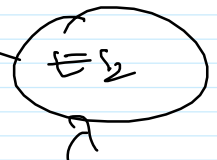


Agenda

- stepFunctions
- Elastic Cache —→
- AutoScaling (*)



Dynamo DB

Aurora RDS

$$\frac{\lambda}{E_{c2}}$$

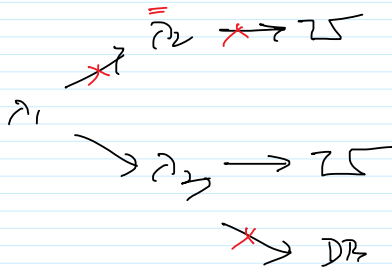
$$\frac{\lambda}{E_{c2}}$$

$$\frac{\lambda}{\frac{\text{Firecracker}}{E_{c2}}}$$

$$E_{c2}$$

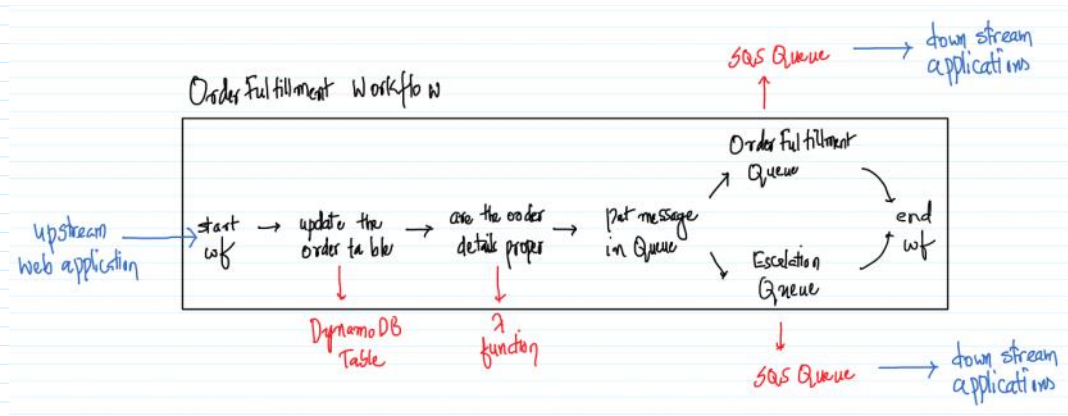
- event driven
- Schedule
- API Gateway
- stepFunctions.

