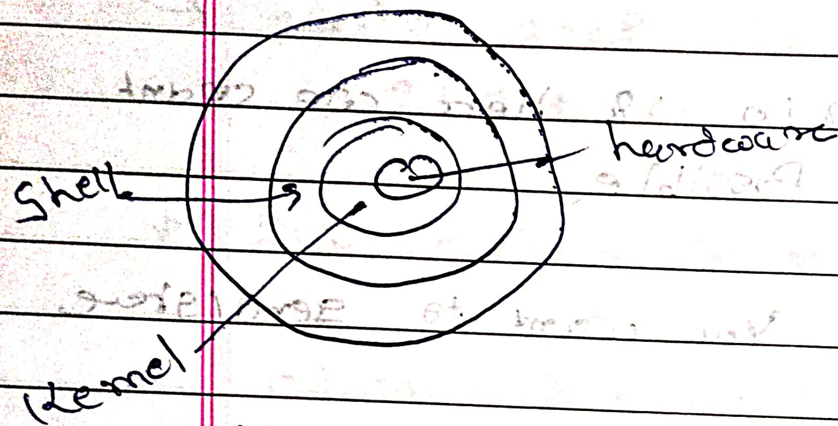
* SSH - secure shell



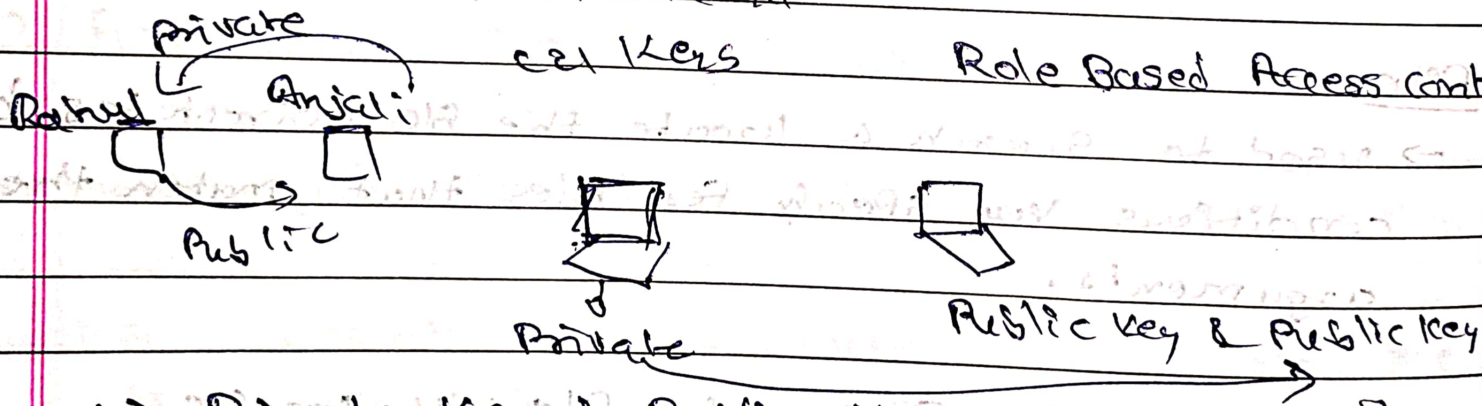
→ If a way you can securely reach shell then shell will tells Kernel & Kernel will tell hardware.

You can directly connect to shell or you can access it

Two ways (1) username, Password

(2) keys

Role Based Access control (RBAC)



→ Private key & Public key match or not.

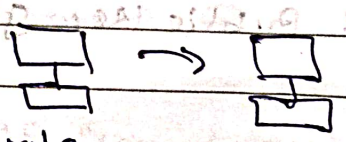
Date: / /

ssh

Keys

Private → Private Key should be there in your system so that you can connect to that server.

Public



[ssh-keygen] This command is used to generate key pair.

* SSH client

Go to your computer (OpenSSH client for windows)

→ Go to computer type ssh then ssh --version

→ locate your private key file.

→ key used to launch the instance

(linux-for-devops.pem)

Find - /Downloads -name linux-for-devops.pem

Run this command, to ensure your key is not publicly viewable

ls -l linux-for-devops.pem

current - rw- r-- r-- Permission

chmod 400 linux-for-devops.pem

Connect to your instance using Public DNS

ssh -i "linux-for-devops.pem" ubuntu@ec2...

-i is file path to your pem file.

→ when you write exit connection is closed

ssh is on Port 22

SCP

(behind the scenes)

Ssh-keygen command is used when you generate Key Pair in aws

→ when you click on create key pair Private key is to us & public key goes to server.

→ without changing permission of pem file when you try to connect it will give you warning that Private key file is unprotected

Private key file permission 400 - only for user read permission

→ bash is a type of shell

→ Terminate means all the data will be lost & stop means stop the instance.

→ As you done secured shell you can also do secure copy

ssh -i "linux-for-devops.pem" ubuntu@...
Pem file System

-> Here important thing is your pem file and system address & the file you want to copy.

Secure copy: scp -i "linux-for-devops.pem" ubuntu@... : Path to copy

↓

scp -i "linux-for-devops.pem ubuntu@... : ~~/home~~ /home/ubuntu/muzedaar/devops/aa-filtered.log

=> copy to this location shows dot.

→ If I want to share something from system to server then

scp -i "linux-for-devops.pem" jenkins-Dz.pdf ubuntu@... : /home/ubuntu/mazedaar/devops/

→ If you want to share the commands that you used then you can locate that in .bash_history folder which is hidden
Home
Bode directory

ls -la where you can locate .bash_directory
location : /home/ubuntu
Your system mkdir history_batch4
So for that

scp -i "linux-for-devops.pem" ubuntu@... : /home/ubuntu/.bash_history

cd history_batch4/
ls -a
cat .bash_history

ls -a : used to list hidden files
ls -la : shows hidden files in long format

* Systemctl

If our system there is a Controller which controls which Processes are working or not
working.

in Docker

docker PS = used to display a list of running containers,

sudo apt, docker.io
install

If you want to check if a service is running or not in that case

systemctl status docker

↳ Inactive (Dead)

Start stop reboot restart

sudo systemctl start docker

systemctl status docker

systemctl status ssh - till ssh service is active you can do / access ssh

sudo systemctl stop ssh