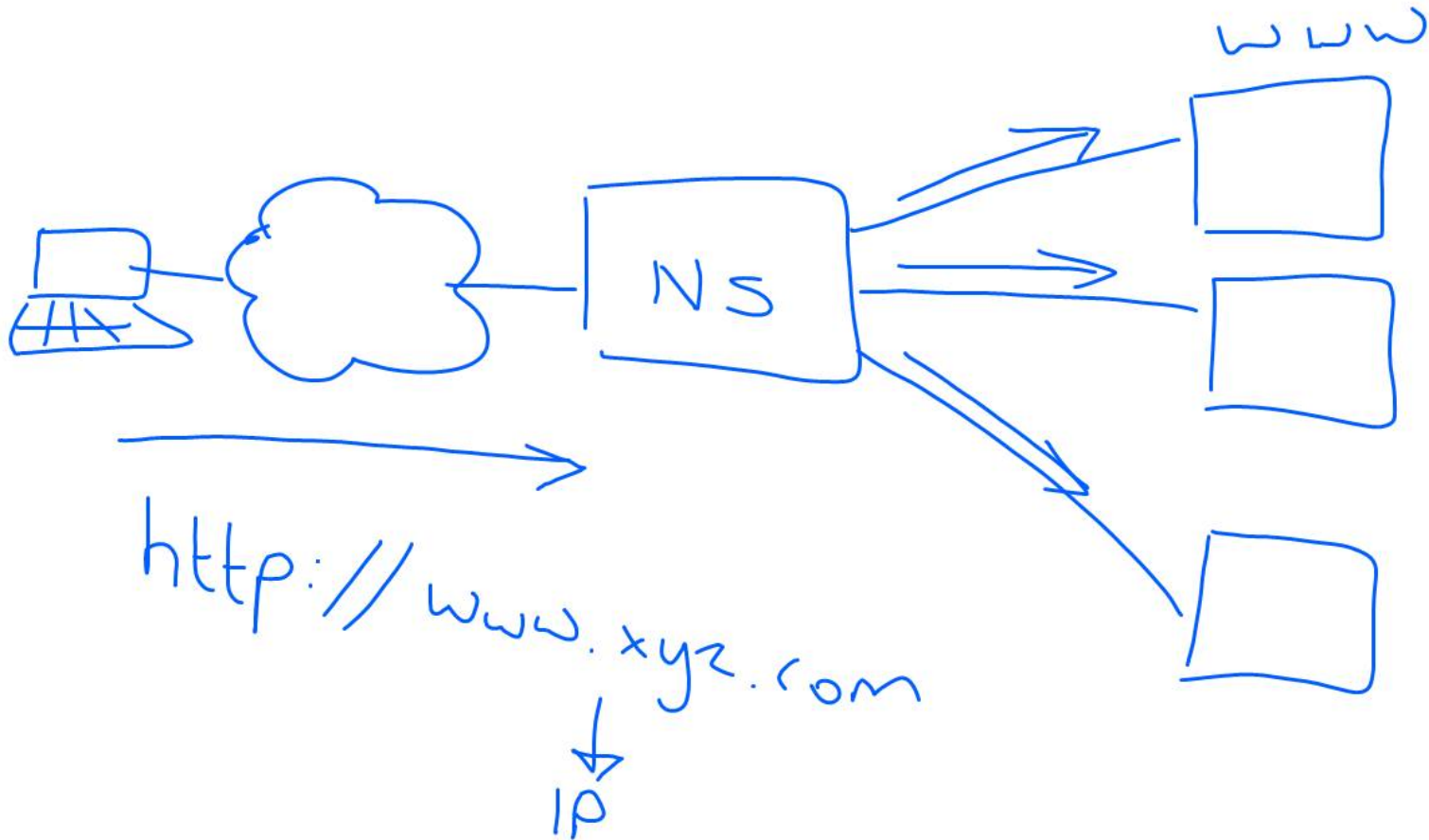
