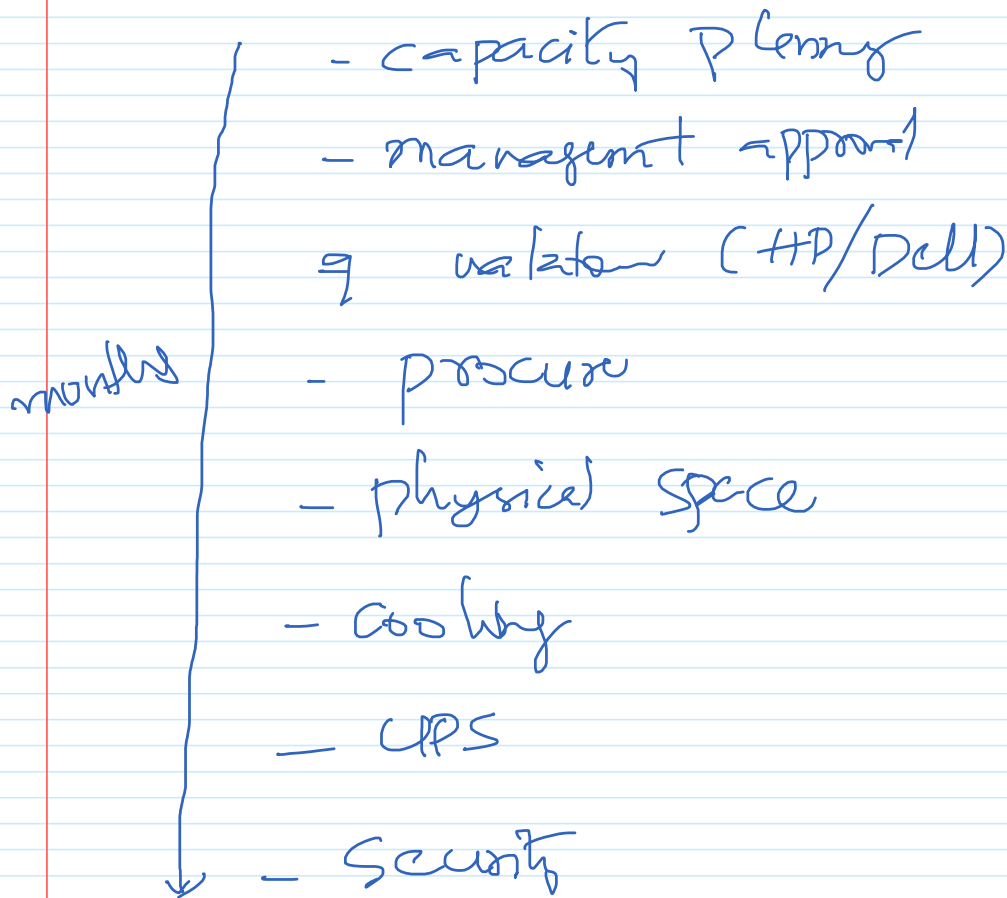


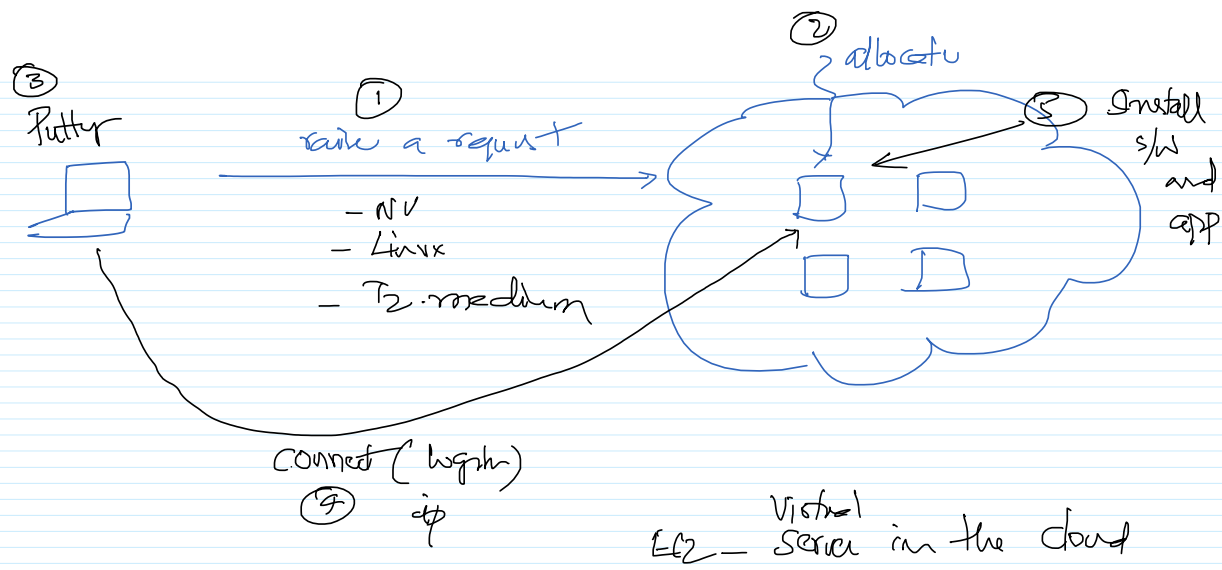
EC2 - Elastic Compute Cloud (virtual server in cloud)  
S3 - Simple Storage Service  
(Dropbox / Google Drive)

# ~~Setup~~ → website

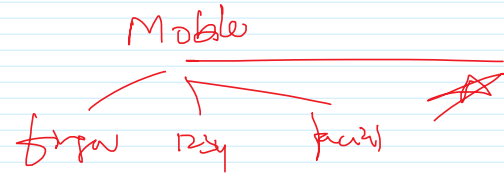
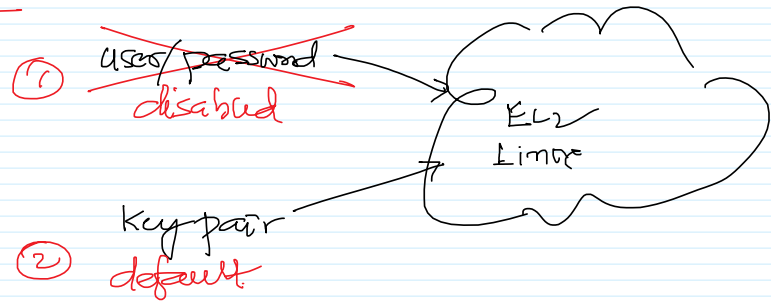
06 November 2020 10:29



