

## Agenda

✓ - CloudFormation

✓ - DynamoDB (NoSQL) → → SES

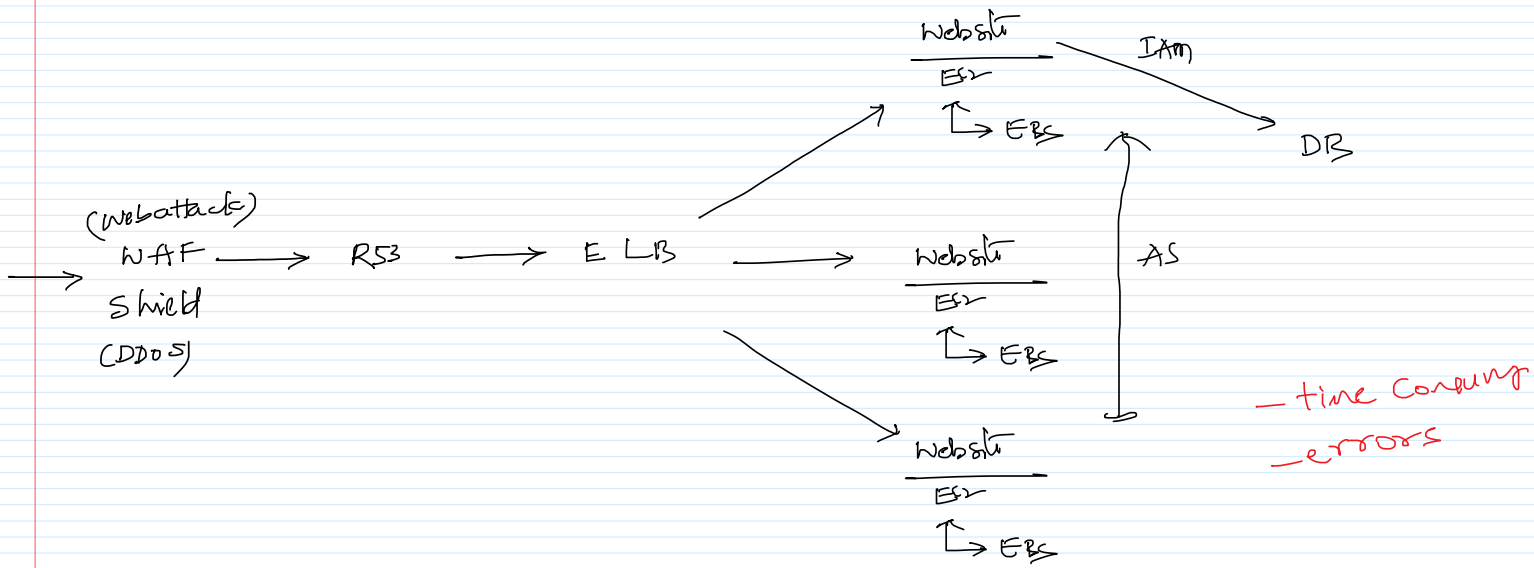
✓ - Aurora (RDBMS) → → SNS

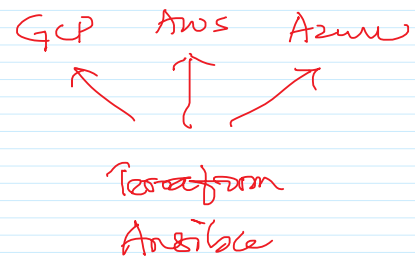
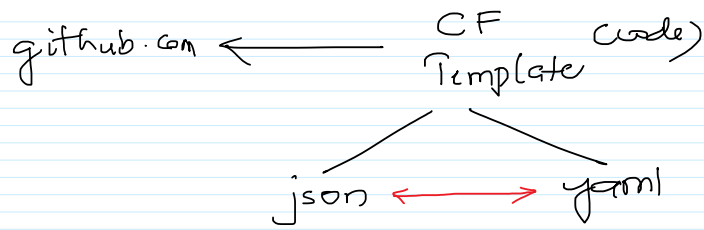
- ~~\*\*\*\*\*~~

- WordPress

- Gojo

IaC





$\text{Prod} = 10 \text{ EC2}$   
 $\text{Dev} = 5 \text{ EC2}$   
 $\text{prod} = 1 \text{ TB}$   
 $\text{dev} = 500 \text{ GB}$

- ✓ resources
- ✓ properties
- ✓ connection

$\frac{g/p}{\text{parameters}}$

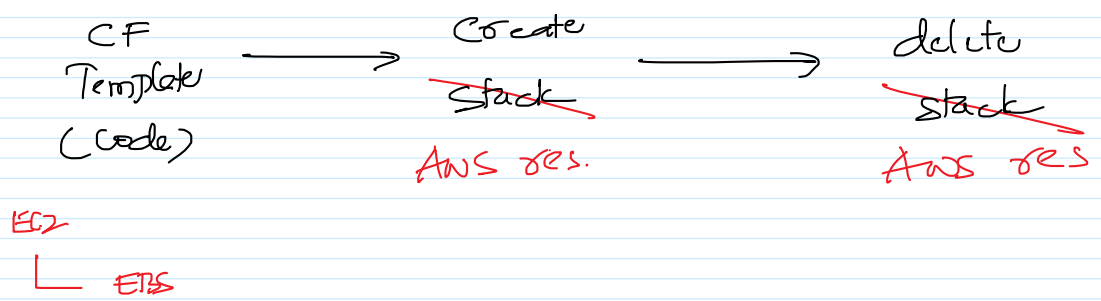
$\# \text{ of EC2}$   
 $\text{prod} = 10$   
 $\text{dev} = 5$

$\left. \begin{array}{l} \text{size of EBS} \\ \text{prod} = 1 \text{ TB} \\ \text{dev} = 500 \text{ GB} \end{array} \right\}$

~~$\# = 10$~~   
 $\text{EC2} (\text{t2.medium}, \text{DC}, \text{KPI}, \text{SG}, \dots)$

$\text{EBS} (1 \text{ TB}, \text{AZ1}, \text{R1}, \text{SSD} \dots)$

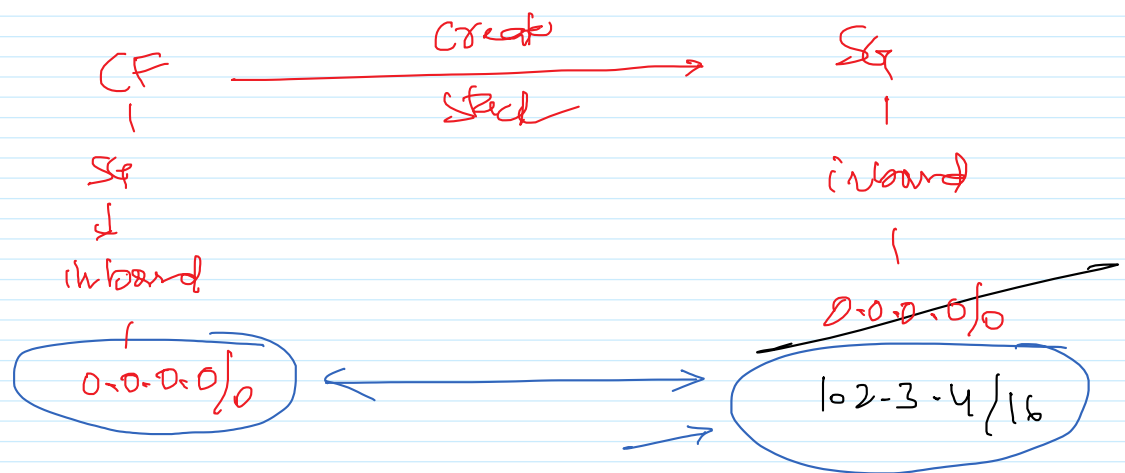
$\text{O/E}$   
 $\text{EC2} - \text{IP}$   
 $\text{RDBMS} - \text{EP}$   
 $\text{EVB} - \text{dm}$

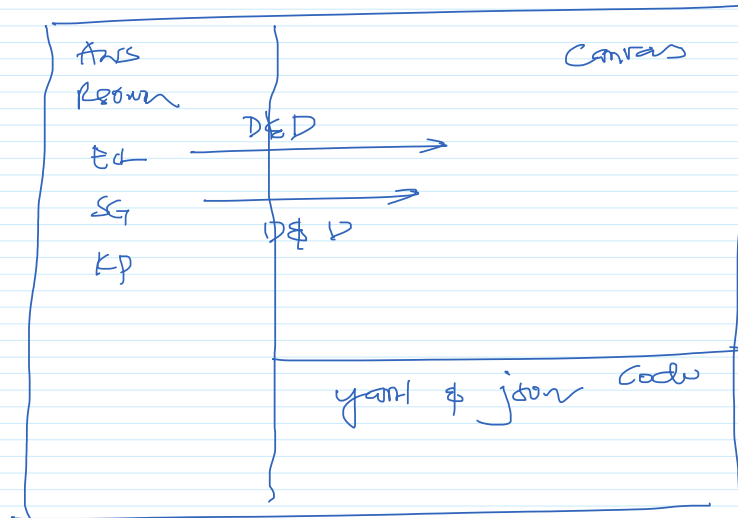


stack → collection of AWS res.

