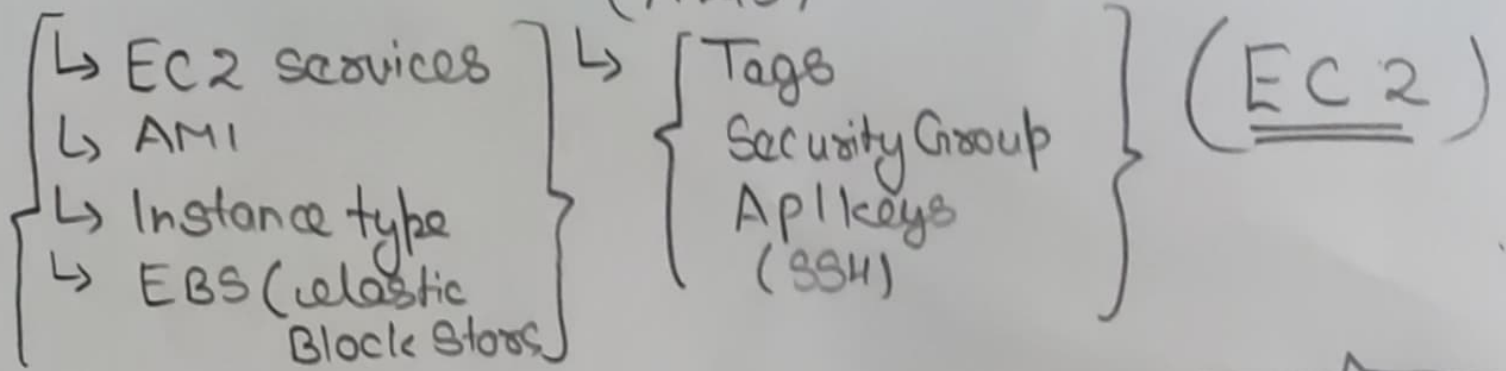
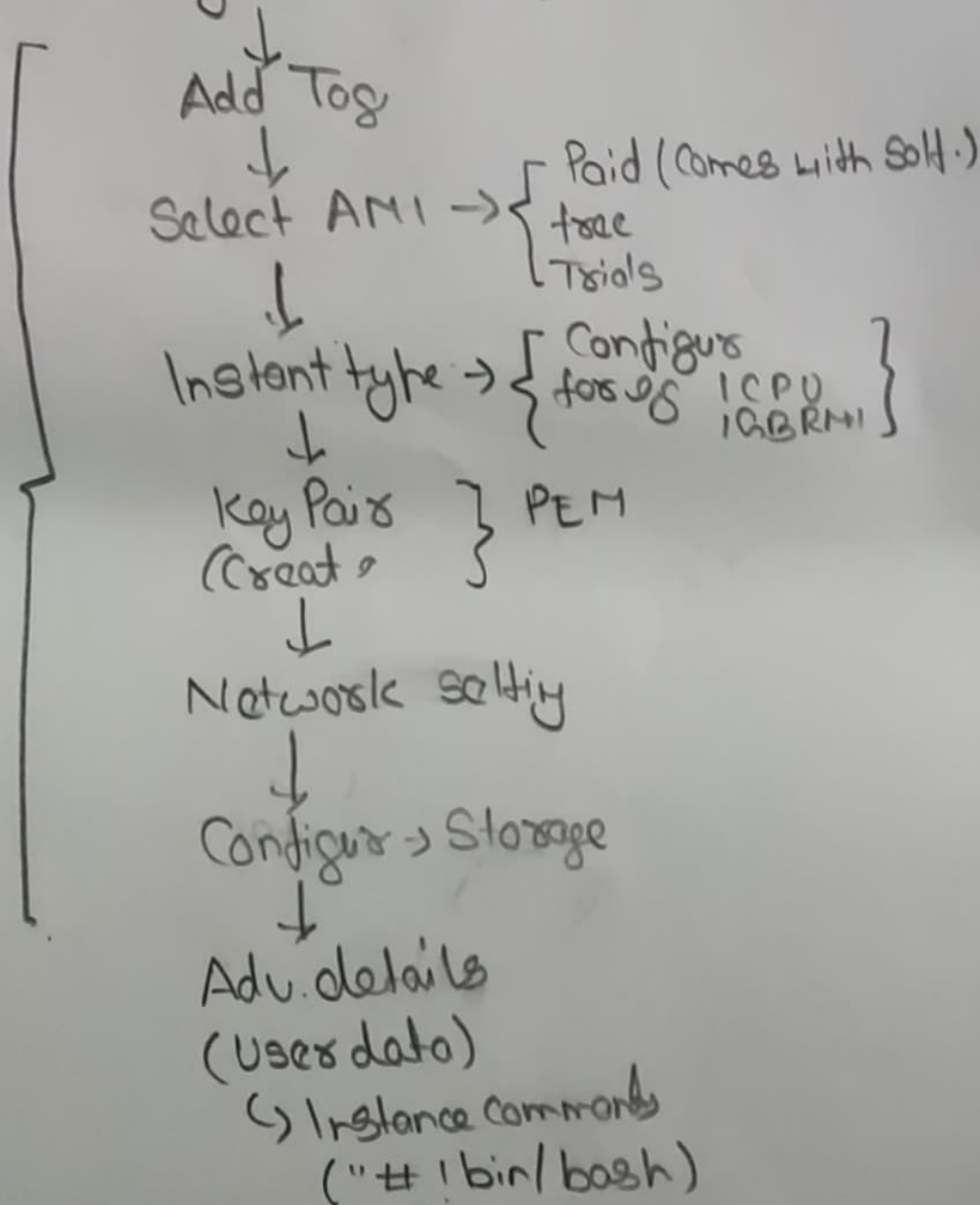