- effort  
- cost

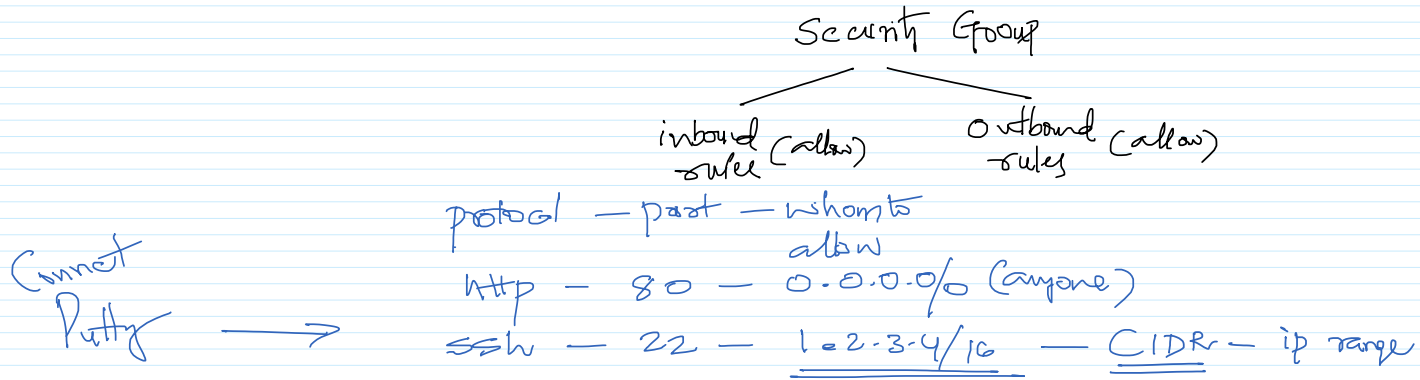
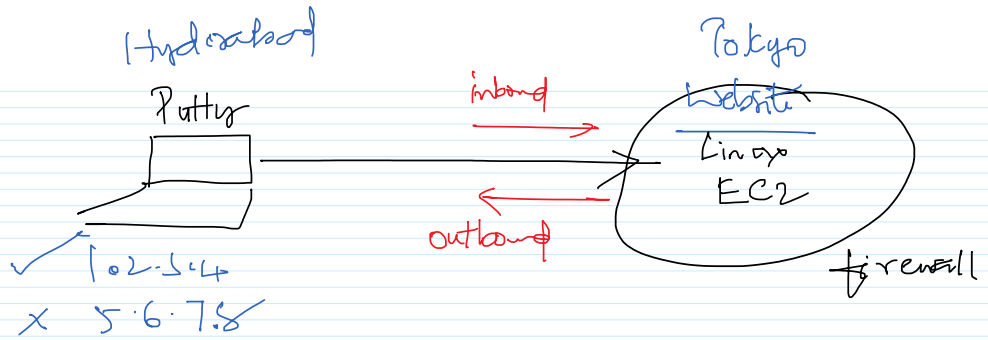


## Authenticate



# Security Groups

06 November 2020 10:37



# Launch Template

06 November 2020

10:56

↳ EC2 details

↳ Ubuntu OS

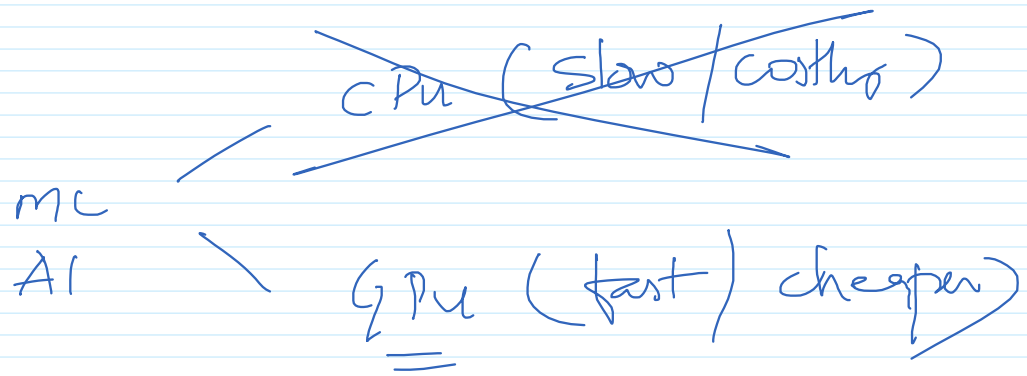
↳ SG

↳ KP

↳ t2.medium

## Steps performed today

- Logged to AWS Console
- Created SG (?)
- Created KP (?)
- Created Launch Template
- Launched EC2 Instance
- Connected to it via Putty.
- deploy a web page





# S3 (Simple Storage Service)

06 November 2020 11:56

- Dropbox
- Google Drive

① Bucket (~ Folder)

name uniform  
across accounts  
globally

~~no  
permission~~

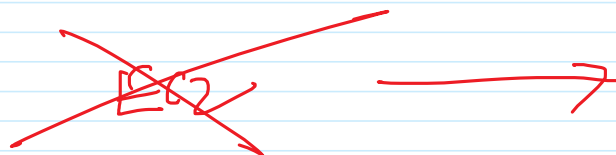
↳ ② Folder & File

↳ Folder & File

↳ folder & File

Cheaper

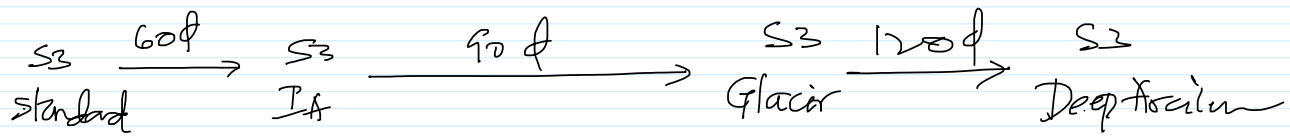




S3 → Serverless

# S3 Life Cycle Management

06 November 2020 12:30



Japan

Bucket  
Ohio  
Source

CRR

Bucket  
NV  
Destination

India Bucket (or folder)  
↳ folder or file

file.txt

~~delete~~

file.txt

- Latency
- dr
- Compliance

disabled enable (1000)

v1 ~~file.txt~~ =

v2 ~~file.txt~~ =

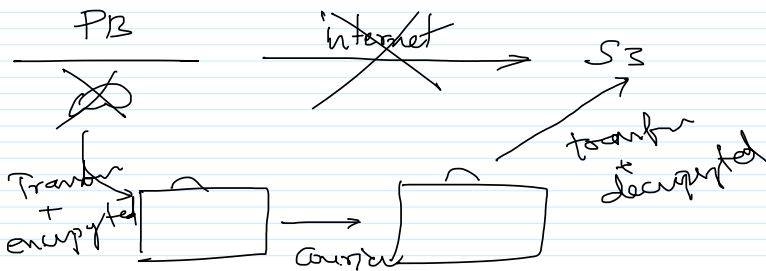
v3 file.txt =

hello-java (v1) me

~~hello-java (v2) you~~

...

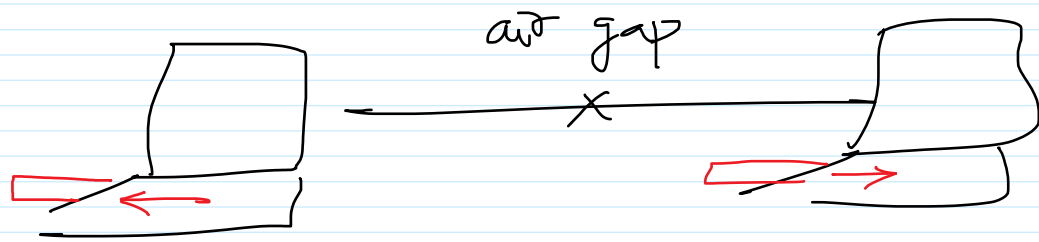
- slow
- costly



PB (1024 x 1024 GB)