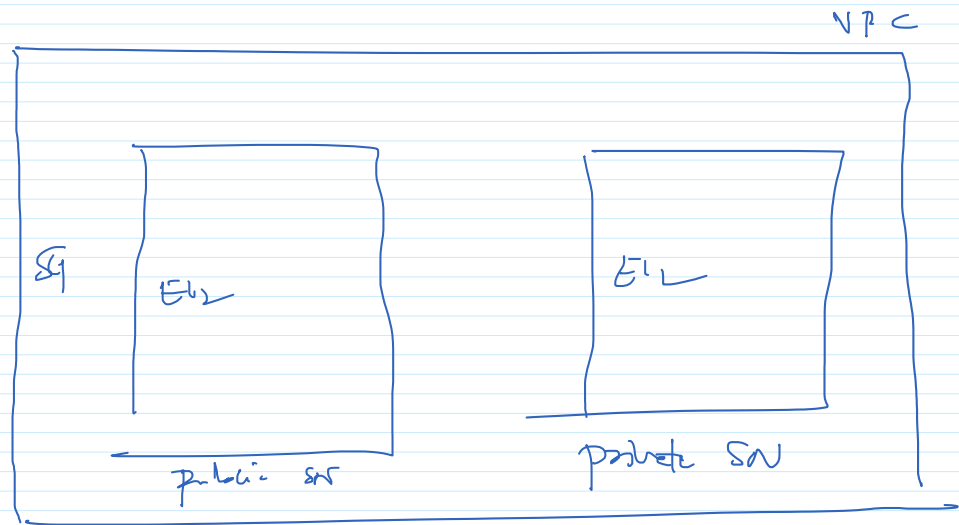
pool

Drift

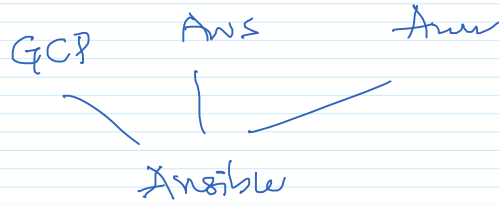
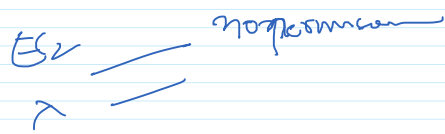
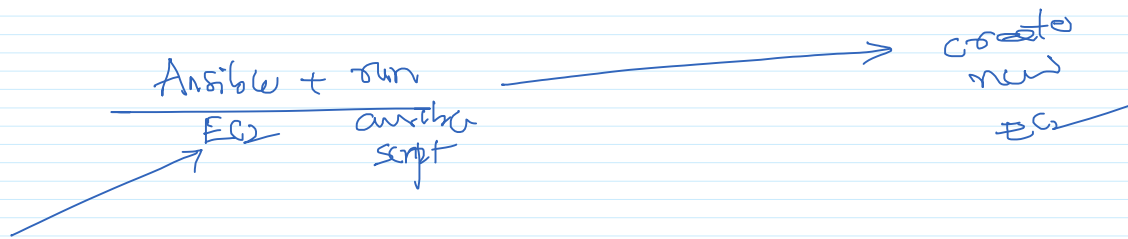




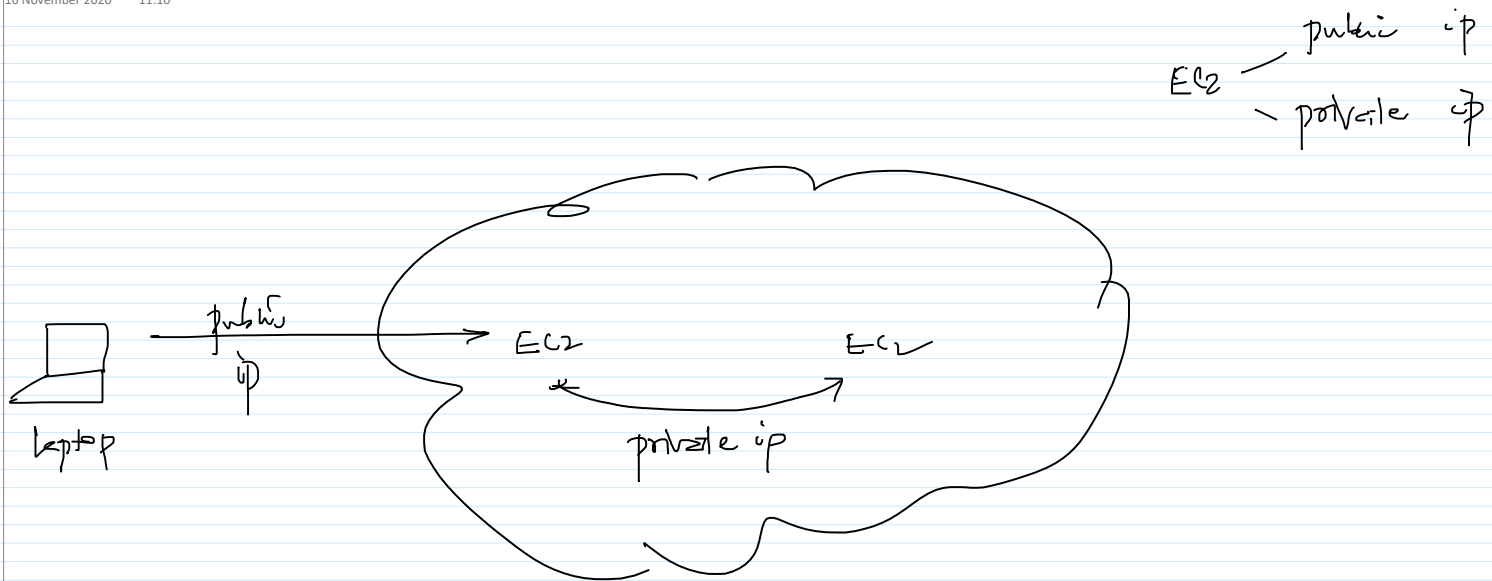
so to 40%  
guaranteed

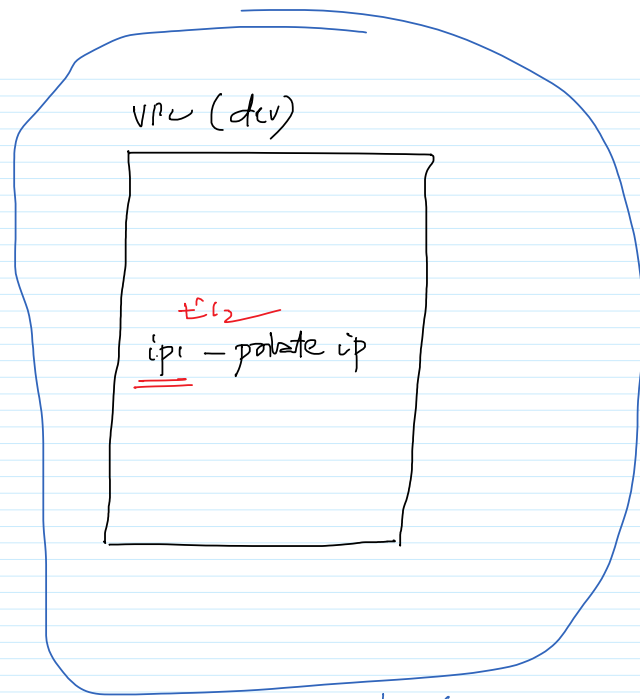
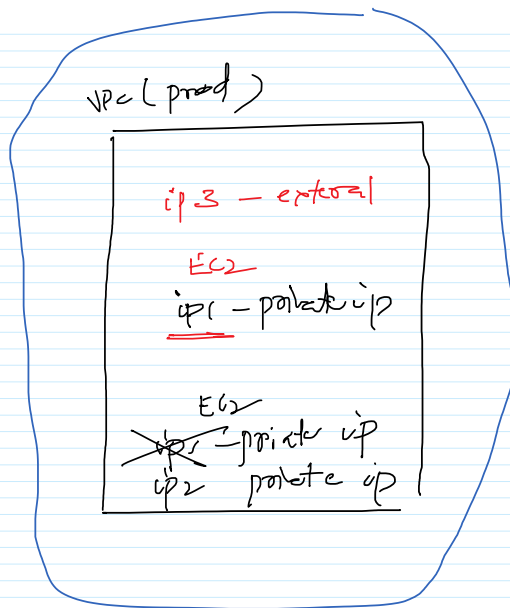