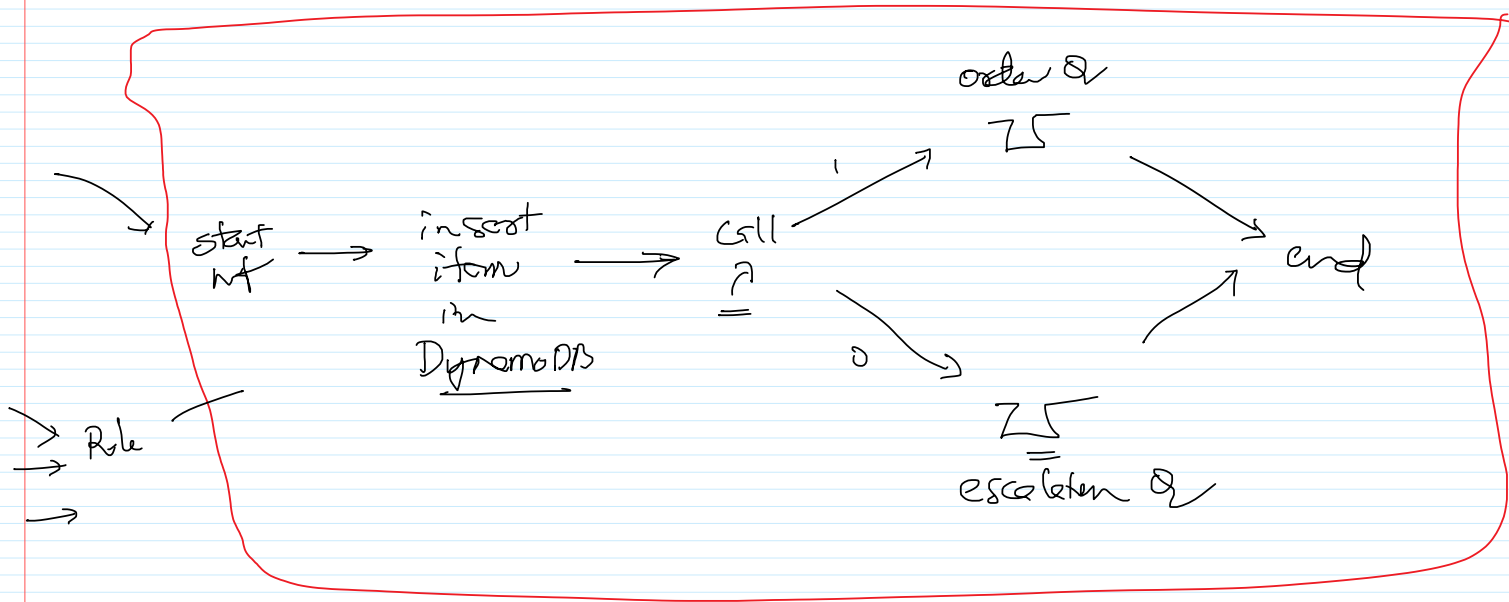
DAG - Directed Acyclic Graph

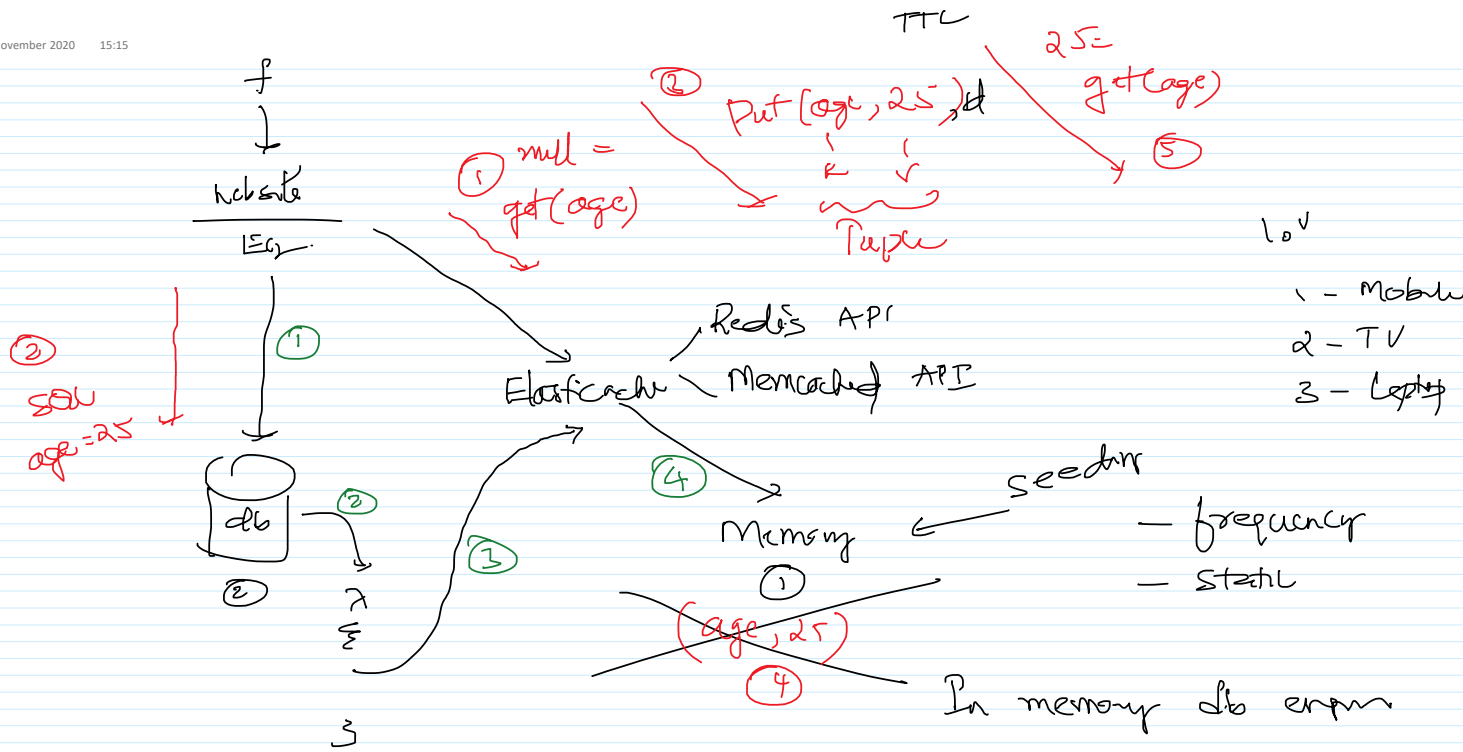


↑
- 25 ↓
↑
- 45 ↓
↑
- 85 ↓
x