- Satellite Image
- Movie Prod.
- DNA

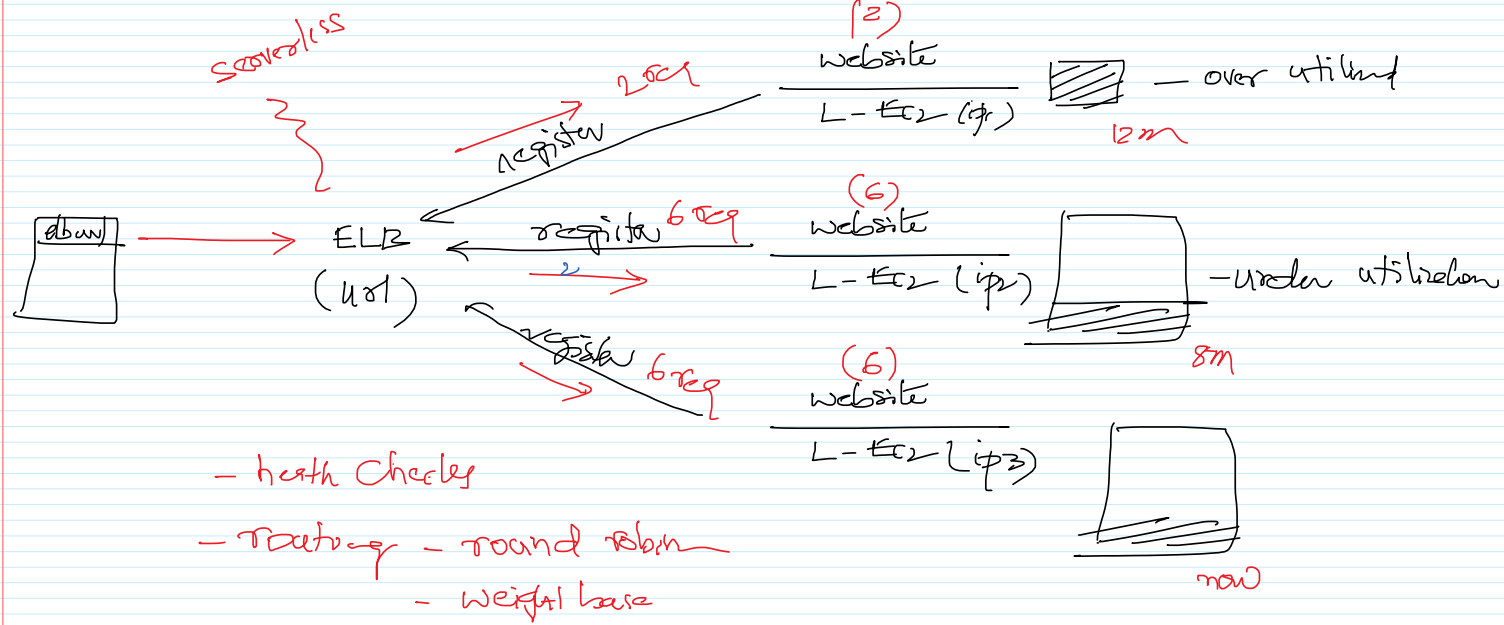
- Snow Cone
- Snow ball
- Snow mobile (10 PB)
  - └ GPS
  - └ power supply
  - └ armed guard





# ELB (Elastic Load Balancing)

(FS)



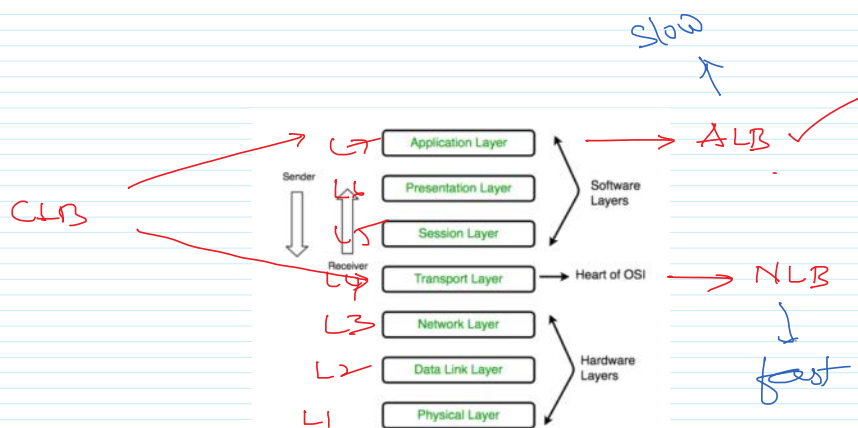
# 3 types of ELB

06 November 2020 13:04

- classic LB (old)

