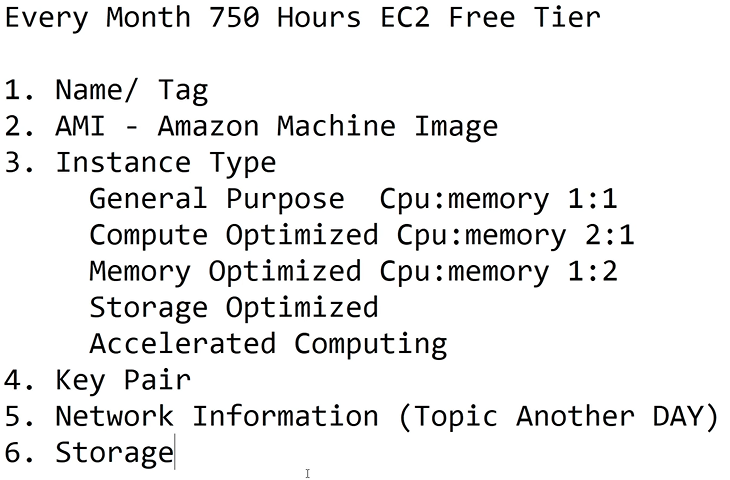
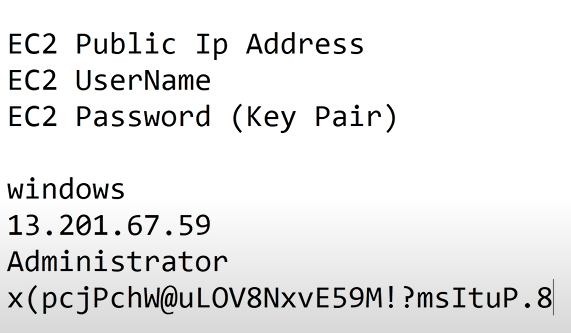
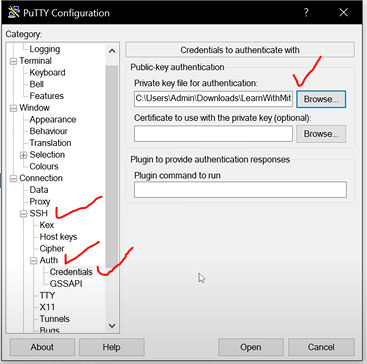
**PART-1 --> Intro to AWS EC2**



* **Windows -Remote Desktop Connection**



* **Linux Putty connection**



* In putty up right click change settings --> Appearance change font size 14 bold -->colours use system colours apply.

**PART-2 --> How to host a website in aws ec2.**

* **Ec2 --> Elastic Compute Cloud**
* Product based:- own product --> working for own company
* Service based:- working for another company
* Linux --> MobaXterm

