

x x

x

.

x

x

x

STEVE CARR

VCP-510 or 550

100-500

Pass 300

BLUEPRINT

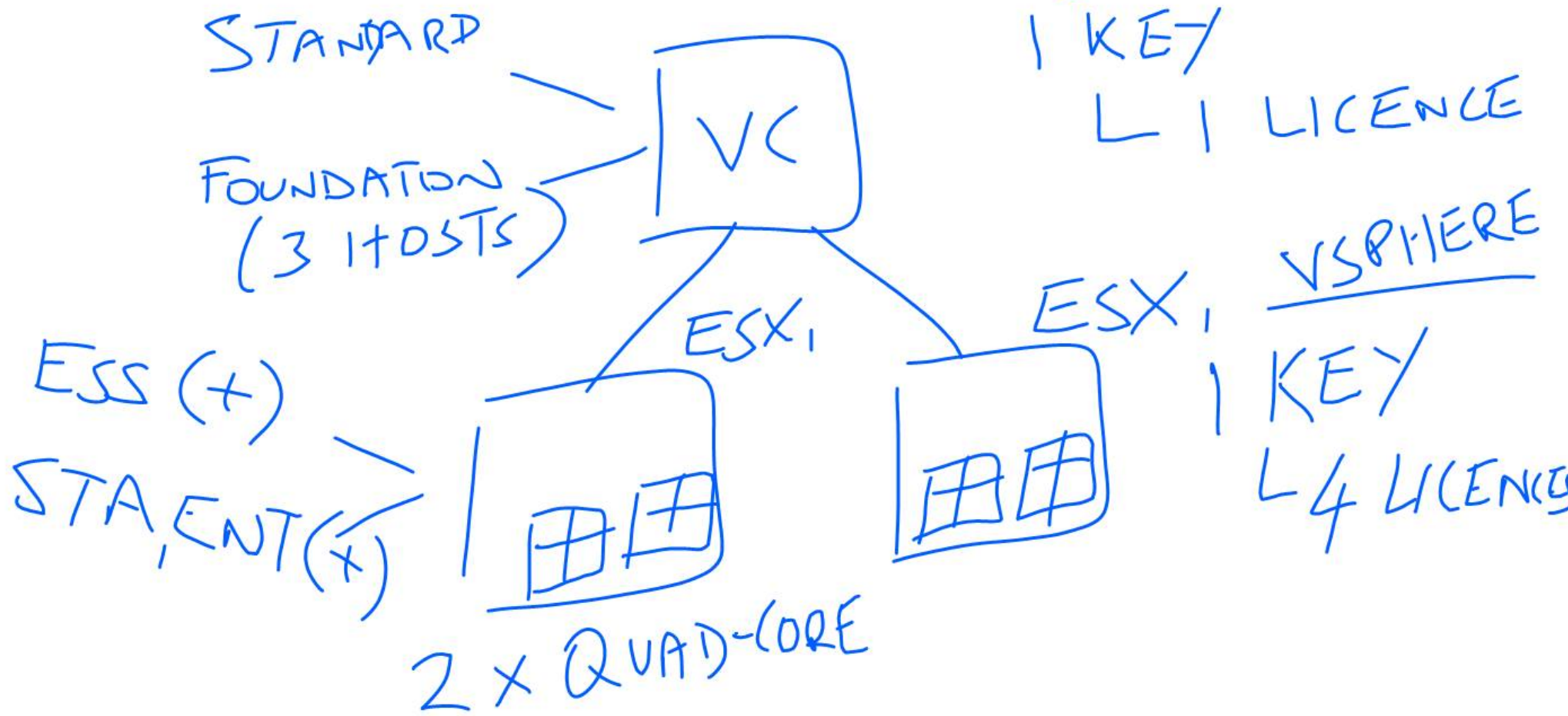
85 Qs in 90 mins

9:00 - 18:00

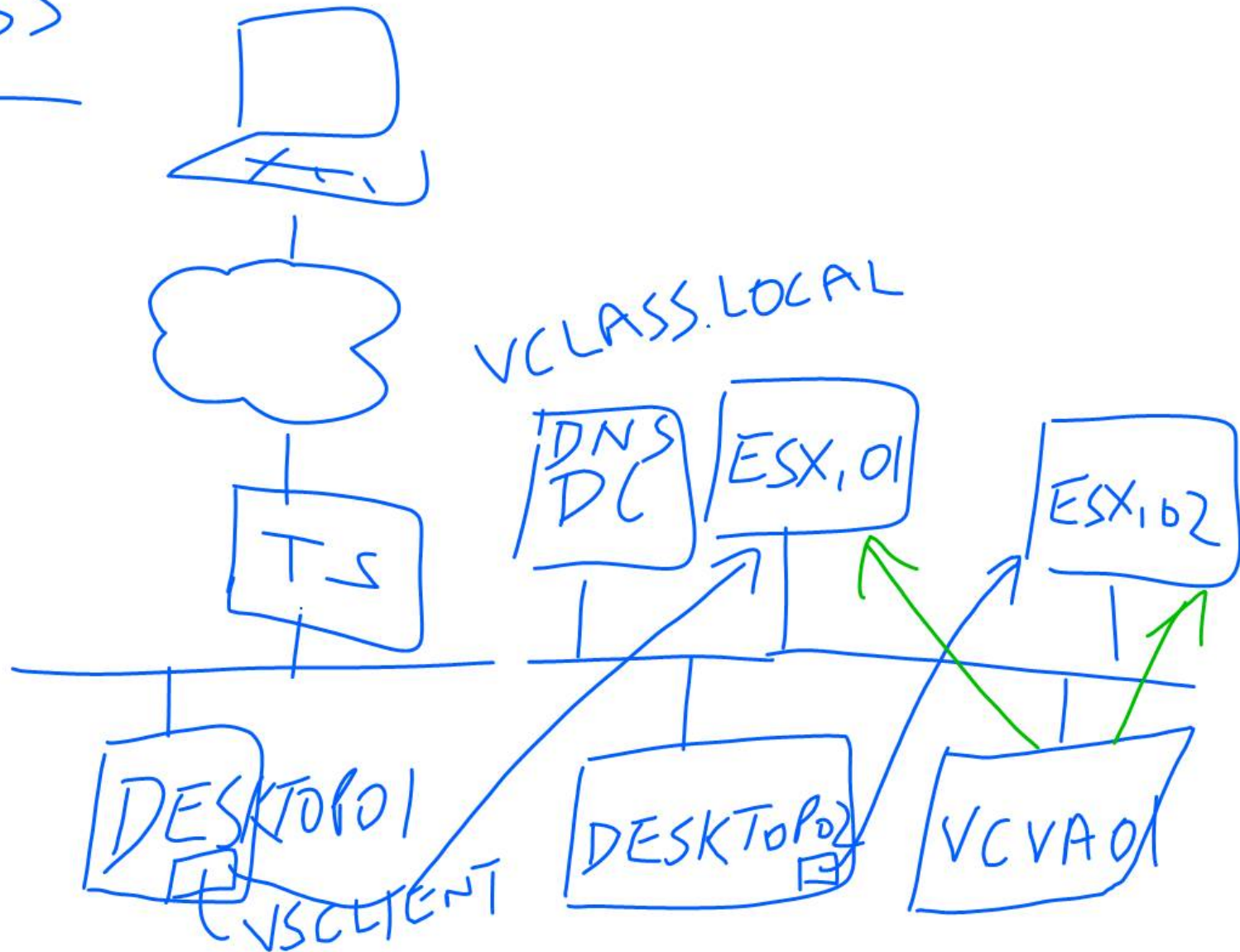
Breaks 15

Lunch 45 min

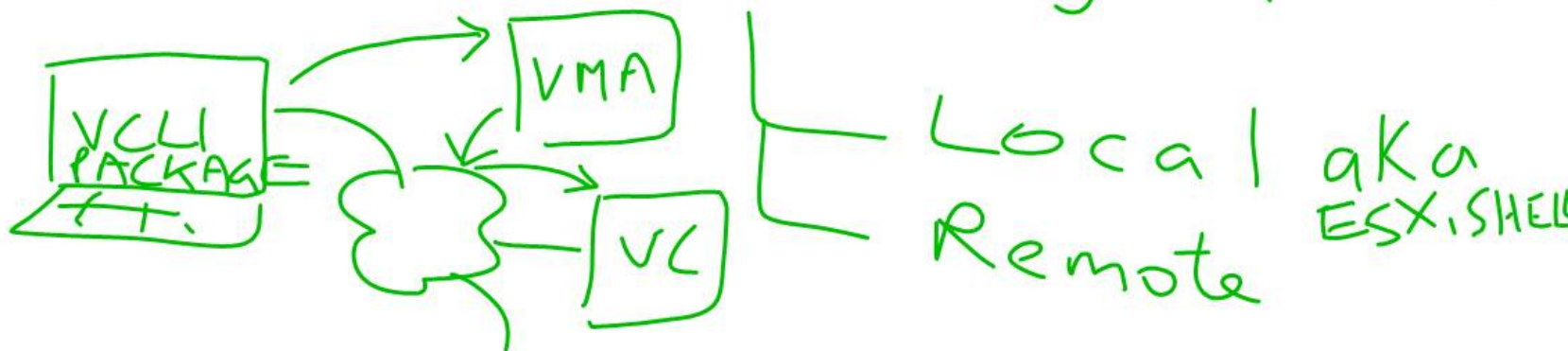
Licensing



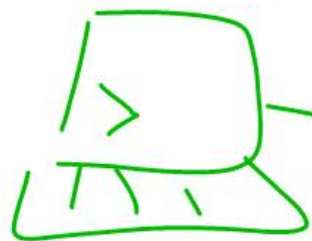
LABS



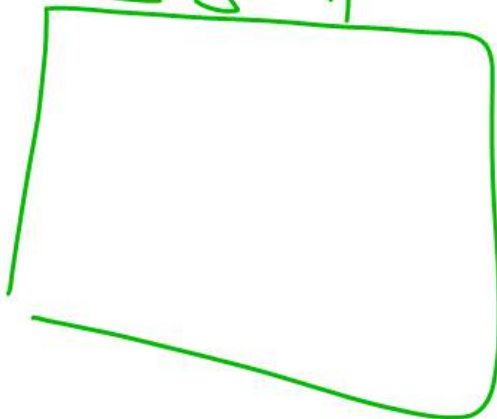
DCUI - Troubleshooting Options

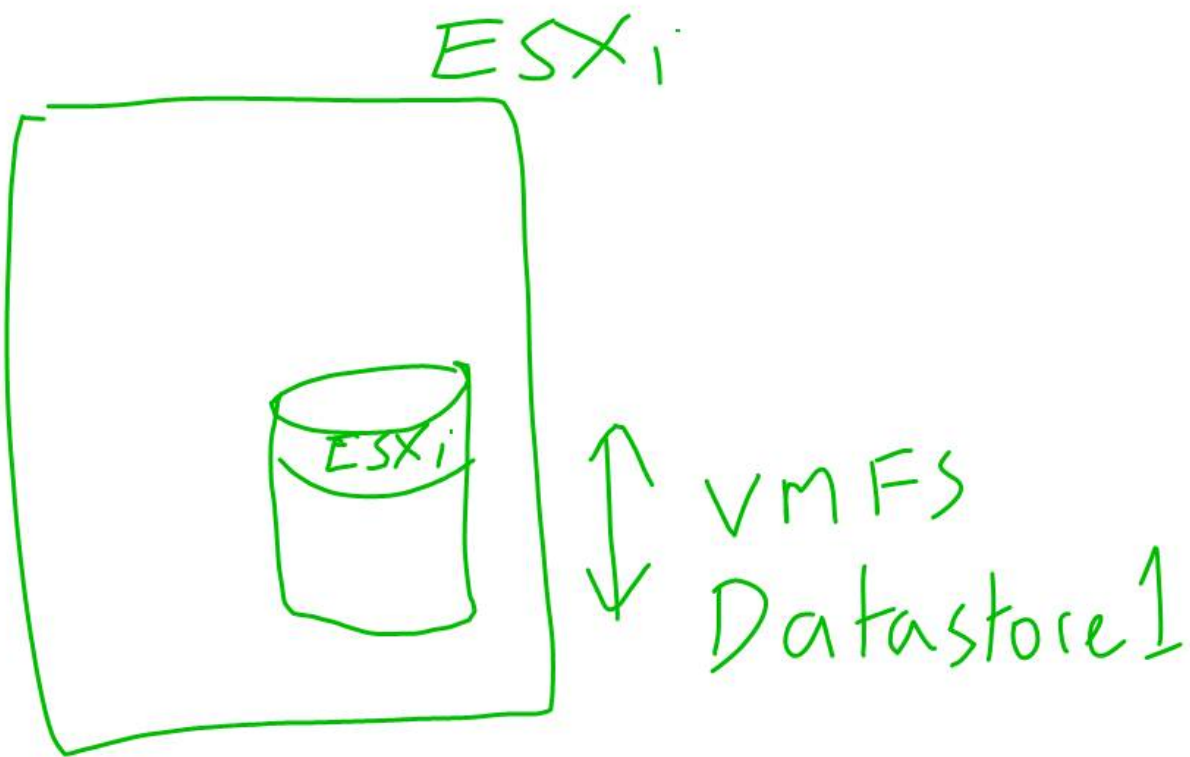


SSH (PUTTY)



ESX₁





ESXi-AD INTEGRATION

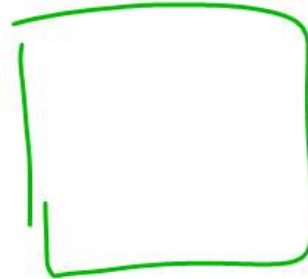
WINCLIENT



STEVE



ESXi



ROOT



AD



STEVE

VIRTUAL HARDWARE

V 8, 9, 10

64 vCPU

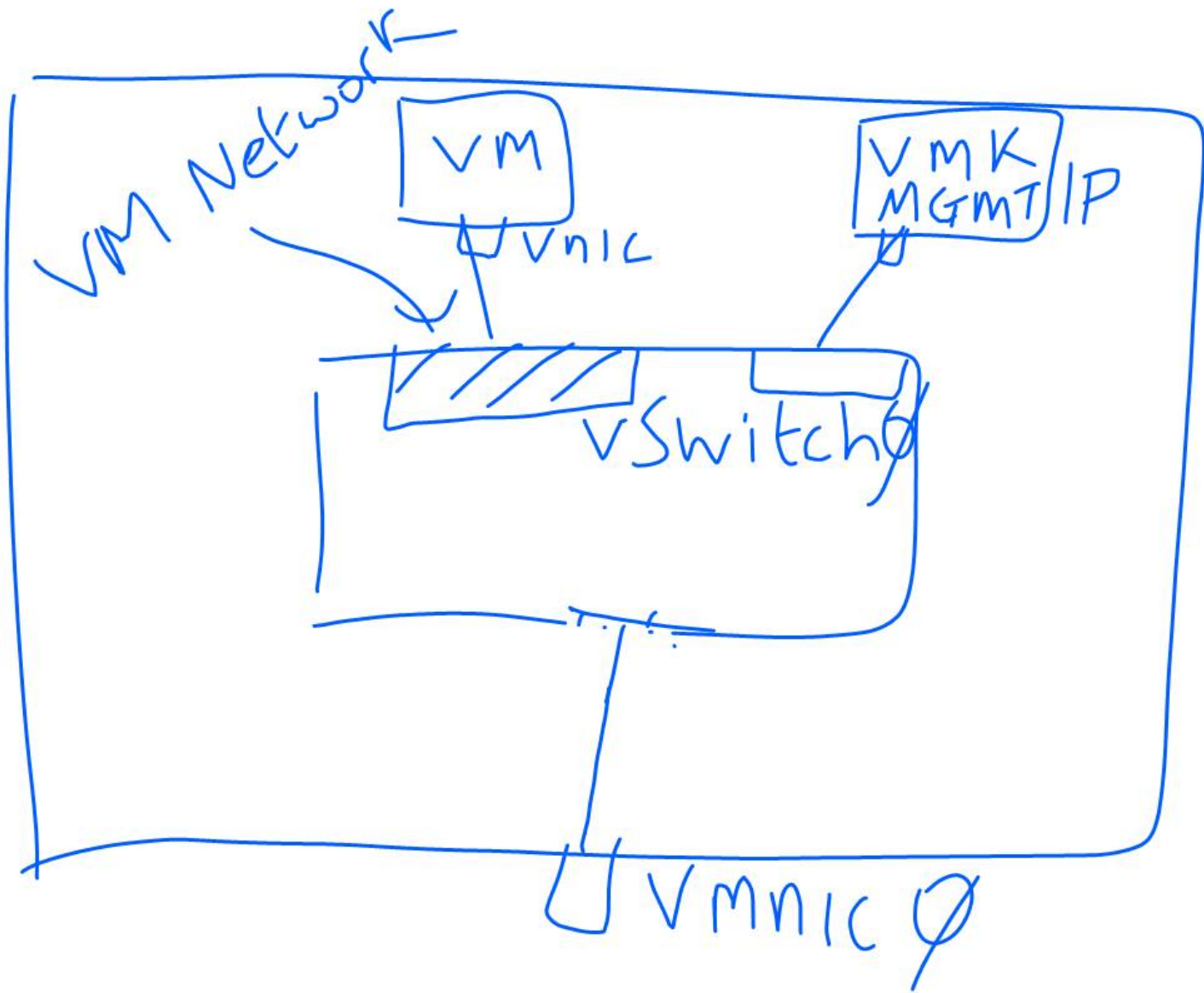
1 TB RAM

vGPU

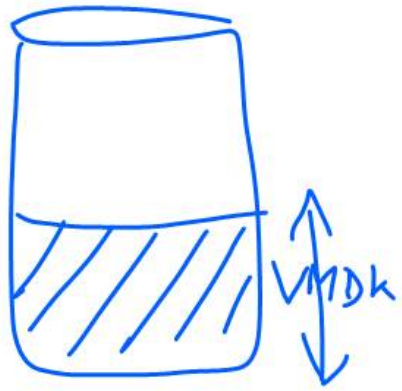
USB 3.0

VMDK 62TB

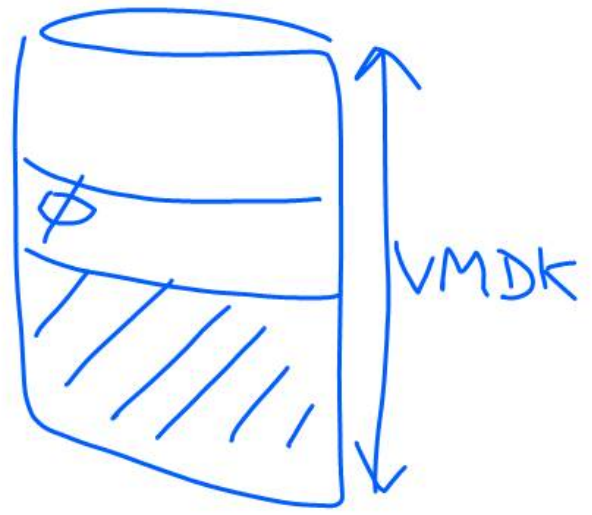
E1000e



THIN

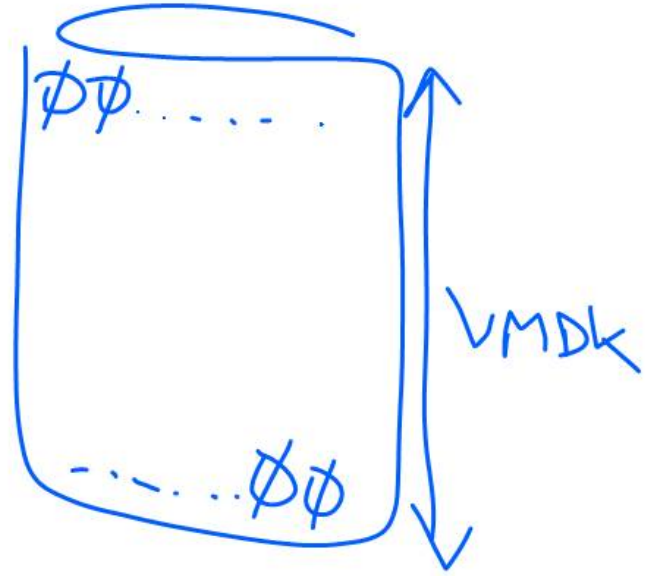


LAZY \emptyset

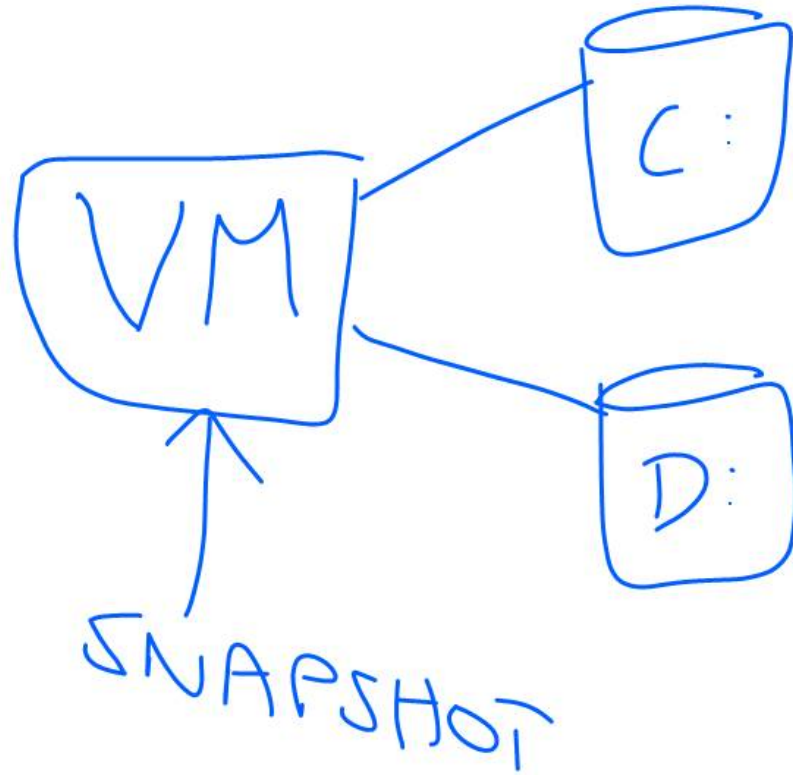


\emptyset ON DEMAND

EAGER \emptyset



PRE- \emptyset



OS - PATCH
DEPENDENT
(SNAPSHOTS)

DATA -
INDEPENDENT
(NO SNAPSHOTS)