- Network LB
- Application LB

↳ path based routing

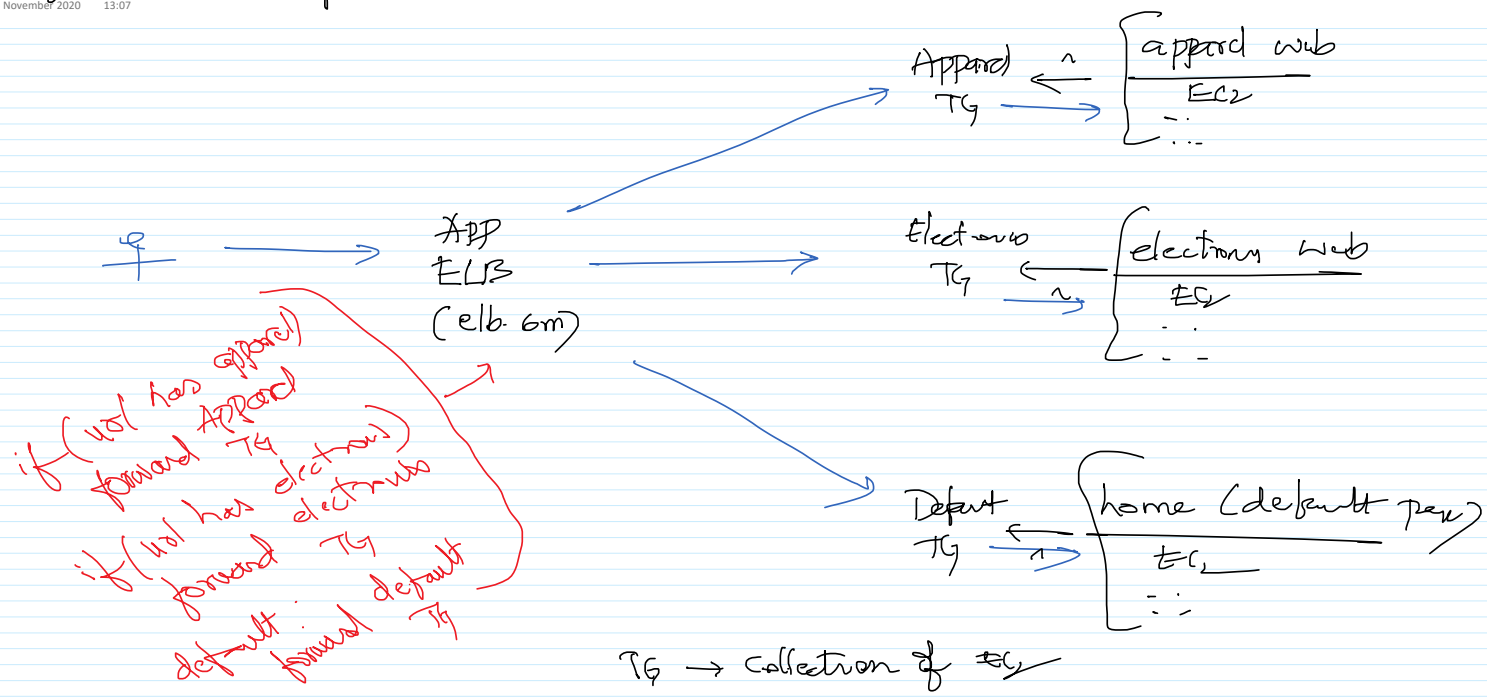


http - L7

path based routing

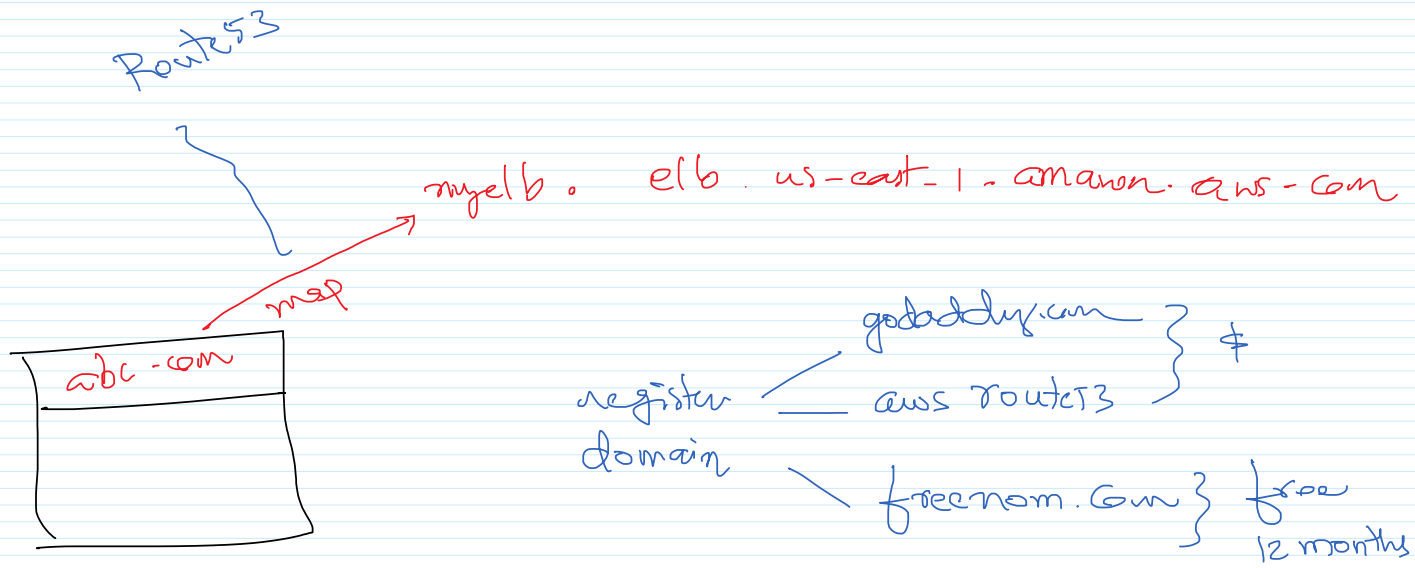
# Path based routing

06 November 2020 13:07



wd. Gm/ele  $\longrightarrow$  TG  $\longrightarrow$  EG (path based routing)

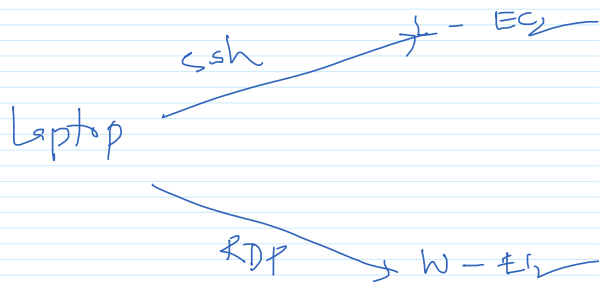
ele. wal. Gm  $\longrightarrow$  TG  $\longrightarrow$  EG (host based routing)



Lab for ELB

✓ — ELB with path based routing

X — Give a friendly name to ELB



- KP
- SG
- LT
- L-EC2
- connect
- Install
- ELB (theory)

5:30 PM + 1 hr (AOS)

SP  
LT  
EP



App TG  $\xleftarrow{\text{sigle}}$  This is app web site  
apache  
EC<sub>1</sub> (APP)

ALB

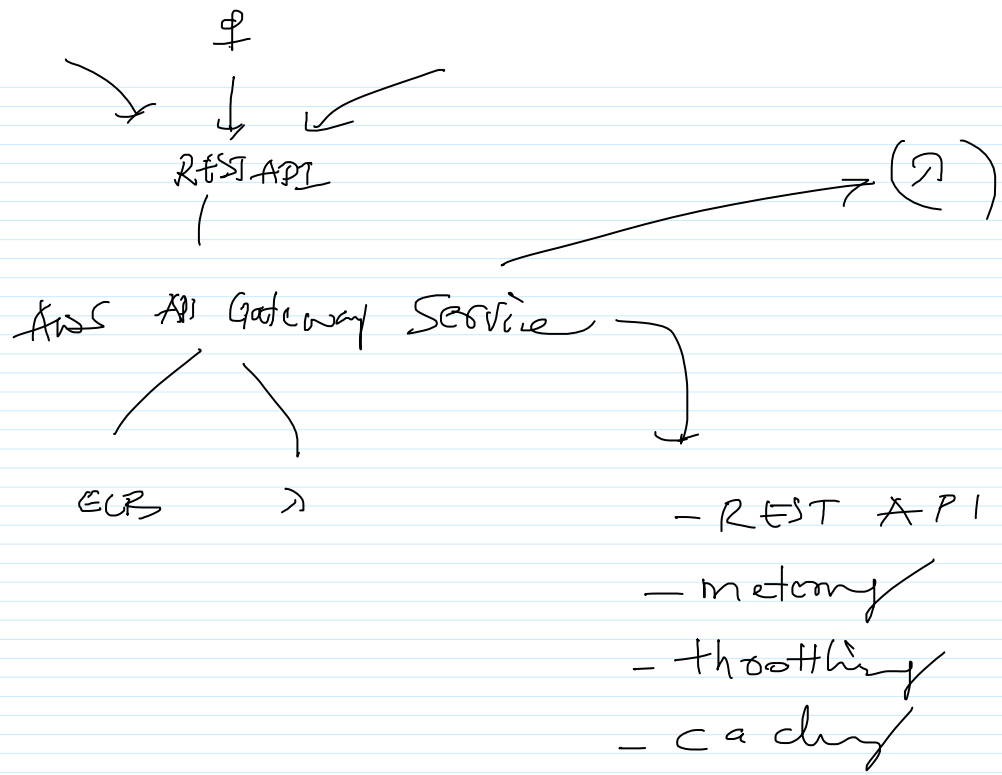
Electa TG  $\xleftarrow{\text{sig}}$  This is elect web site  
apache2  
EC<sub>2</sub> (Elect)