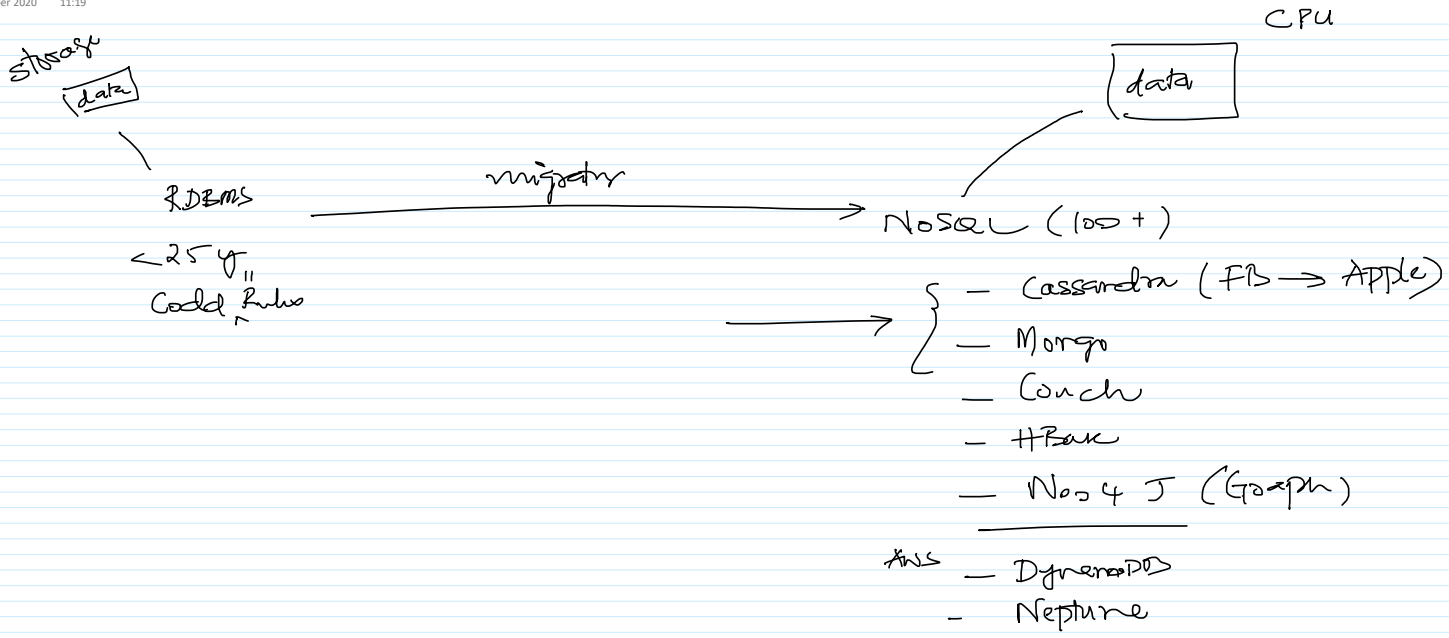


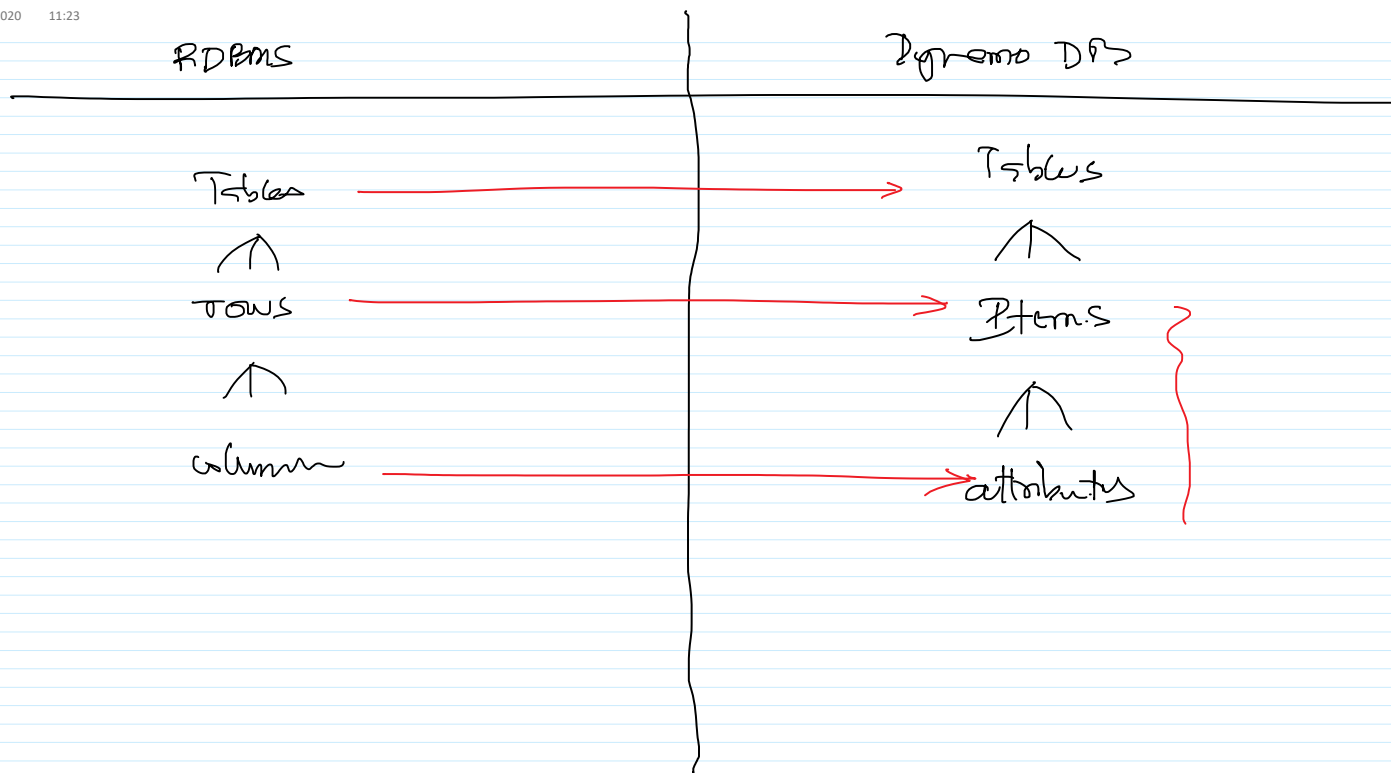


A  
EC2









RDBMS	Dynamo DB (Schemaless db)
<p>ahead {</p> <p style="margin-left: 40px;">Table ↓ Columns + type</p>	<p>ahead {</p> <p style="margin-left: 40px;">Table ↓</p> <div style="border: 1px solid red; padding: 5px; margin-left: 40px;"> <p>primary key = partition key (PK) + Sort Key (SK)</p> </div>
<p>later {</p> <p style="margin-left: 40px;">insert rows</p>	<p>later {</p> <p style="margin-left: 40px;">insert items column name + type</p>

get(empid=1) → m/c1  
 empid=1 → m/c1  
 empid=2 → m/c2  
 empid=3 → m/c3

primary key (unique) = partition key (m) + sort key (v)  
 where the data is sorted on each m/c

→ Employee Table  
 ↳ empid → part. key  
 ↳ dept → sort. key

→ get (city = Hyderabad)  
 secondary indexes

dept	empid = 1
	6
	7

m/c1

dept	empid = 2
	4
	5

m/c2

dept	empid = 3
	1
	2

m/c3

## RDBMS

- SQL

- join

- SQL (SQL) nested

- group by

- . . .

- complicated

- slow

## Dynamo DB

- put →

- get }

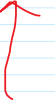
- scan }

} Batch

- simple

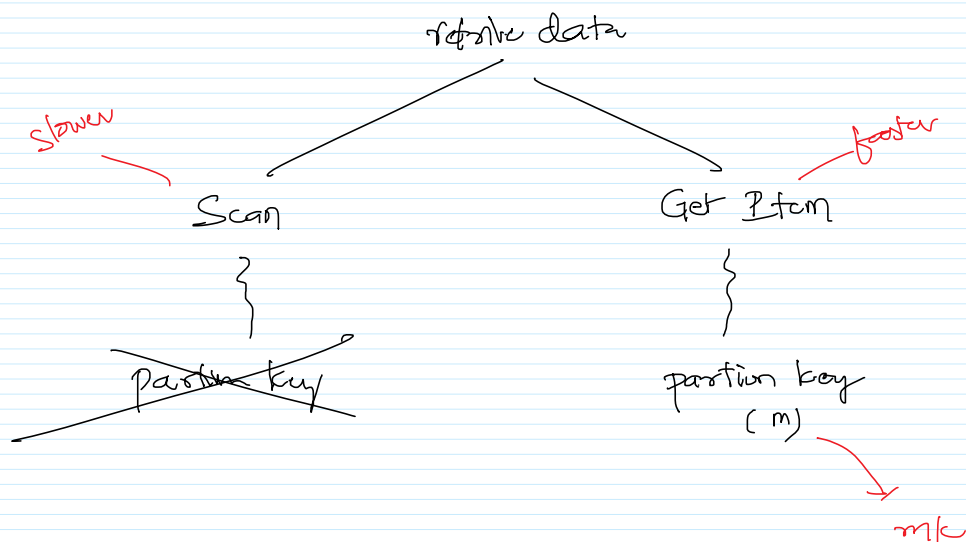
- faster

(DWH)  
join (app)