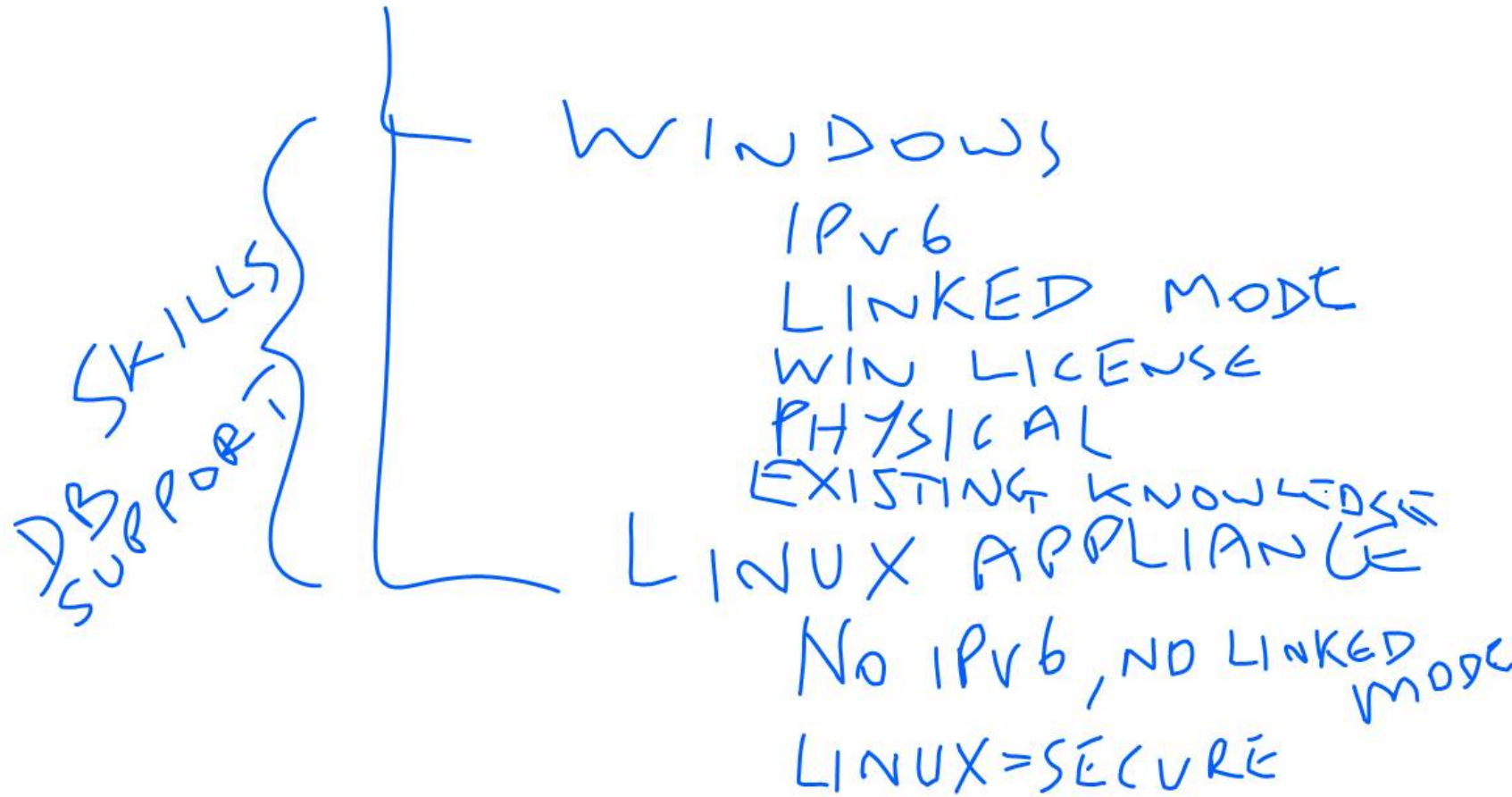


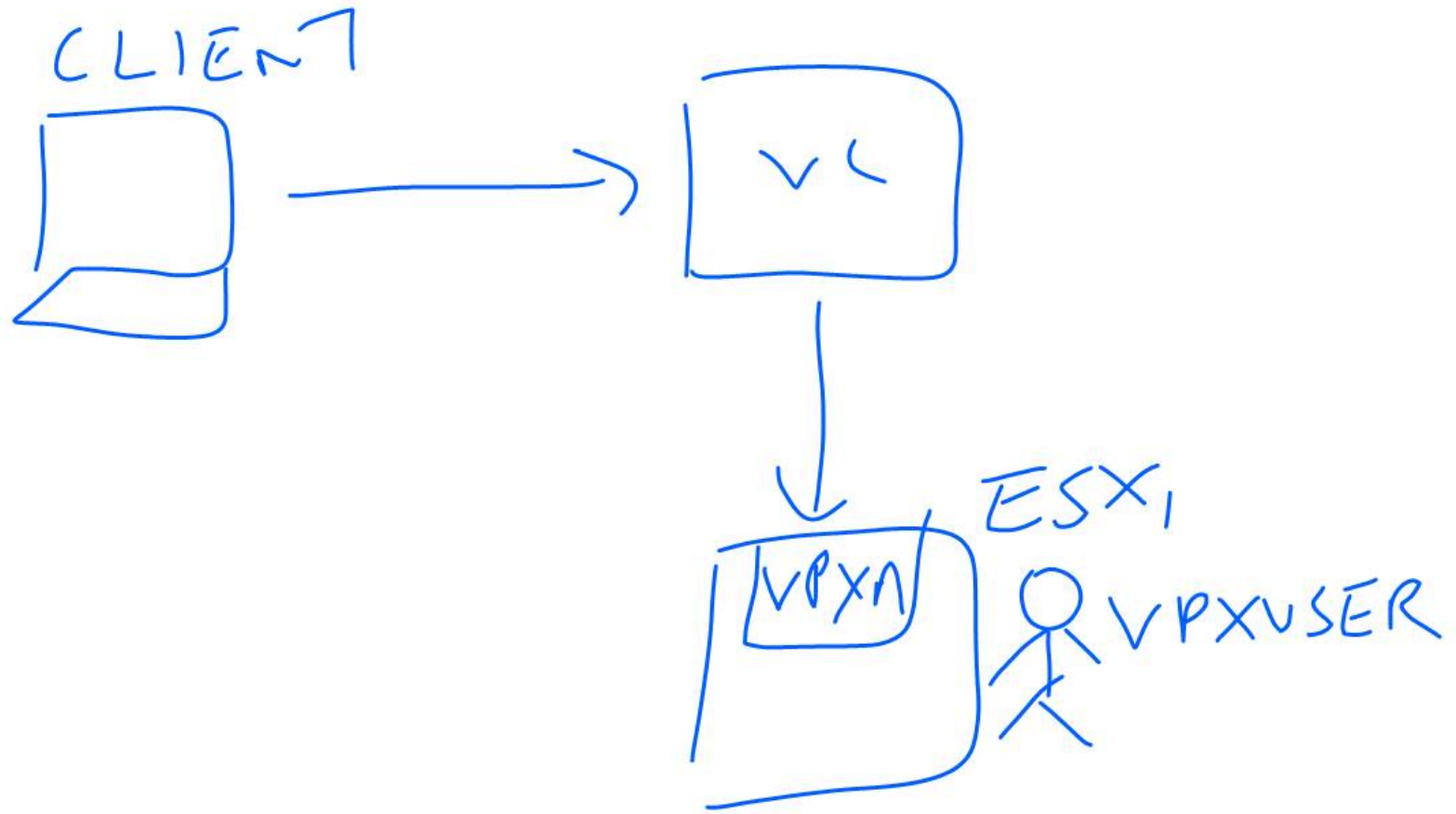
ESX,01

ESX,02

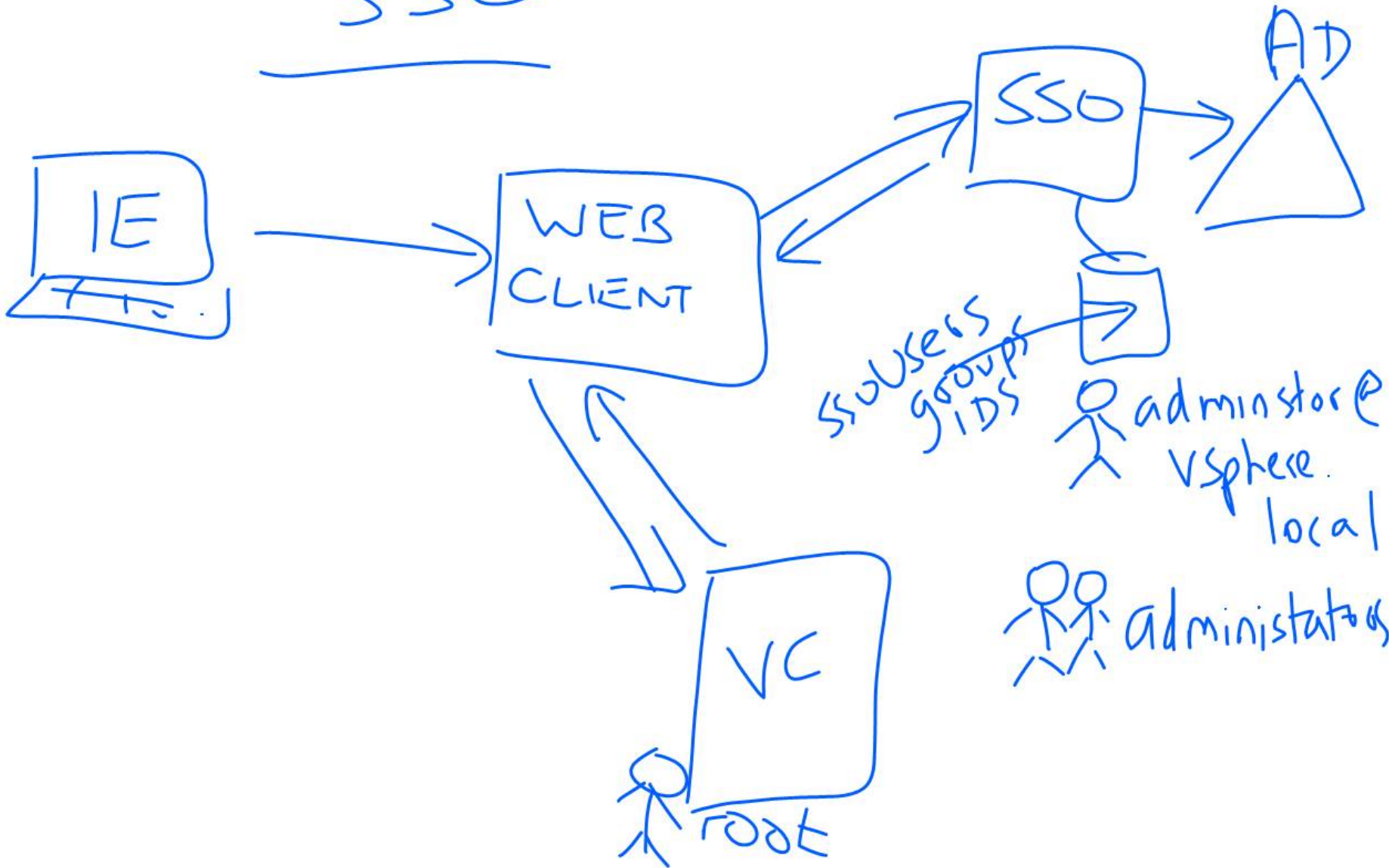
<https://vcva01.vclass.local:5480>

VCENTER

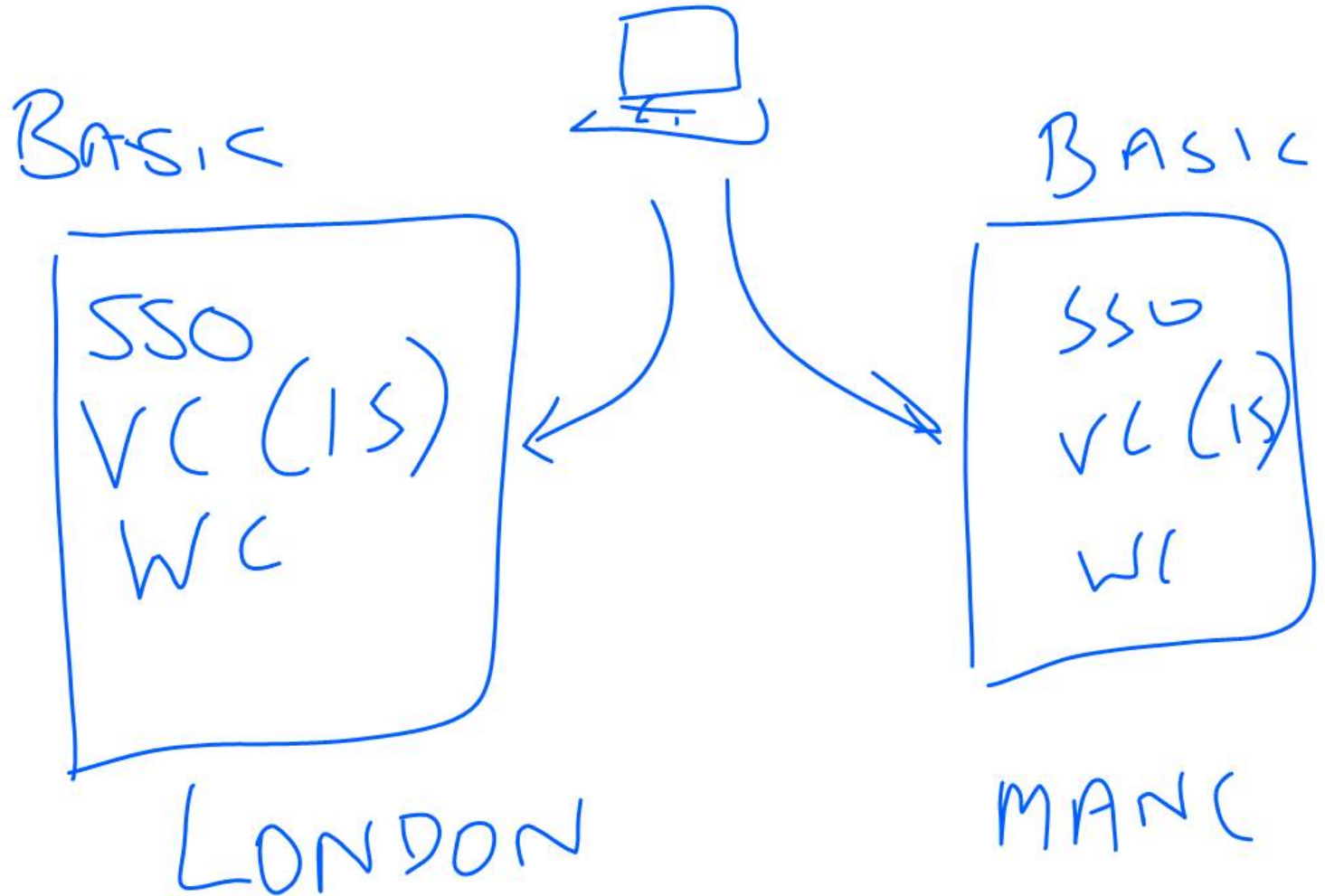




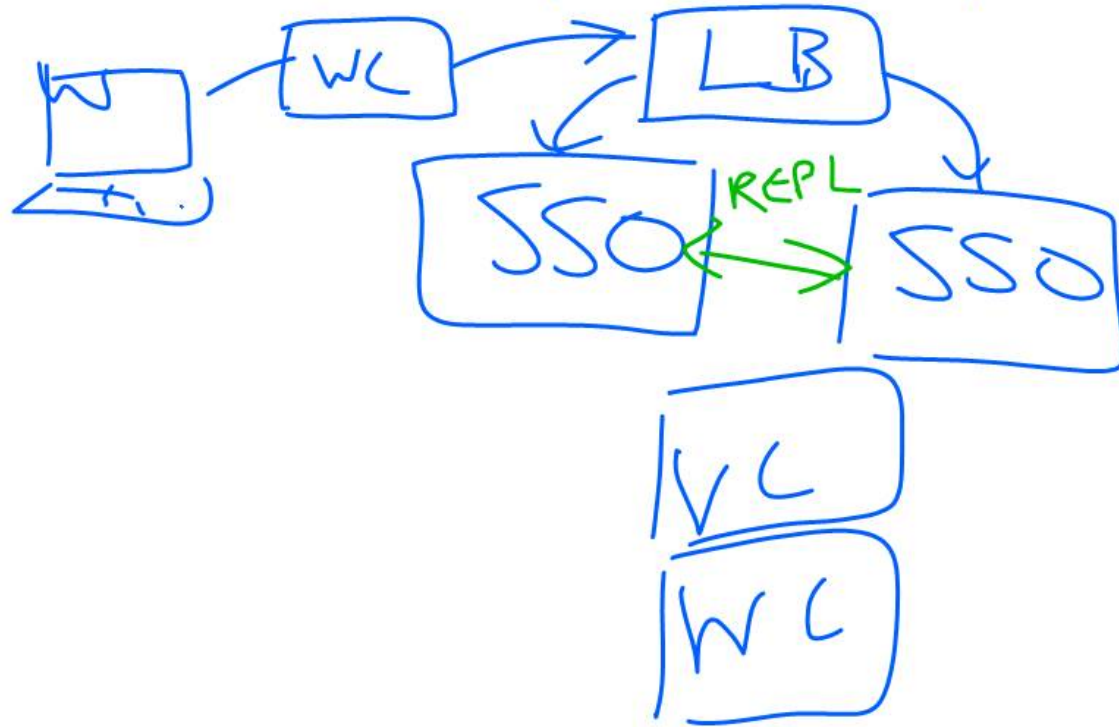
SSO



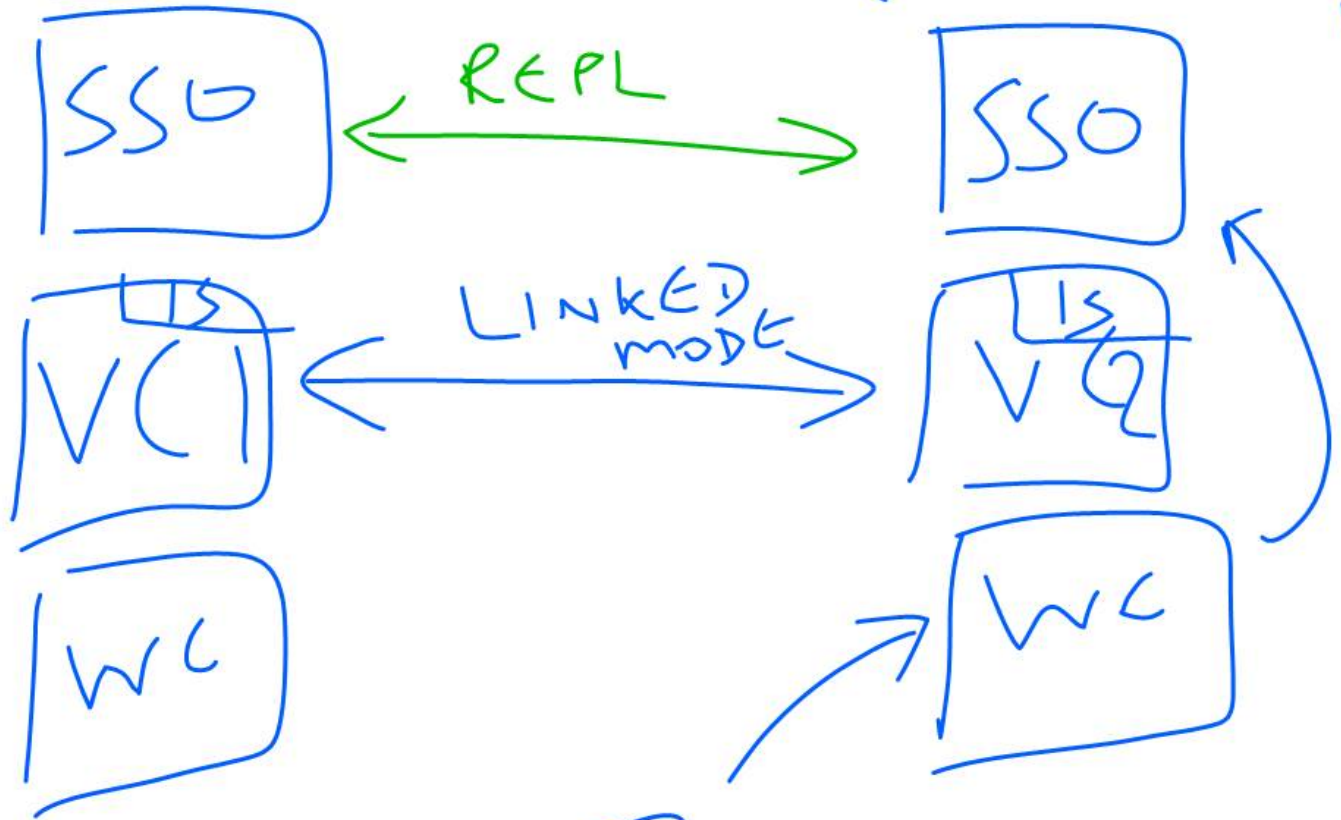
SSO DEPLOYMENT OPTIONS



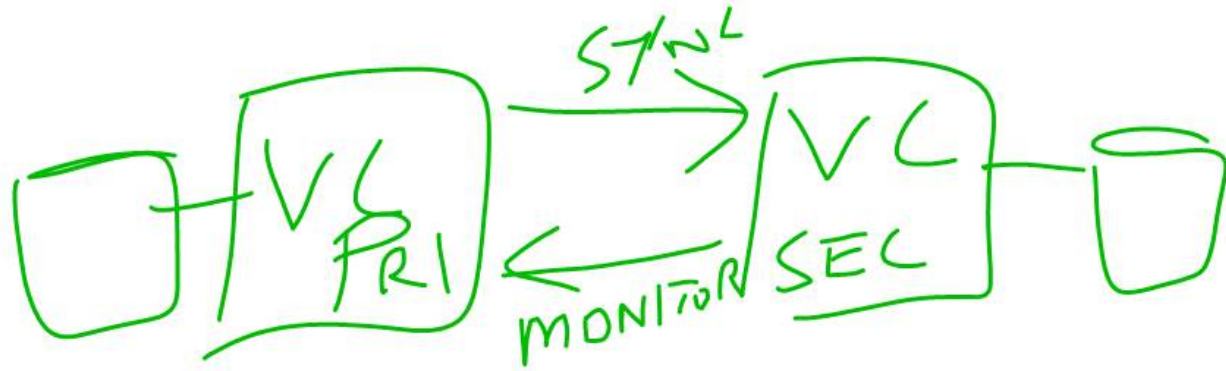
SINGLE LOCATION



SSO MULTISITE (REQUIRES LINKED MODE)