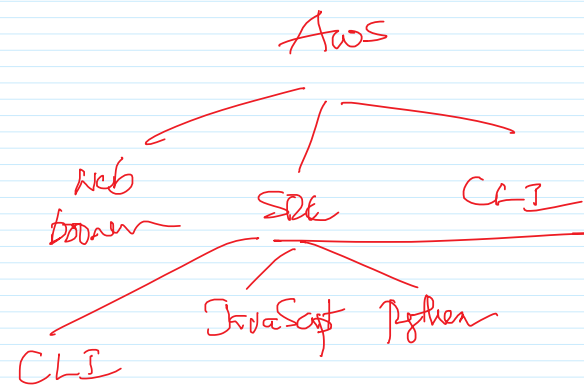
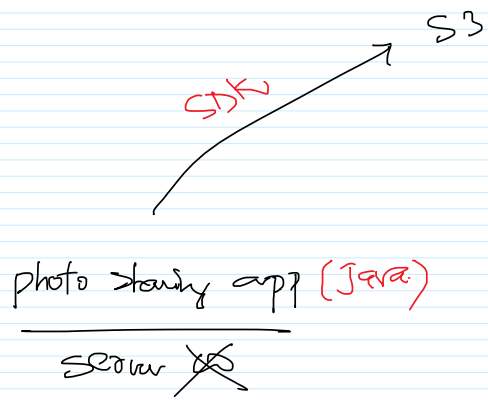
Default TG  $\xleftarrow{+}$  This is default web site  
apache2  
EC<sub>3</sub> (default)

default  
forward Default TG



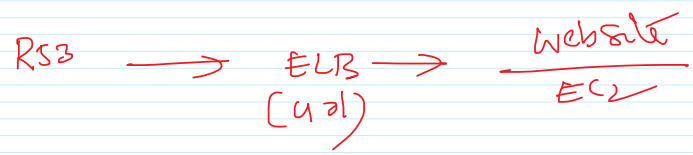
→ { Goddard } } B\$  
Router }  
Prenom }





der-mcafee.com

$\det - x y^2 - 6m$



der-mcafee.com

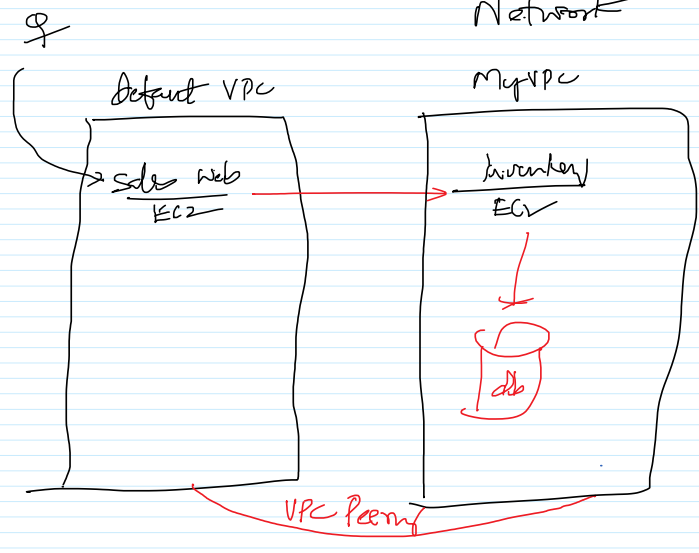
mcafee.com



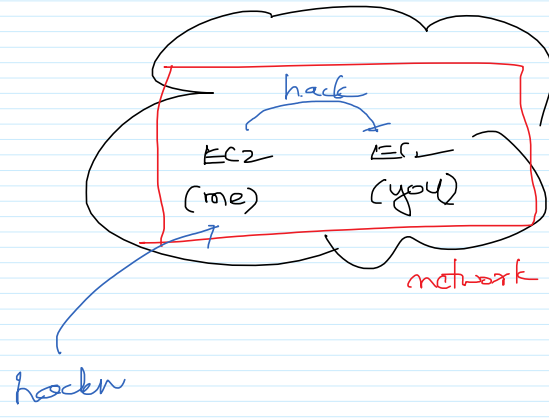
# VPC (Virtual Private Cloud)

