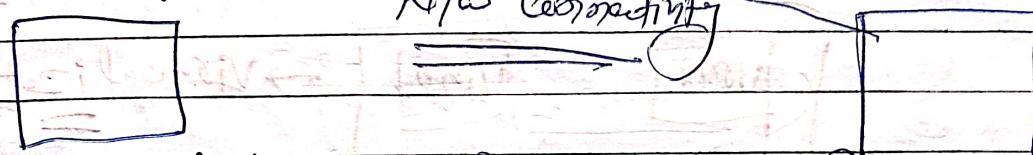


Session - 12

* 28th → Agenda

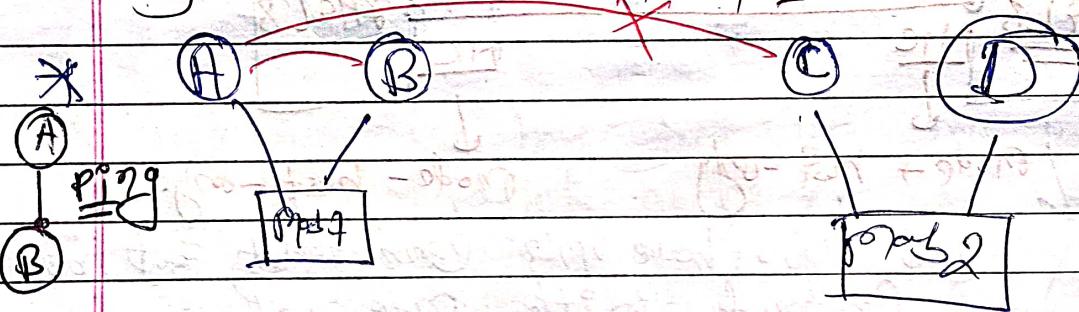
* A → B.



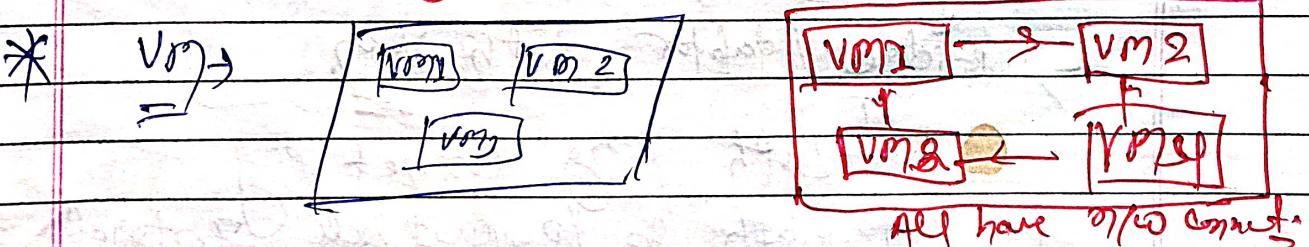
Connectivity $VM(1) \rightarrow VM(2)$

① Cable bridge adapter

* If you want to connect with mobile phone just enable hotspot.



① A can't able to connect ping C by first rule of connectivity is physical connectivity (wired or wireless)



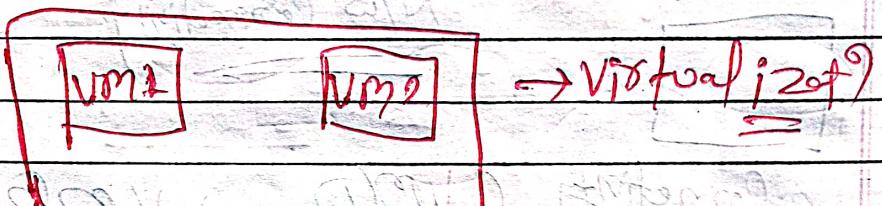
* Close VM1 → create VM2, VM3
Just close only.

* Every n/w card has hardware address i.e. Mac address.

* Don't tick to reinitialize Mac address.
(give new ip) (help us to get ip add)
Add (by dhcp)

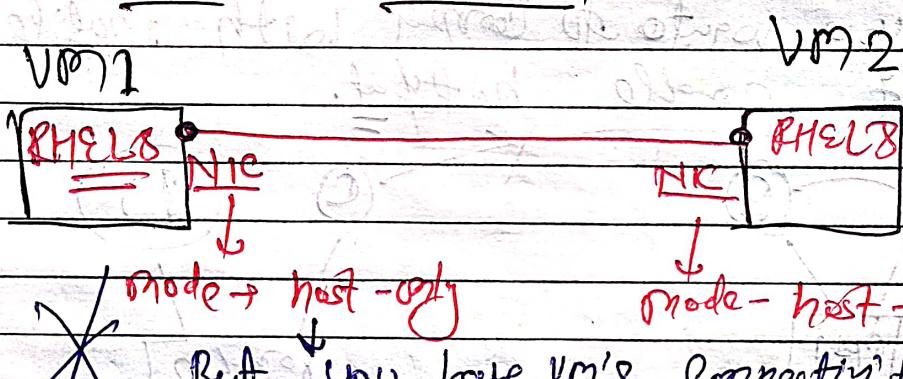
* Regenerate Mac address.