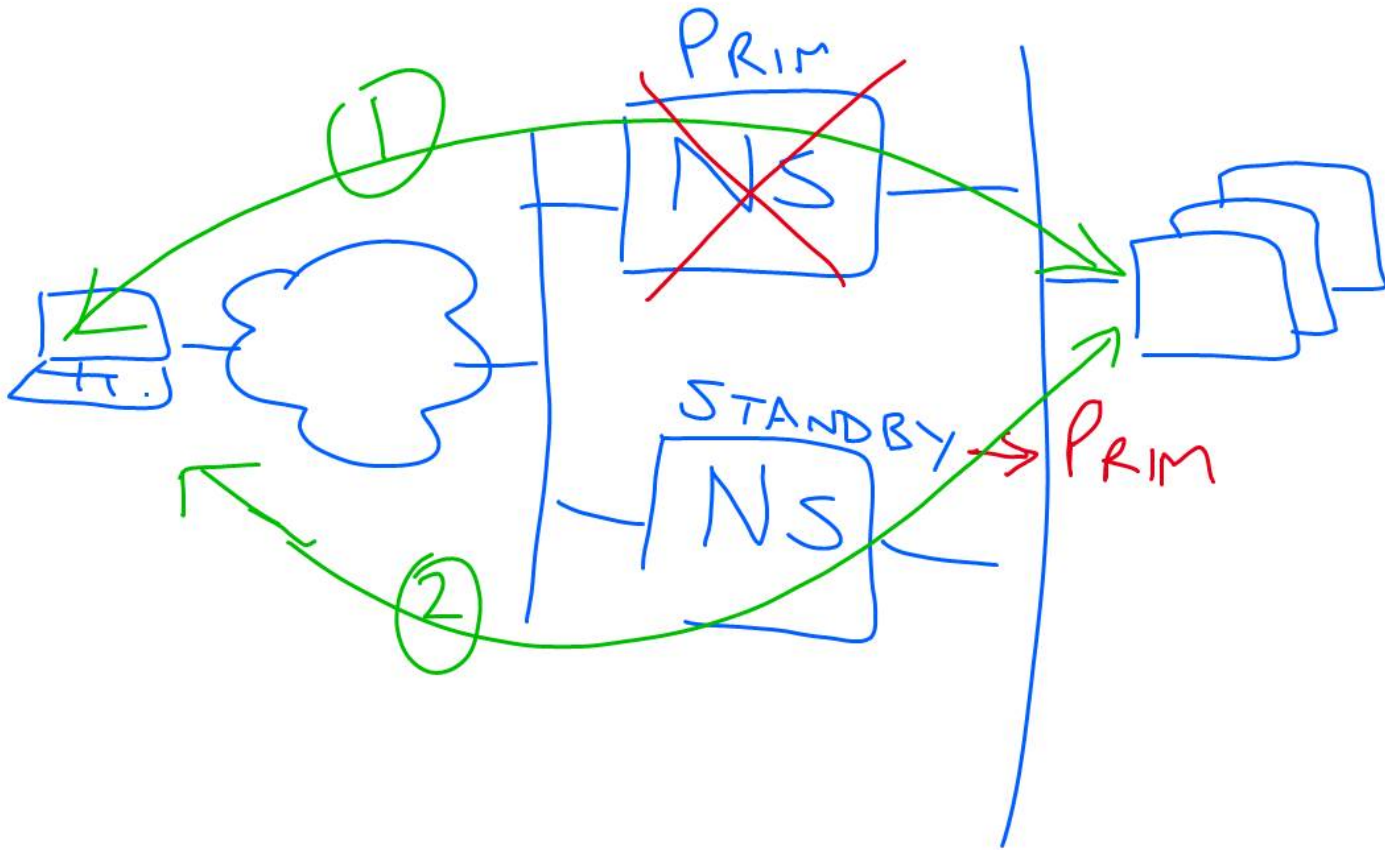