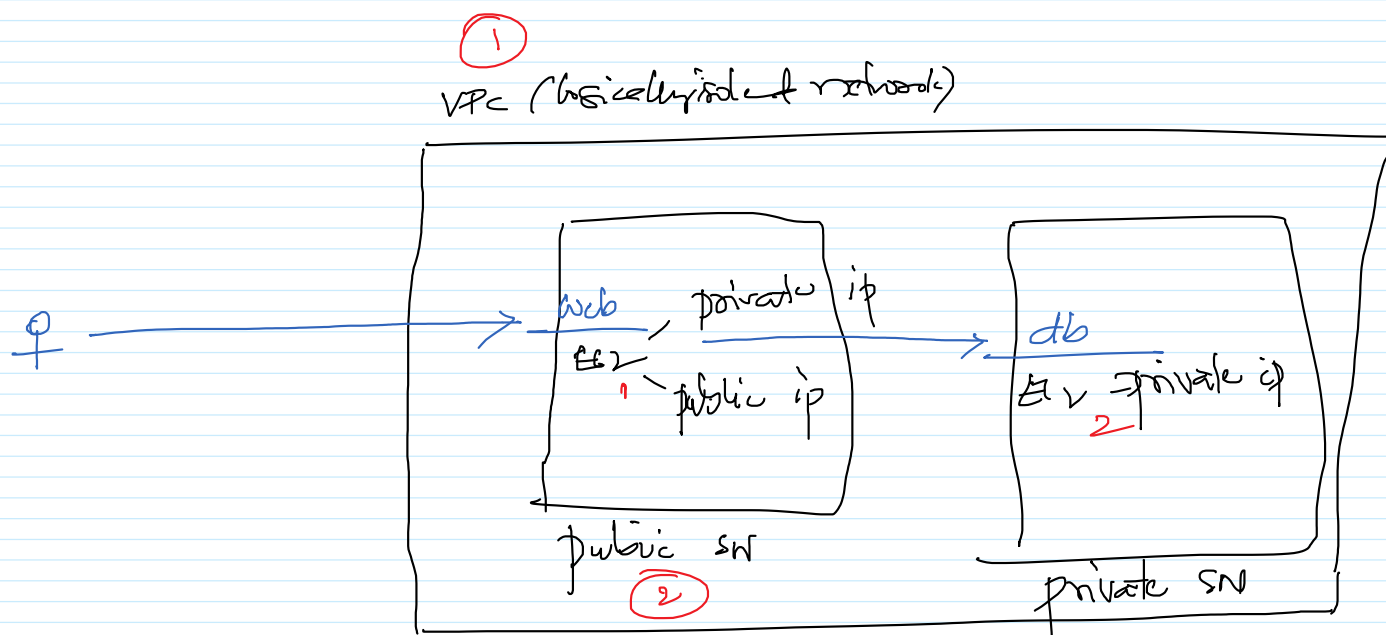
06 November 2020 16:30

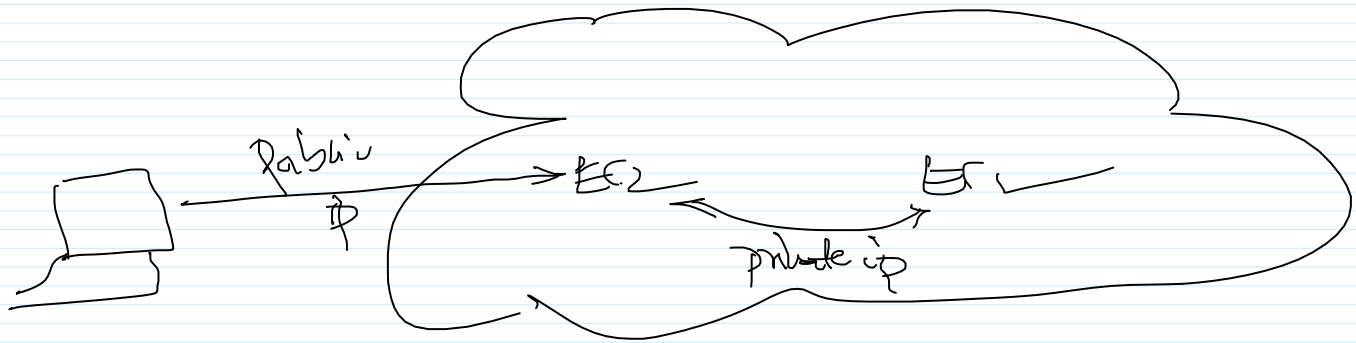
— Logically Isolated Network

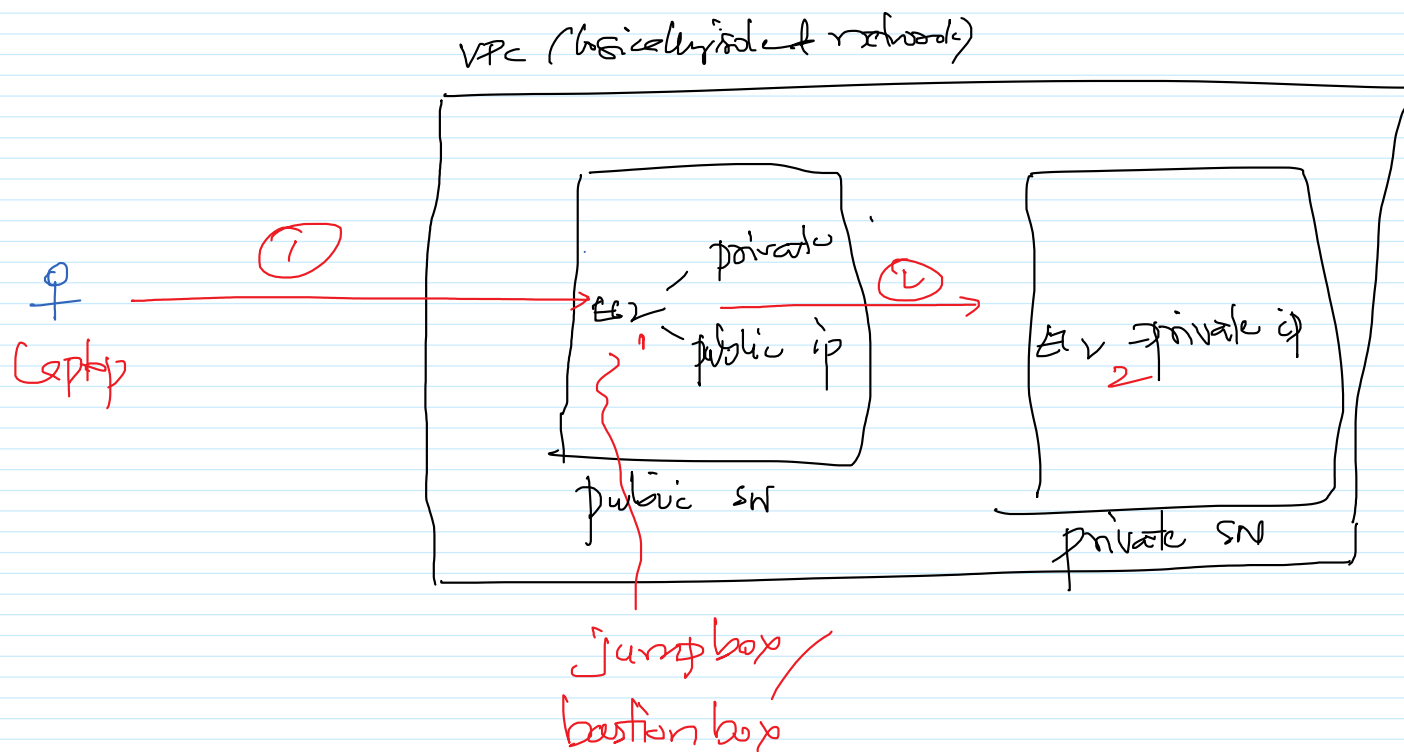


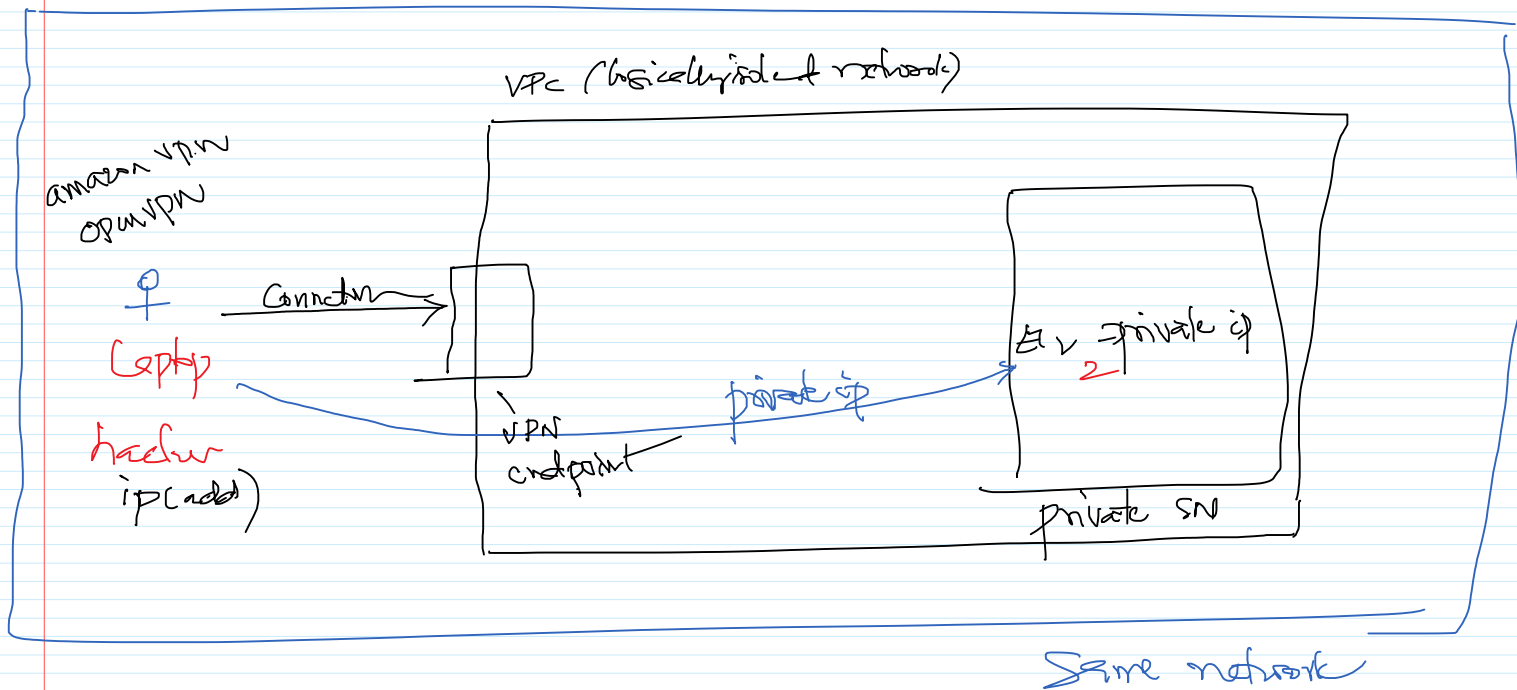
poe-vpc-esa