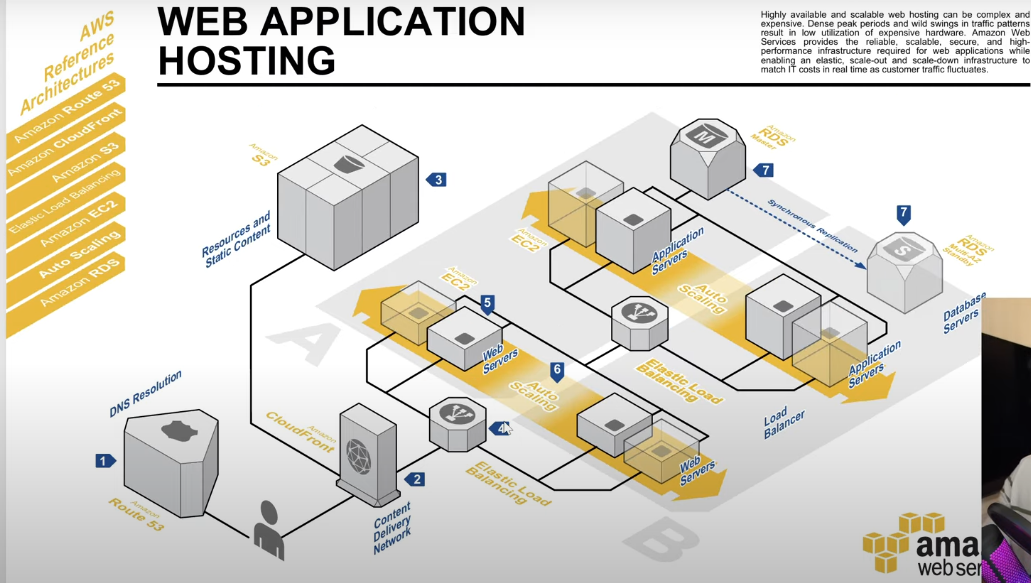
**Website ?**

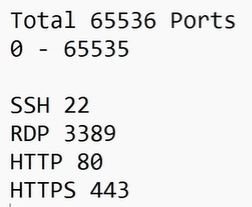
* Static website --> same content for all --> front end only
* Dynamic website --> different content to person to person --> Flipkart, Amazon, facebook, Instagram --> full stack development

**Tech Stack ?**

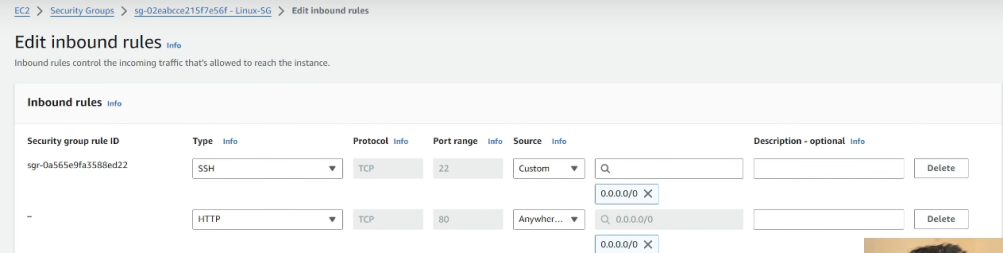
* Front End --> Html, css, Javascript
* BackEnd --> Python
* Database --> MySQL

**Three tire architecture?**





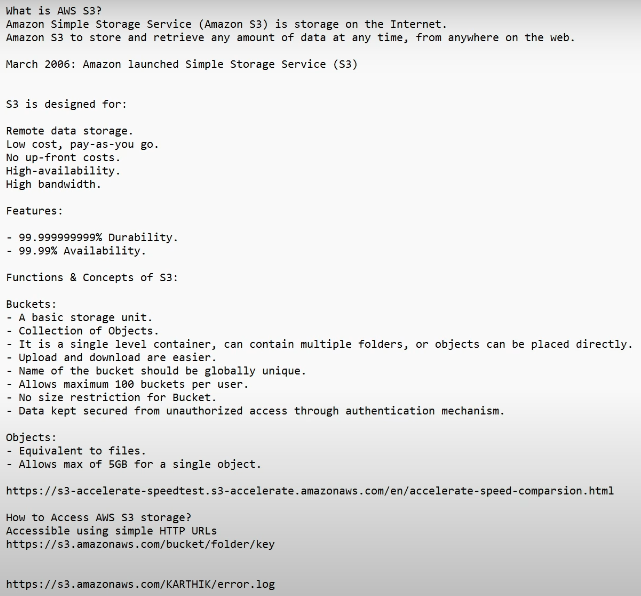
* Software Linux --> Apache httpd
* Software Windows --> IIS
* Windows to windows file transfer --> copy and paste
* Server Manager in virtual ec2 machine.
* Add Role and feature --> next --> next --> next --> web server(IIS) --> next --> next ….. --> Install
* In Window server --> C:\inetpub\wwwroot --> copy and paste
* In linux start with ec2-user
* Sudo su - root --> sudo su - --> switch to root user
* Yum install httpd -y --> in ubantu (yum - apt)
* Exit --> from rootuser to ec2-user
* Windows --> linux (WinScp) --> download in goggle
* To edit instance :- security groups.in ec2



* Service httpd status --> to check apache status
* Service httpd start --> to start apache server
* Vi index.html --> right click --> data enter
* chmod -Rf 777 /var/www/html/ --> permision to all
* In Winscp --> public ip, username, password --> advanced --> Authentation --> private key --> ppk file .
* Sudo su - root
* Cp -r /home/ec2-user/\* /var/www/html/ --> -r means copy directories recursively --> from ec2-user to html folder.