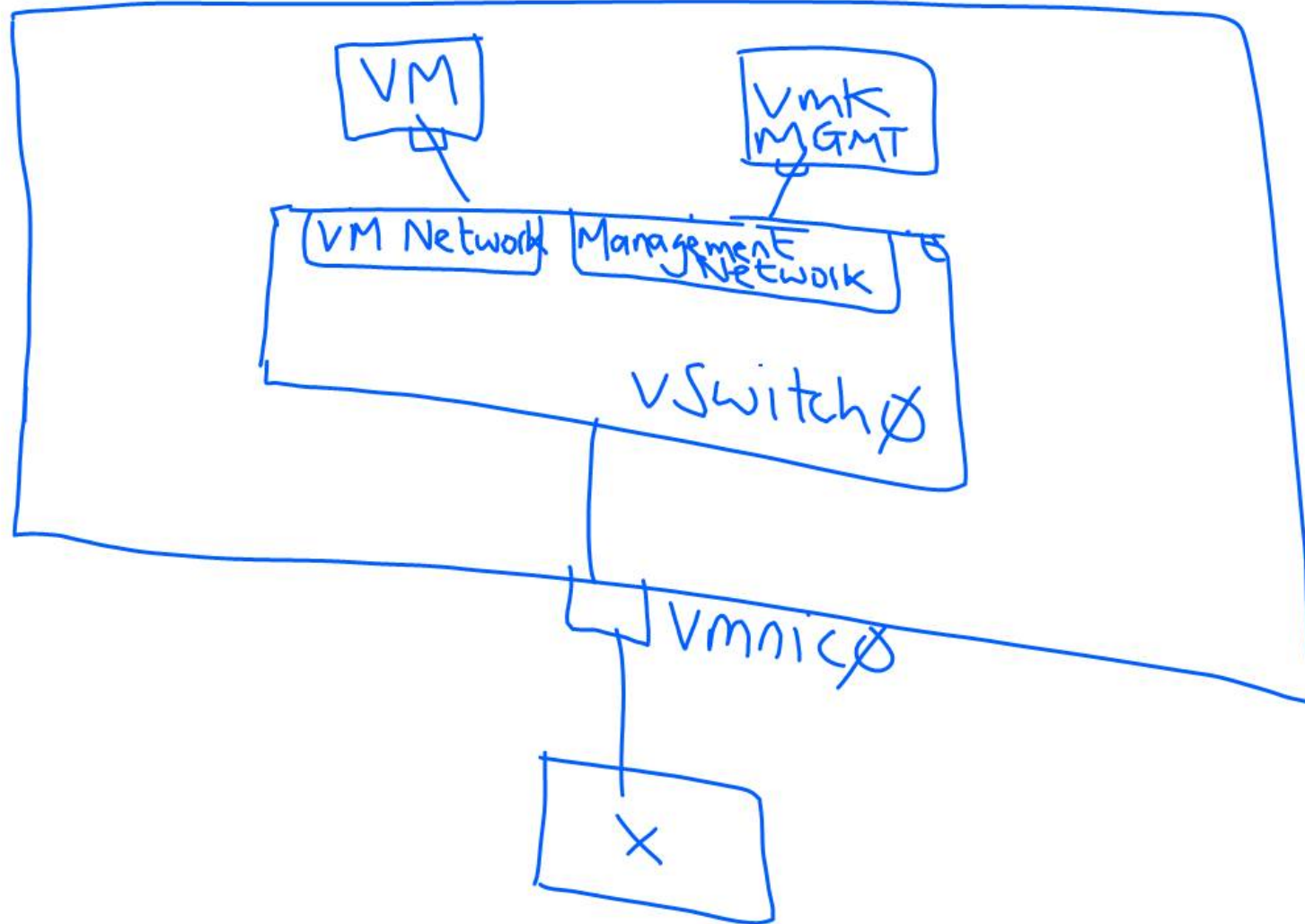


VC SVR HEARBEAT
IN $\geq 4 \cdot X$ WIN ONLY

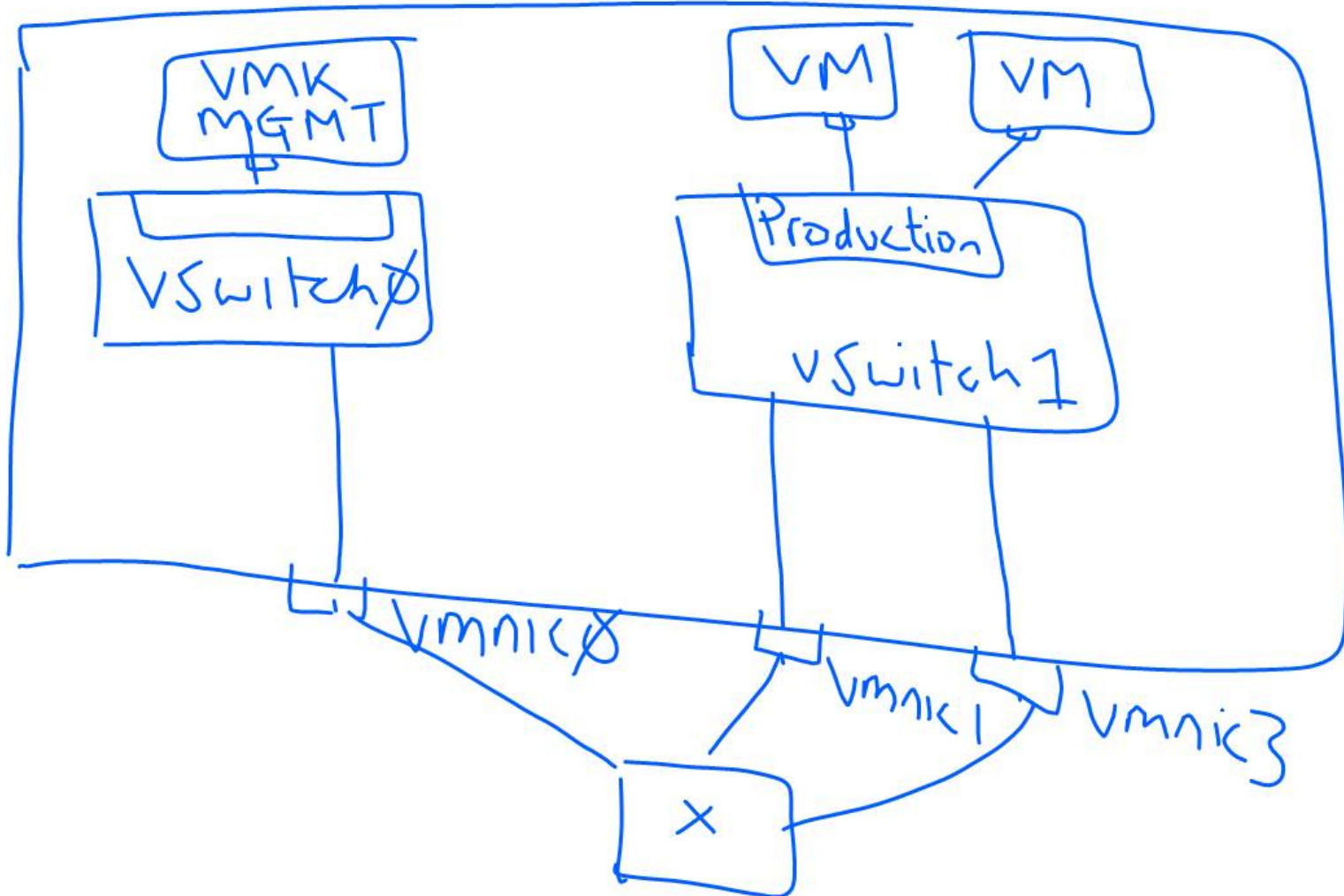


AND NOW, SSO

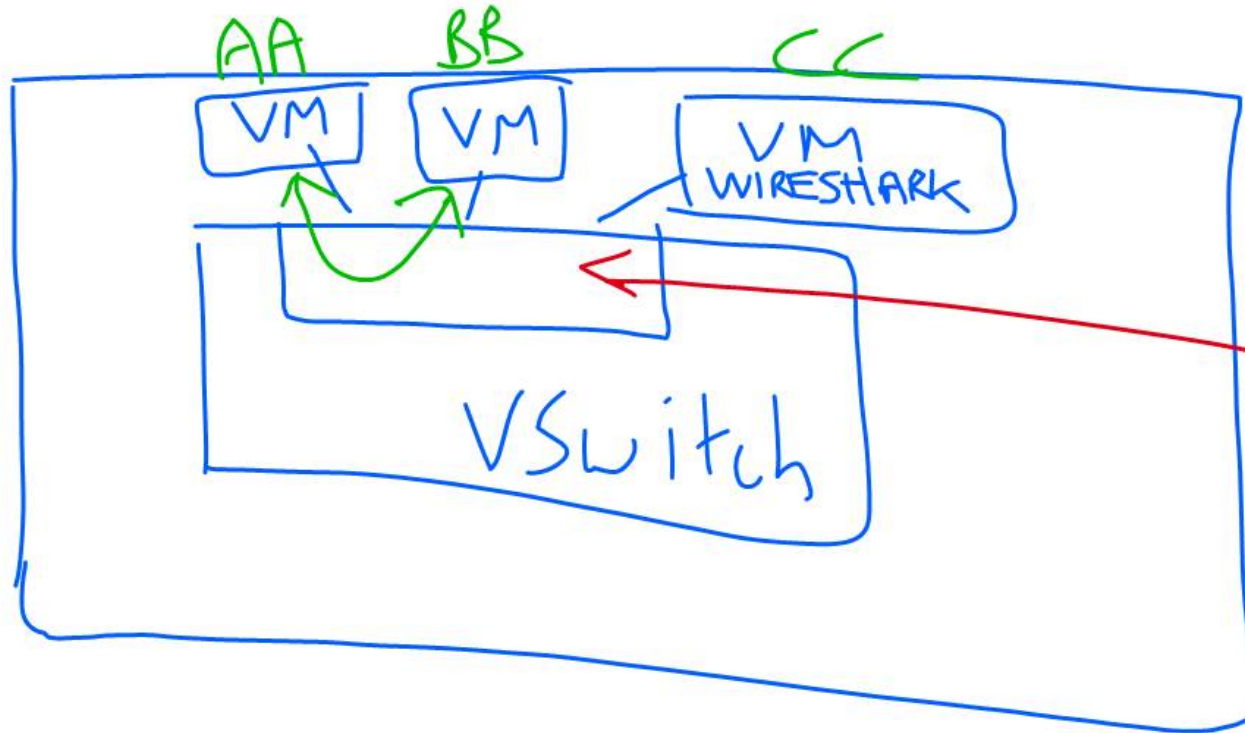
Defaults



Lab



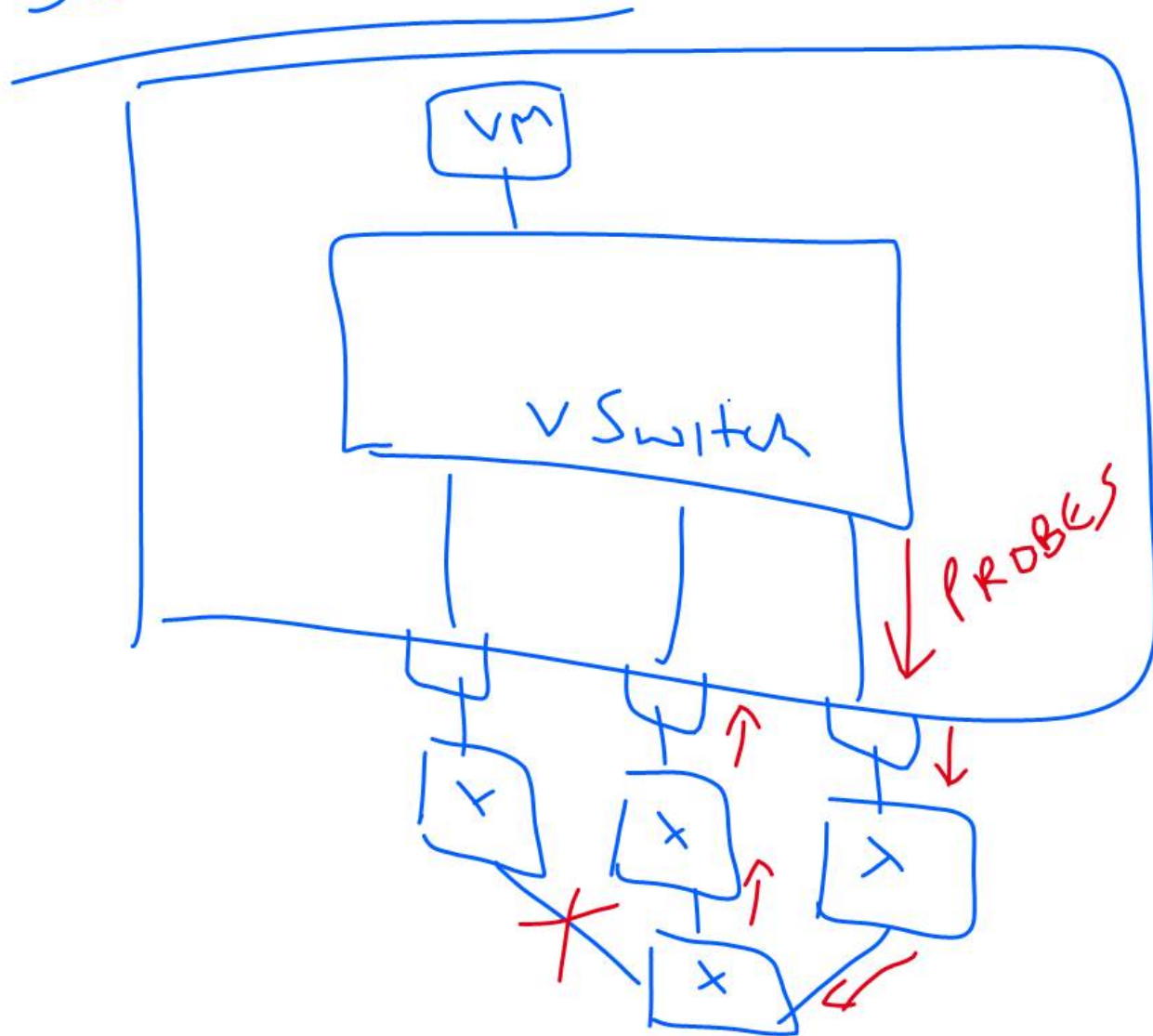
Layer 2



PORT	MAC
1	AA
2	<u>BB</u>
3	CC

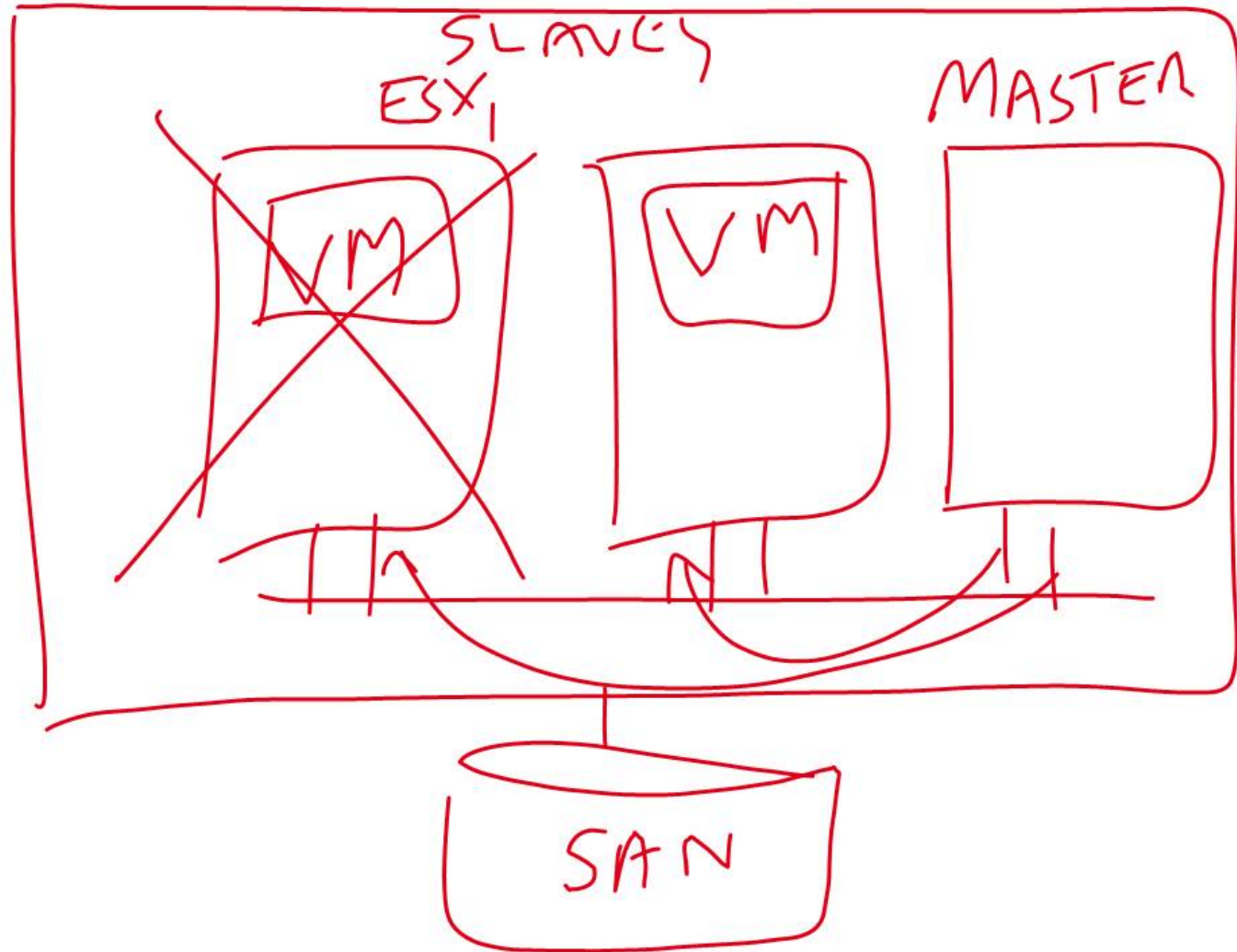
NOT SPAN!
AKA PORT MIRROR

BEACON PROBES



LINK STATES
- DIRECTLY
CONNECTED
FAILURES

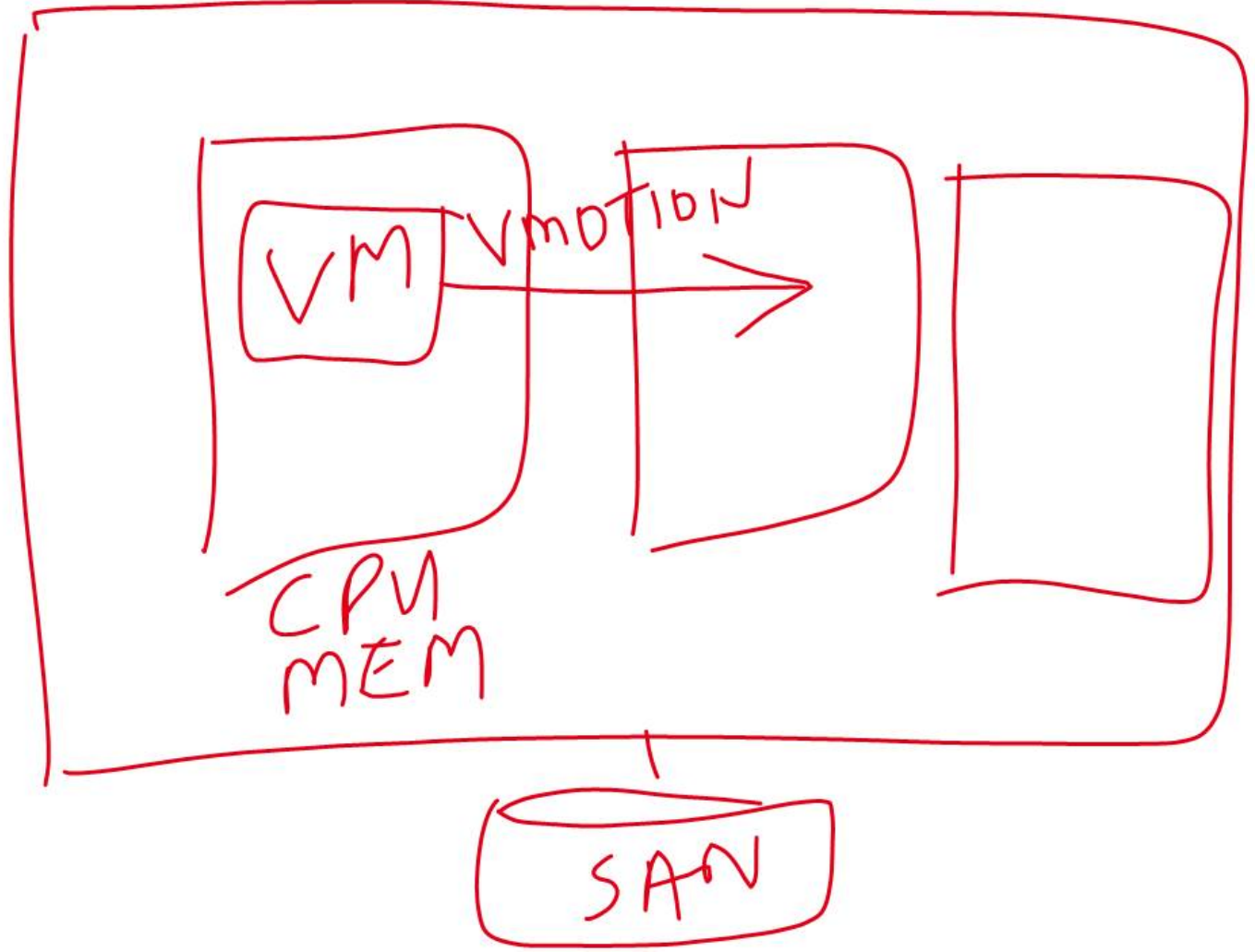
H/A CLUSTER



DRS

VM

Power on



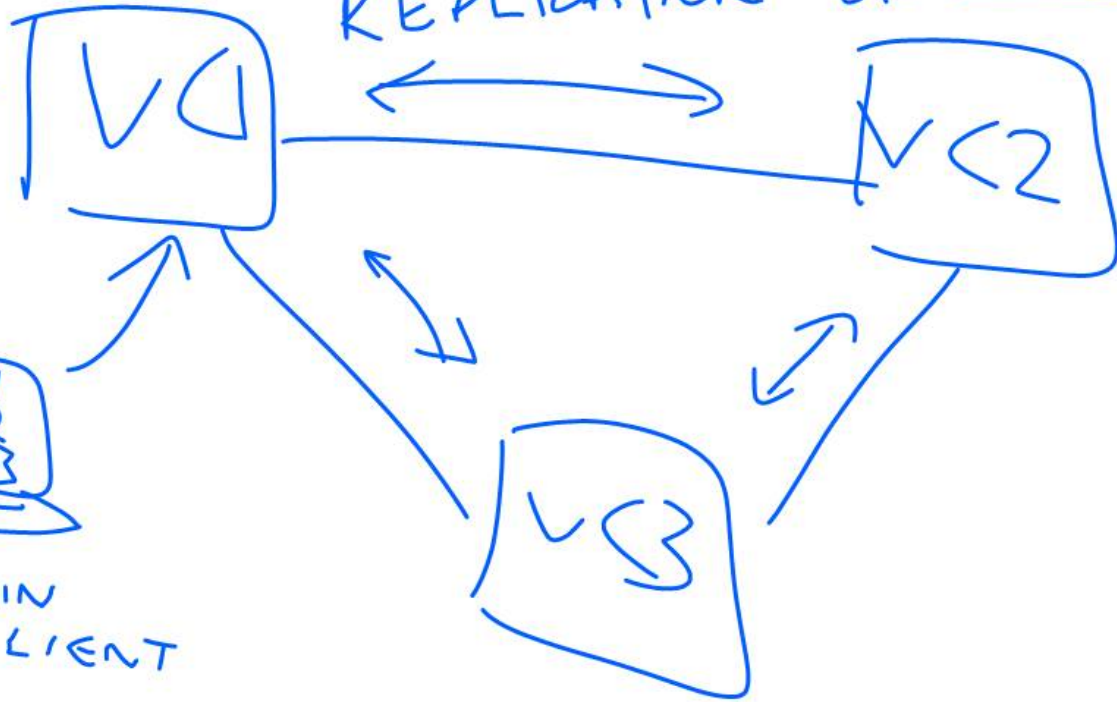
Linked Mode (4.x)

