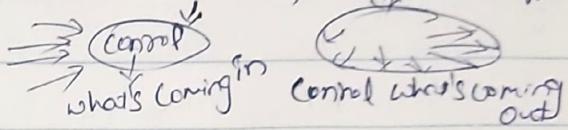
Private → no internet

If you deploy app → allow HTTPS
HTTP
to allow all IP → 0.0.0.0

autoassign public IP: enable
gives public IP → internet access

Firewall & Security group

control inbound & outbound traffic



SSH 22 → my IP | HTTP 80 → Anywhere

Storage

EBS: Elastic block storage

types: gp2 / gp3

iops (high iops)
1100 per second

instance store → data lost when instance stops

• min 8/10 GiB

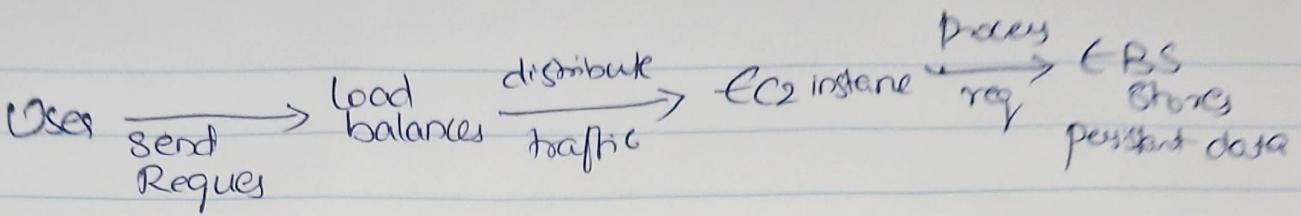
LAUNCH

STAGES : Pending

Running

Stopped → data retained

Terminated → data deleted



New Architecture

VPC → public subnet (Public IP)
 → private subnet (No public IP)

Network

EC2 → IP
 → subnet
 default → security rules

AWS sets the needed rules to access EC2 by default