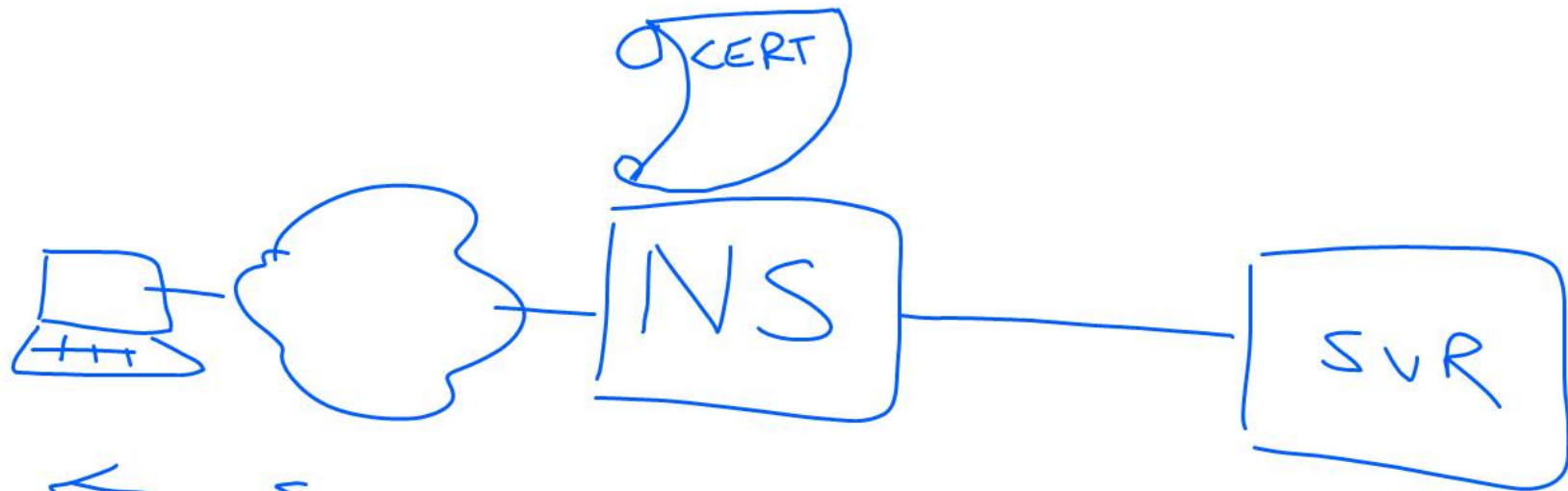
Load Balancing



H A



SSL



<https://www.xyz.com>



Rewrite