ROLE
VM_ADMIN

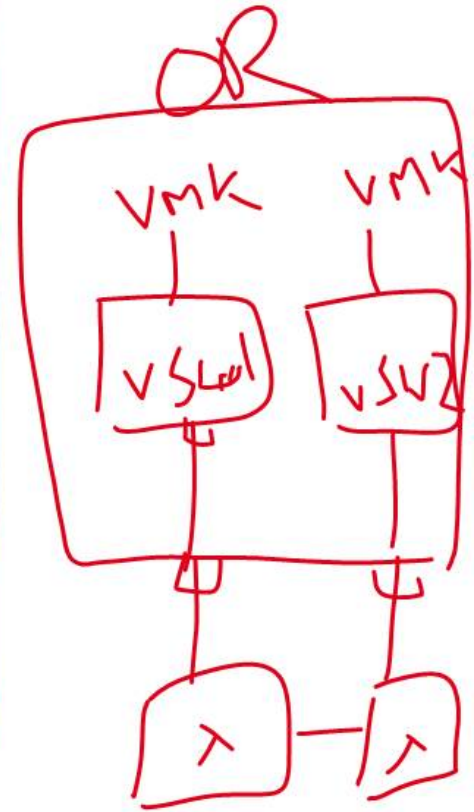
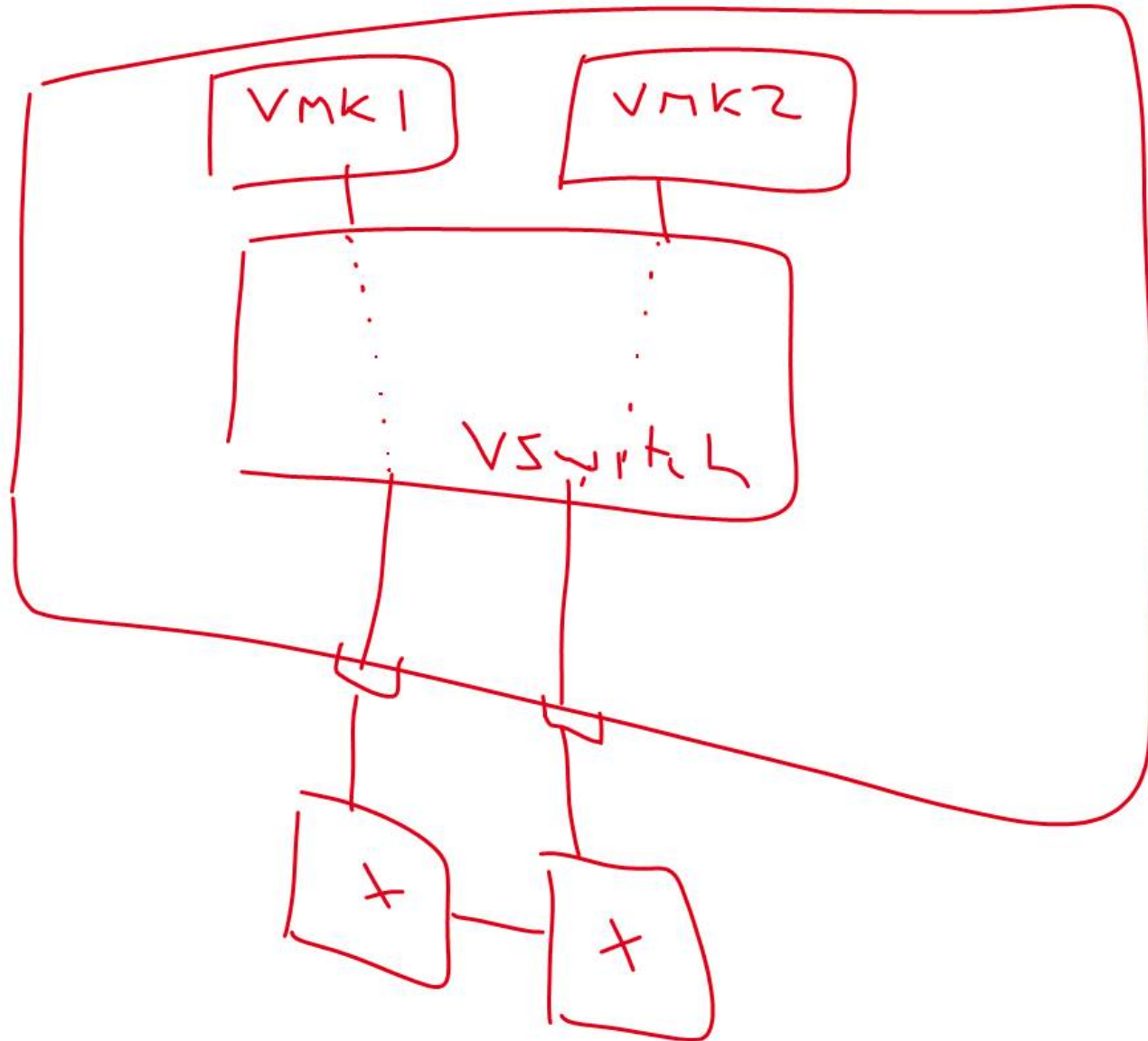
REPLICATION OF ROLES
LINKING LINK



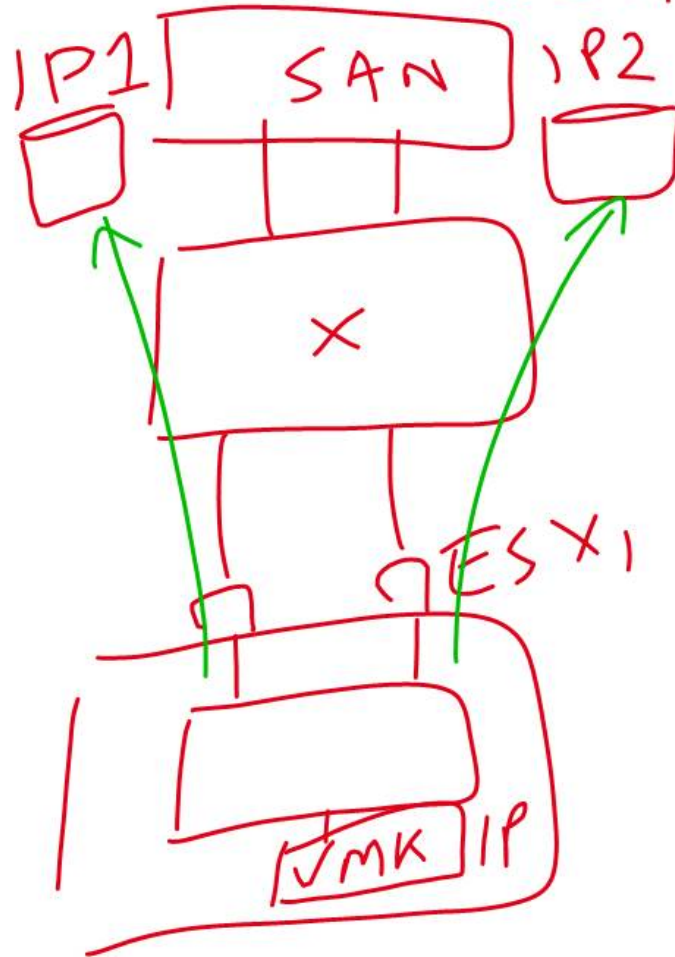
WIN CLIENT
LOGGING IN



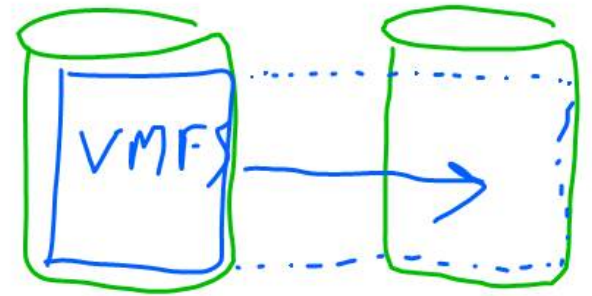
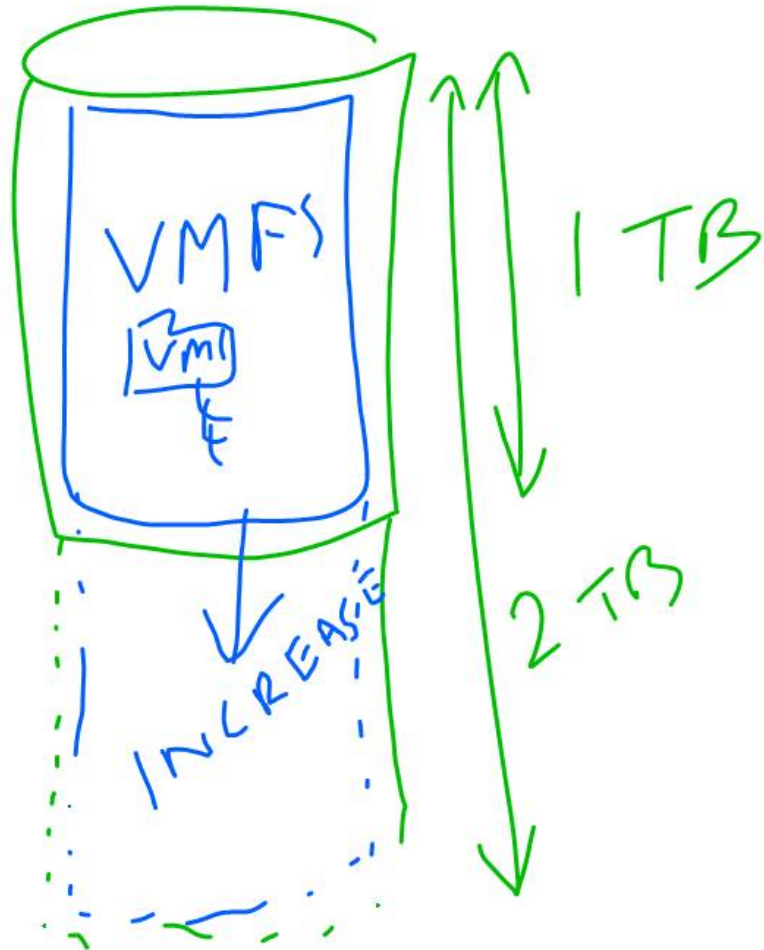
ISES, Multipath



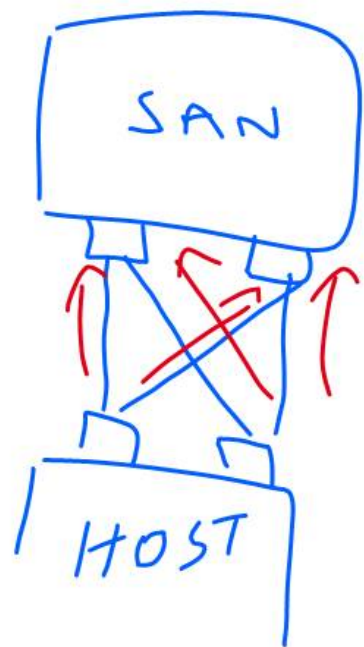
NFS NIC TEAMING / MULTIPATH



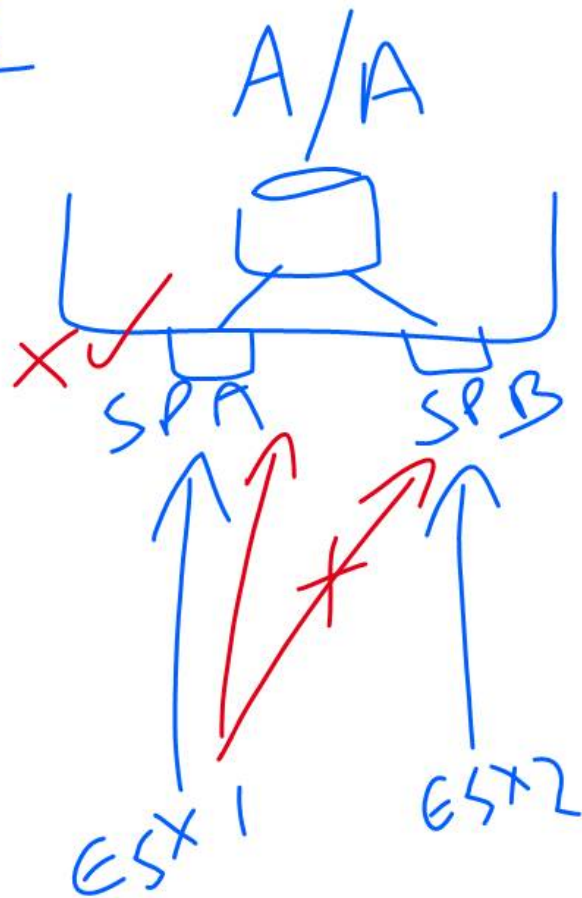
INCREASING SIZE
OF VMFS DS



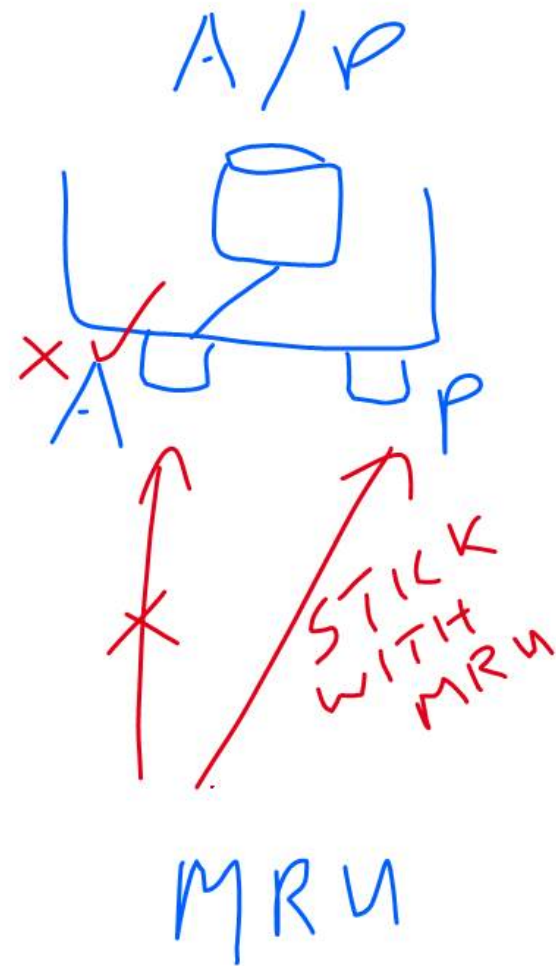
MULTIPATHING



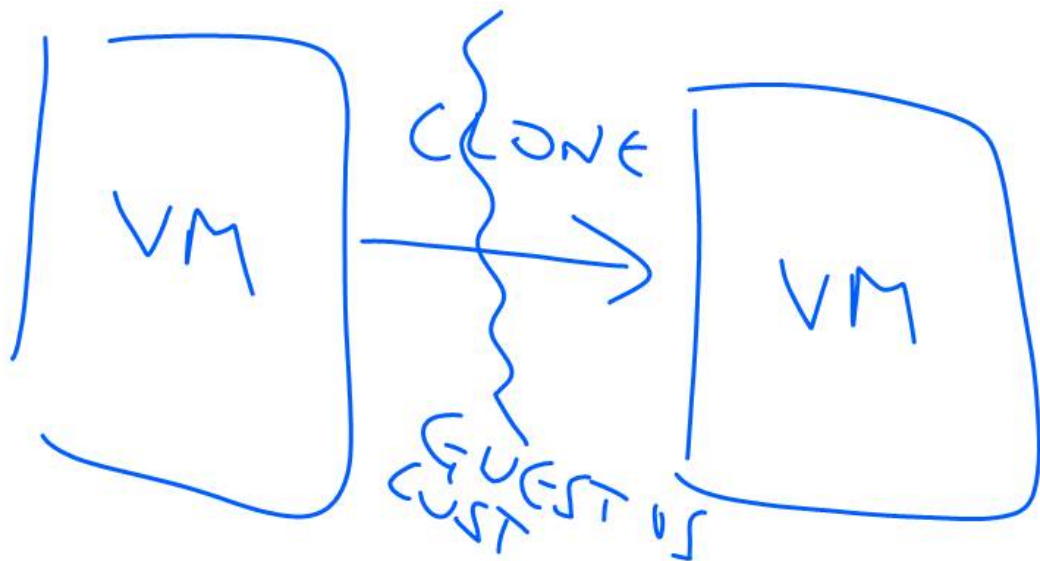
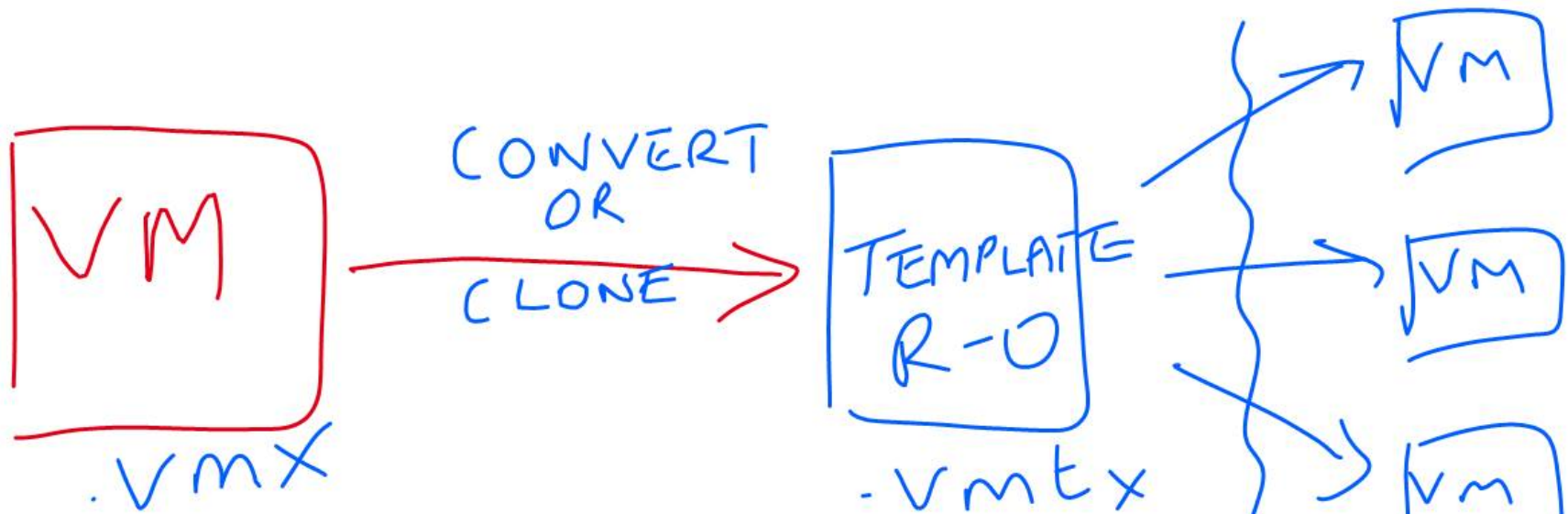
ROUND
ROBIN