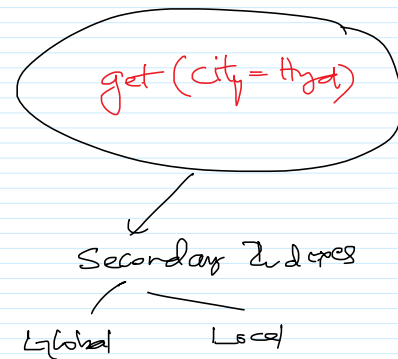


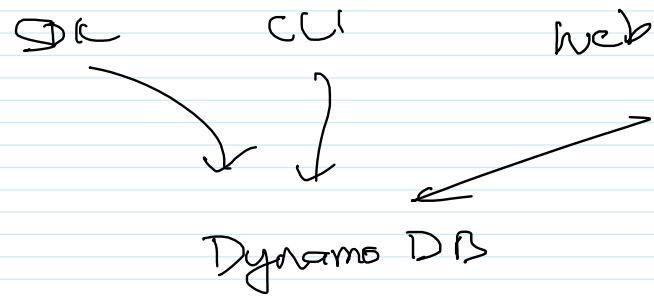
t1 t2  
Py. DB

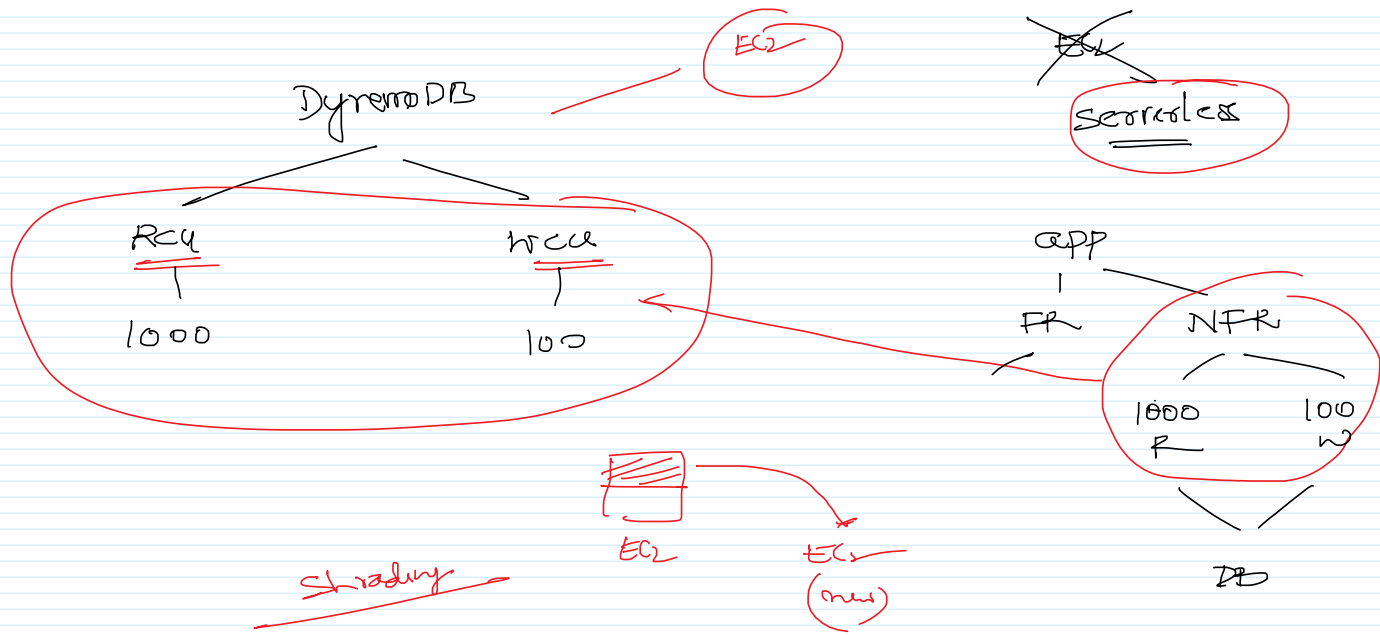




Employee Table  
 L empid = parent  
 L dept id = root



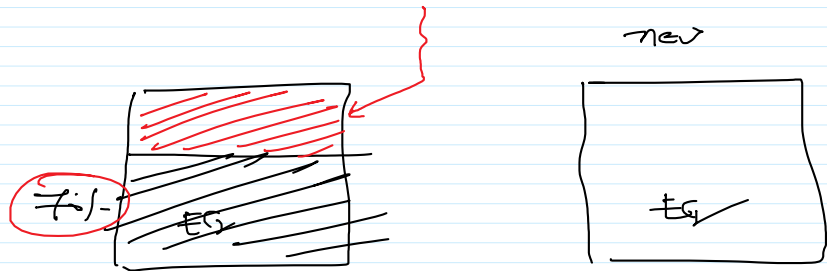
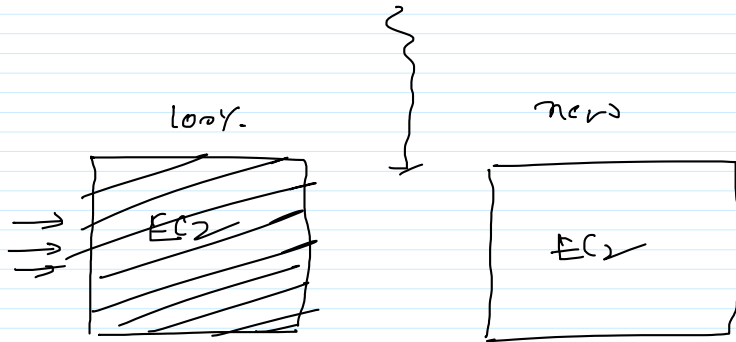


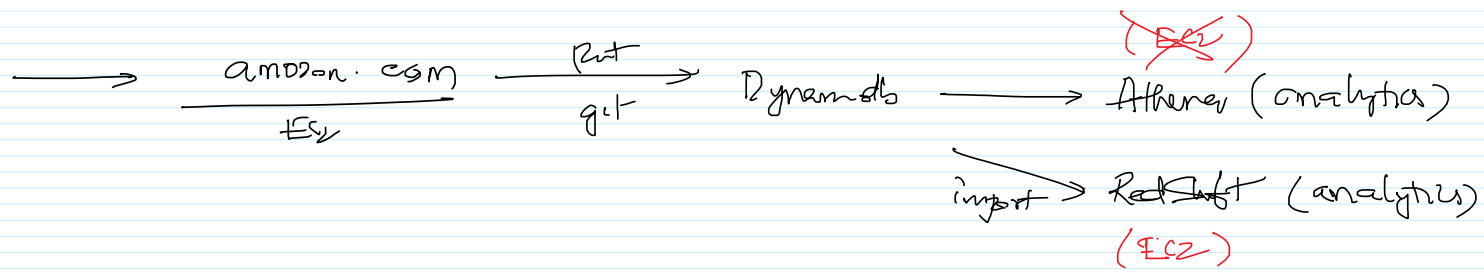


Target Utilization = 70%.