exponential backoff







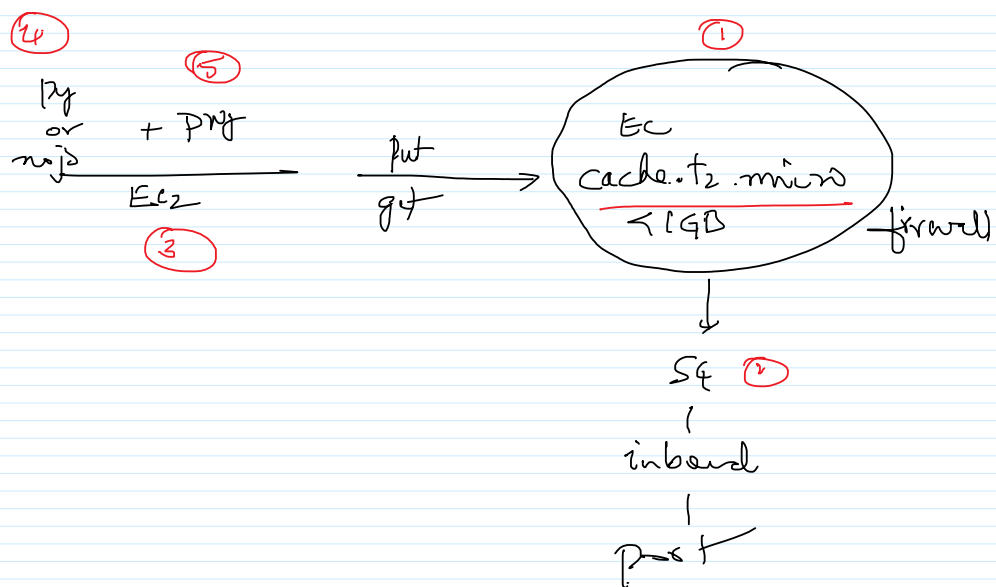
age-ec = get_ec(age) ← R. from EC

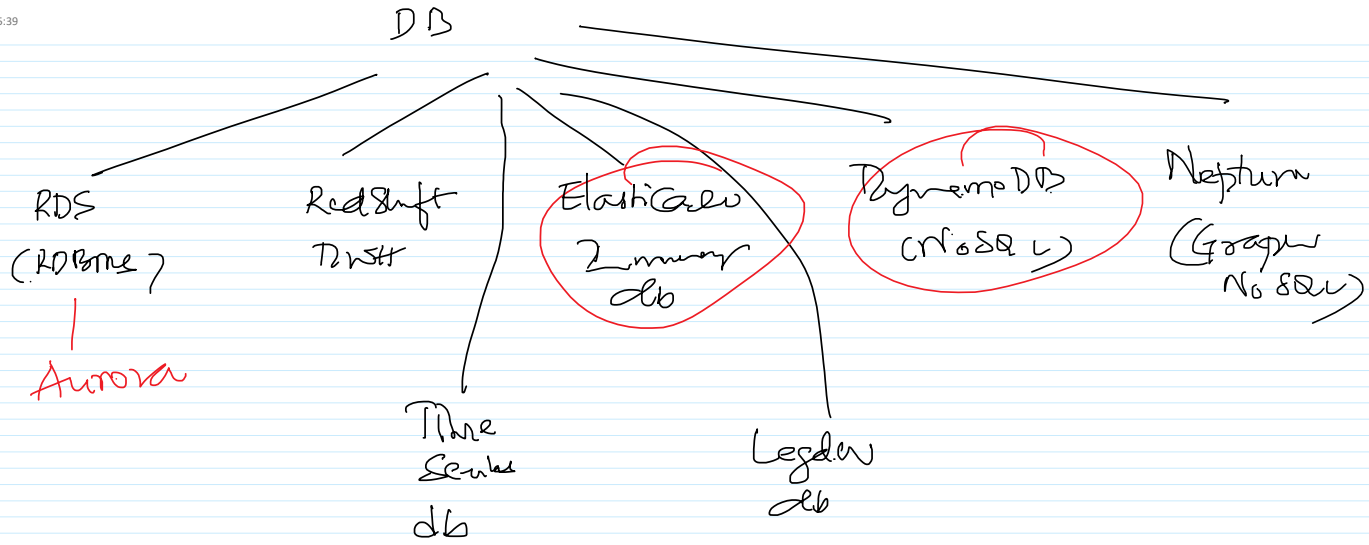
if (age-ec == null)