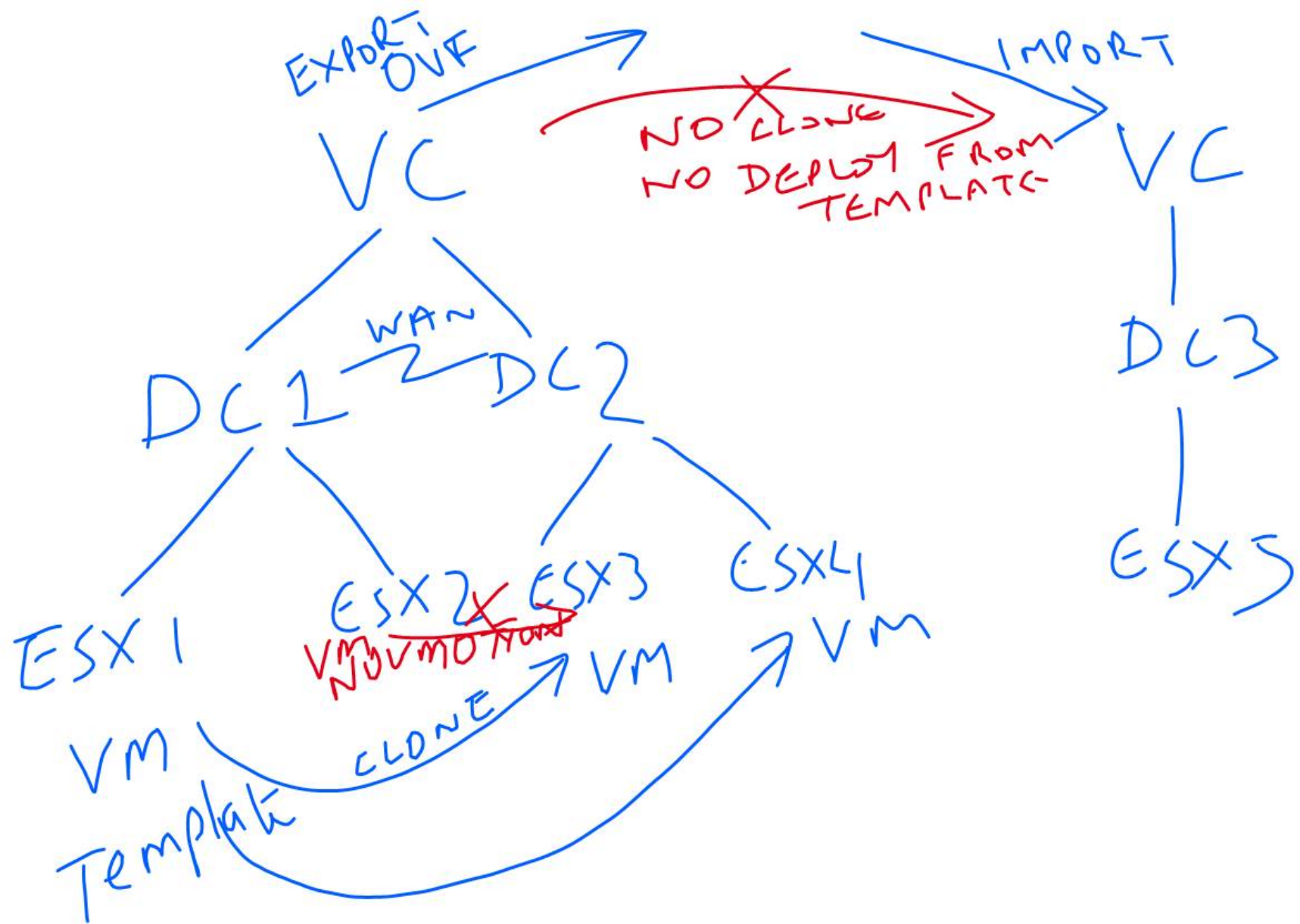
FIXED



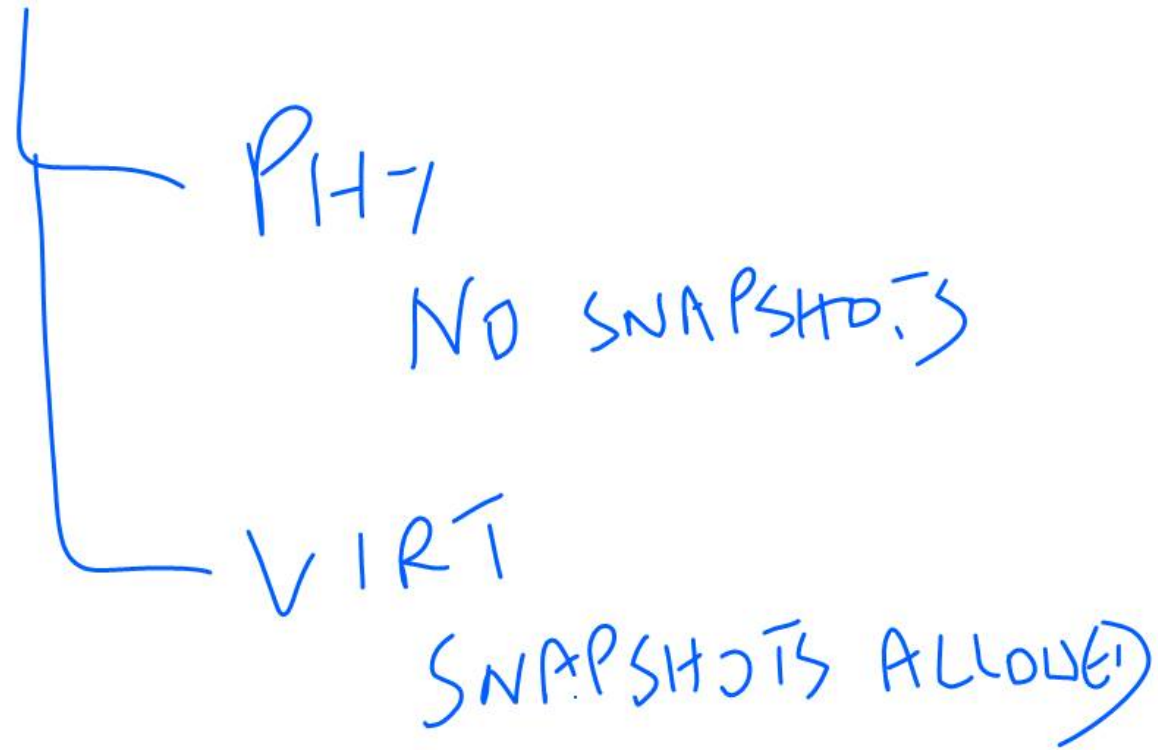
MRU



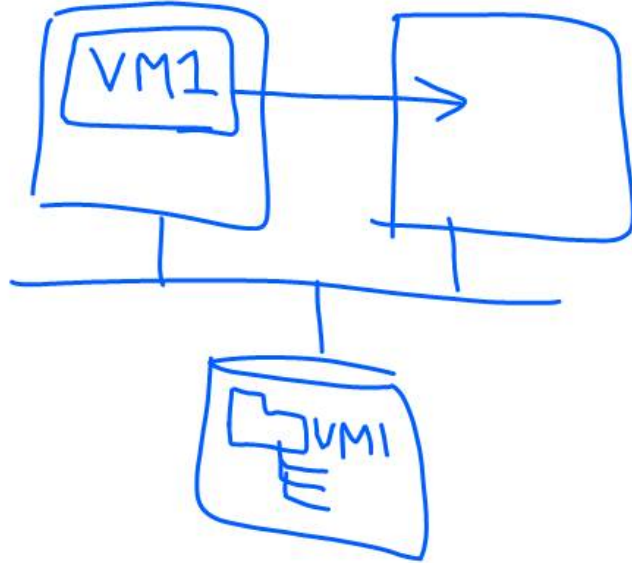
GUEST OS
GUEST
SYSREQ
PERL



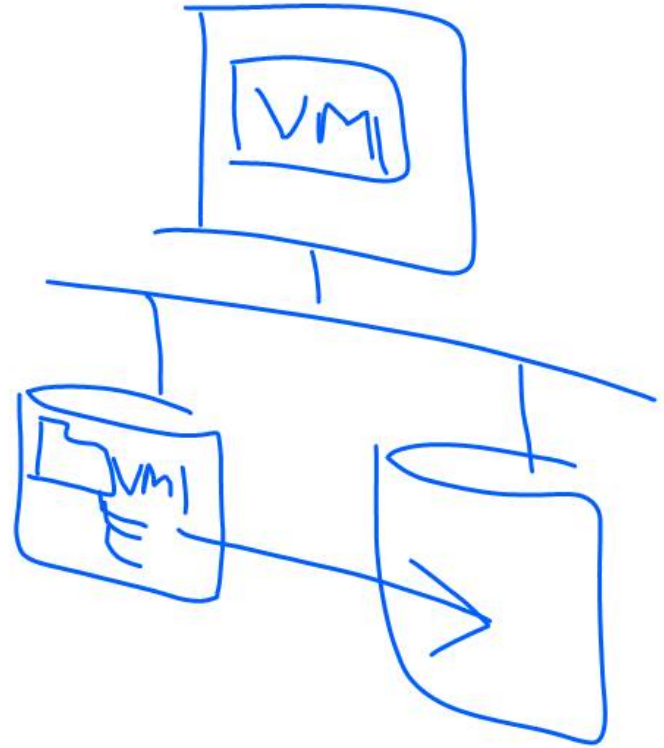
RDM

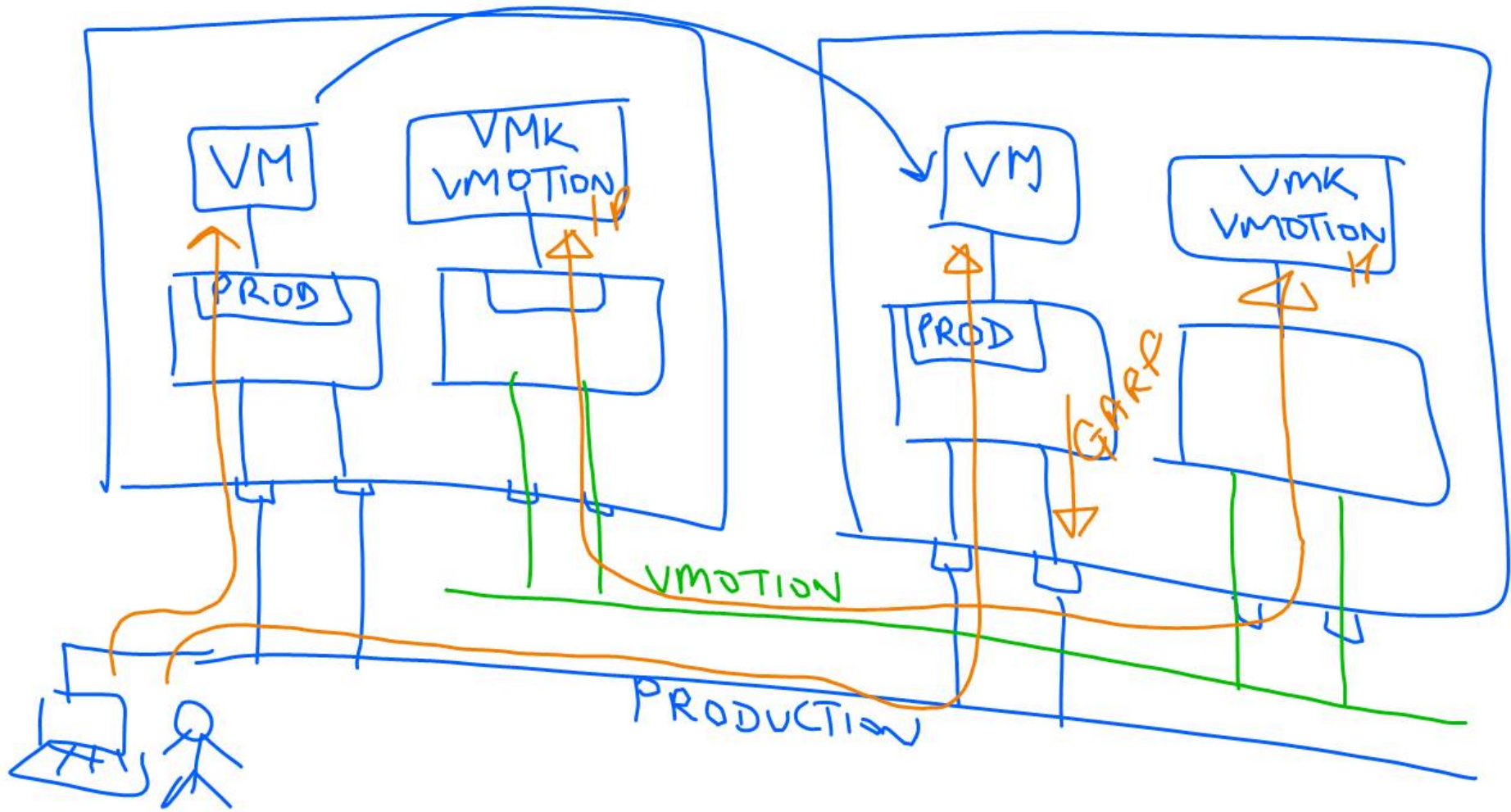


HOST



DATASTORE

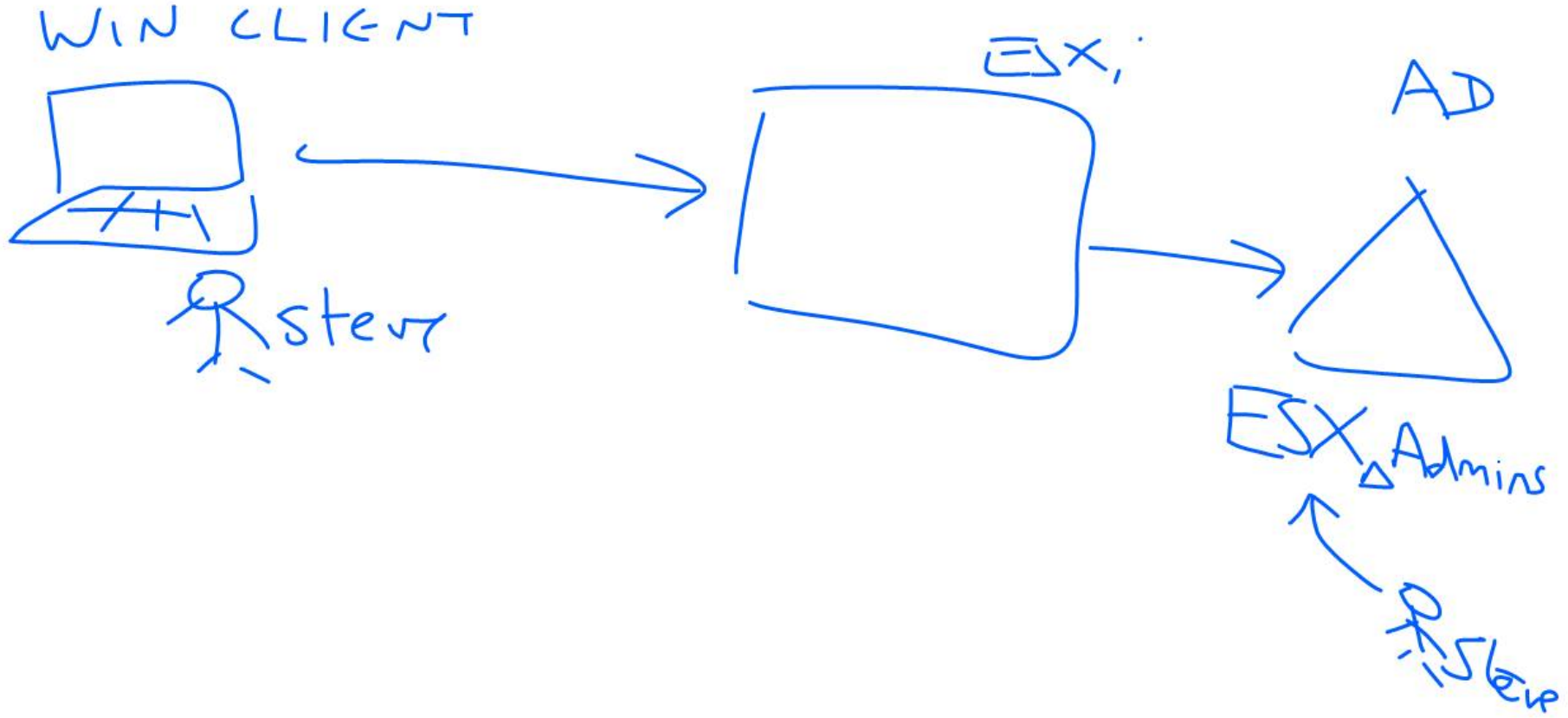


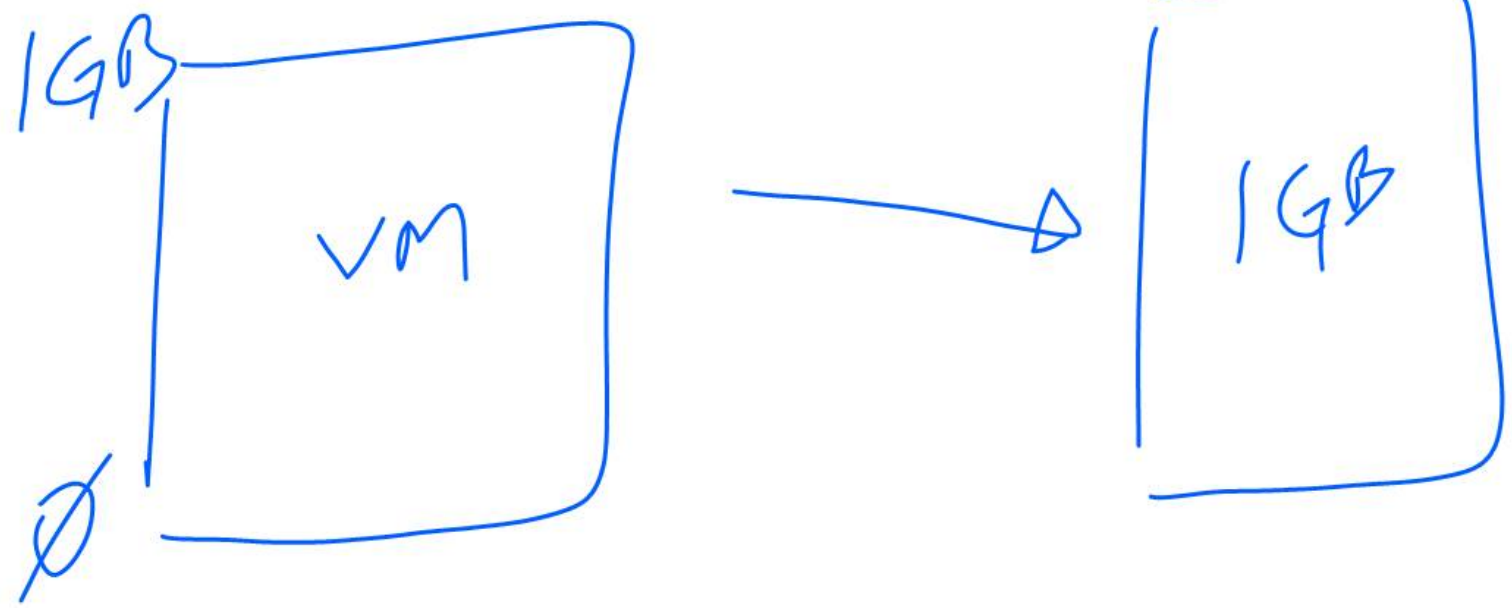
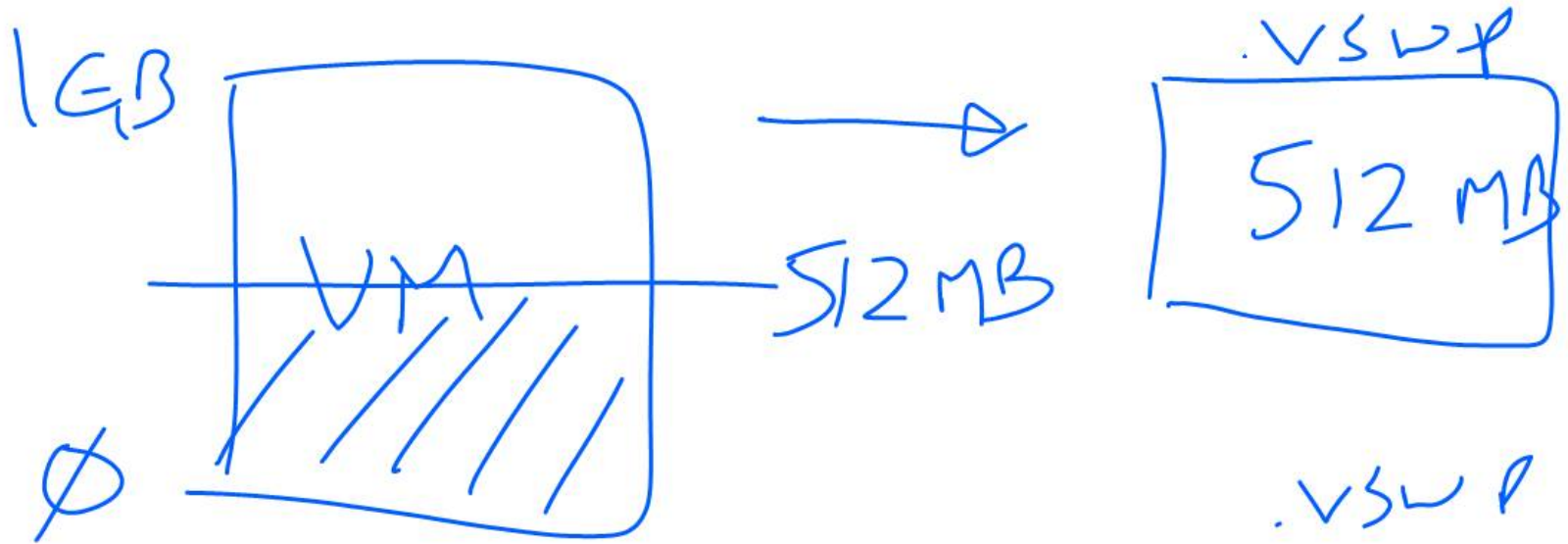