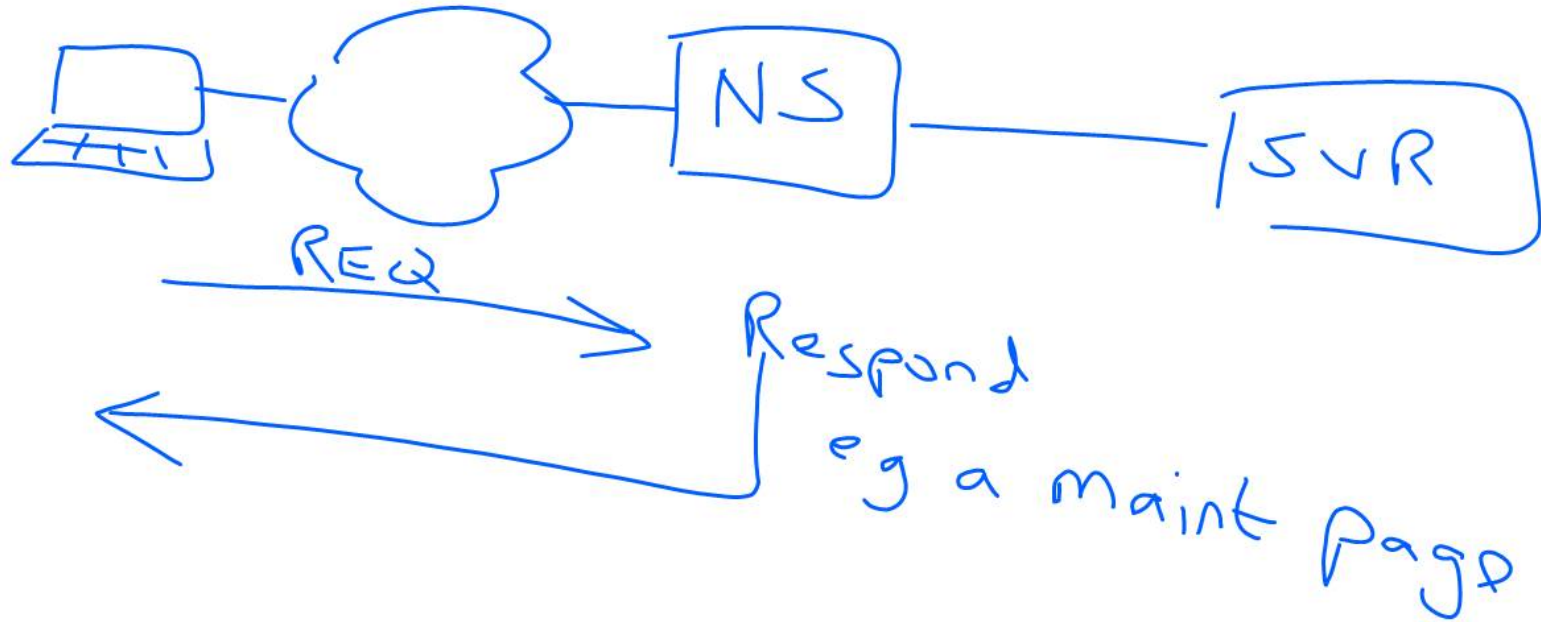


"/

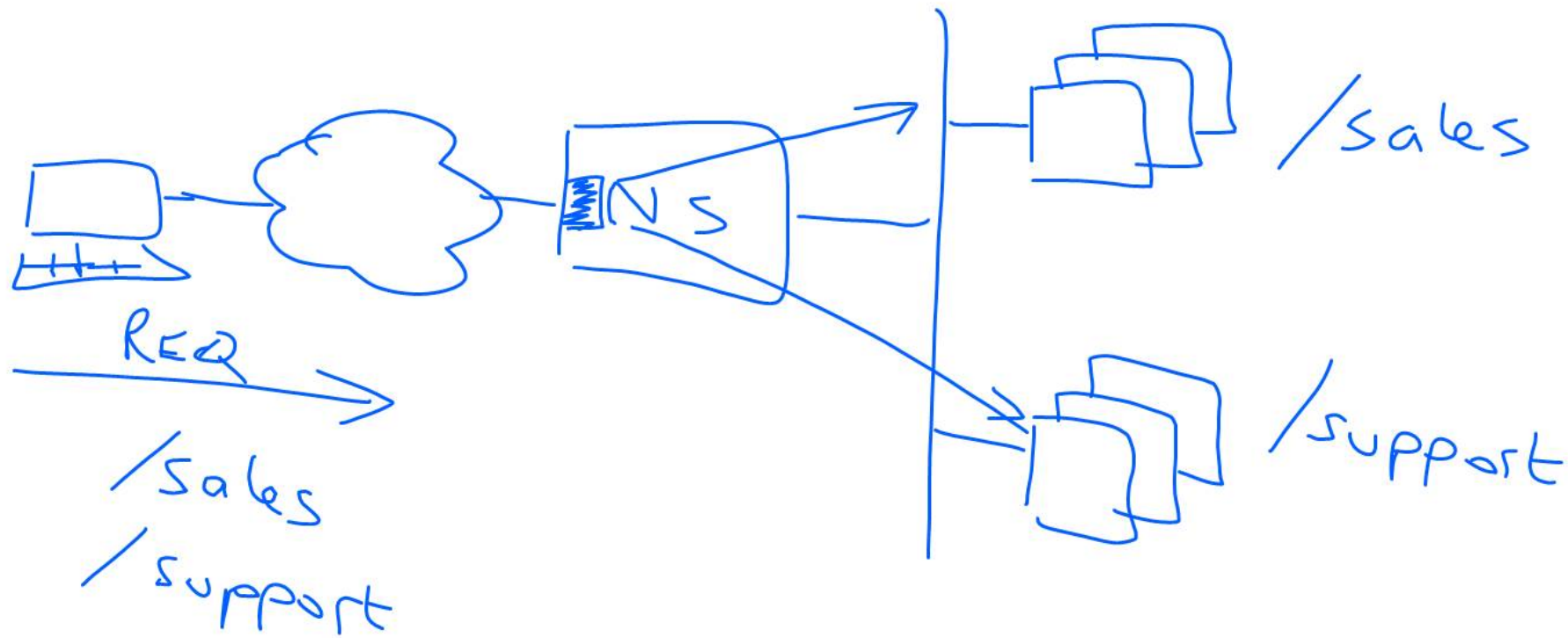
Rewrite
"/

"/newproduct.html"