age-db = get-db(age) // save ← R. from DB

if (age-db != null)

put_ec(age, age-db) ← D to EC





Edge Cache → Caching app data

CloudFront → web pages (html, js, css)

audio

video

images

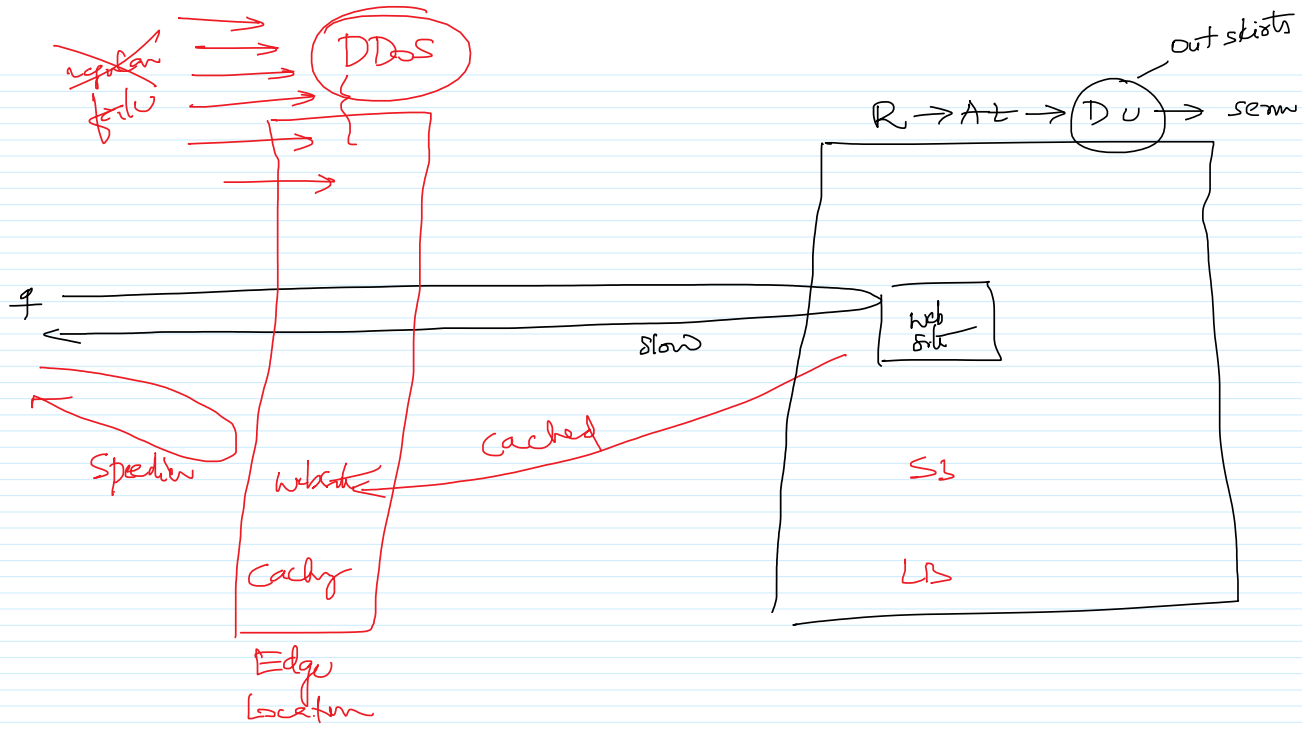


CDN

CDN → CloudFront

DC → POP → Edge Location

~~**~~ → AWS
Akamai



Commitment

provisioned
1 \ \$\$
1000

reserved
(per region)