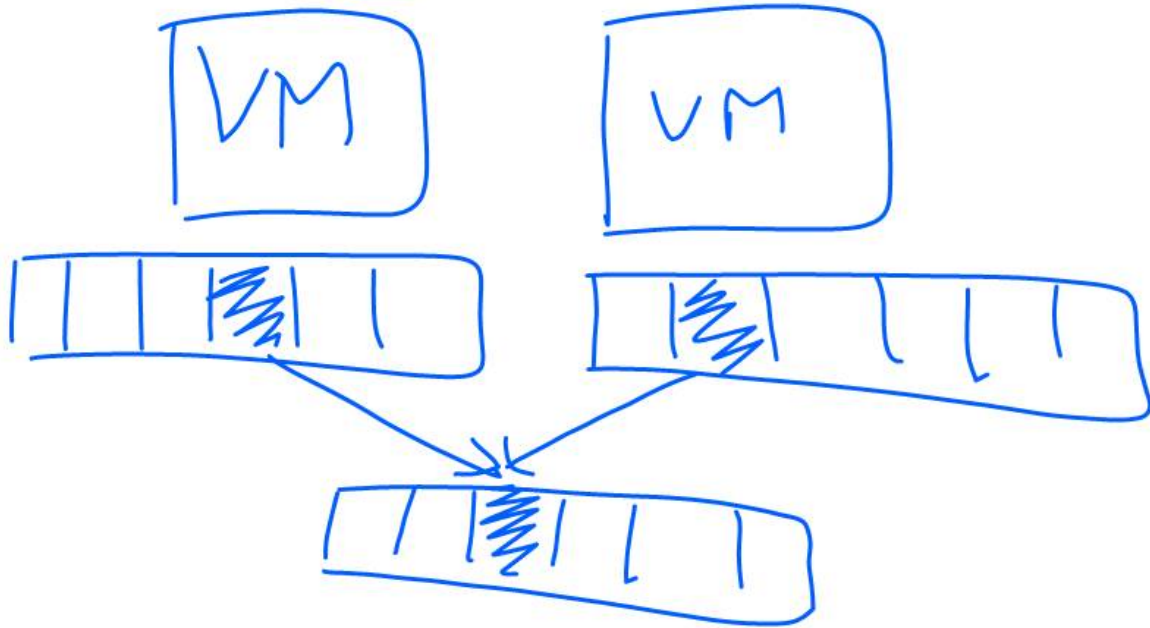
~~SWAPSTOT~~





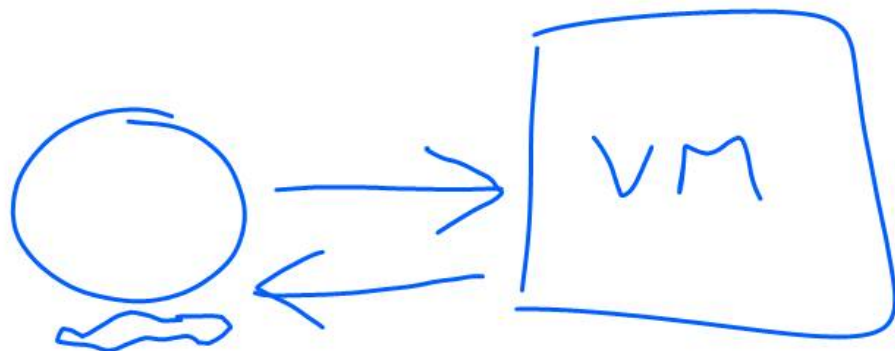


TPS



20% -

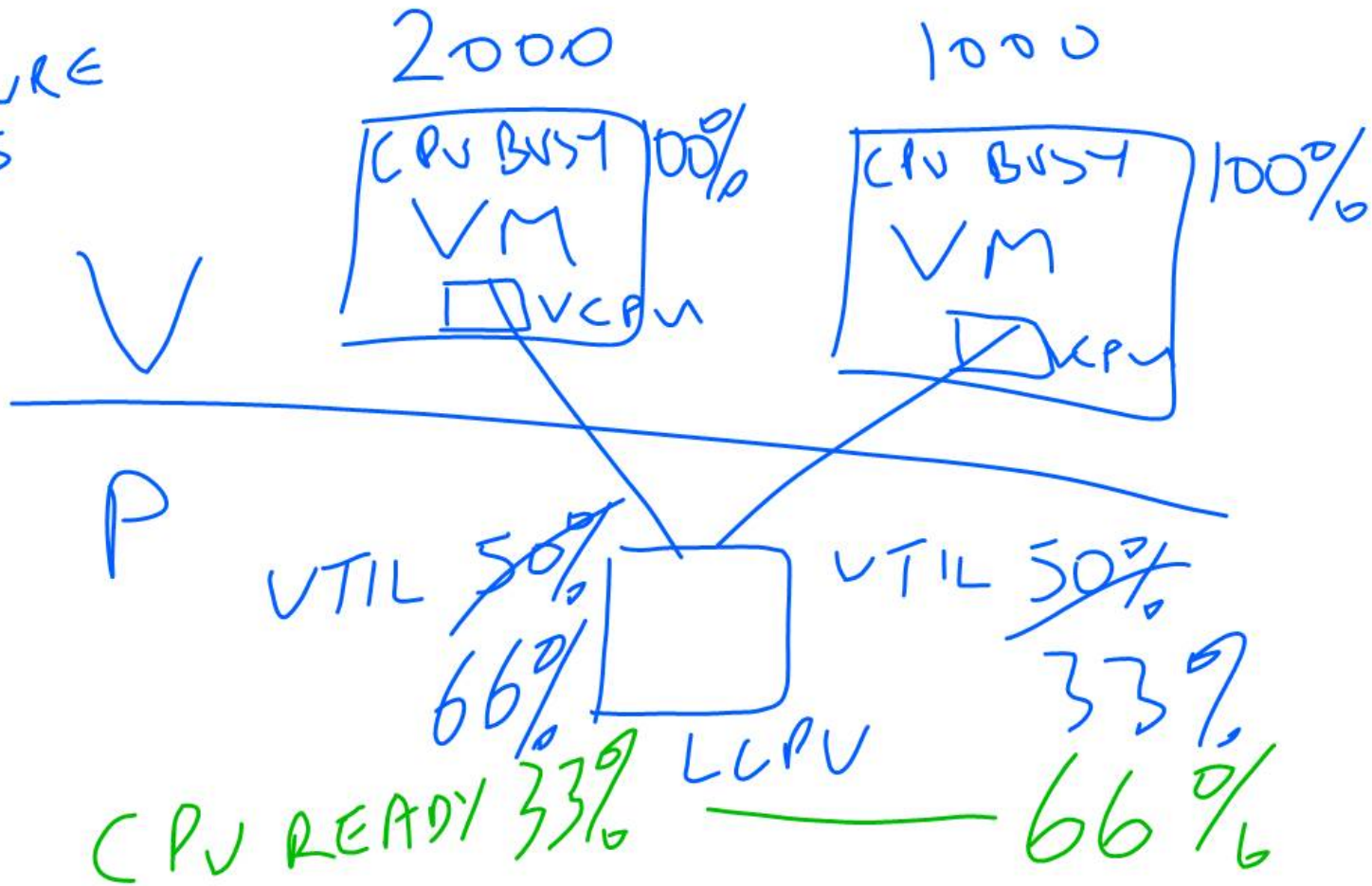
BALLOON



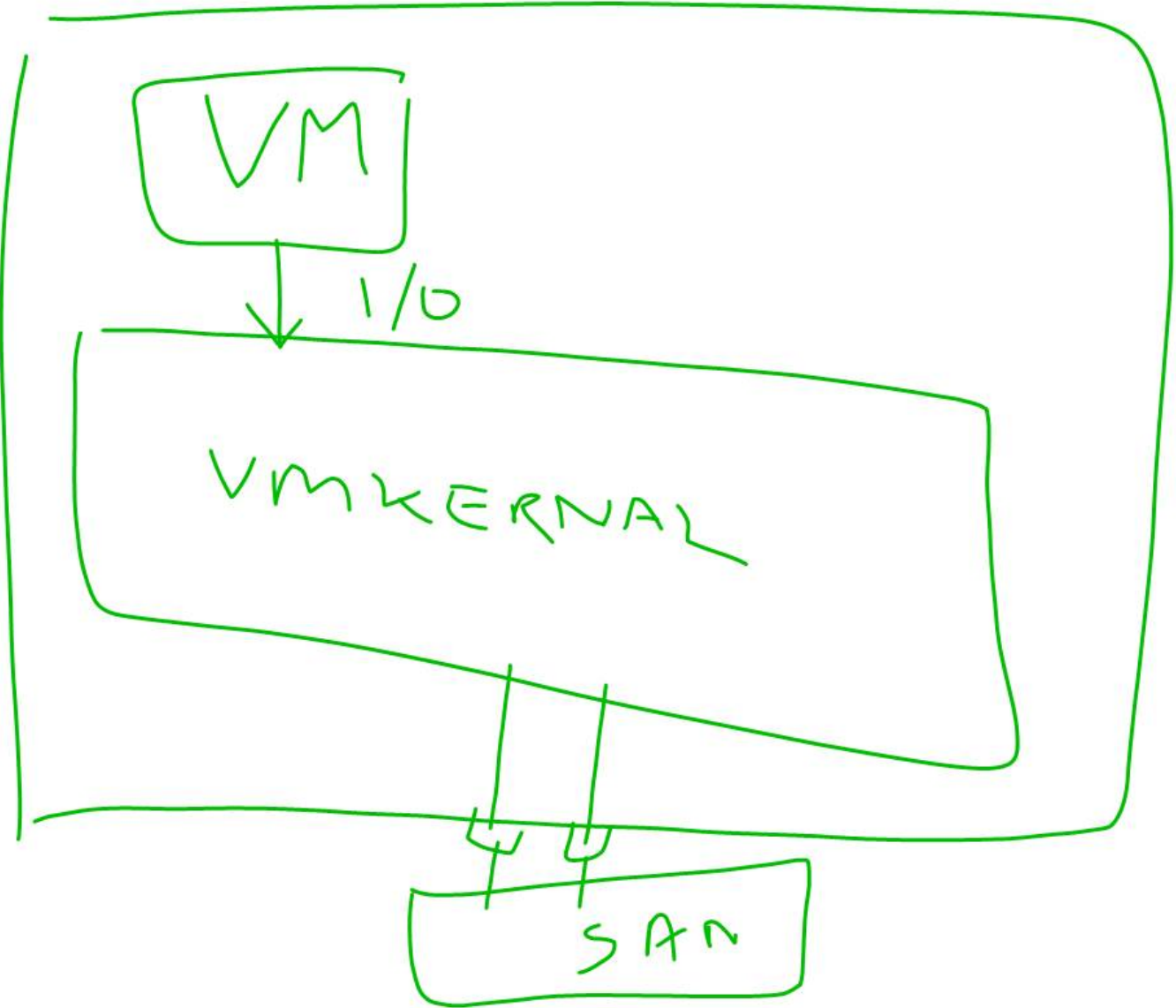
$$\frac{1}{3} \times \frac{2}{3} = \frac{2}{9}$$