* Some book say we have two VIFs



→ Base / host Nic → Bridge

* Connect b/w two VIFs



But you have VM's connectivity but not connect with internet.

→ for this we need bridge Adapters.

host-only

→ Bridge Adapter for both VIFs.

→ both VIFs connect to bridge

→ both go to outside port of bridge

* we required outside wireless hub for bridging.

NIC

↓ bridge

Limited no. we need
One wireless

hub.

bridge hub

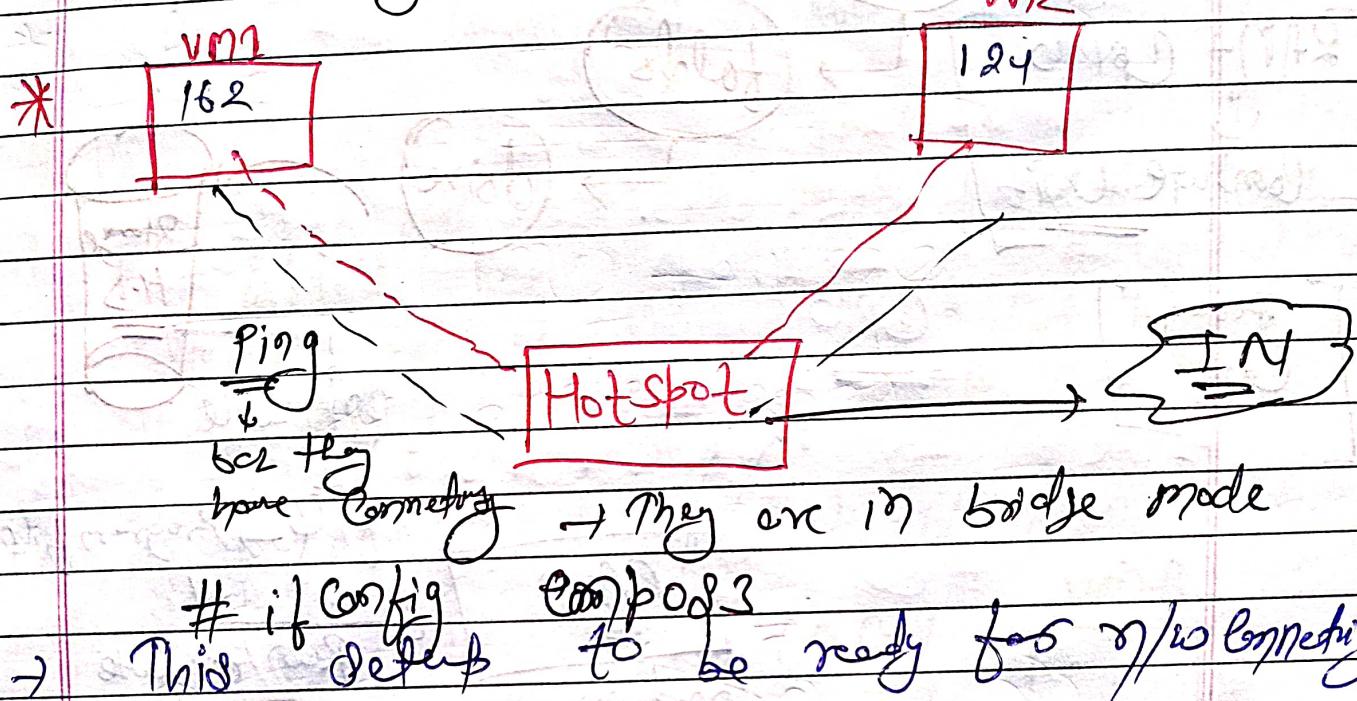
Hotspot

DHCP

→ IP Addr.

Without this bridging won't work.

- * Both VM have same n/w Setup both \rightarrow host-only or bridge adapters.