(AWS)



{ Launching an Instance }



{ For Checking AMI Subsec }
{ AWS Marketplace }
{ List of AMI'S }

"EC2 Instance" Creation

"Req. Gather"

"Key Pairs"

"Security Group"

"Instance Launch"

OS, Ram Size, Storage

Project

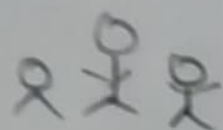
Services/App

Environment

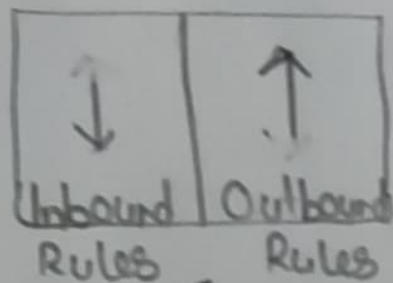
Login User/
(Tagging/Track)

[EC2]

Security Group { Act as Virtual firewall }
Control traffic for one or more instances



(Inbound)
Traffic coming from Outside on the Instance



(Traffic going to Outside)

{ Stateless }
i.e. Some type of traffic in & out.

⇕
(Security Group)



(HTTP default → port 80)

On power off (Public IP change
private IP remain same)

↳ for static Public IP

↳ "Elastic IPs" to reserve public IP

↳ After Allocation

(It will remain same)

↳ micro
(free tier)

System log { Check/Monitor }
if any problem
Billing logs

{ AWS CLI (Command Line Interface) }

↳ Unified tool → To manage AWS services...

↳ from the Command line...

IAM → Users > awscli > Create access key
[CLI enable]

[aws sts get-caller-identity]
↳ Userid & Account (Using)

[aws ec2 describe-instances]

} (aws cli commands)
"Chatgpt"

EBS (Elastic Block Storage)

Run EC2 }
Store data }

(Snapshot
↳ (Backup of a volume)

{ EBS types }

General purpose
(Best price & Best perf)

Cold Data
HDD
(file servers)

Magnetic
(Backups & Archives)

Provisioned IOPS
(Large Database)

Throughput Optimized HD
(Data optimized)
Blockhouse

(EBS)

EBS volumes (Virtual Harddisk)

EBS Volume } MUST BE IN THE
Instance Zone } "SAME ZONES"

→ High performance

Req. Clustering

{ More than (> 30 GB) In EBS
↳ (Out of tree discs) }

{ General purpose volume ⇒ force disc }

fdisk } Utility to Create/delete /
↓ Manage partitions in disk (Attached Volumes)

mkfs } formatting
↓ (ext → extension formatting) } Same as
ext4, ext2, ... } NTFS / FAT
etc.

mounting } mounting on Images

↳ Inserting data

⇒ Temp mount → When reboot it will be lost

{ mount /dev/xvdf1 /var/www/html/images/
disk name mounting data disc }

loosely unmount

Hashing {8/07/24}

↳ Intersection of two array

```
unordered_set<int> s(b, b+n); } O(n)
```

```
for (int i = 0; i < m; i++) } O(m)
```

```
if (s.find(a[i]) != s.end())
```

```
cout << a[i] << " ";
```

O(m+n)

↳

↳ frequency.

```
unordered_map<int, int> h;
```

```
O(n) for (int i = 0; i < n; i++)
```

```
h[a[i]]++;
```

↳ (key)

→

{(50, 1)}

↳ O (by default)
[Counting corresponding key value]

```
O(n) for (auto e : h)
```

```
cout << e.first << " " << e.second << endl;
```

(key)

(value)

↳ (Union of two sorted arrays)

```
{ unordered_set<int> h(a, a+m);
```

```
for (int i = 0; i < n; i++)
```

```
h.insert(b[i]);
```

```
return h.size();
```

↳ { Pair With Sum }

```
↳ { unordered_set<int> h;
```

```
for (int i = 0; i < n; i++) {
```

```
if (h.find(sum - a[i]) != h.end()) return true;
```

```
else h.insert(a[i]); return false;
```

```
}
```