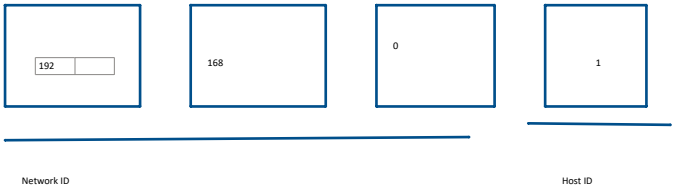
Day - 20 (15th June)

15 June 2024 10:04

1. AWS VPC
2. Appflow

122.149.196.85/32

192.168.0.0/26 ===> 192.168.0.0 - 192.168.0.63 (64 ip address)
0.0.0.0/0 ---> All the ip adddress



VPC - Virtual Cloud

IPV4, IPV6

example.com -----> DNS Server ---> IP Address ---> Web server (10.0.0.5)

Name	Type	Value
Example.com	Class A	10.0.0.5

255.0.0.0 --->/8
255.255.0.0 ---> /16 (255.255.0.0 - 255.255.255.254)
255.255.255.0 ---> /24 (255.255.255.0 - 255.255.255.254)
255.255.255.255 ---> /32 ---> only one ip adddress [Broadcast Address]

CIDR --- Subnet Mask

----- . -----. ------. ------
1st 2nd 3rd 4th

/32 ---> no octet can change
/24 ---> Last Octect can change
/16 ---> Last 2 Octect can change
/8 ----> Last 3 Octect can change
/0 ----> all octect can change 0.0.0.0/0 ---> All the IP Address

192.168.0.0 /32 ----> 1 ip address 2^0 -----> 192.168.0.0
192.168.0.0/31 ---> Allow 2 ip address 2^1 ---> 192.168.0.0, 192.168.0.1

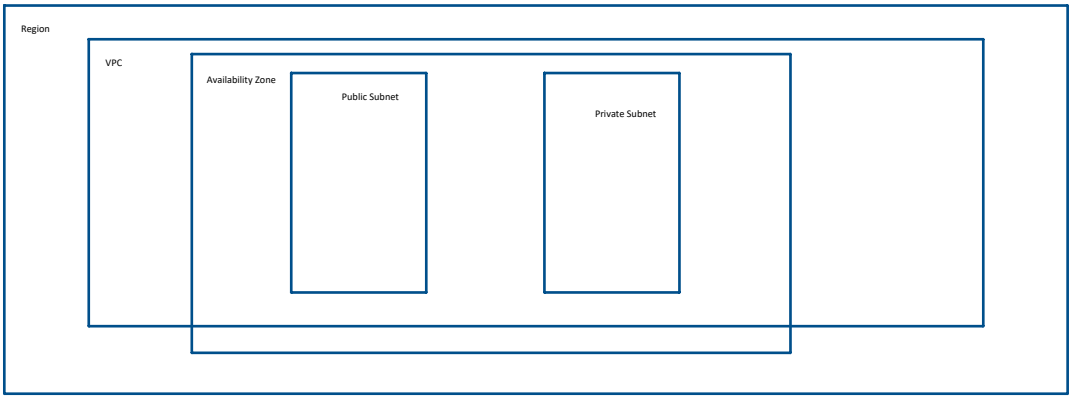
192.168.0.0/28 ----> allow 16 ip address ---> 192.168.0.0 --- 192.168.0.15

192.168.0.0/16 ---> 65,536 different IP Address ----> 192.168.0.0 --- 192.168.255.255

Private IP VS Public IP -----

Private IP ---

10.0.0. - 10.255.255.255 ----> 10.0.0.0/8 ---> Big Network
Default VPC in AWS ---> 172.16.0.0 --- 172.31.255.255 (172.16.0.0/12)
192.168.0.0 - 192.168.255.255 ---> Home network (192.168.0.0/16)



Use Case -----

1. VPC --- CIDR
2. EC2 Instance --- Load Balancer (Auto Load Balancer), AutoScaling (Threshold Scale-out or Scale -in)
3. S3 Bucket ---- Lambda --- SQS --- SNS (Email or Notification services) ---(File you upload or delete or any modification)
4. Redshift --- Connector with Glue, Glue Crawler, Glue Data Catogue
5. 1.Glue --- ETL ETL JOB 2. Appflow
6. Athena --- Query into your redshift
7. Route53 (optional) [Because of Charges] ---Define DNS Name
8. Cost Management Service --- Alarms ---- Thresold - 500rs. --- 70% send the mail, 90% send mail