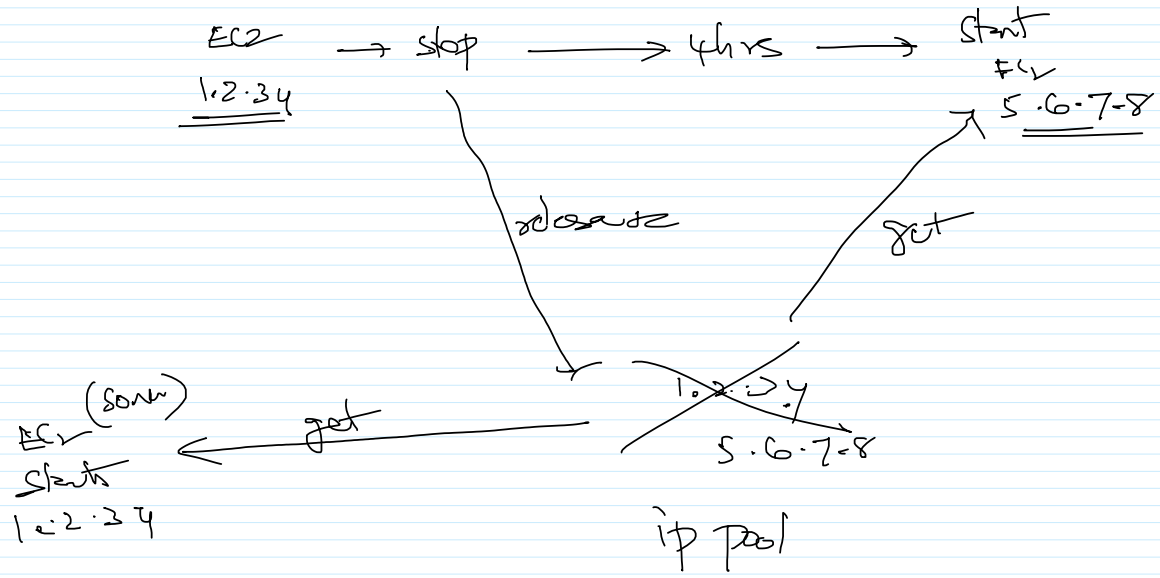


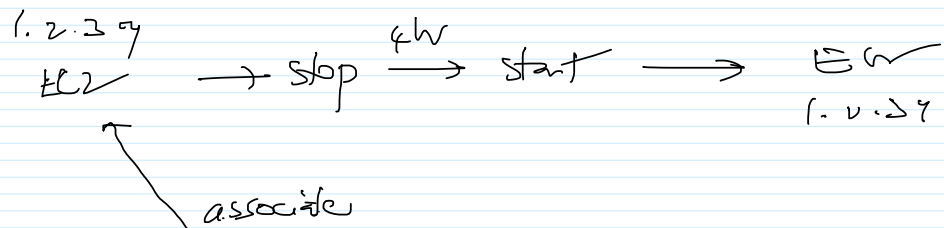




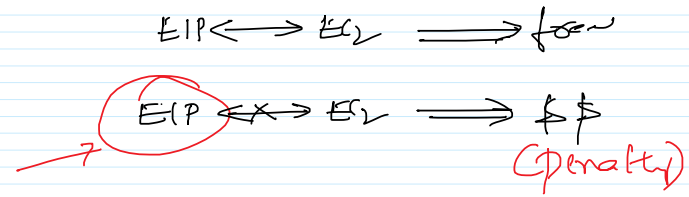


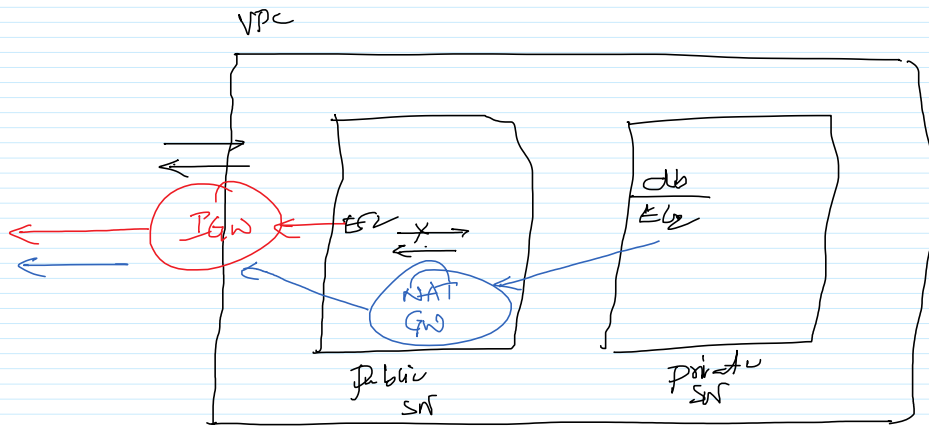
Public IP  
might change





Elastic IP  
1.2.3.4





IGW - Internet Gateway (proxy)