Responder

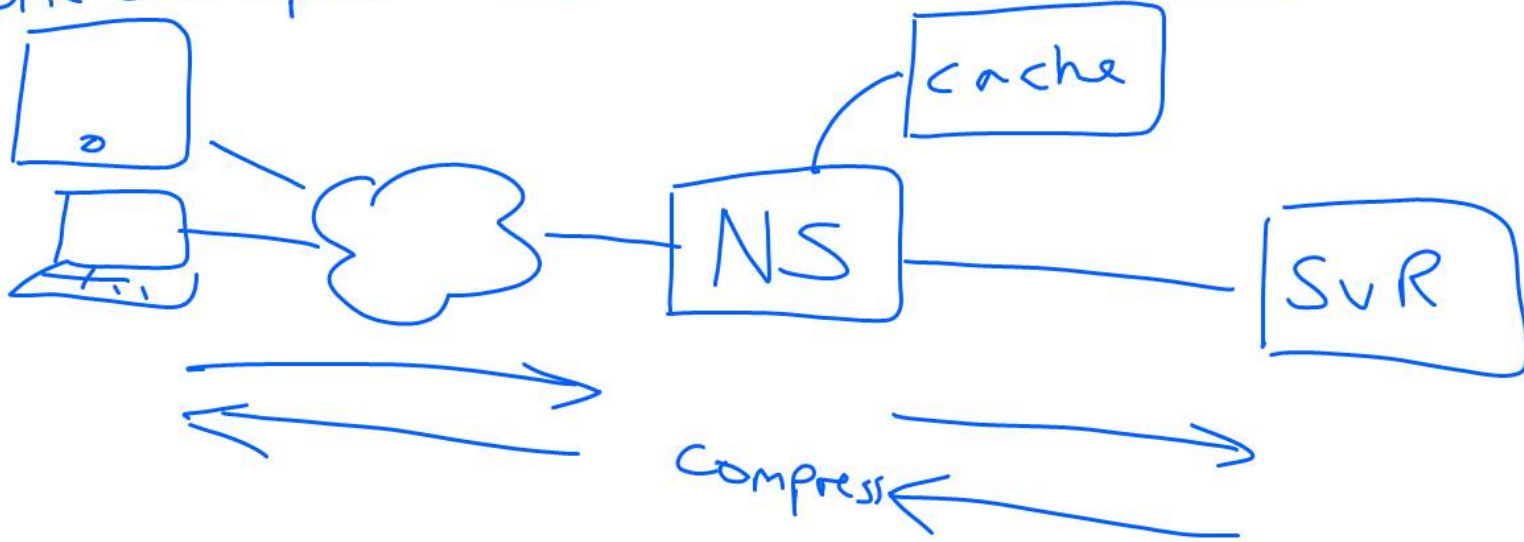


CONTENT SWITCHING