**PART-4 --> S3 Buckets and Objects**

* **S3 --> Simple storage service**



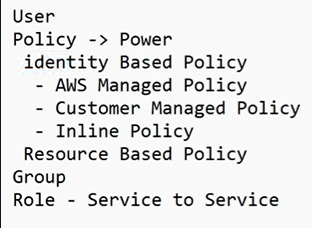
* Amazon S3 --> Store and retrieve any amount of data from anywhere.
* **Features** --> High Available -->Unlimited data in s3 bucket

**limitations**

* Per aws account you can have 100 buckets
* Single file cannot be more than 5TB
* 15GB free in s3
* Bucket name globally unique
* Bucket --> logical group
* Object --> file and folders
* Interview question:- If I delete a file from an S3 bucket, is it possible to retrieve it?
  + Yes, it is possible to retrieve a deleted file from an S3 bucket if versioning is enabled.  
    If versioning is not enabled, the file is permanently deleted and cannot be recovered.

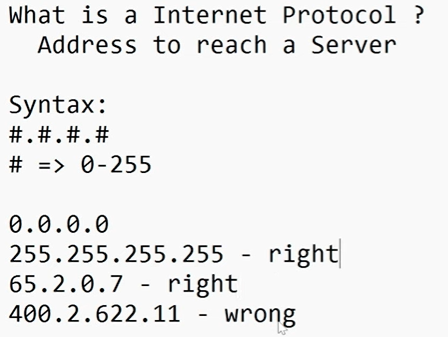
**PART-5 --> IAM Users, Groups, Roles & Policies:-**

* IAM - Identity and access Management

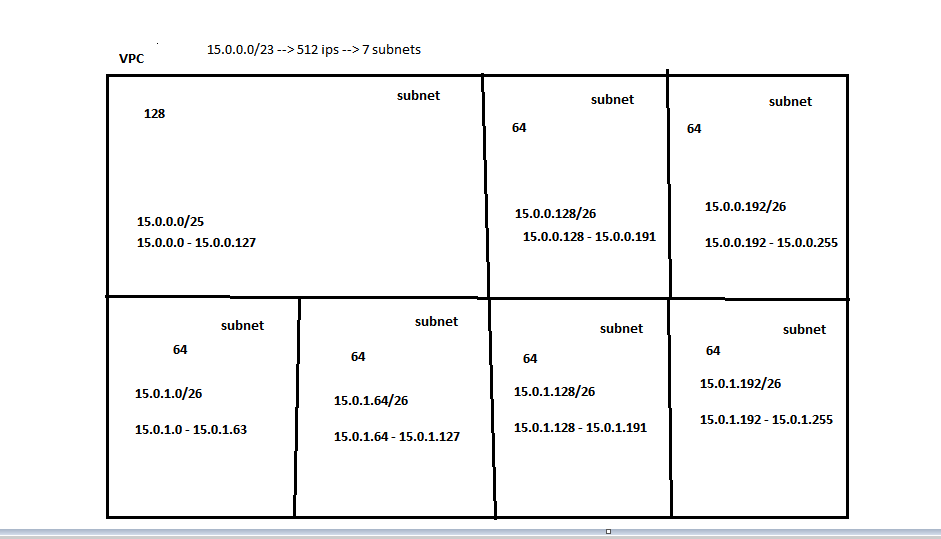
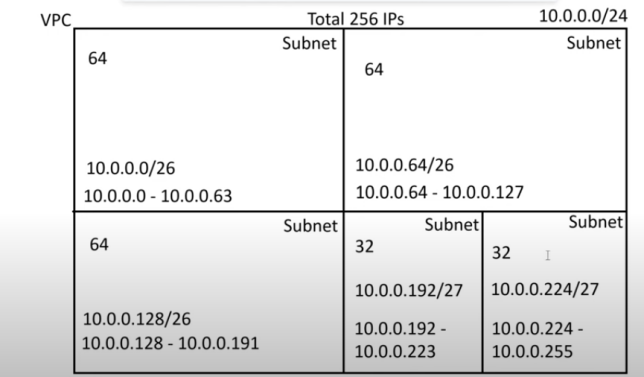
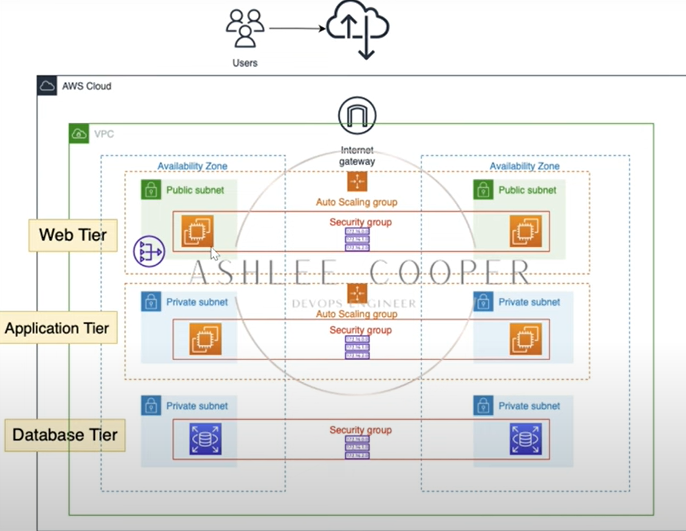