NAT GW -

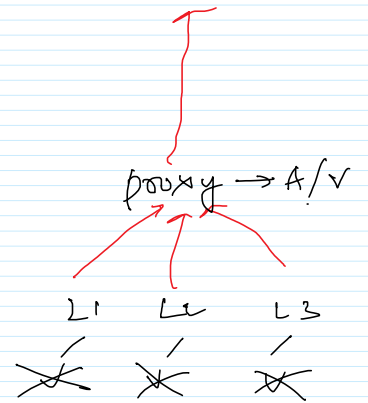
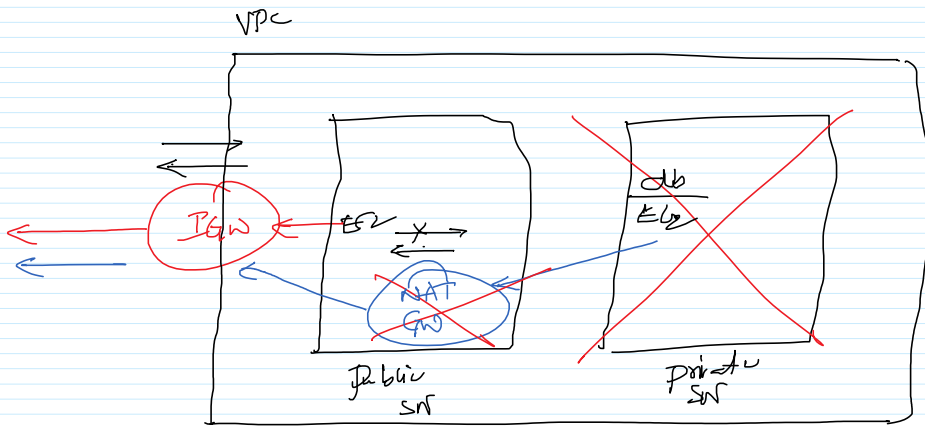
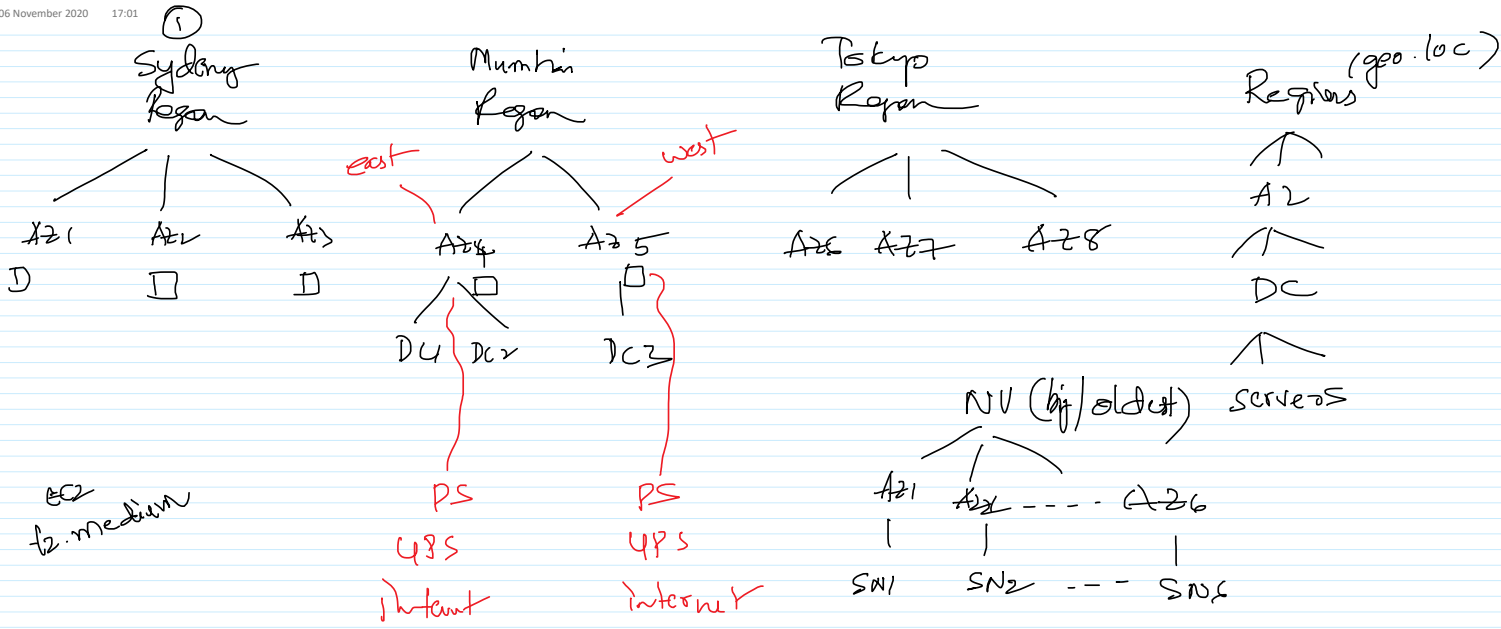




Diagram illustrating a proxy server setup:

- A vertical line at the top represents the Internet.
- A box labeled "proxy" is connected to the Internet line.
- To the right of the "proxy" box is the text "A/v".
- Below the "proxy" box are three boxes labeled "L1", "L2", and "L3".
- Arrows point from each of the "L1", "L2", and "L3" boxes up to the "proxy" box.
- Each of the "L1", "L2", and "L3" boxes has a large "X" drawn over it, indicating they are blocked or filtered.

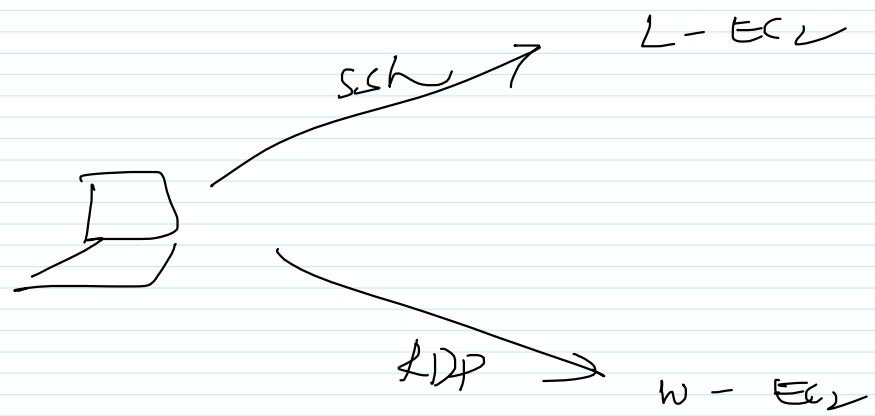




AWS - personal account - free tier

$$\begin{array}{r} \text{EC2} \quad \text{750 hrs / linux / month / 1 year} \\ + \\ \text{t2.micro} \quad \text{750 hrs / windows / month / 1 year} \\ \hline 1500 \text{ hrs} \end{array}$$

S3 (54B)



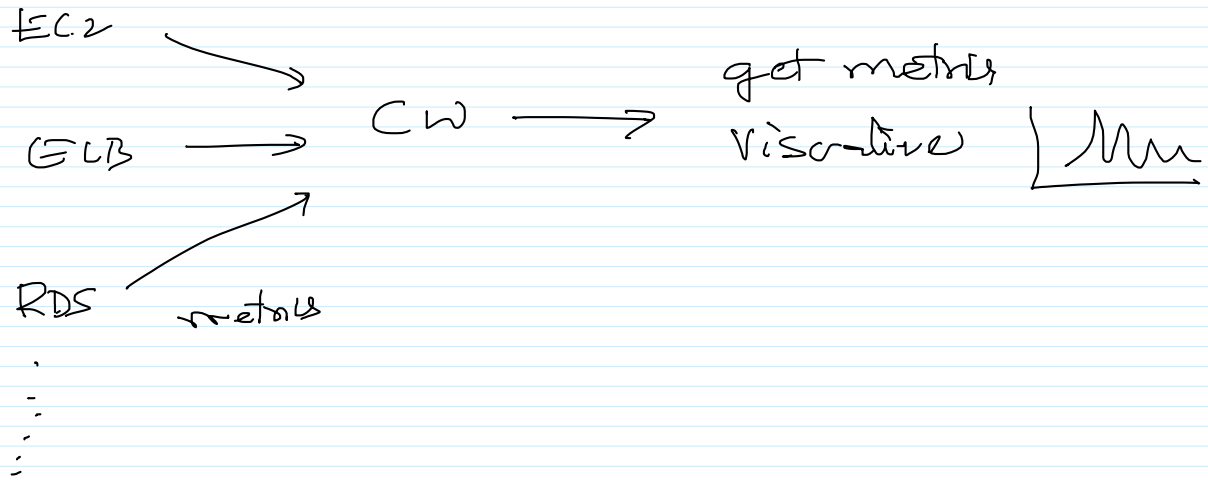
- ELB - easy name
- VPC
- S3

- SG
- KP
- LT
- EC ✓

- Conned
- website

- ELB - Application
- Path Based Routing

5:30 → 1h 6:30



$L - EC \xrightarrow[\text{defect}]{5m} CW$

(1)

$L - EC$



(enabled deleted  
mounting)

(2)

Alarm

if ( CPU > 80% )

Send email



public ip

AWS

ip1 - ip2

edurock.com → 1.2.3.4

GCP

ip3 - ip4

Azure

ip5 - ip6