$$\frac{2}{3} \times \frac{1}{3} = \frac{2}{9}$$

RESOURCE
POOLS
LAB



IN PERF CHARTS ITS MSEC OUT OF 20 SEC
10% OF 20S = 2000MS

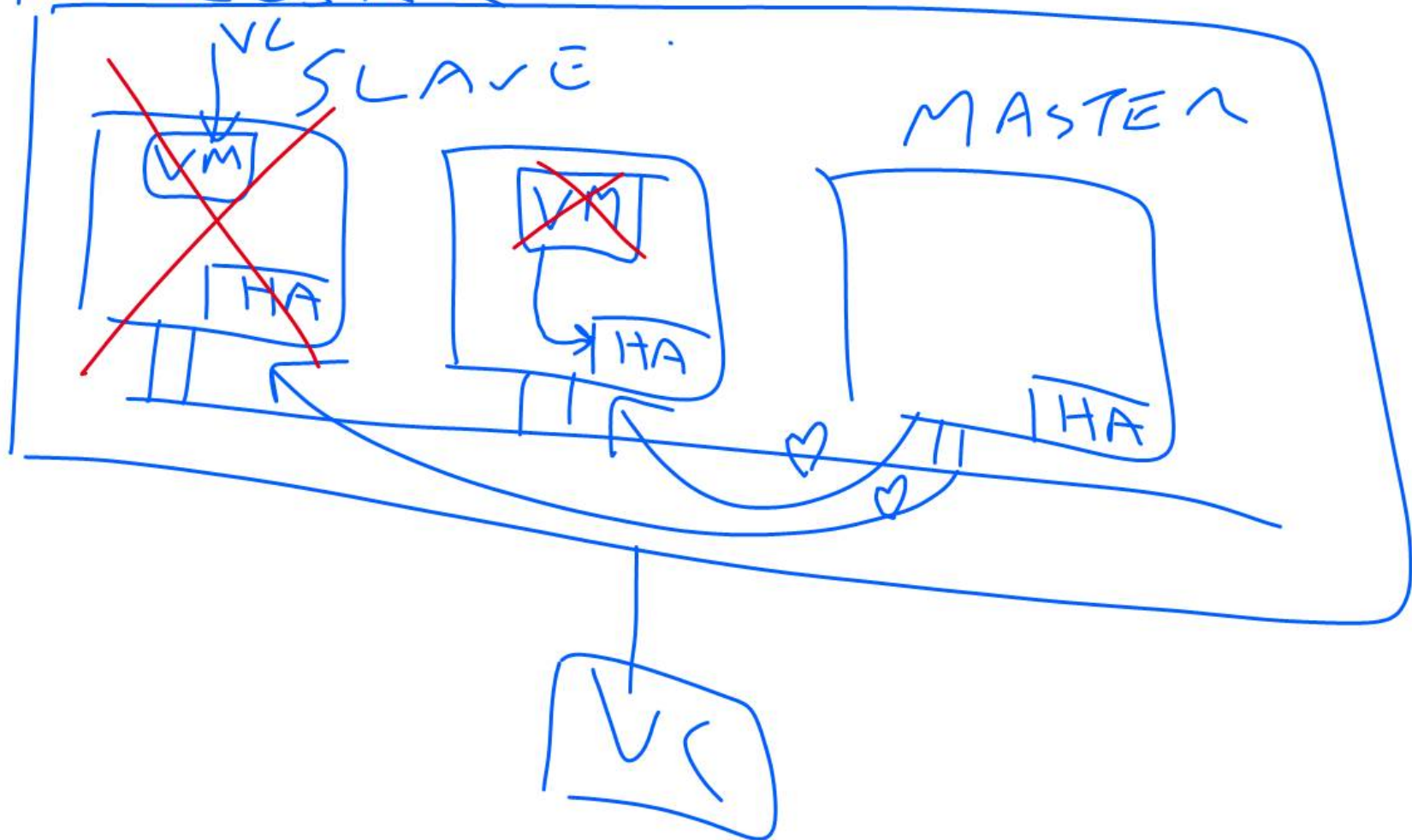


KERNEL
CMD
LATENCY
3ms

PHY DEV
CMD
LAT
20ms

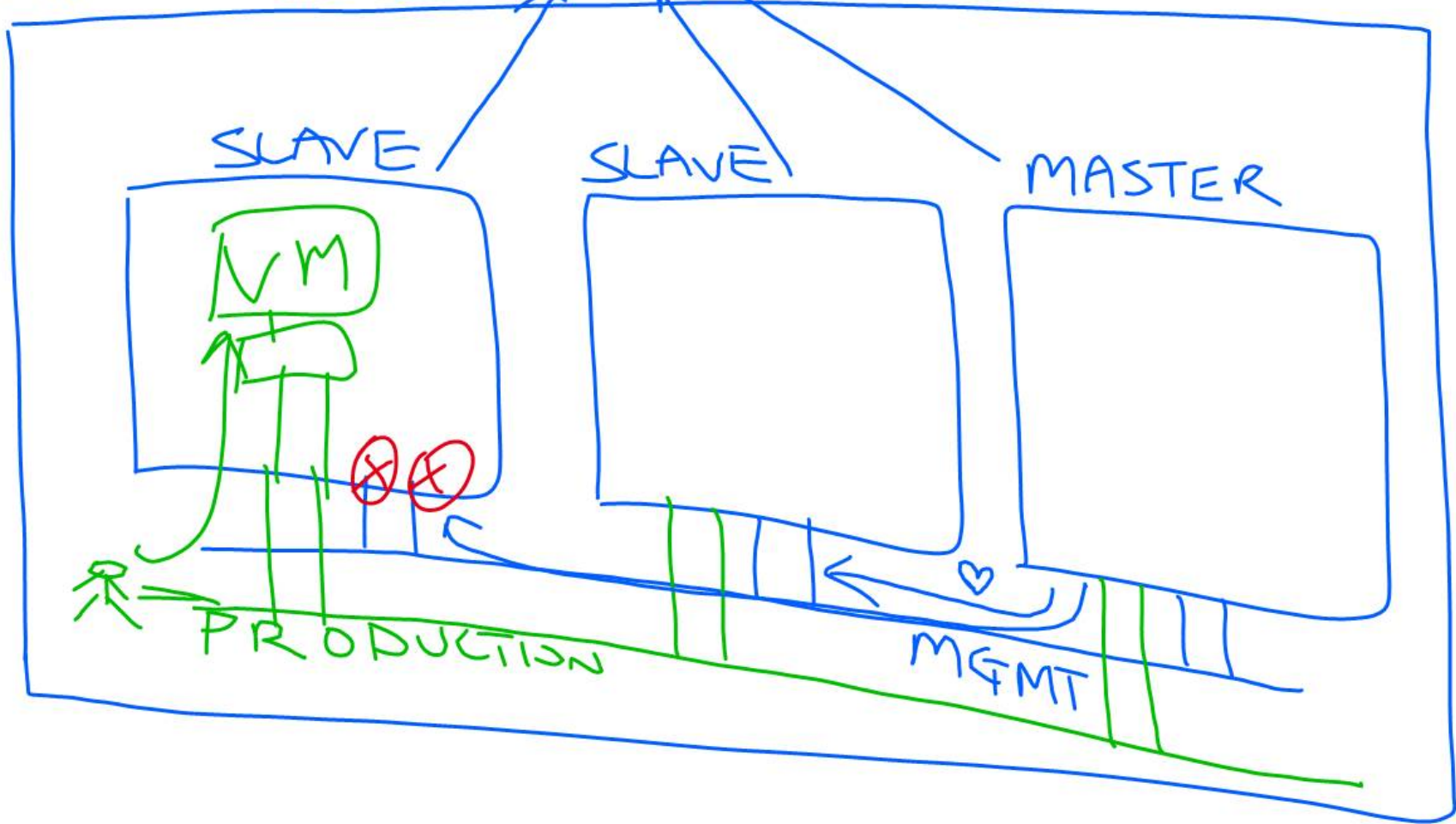
HA FOR VCENTER

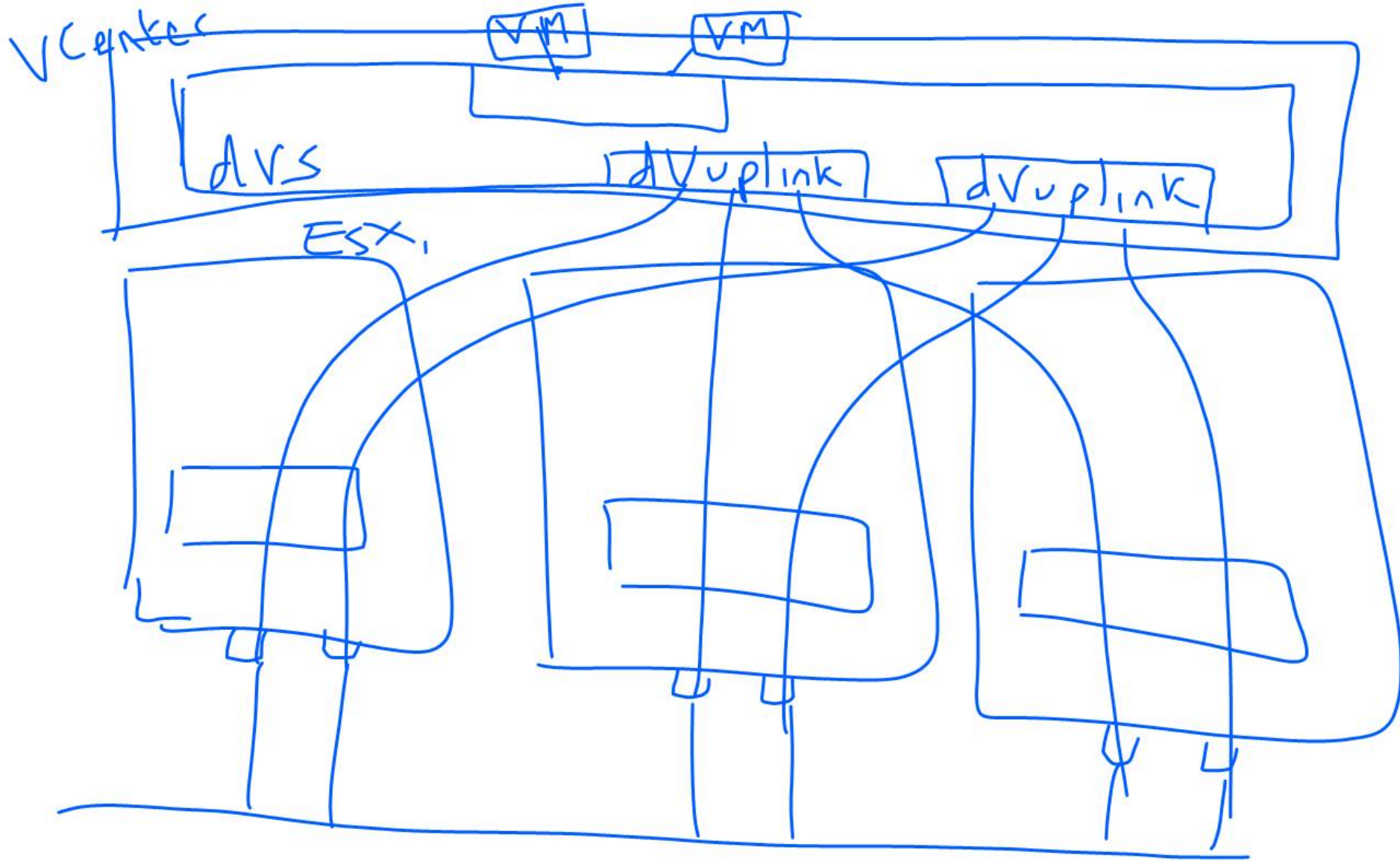
HA CLUSTER

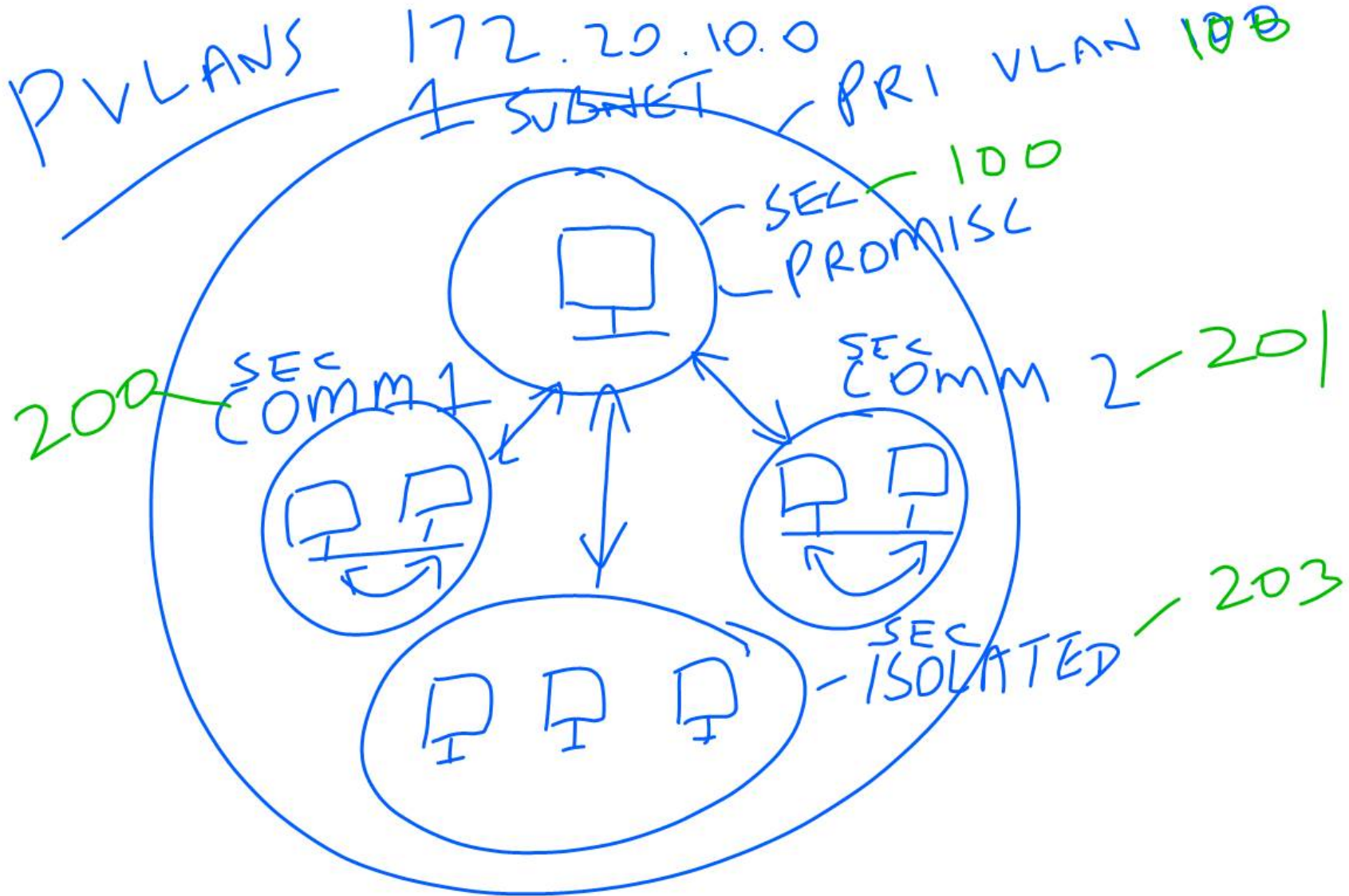


HA CLUSTER

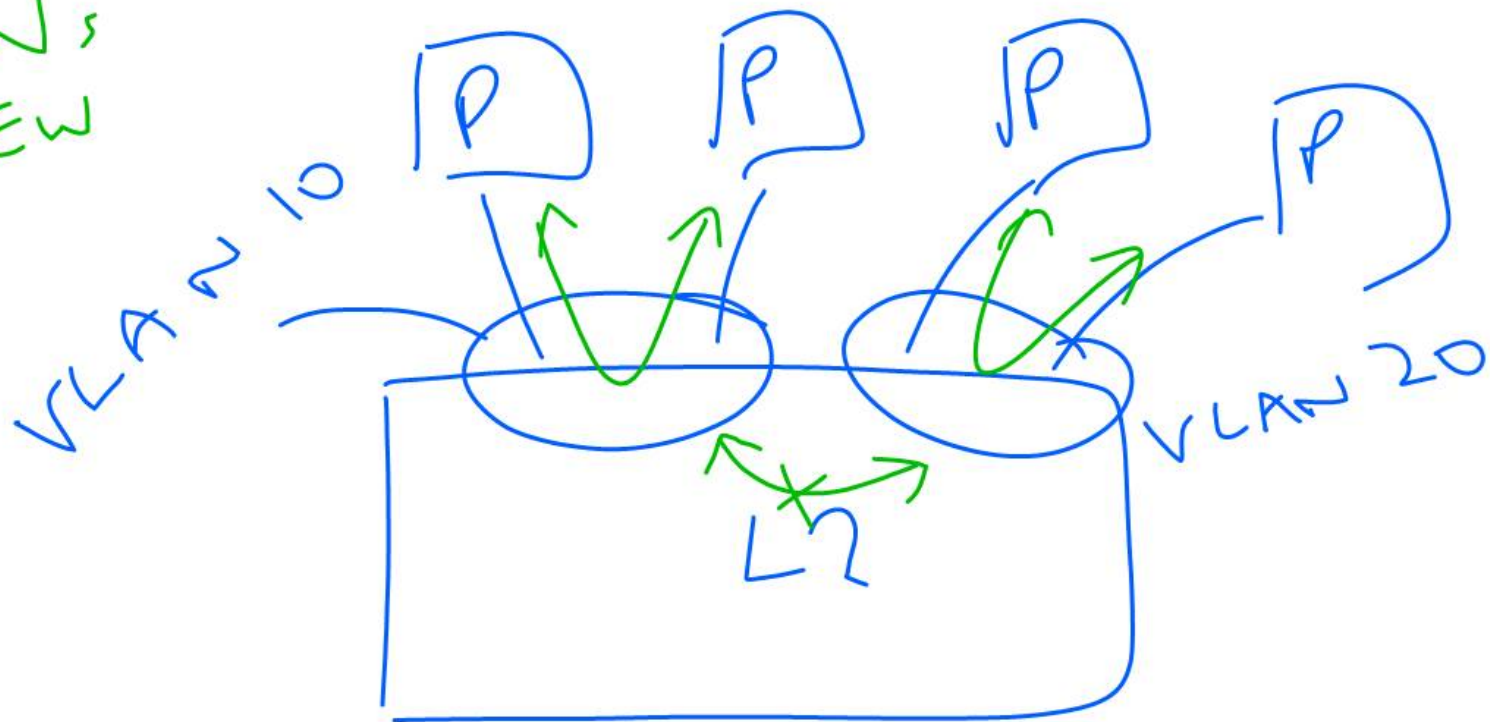
DS HEARTBEAT

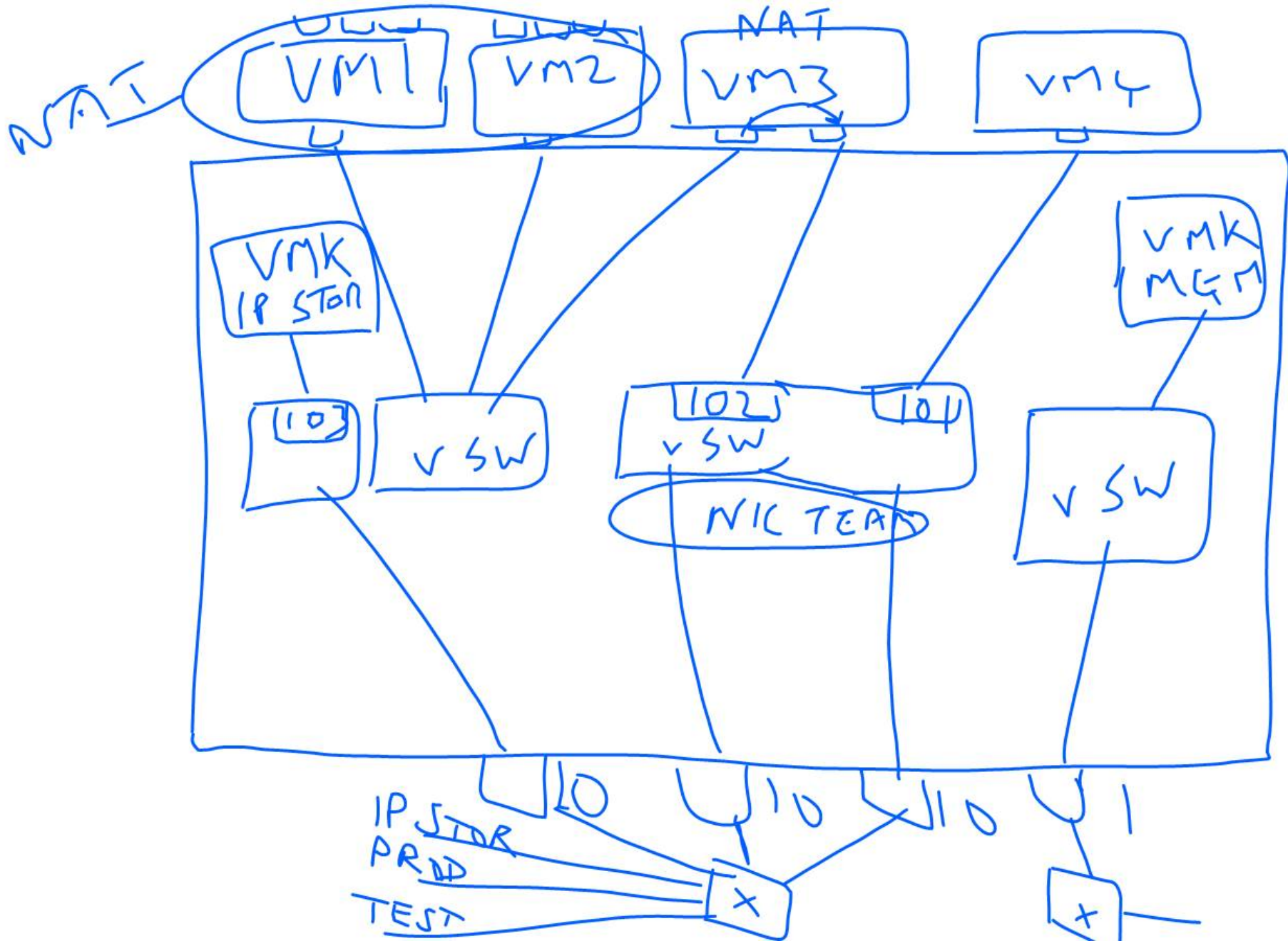


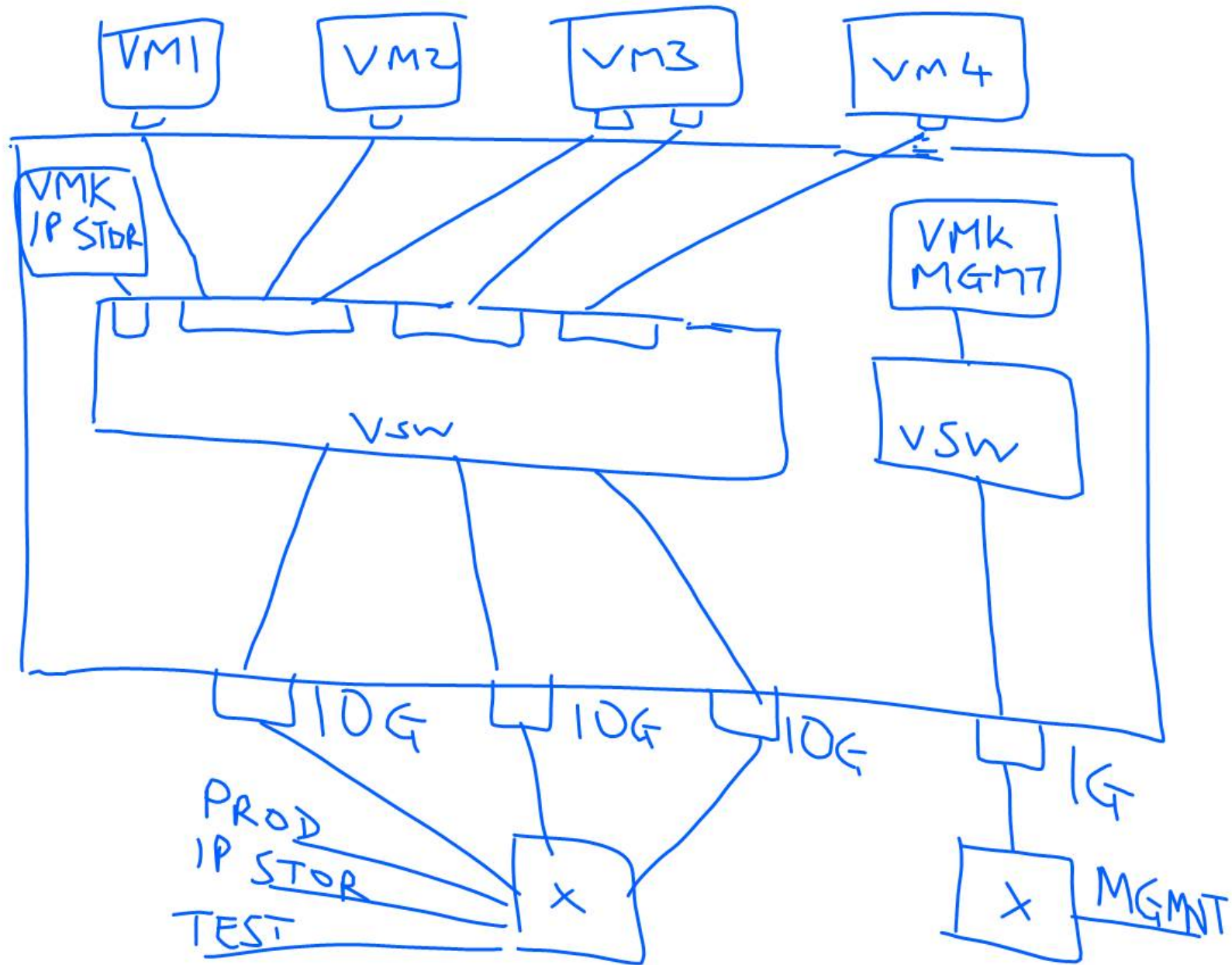




VLANs REVIEW







L2



802.1q

VLAN ID

PRI (COS) 3 bits (8)

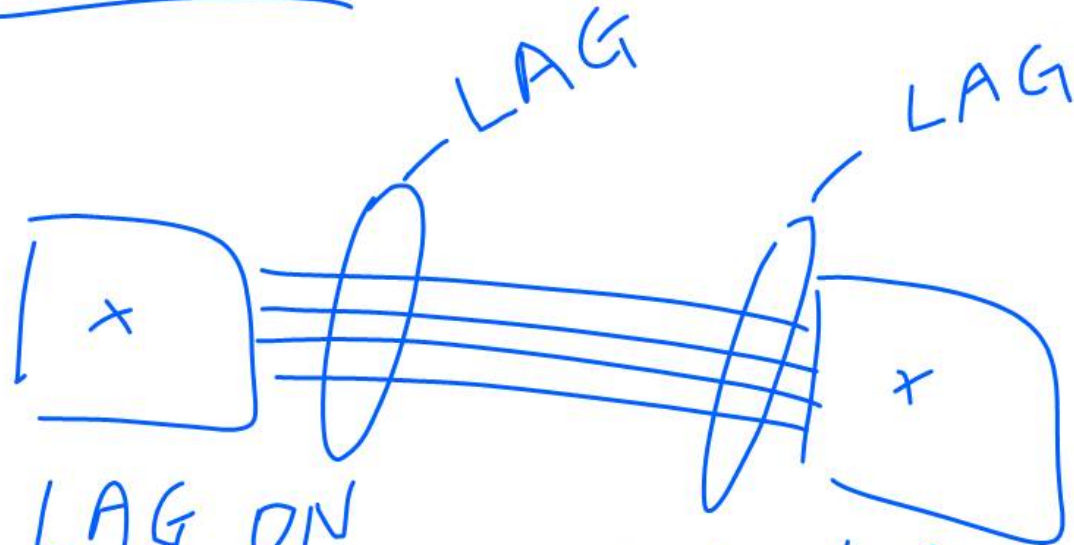
802.1p

L3



First 6 bits. DSCP (64)

LACP



4. || LAG ON

5. x

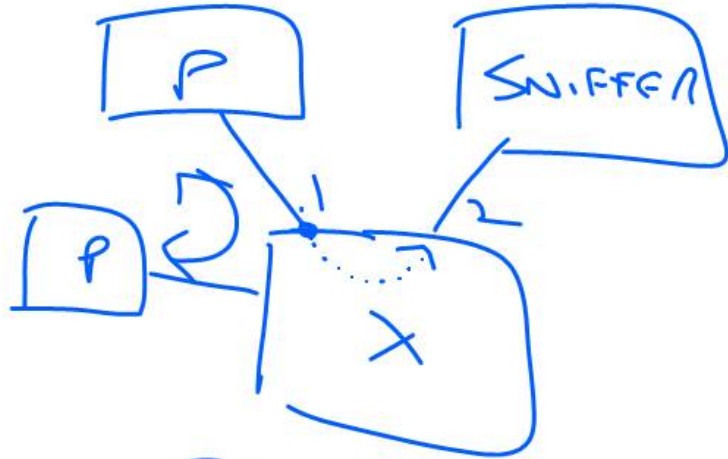
LACP

Negotiate

LACP ON

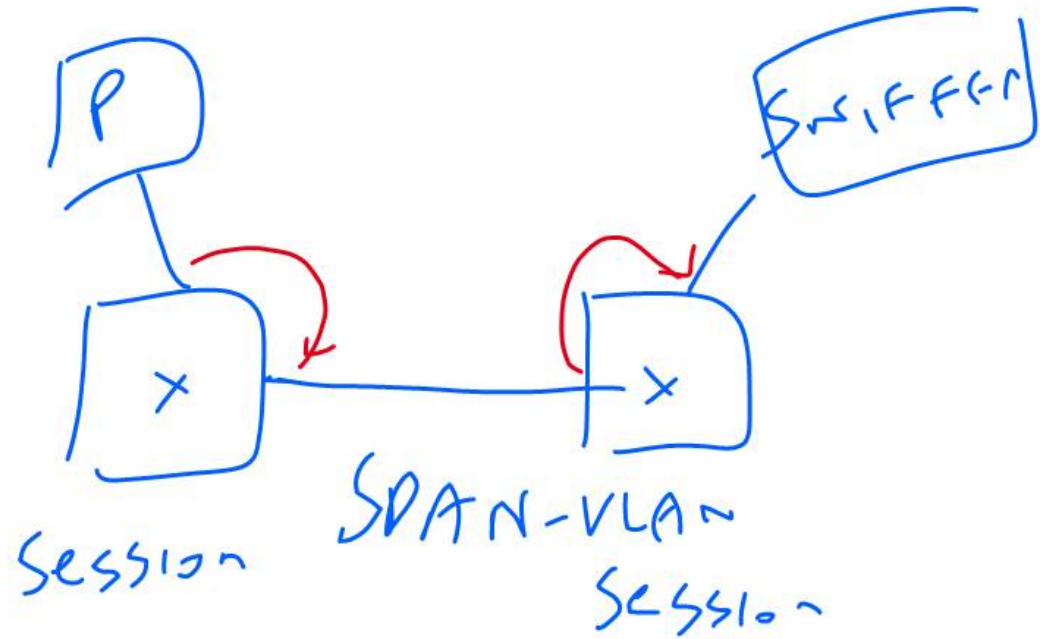
LACP

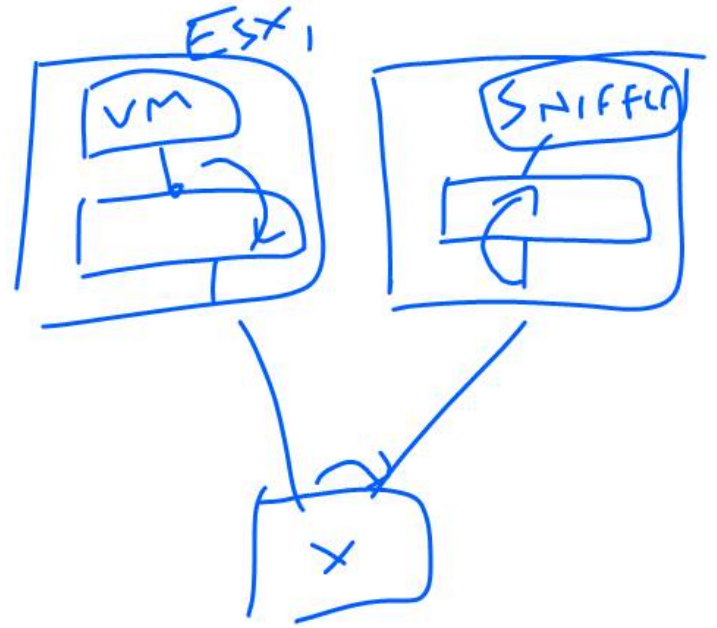
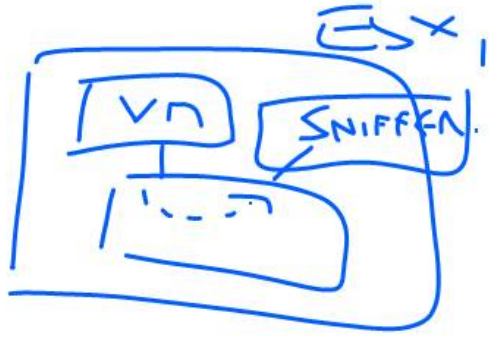
SPAN