**PART-6 --> VPC-Public and private IP, CIDR Range:-**

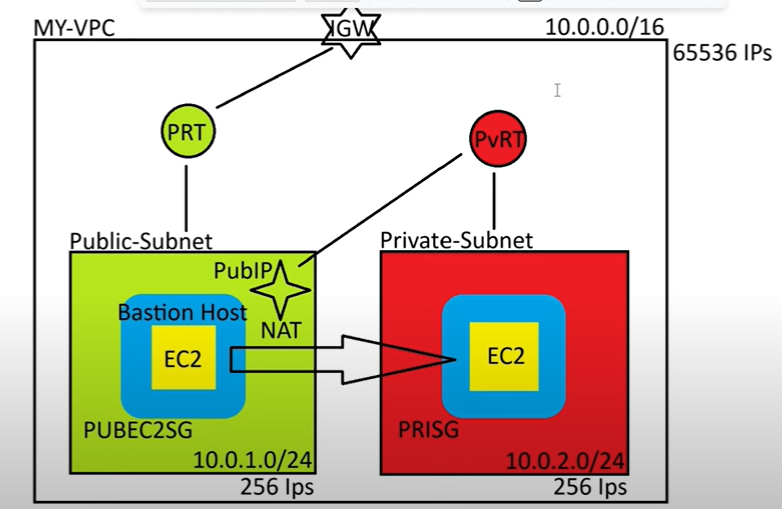
* VPC - Virtual Private Cloud



* 10.0.0.0/24 --> 10.0.0.0 - 10.0.0.255 (Total 256) --> 32-24=8 --> 2\*\*8 -->256 ips
* 10.0.0.0/23 --> 10.0.0.0 - 10.0.1.255(Total 512) --> 32-23=9 --> 2\*\*9 -->512 ips
* Public ip: reachable from internet
* Private ip: used within our office network



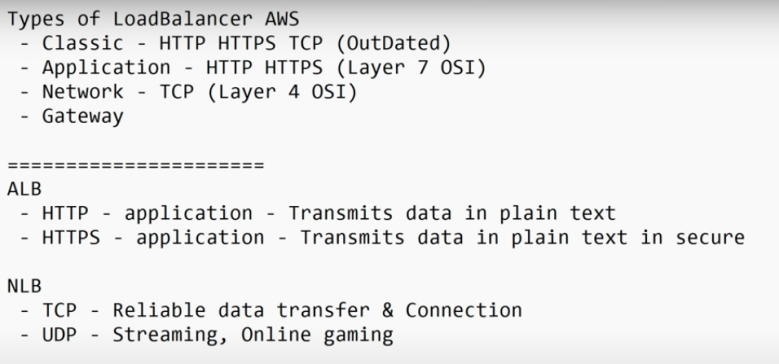
# **PART-7 --> Build AWS VPC Subnets Route Table Internet Gateway & Nat Gateway:-**



# **PART-9 --> Master AWS Load Balancers & Auto Scaling Groups:-**



# 



# **PART-10 --> Relational Database Service (RDS)**

* df