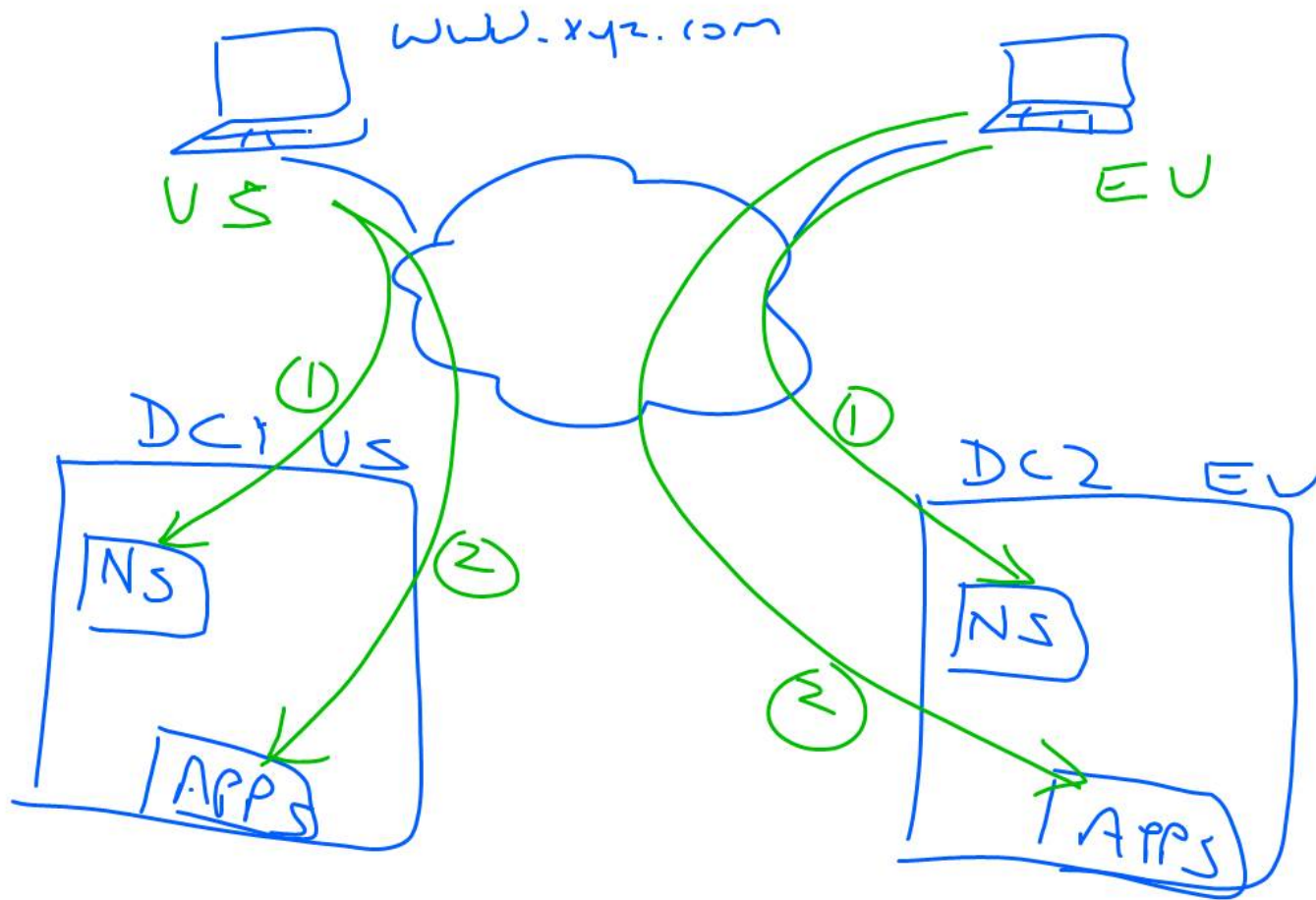


OPTIMIZATION

Front End opt..