- * Till now we have two VM, now we want to do SSH, remote access \rightarrow

VM1 \rightarrow # date (These cmd's run locally)

VM2 \rightarrow # date

VM1 \rightarrow # cat

VM2 $\xrightarrow{\text{SSH}}$ VM2

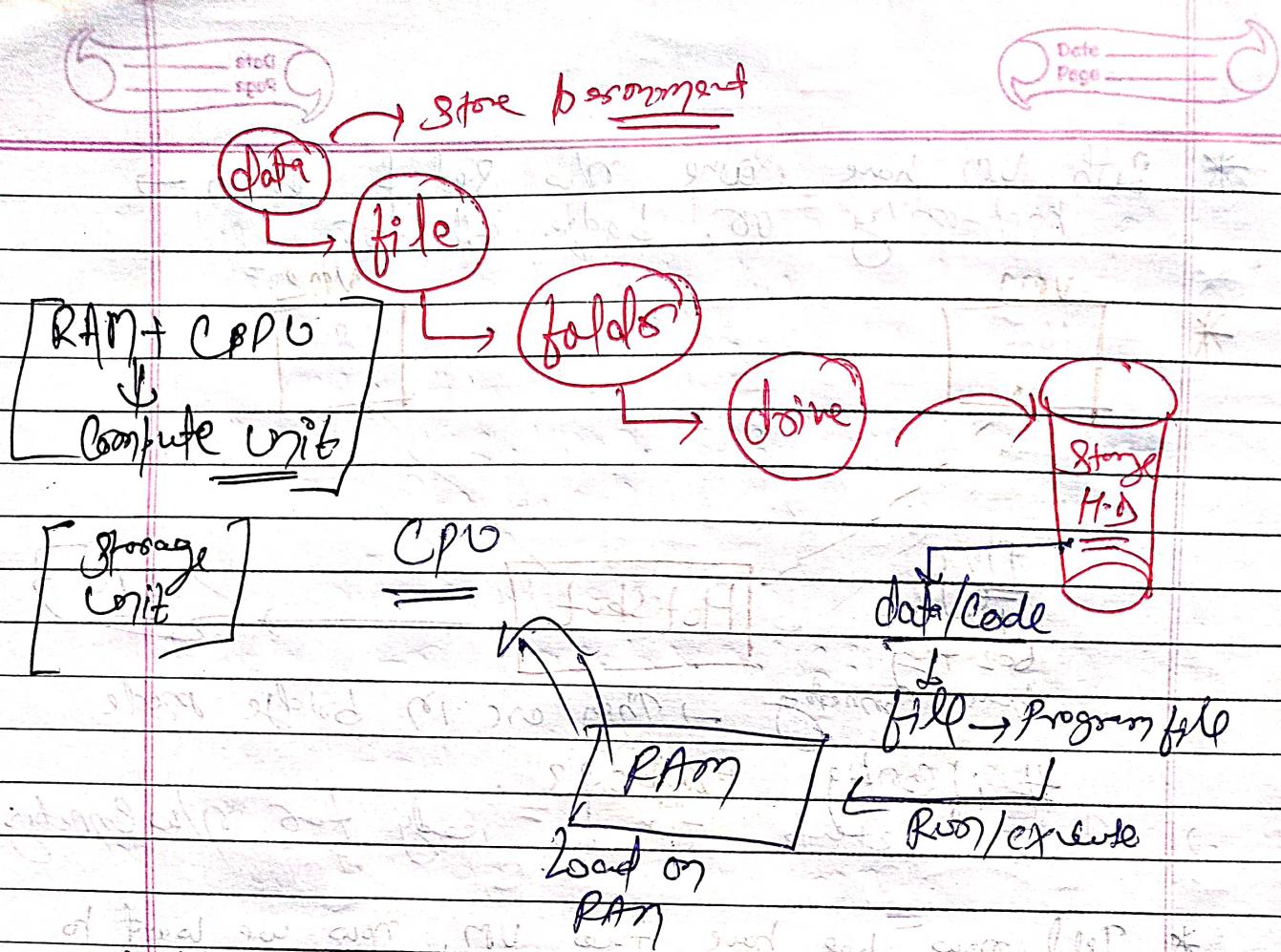
ssh 192.168.0.162. date

password: - - -

this cmd run in after VM.