16 November 2020 12:10

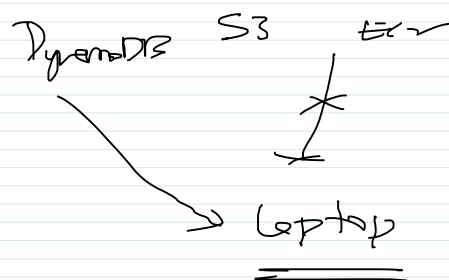
transaction will fail





- free
- offload

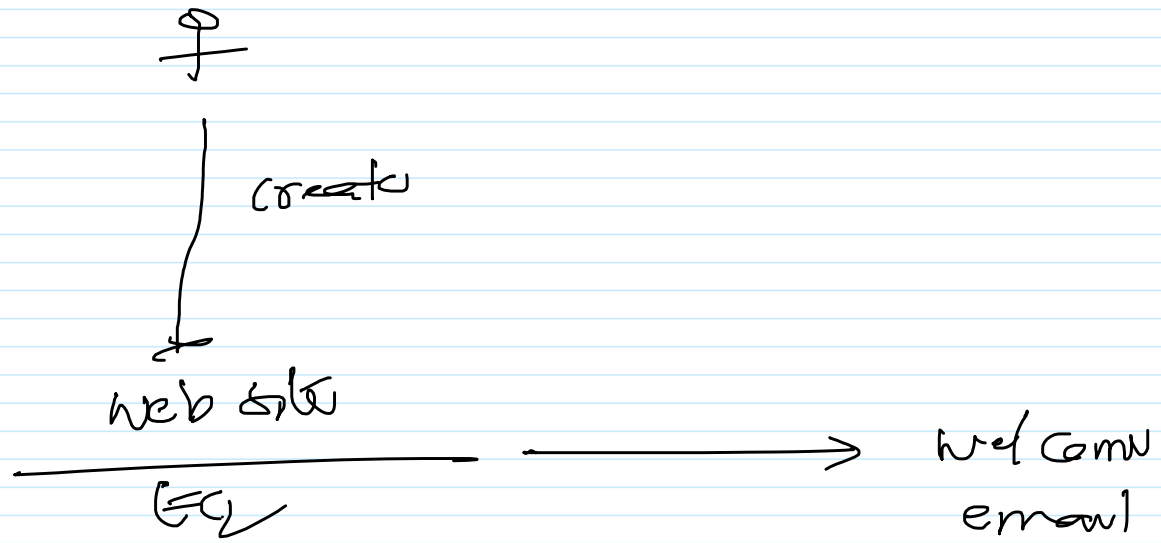
←  
Dynamodb + Java  
Laptop



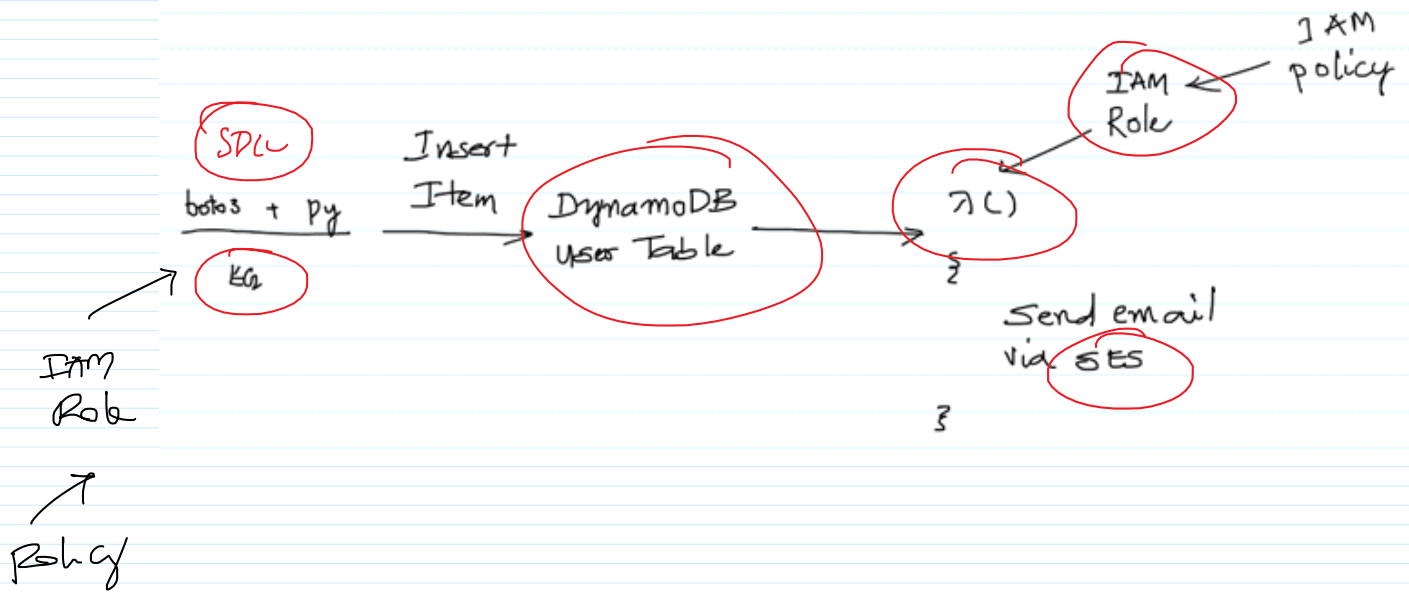
Dev & QA

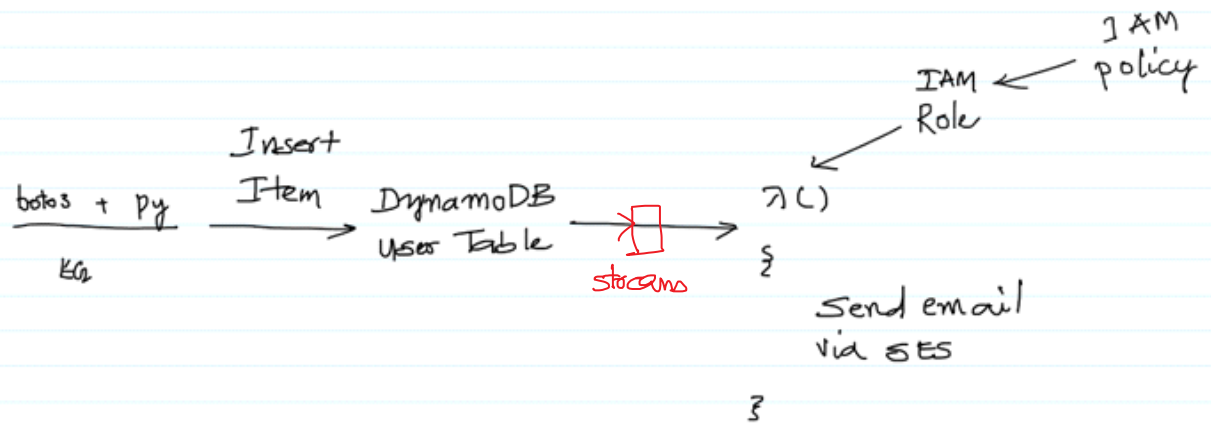
MySQL  
Workbench  
HeidiSQL → MySQL

DynamoDB  
Workbench → DynamoDB





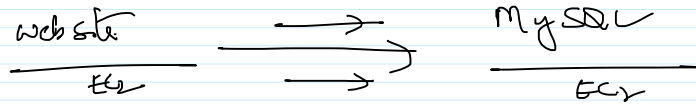




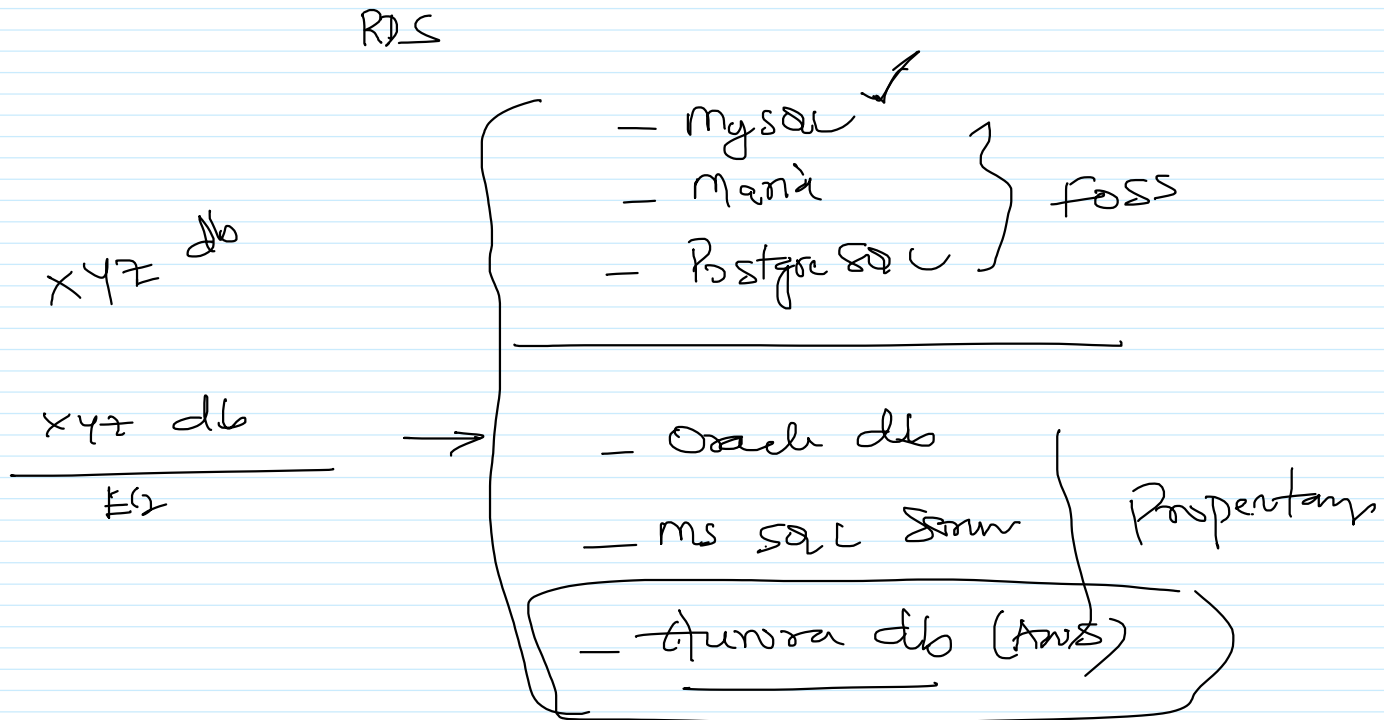
# RDS (Relational DB Service)