$\lambda()$

firecracker

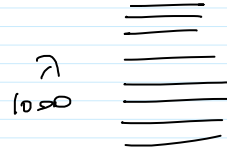
EC2

100
7

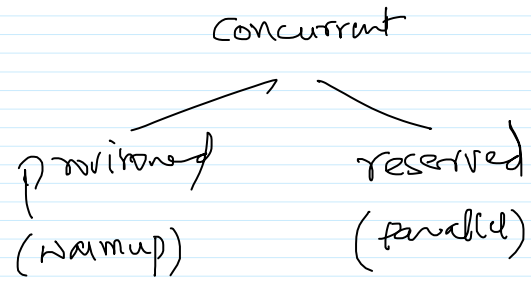
updat →

- environment ✓
- initialized - function ✓
- execution fn ✓

reserved Conarray - region level
↑ 1000 - NV



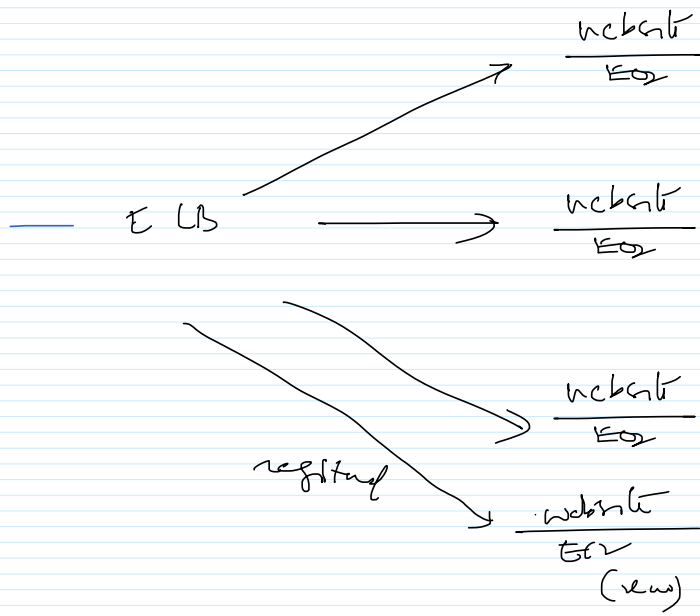
Quota Service



Auto Scaling (Forc)