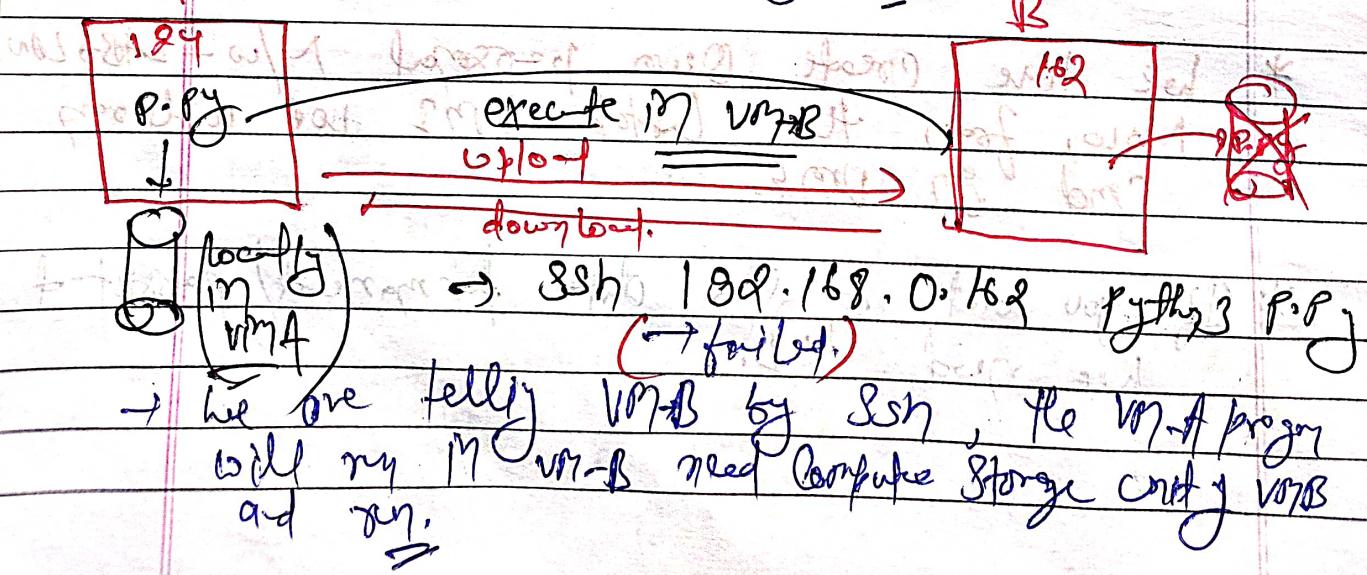
- * we have create our personal N/w \rightarrow LAB \rightarrow LAN
Now, from this laptop VM2 loc wall on
CMD in VM2.

- * If you want to store data permanent/persistent
we need H.D.



* When we run any program that is not in local we put it in done then plug that done it become one drive then post y storage then we can run/execute that program.

* We have two V.P → We want to execute =
this program P.Py in VM-B by ssh.

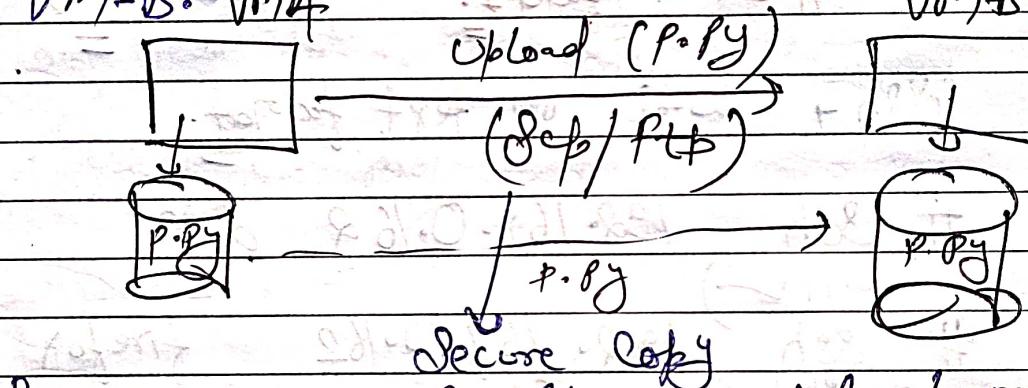


[SSH for the program]

Date _____
Page _____

- * Upload: Upload my file to other system.
download: get file from other system to local my system.
- * If we run the program that is available in VM-A & try to run that in VM-B, failed via SSH → It failed bcz they belong to Local Computer & Storage Unit of VM-B but that program is not stored locally in VM-B.

- * First put that (P.py) file from VM-A to VM-B. VM-A



- * By SSH we can't copy file from one system to other system, other system may execute program that program is there available in VM-B. Once data both have same command
Transfer file → VM1 → (P.py) → VM2.

* # scp my.py 192.168.0.162:/root/
[upload file] ↳ locat

* Go to other system & see file file.

* Now, program run by SSH.

* # ssh 192.168.0.162 Python3 /root/my.py

SSH → Run program remotely.

SCP SCP → transfer file.

* # ssh 192.168.0.162:/root/2.txt /root/
[download file] (VM-2 locat) ↳ root locat

* he can download and upload files easily
by this card but he want to download
or upload folder.

scp 192.168.0.162:/root/fold1 /root/

(→ failed)

① → recursively.

scp -r 192.168.0.162:/root/fold1 /root/

cd fold1. (= download)

* ssh → work on text format.

ssh 192.168.0.162 date

run (→)

ssh 192.168.0.162 firefox

↓ failed (✗) (quit + no display forward)

ssh 192.168.0.162 firefox