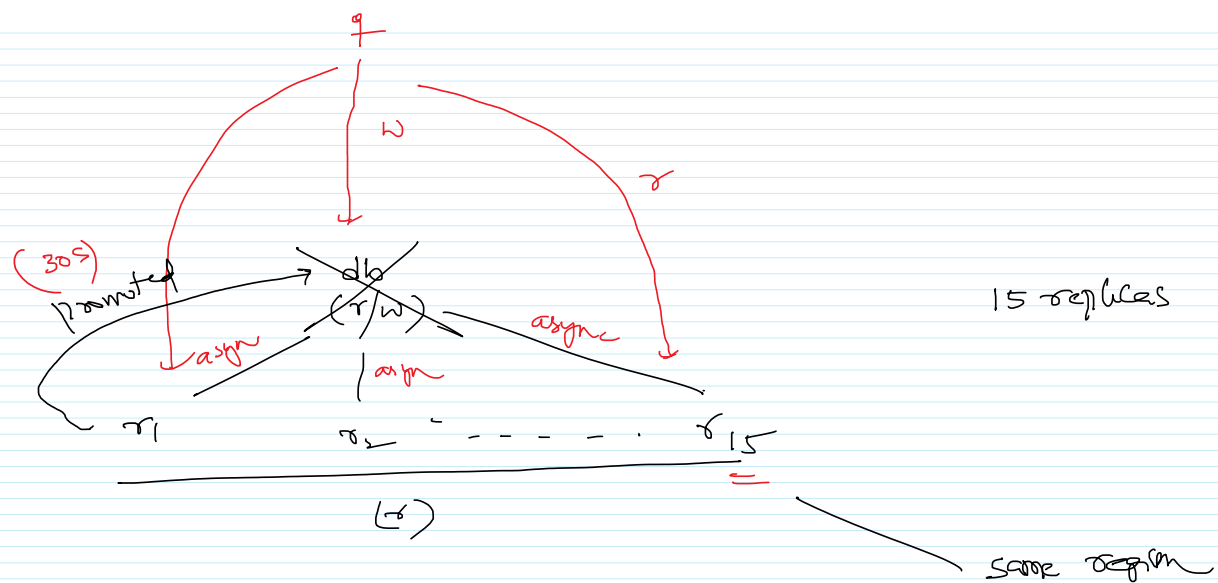
16 November 2020 14:00

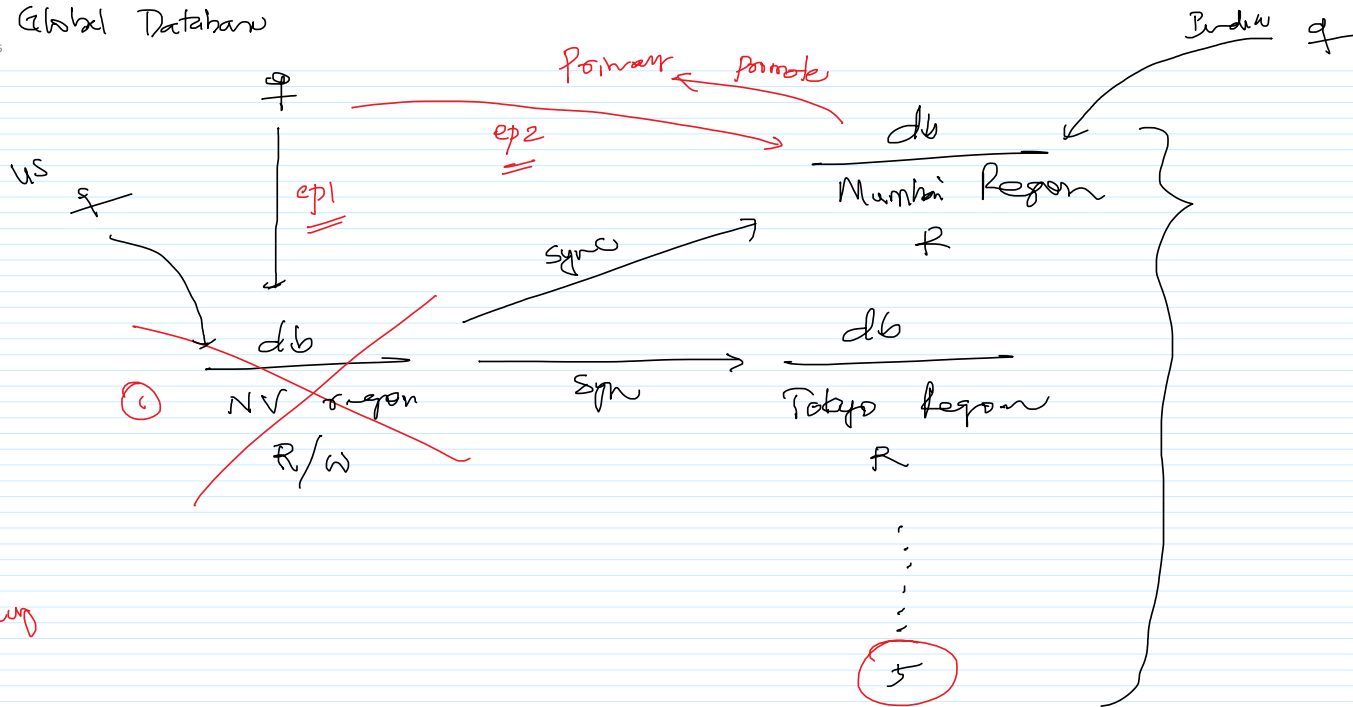
- Managed Service



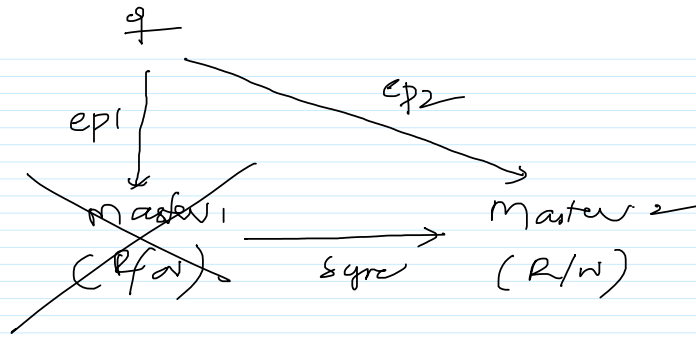
- Licensing
- Install
- Upgrade
- Patch
- HA
- Scale up





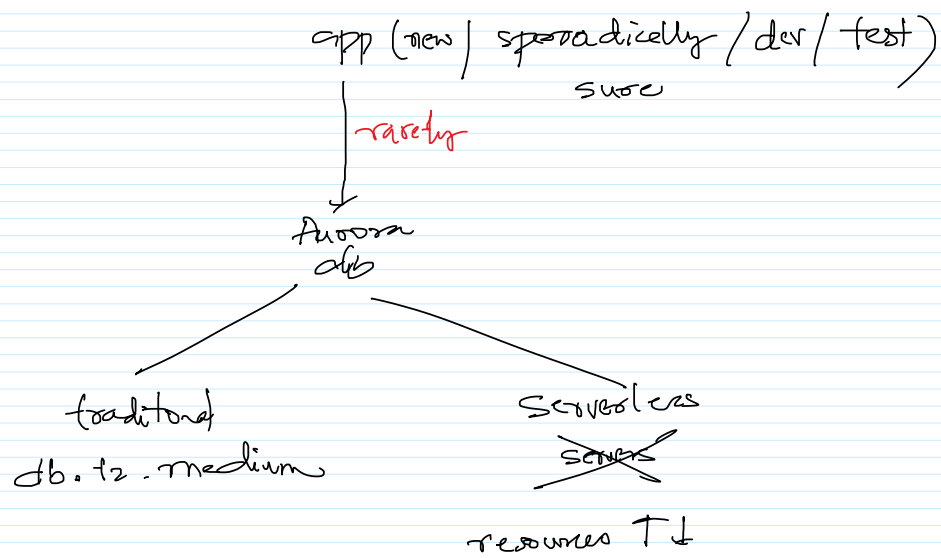


- fix  
- backup



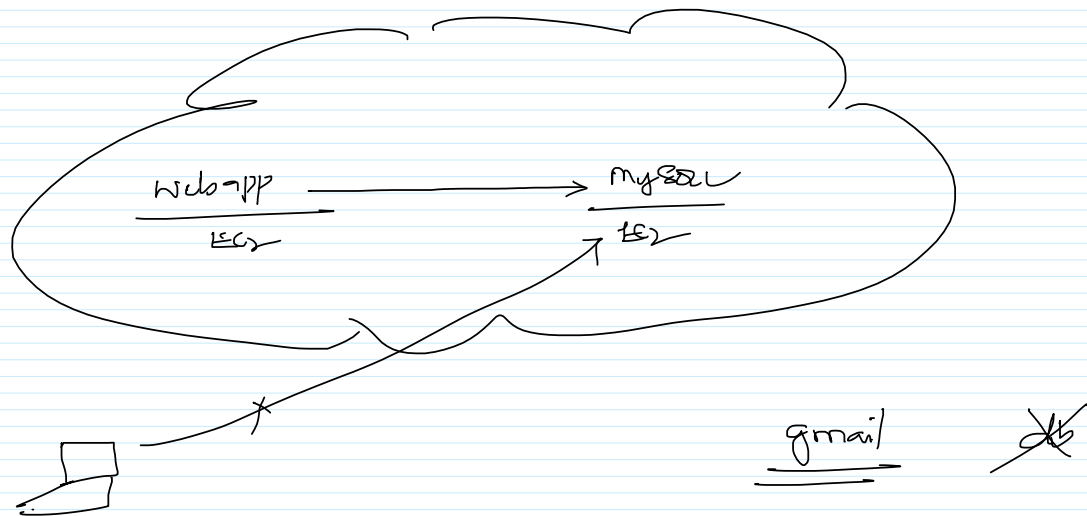
Continuous Availability -

~~HA~~



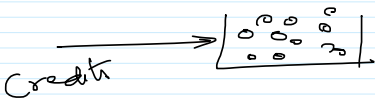
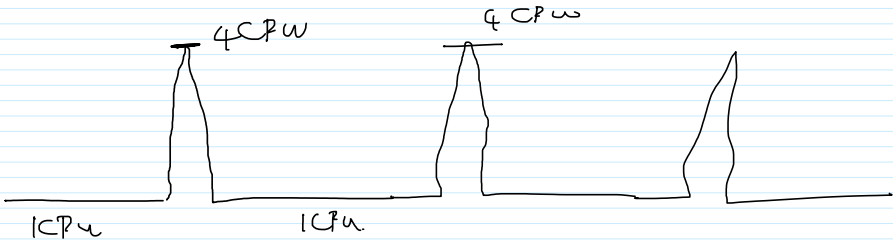
ES2 → \$\$\$  
λ → invoice