12 November 2020 16:40

Backup
E2/4x4x4
E2



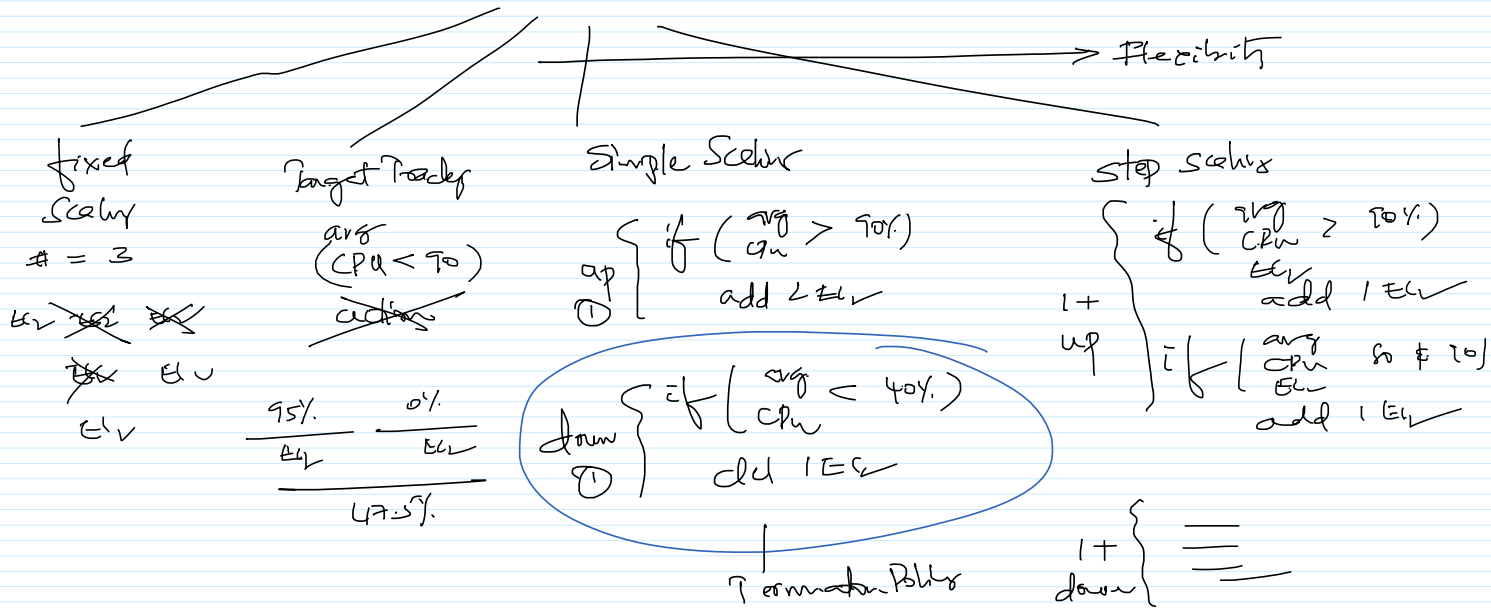
manually

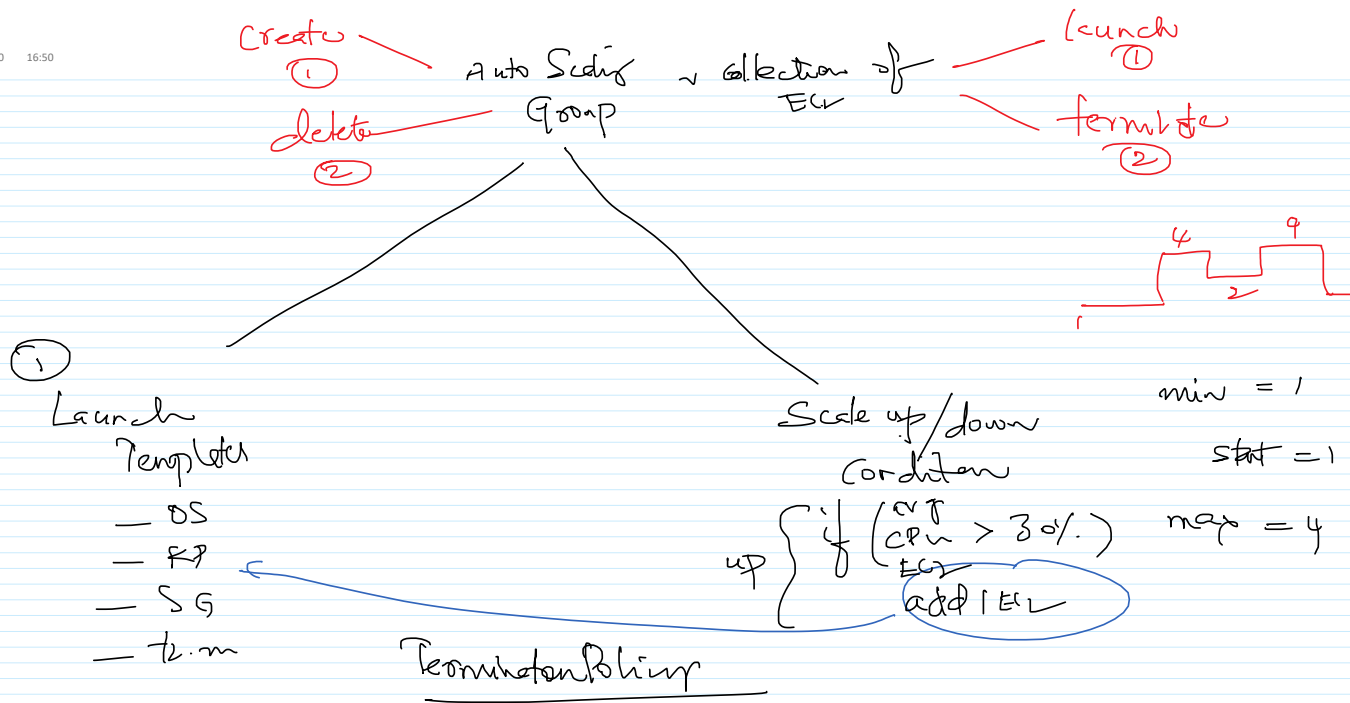
Auto Scaling

up } if (avg CPU > 80%)
add 2 E2

down } if (avg CPU < 40%)