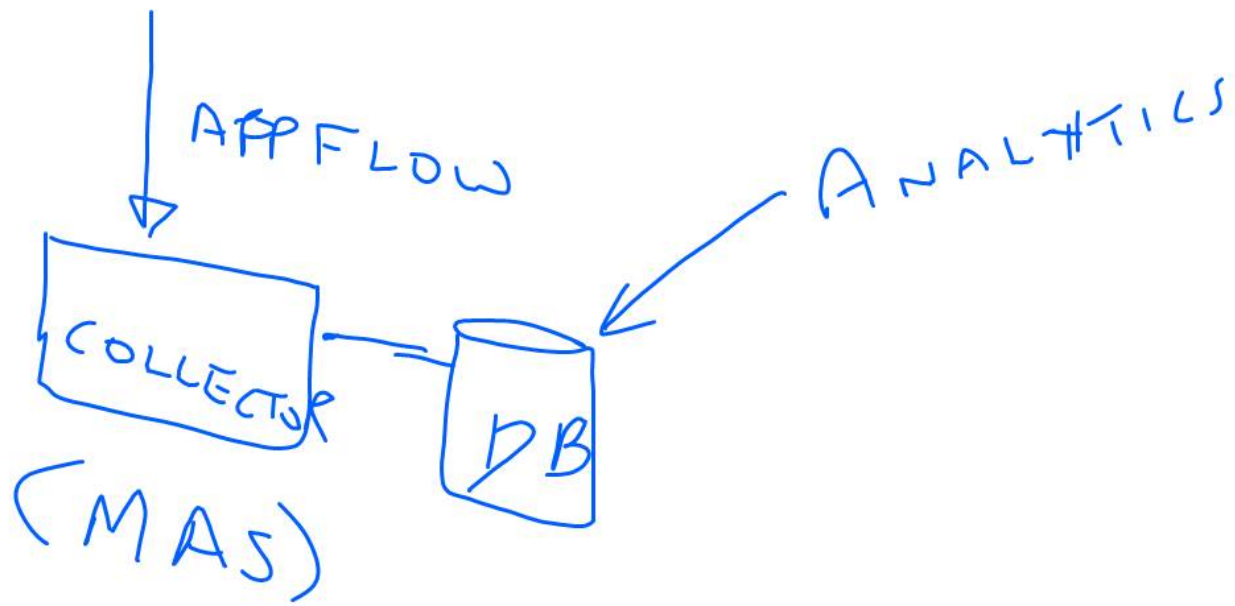
FS LB (DNS)