buosku class

tz - min  
1 GB  
1 CPU core



7B

Spark  
Pig  
Hive  
Hadoop

---

EG

save

save

save

}

}

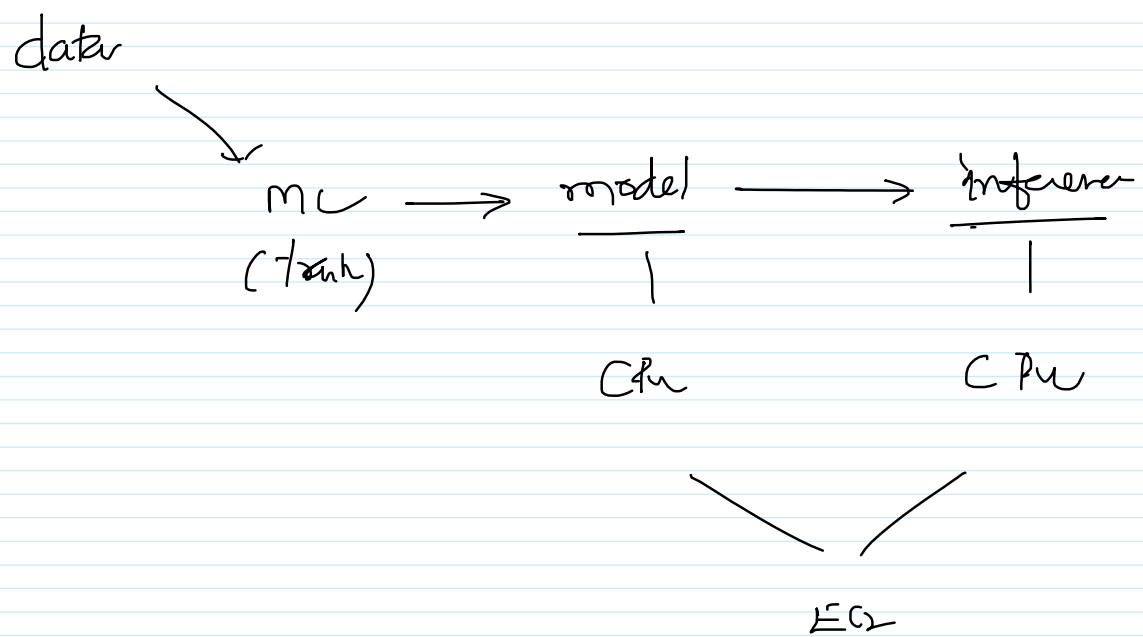
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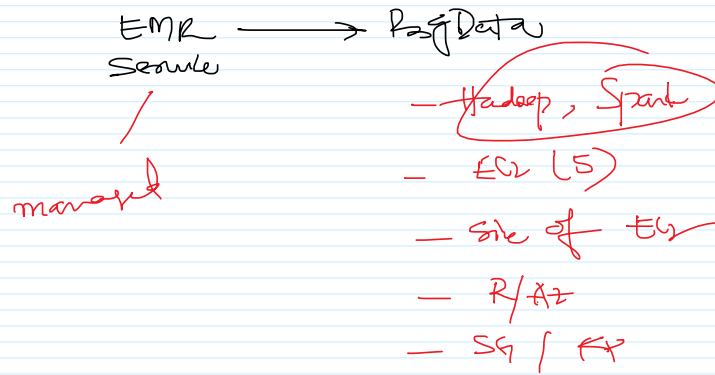
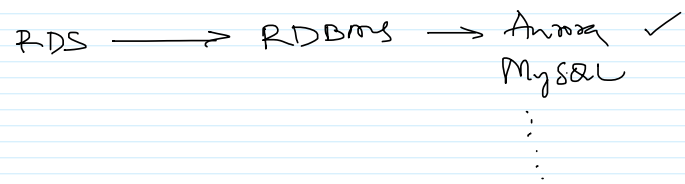
EG

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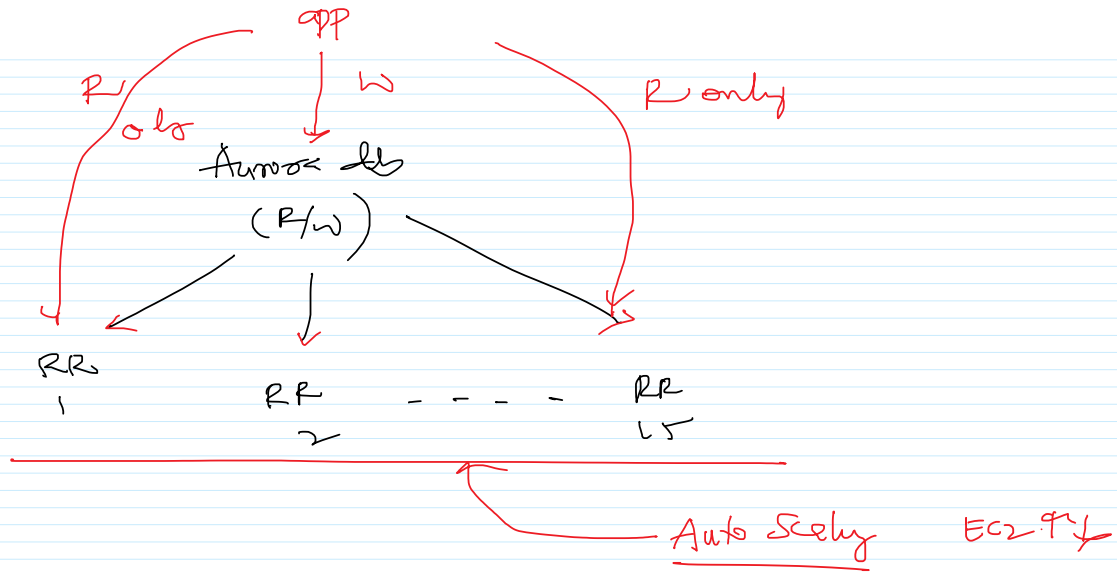
EG

Cloud Big Data



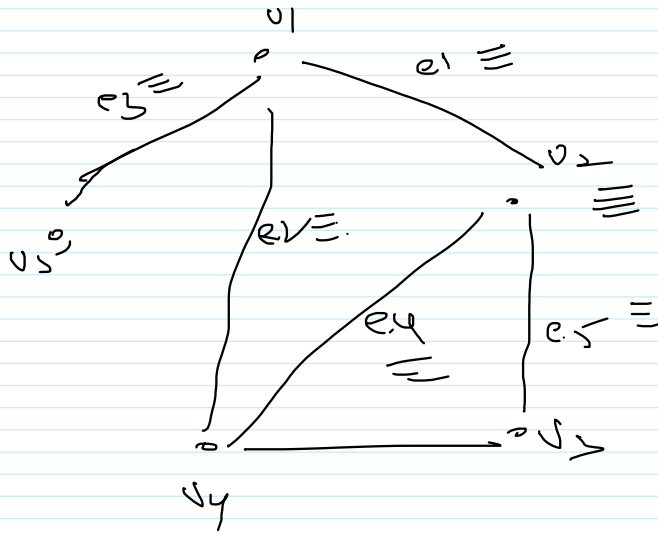


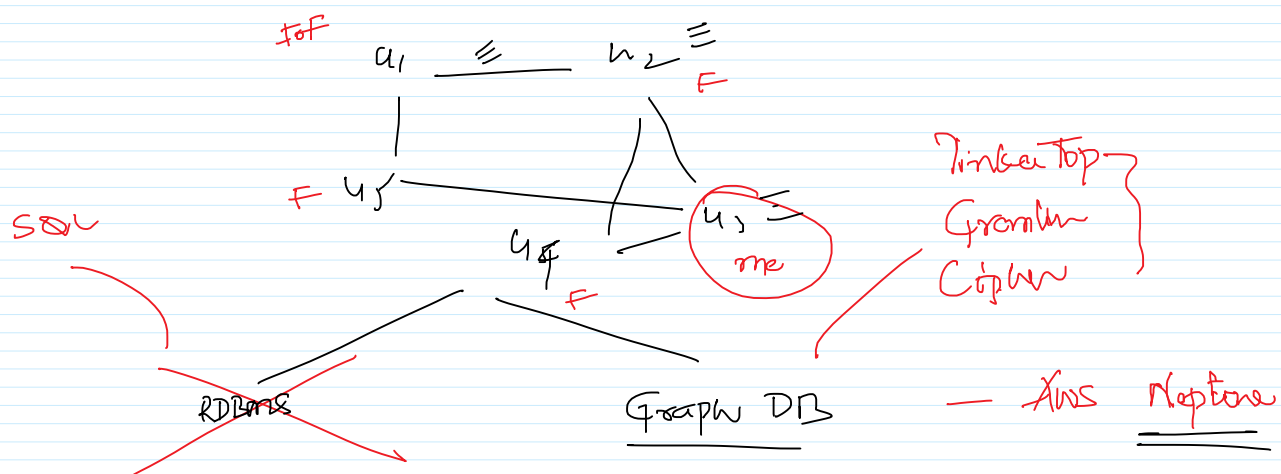
Big Data  
-----  
Hadoop + Spark  
-----  
EC2