del 1 E2

Auto Scaling





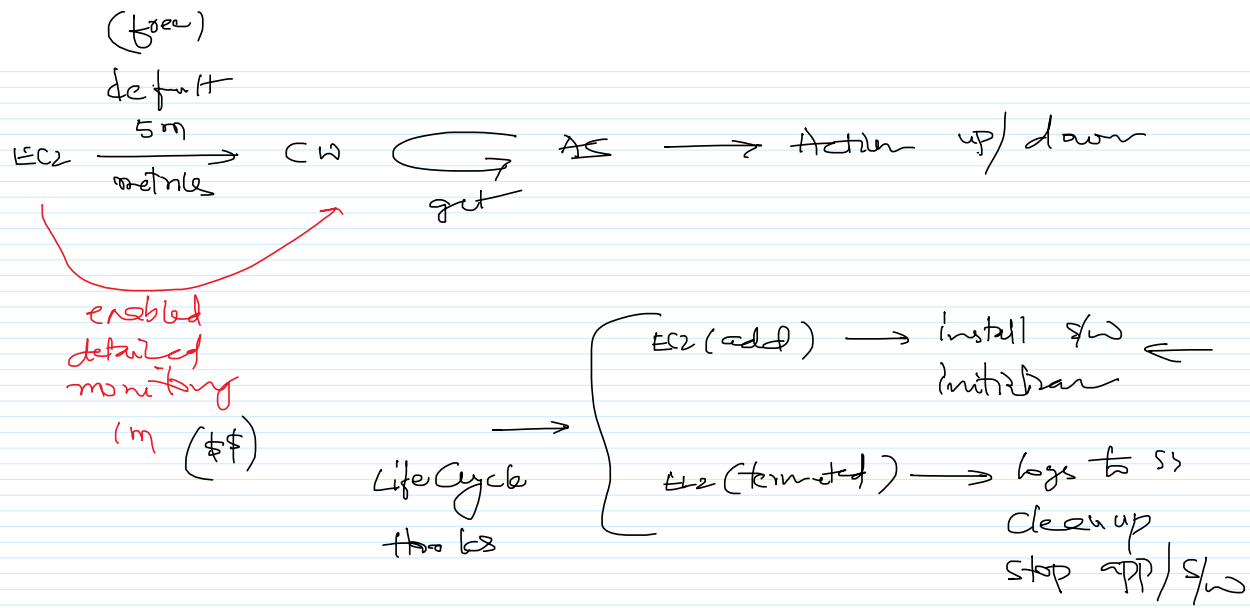
Remission Policy

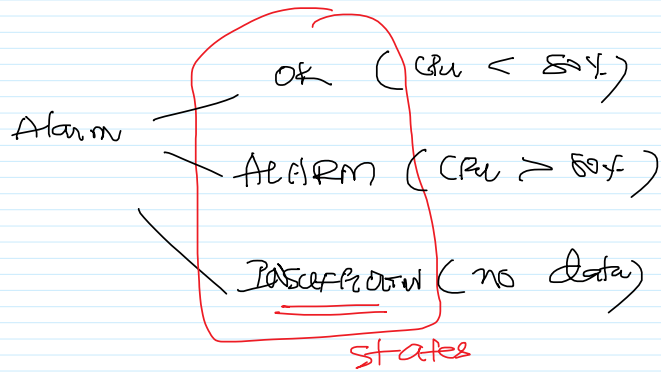
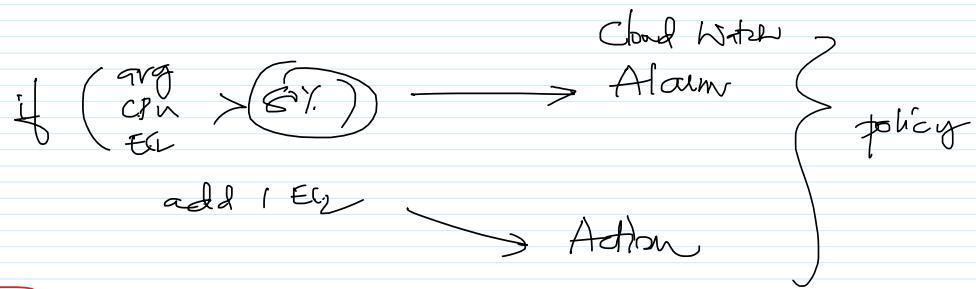
- oldest
- newest
- closest to next how