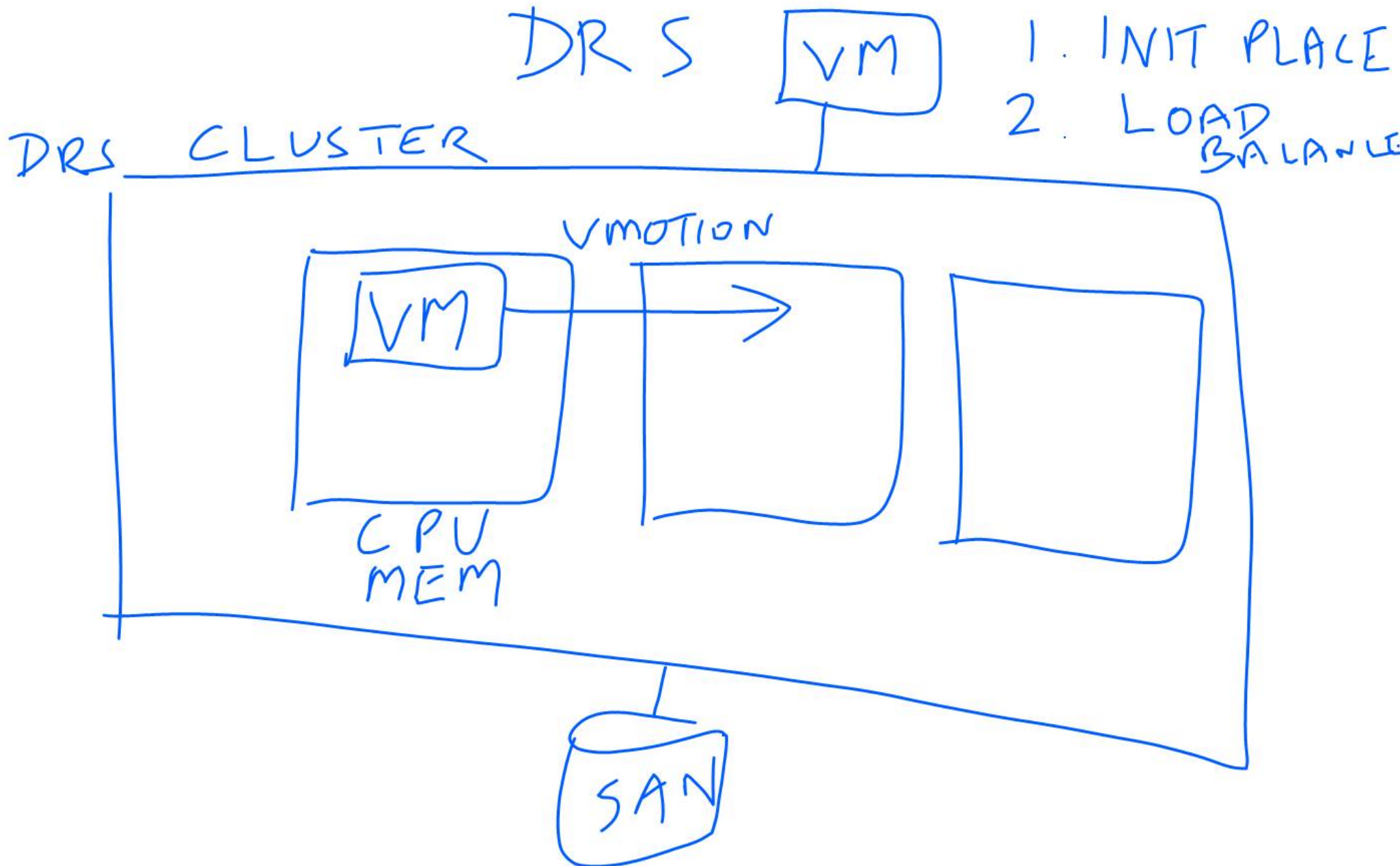


Session
src port 1
dest. 2

RSPAN

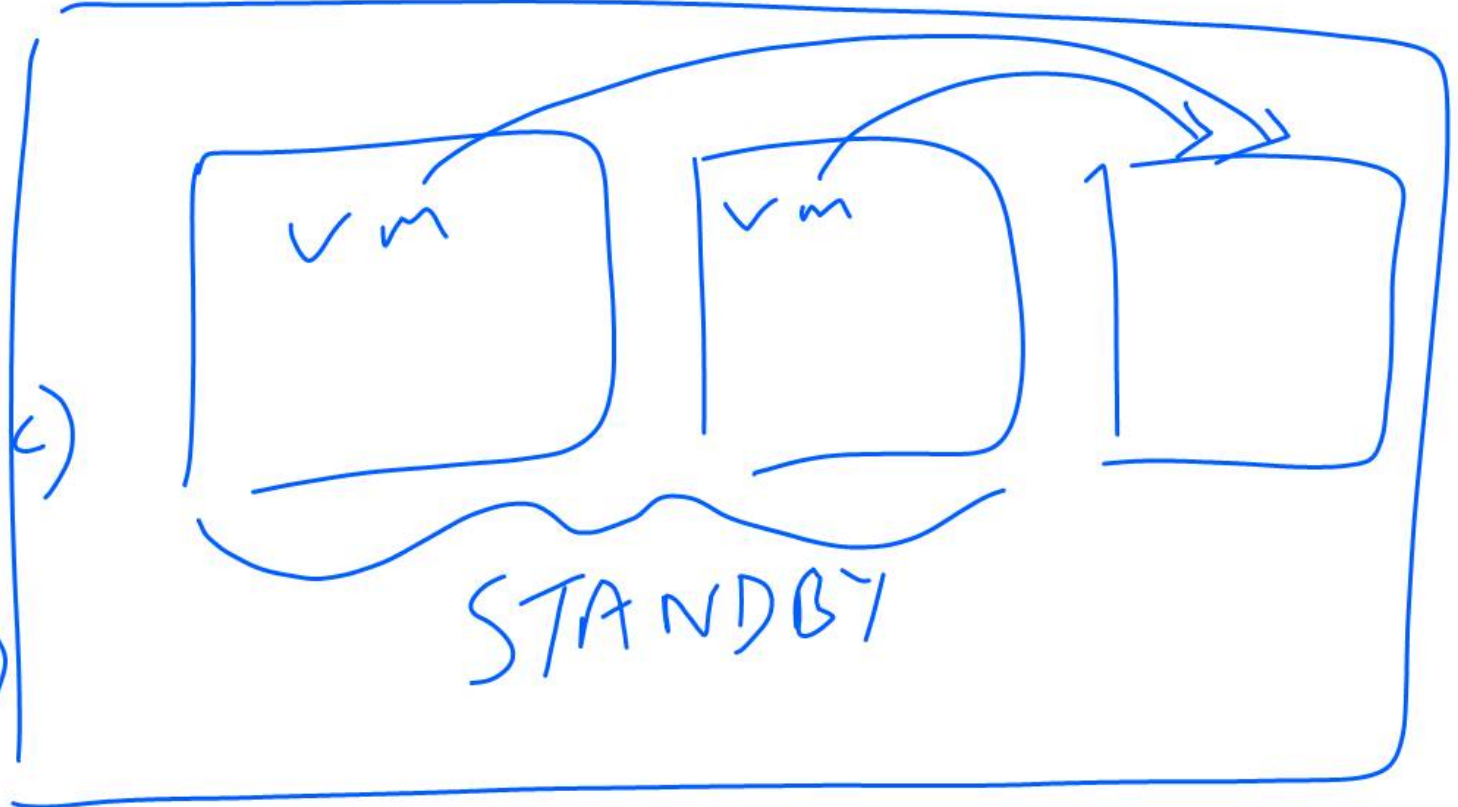






DPM

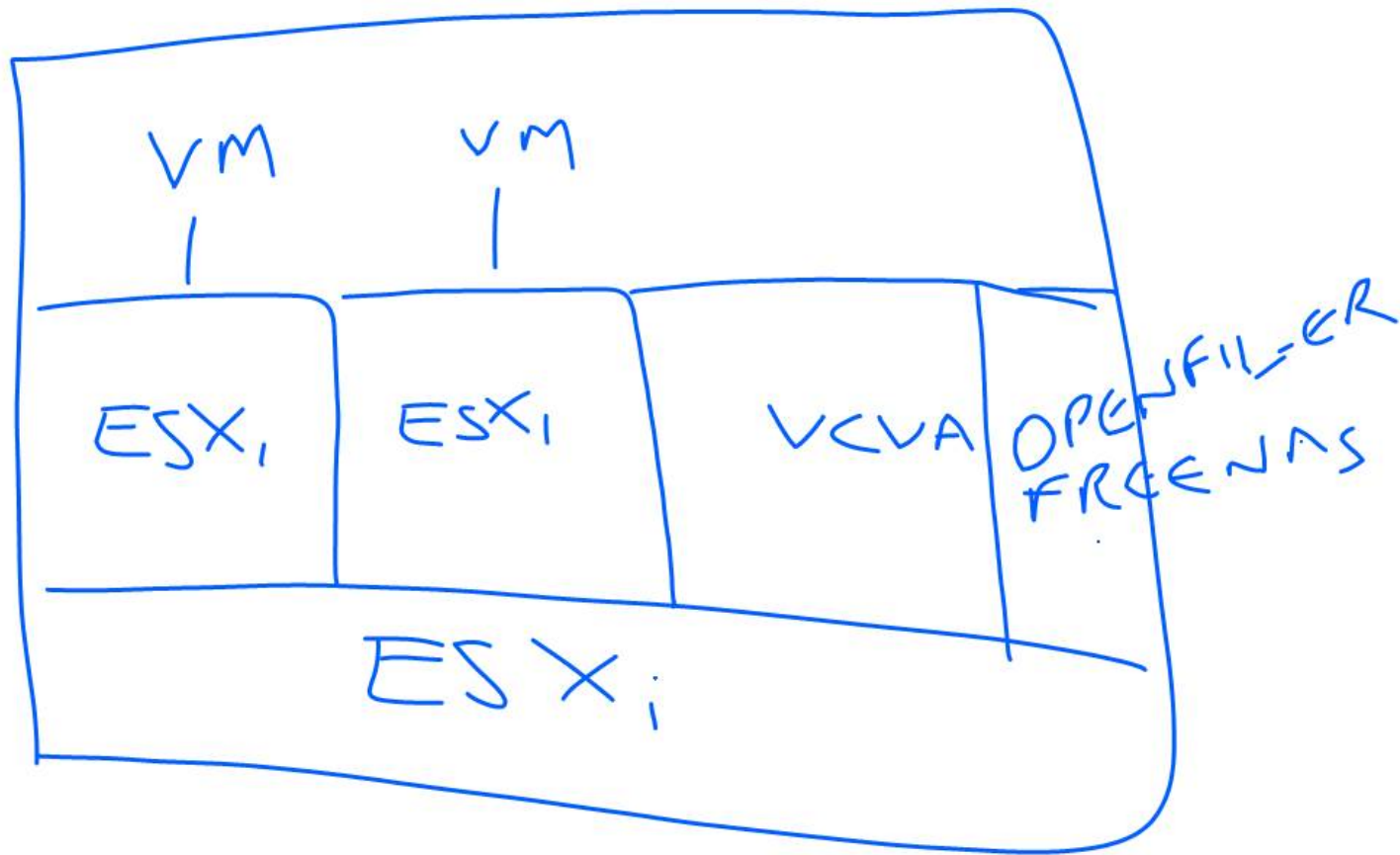
DRS CLUSTER

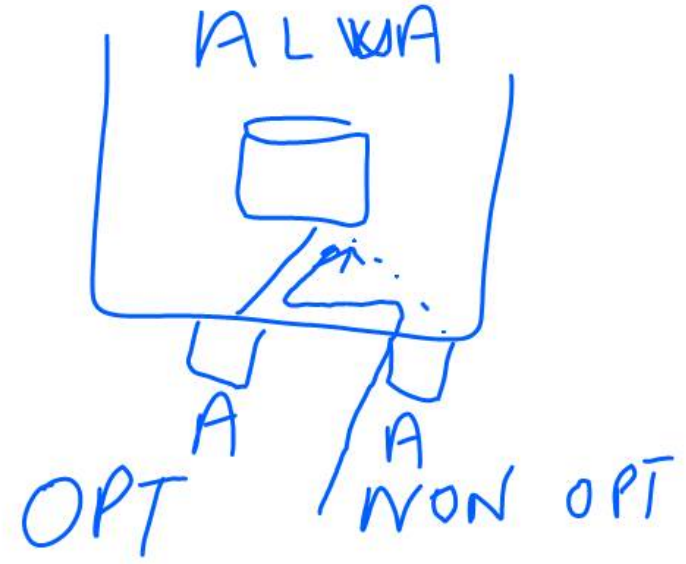
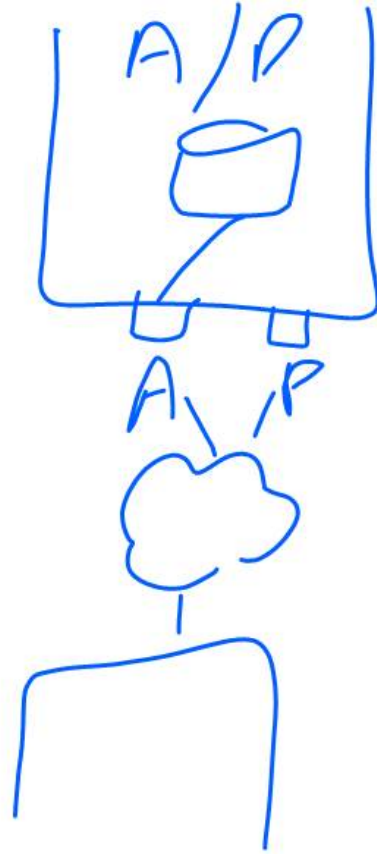
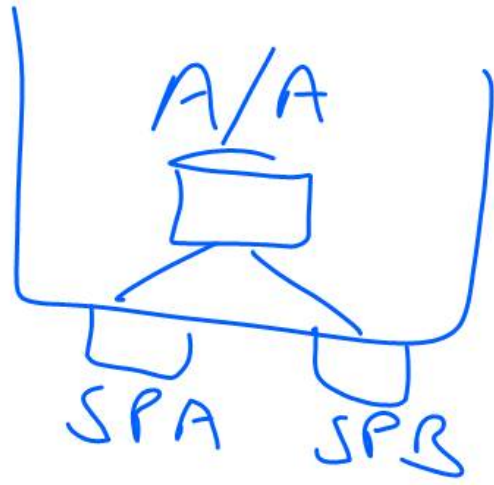


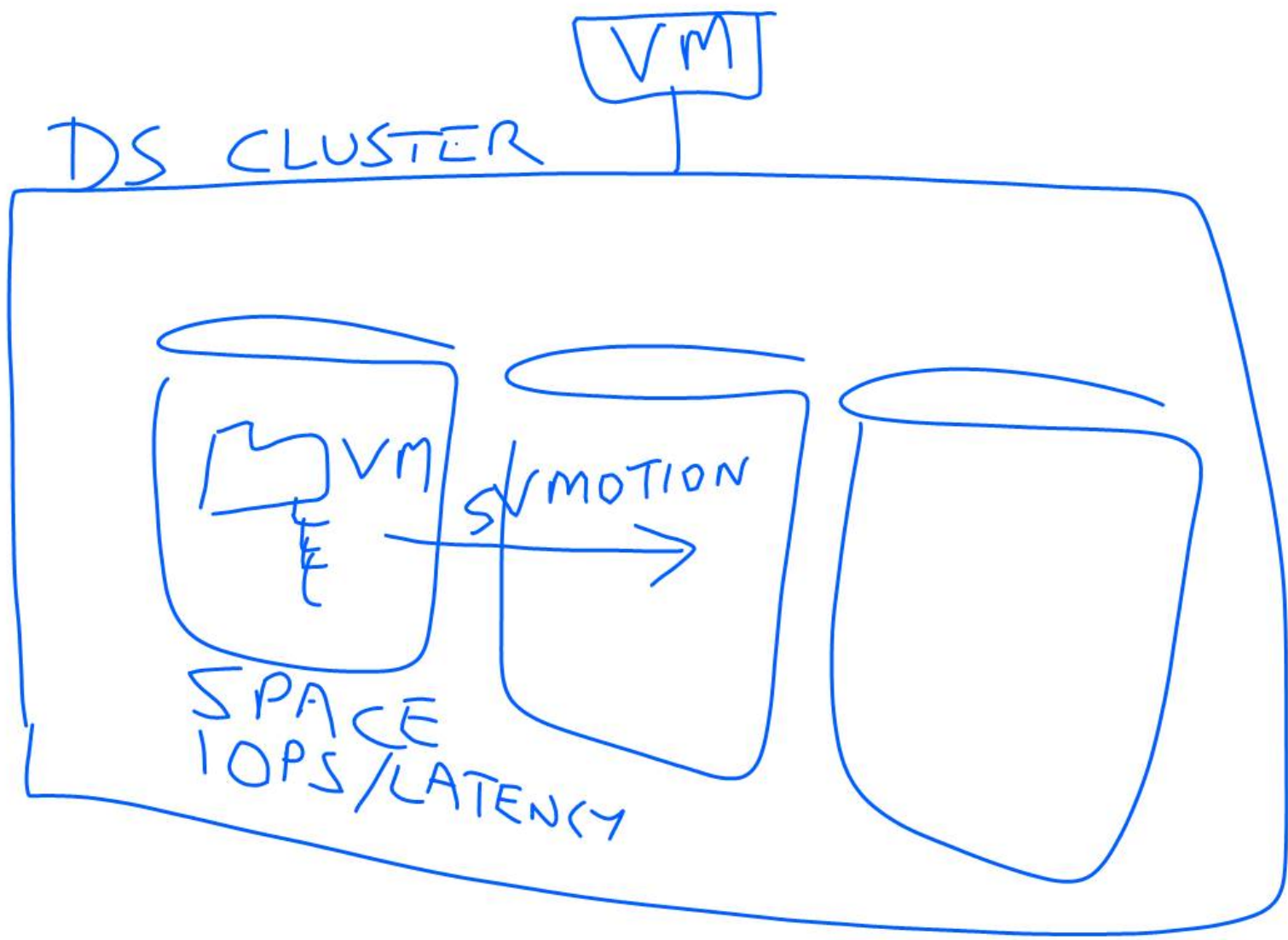
IPM (DRAC)

ILO (iPA)

WOL (NIC)







VMFS 3 (4.x)

BLOCK (MB) FILE

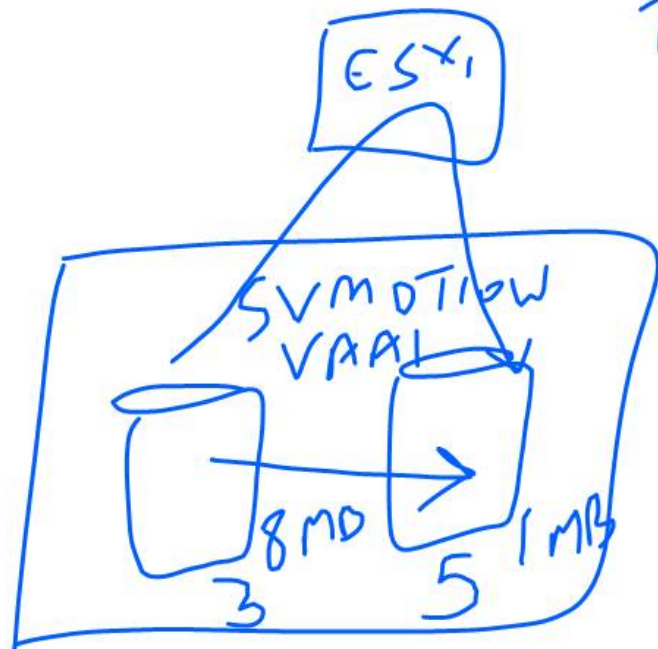
DEF → 1 256 MB
2 512
4 1 TB
8 2 TB

VMFS3 → 5
BLOCK SIZE
RETAINS

VMFS-5

BLOCK (5.x)

1 MB 62 TB



CONGESTION
AVOIDANCE SDRS

15 msec

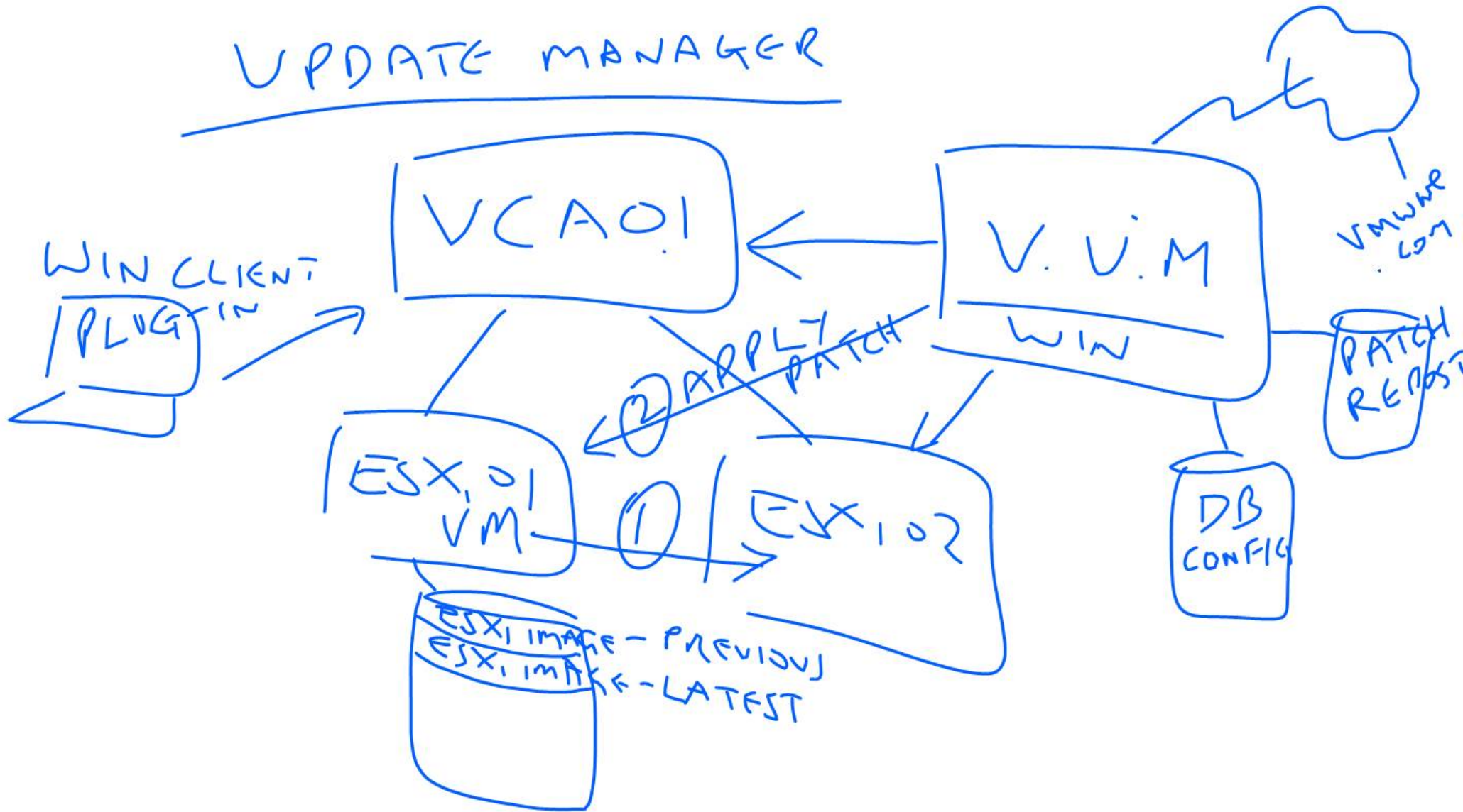
PERF MONITOR

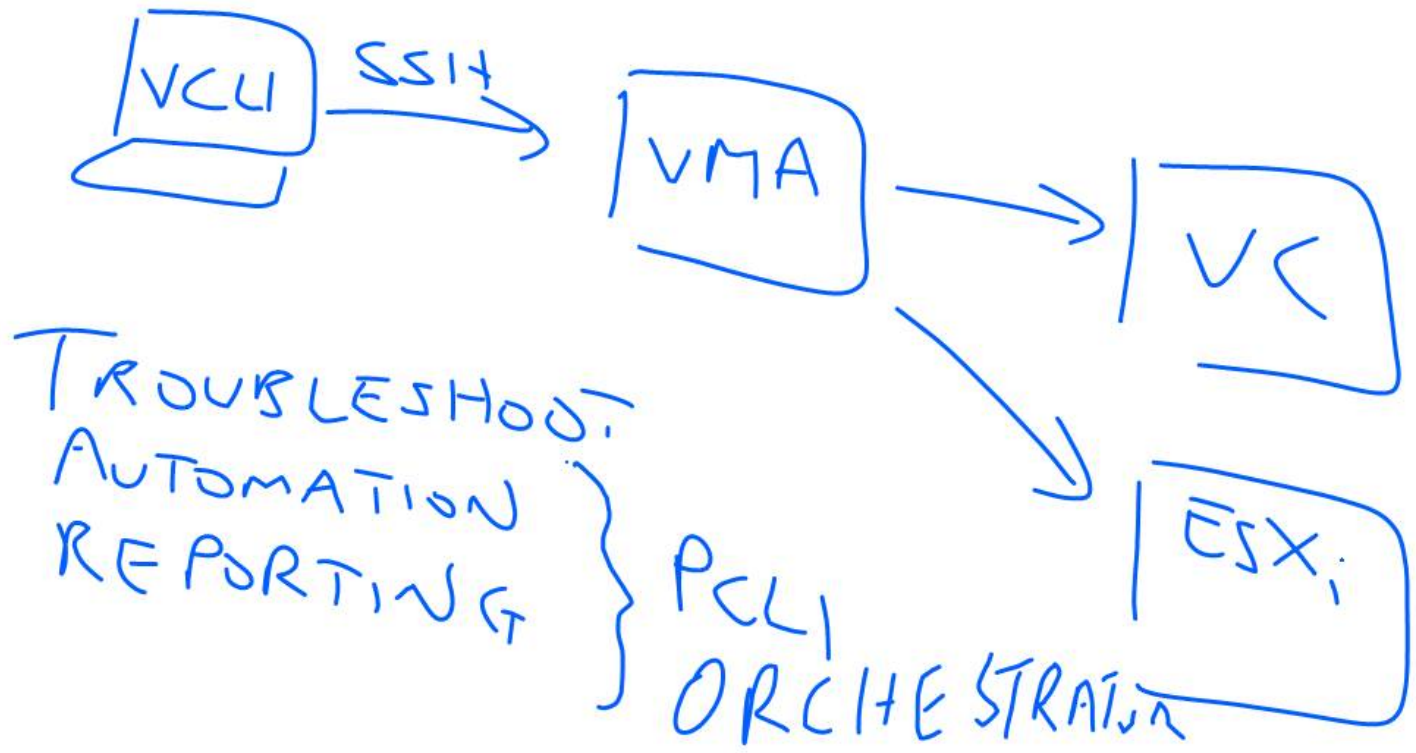
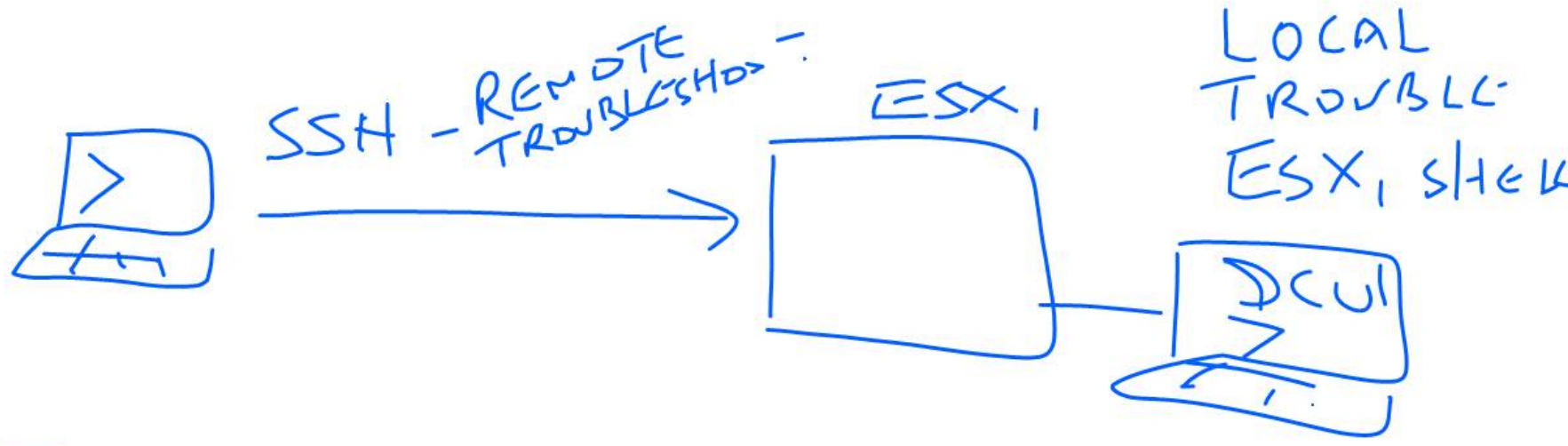
23 msec

MANAGEMENT S IOL

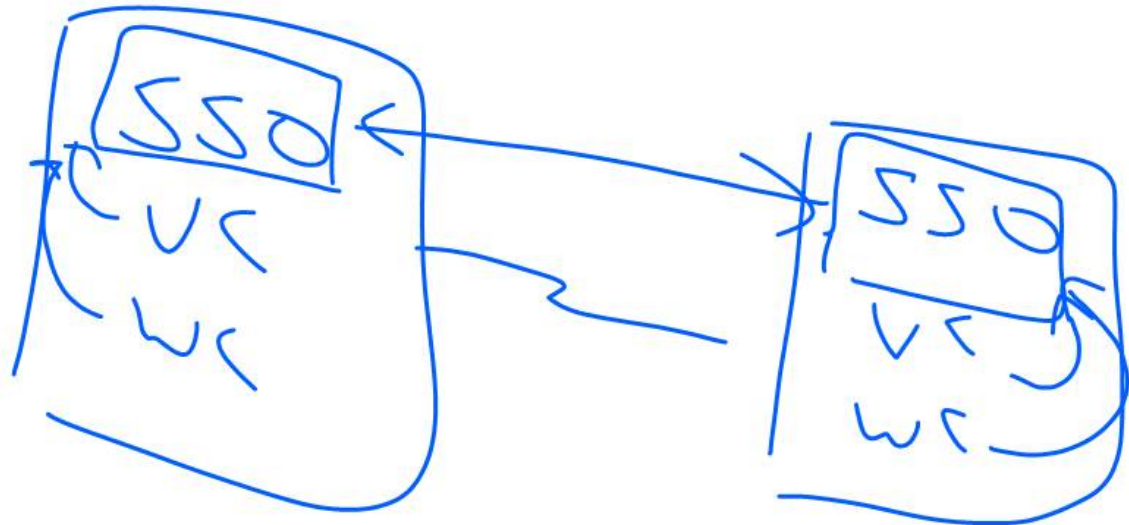
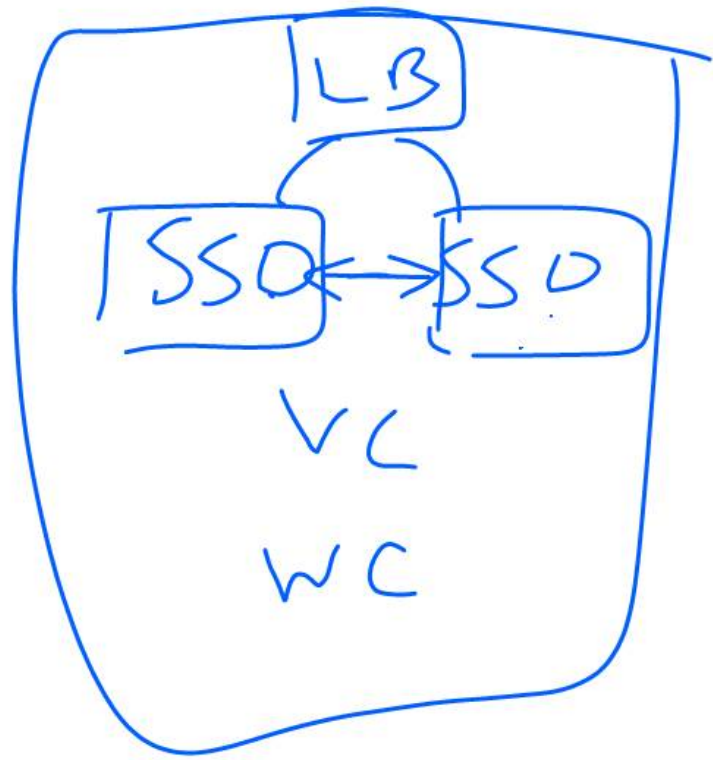
30 msec

UPDATE MANAGER





BASIC/SIMPLE



AUTODEPLOY