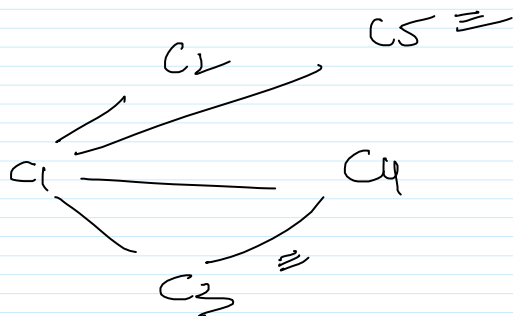
So







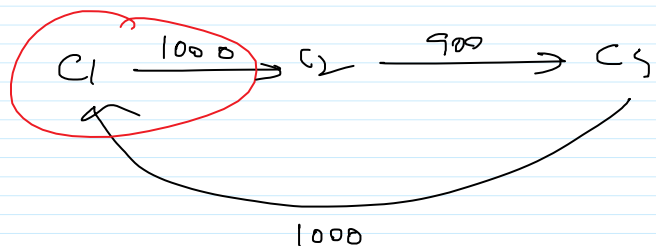
## Spacial Groups



A → D

- L ~~shovel~~
- L ~~Quicker~~
- L ~~Too~~ ~~Too~~

## Financial Student



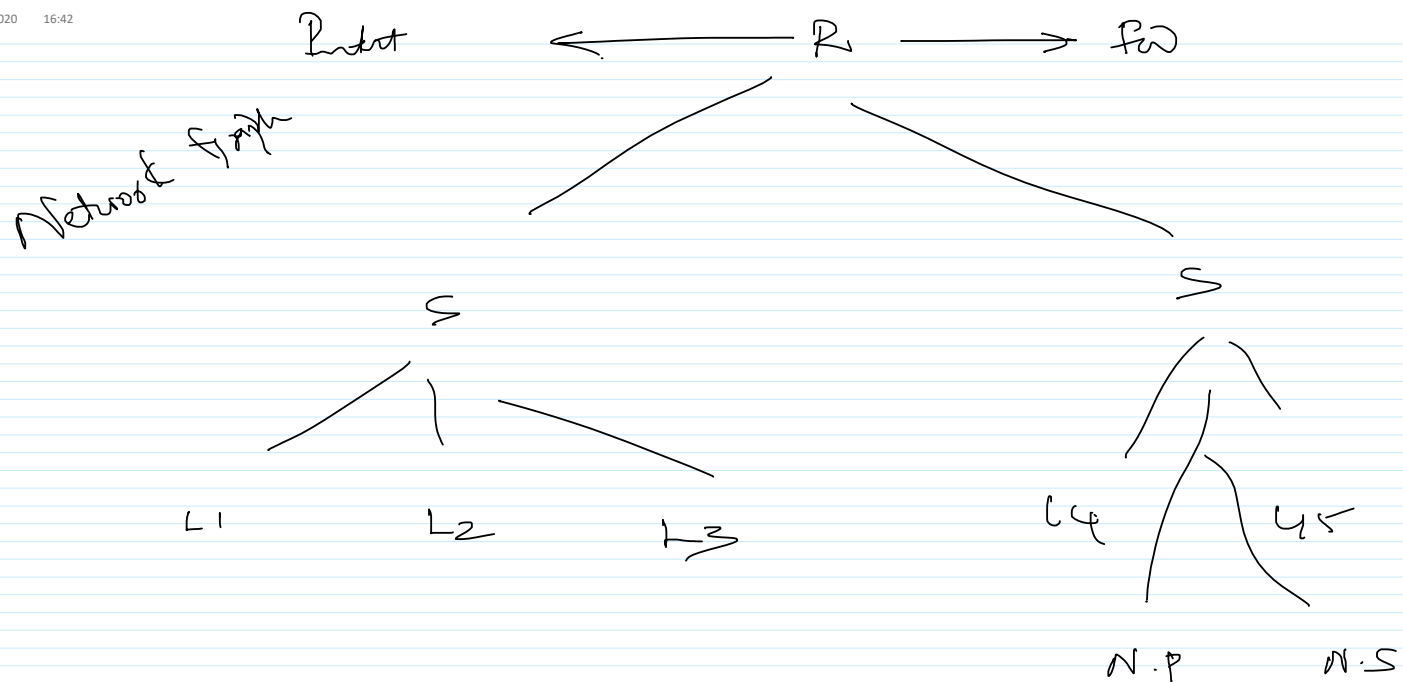
money laundry

Logits .

$A_1 \longrightarrow A_2 \longrightarrow A_3$

}

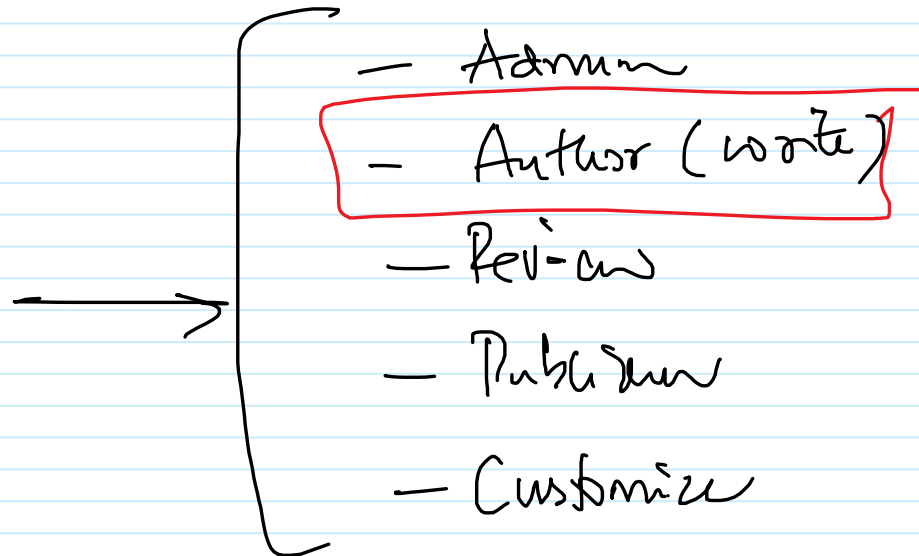
$A_4$

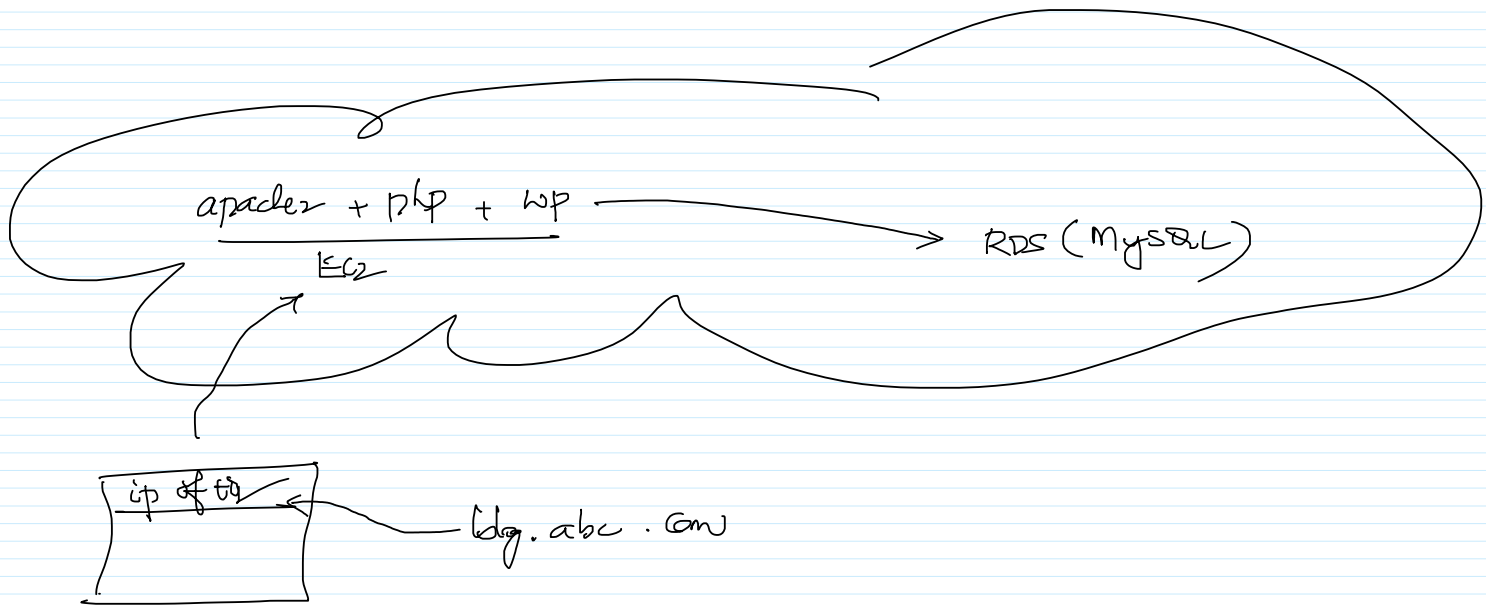


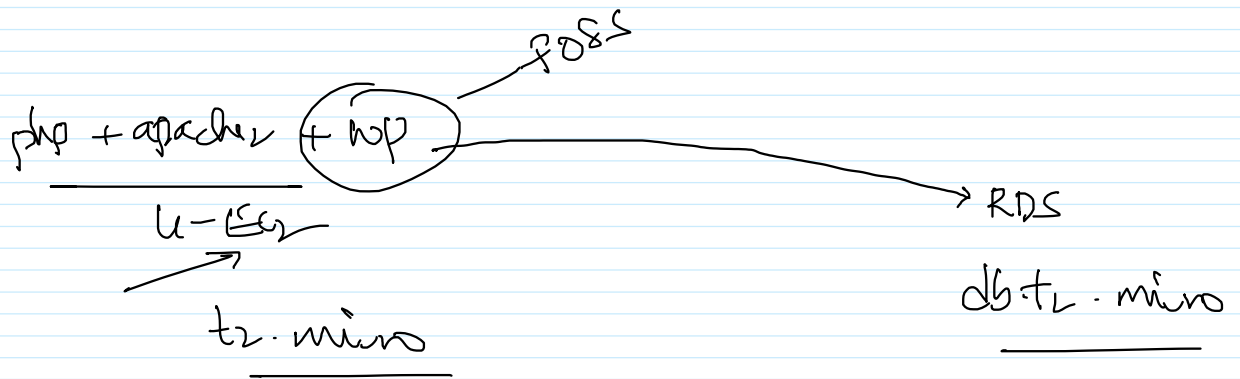
WordPress — php → FOSS

16 November 2020 16:45

↳ CMS







750 hrs / month / year

LMS