N-E2
6m

W-Er
1hr 56m

W-Eu
30m





Ans Ops Works

12 November 2020 17:36

— Puppet }
— chef }

CM tools

~~install
upgrade~~

~~patch~~

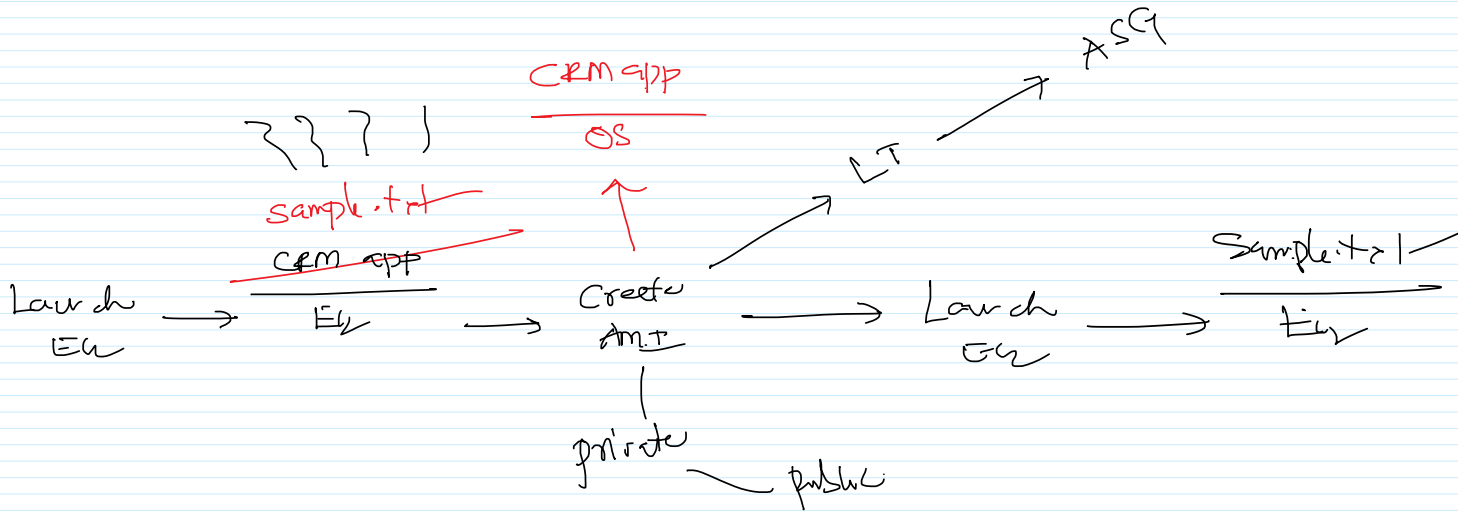
~~HA~~

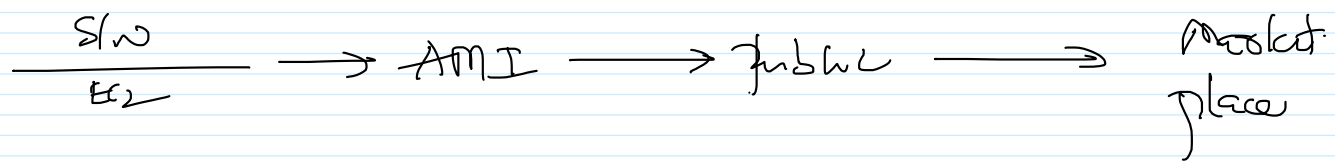
~~Scalability~~

AMI (Amazon Machine Images)

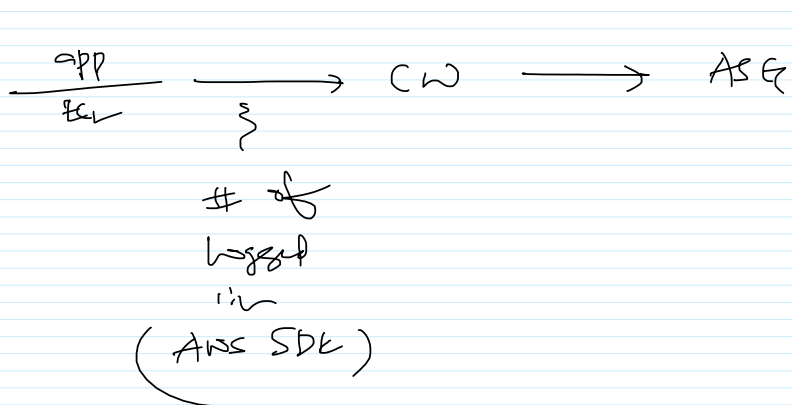
12 November 2020 17:36

$$\frac{\text{OS} + \text{App} + \text{fw} + \text{VPN}}{\text{Laptop}} \longrightarrow \text{Image} \begin{cases} \text{L1} \\ \text{L2} \\ \text{L3} \end{cases}$$





- Oracle
- MS
- PS



if (total
logged > 100)
add 1 EU