APPFLOW

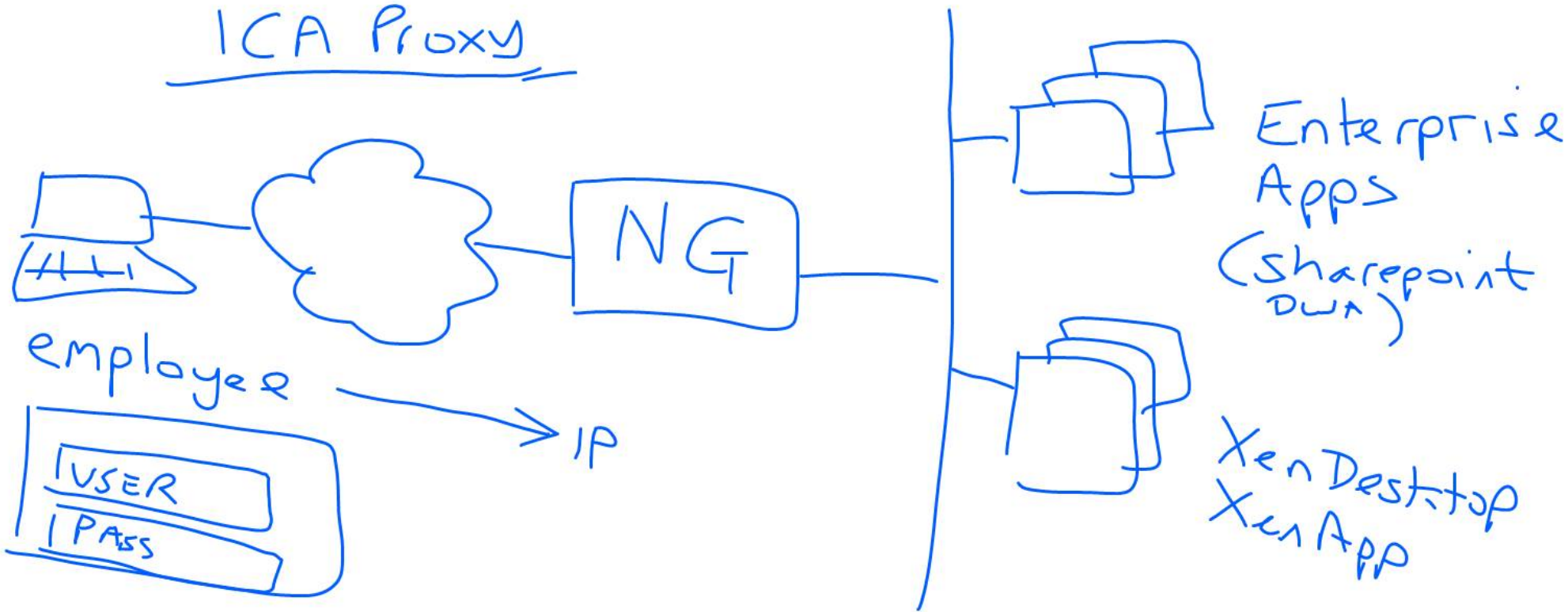


NetFlow
↓
IPFIX
↓
APPFLOW



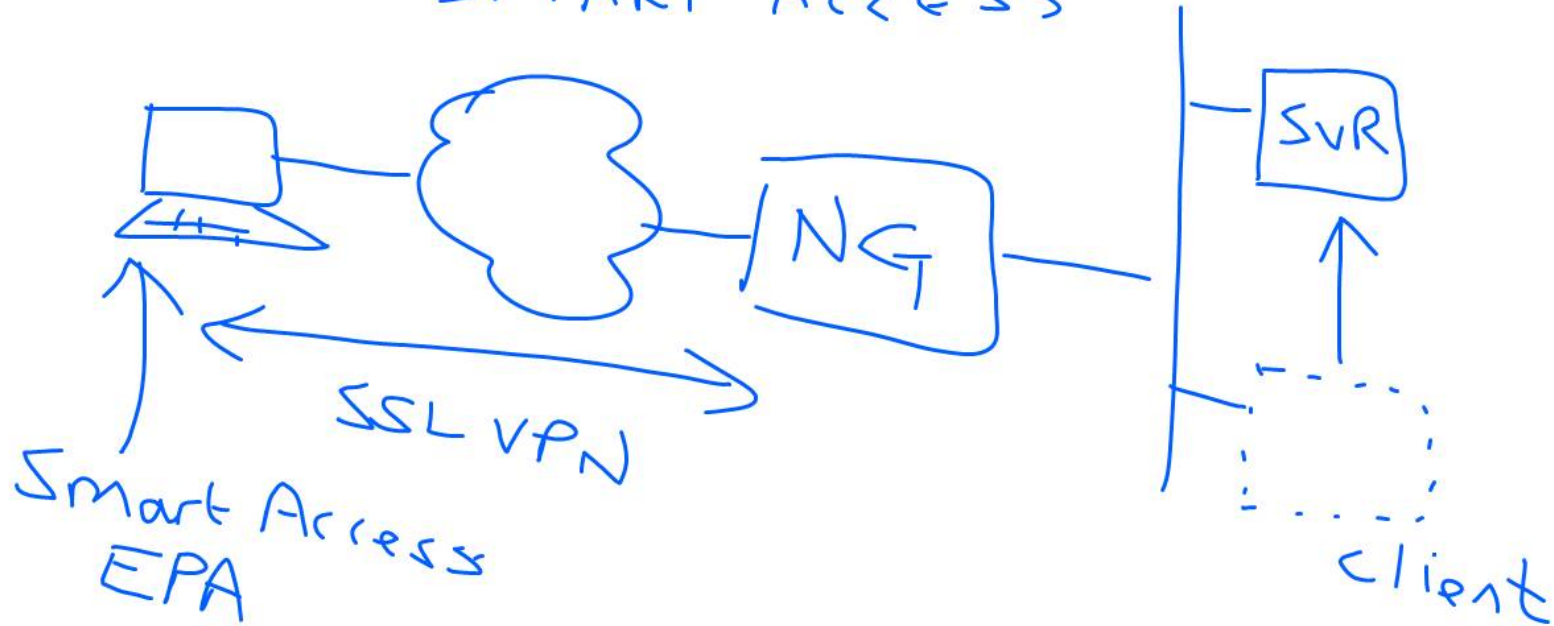
NETSCALER / ADC GATEWAY

ICA Proxy



ADC Gateway

ICA Proxy
SSL VPN
SMART ACCESS



Platforms

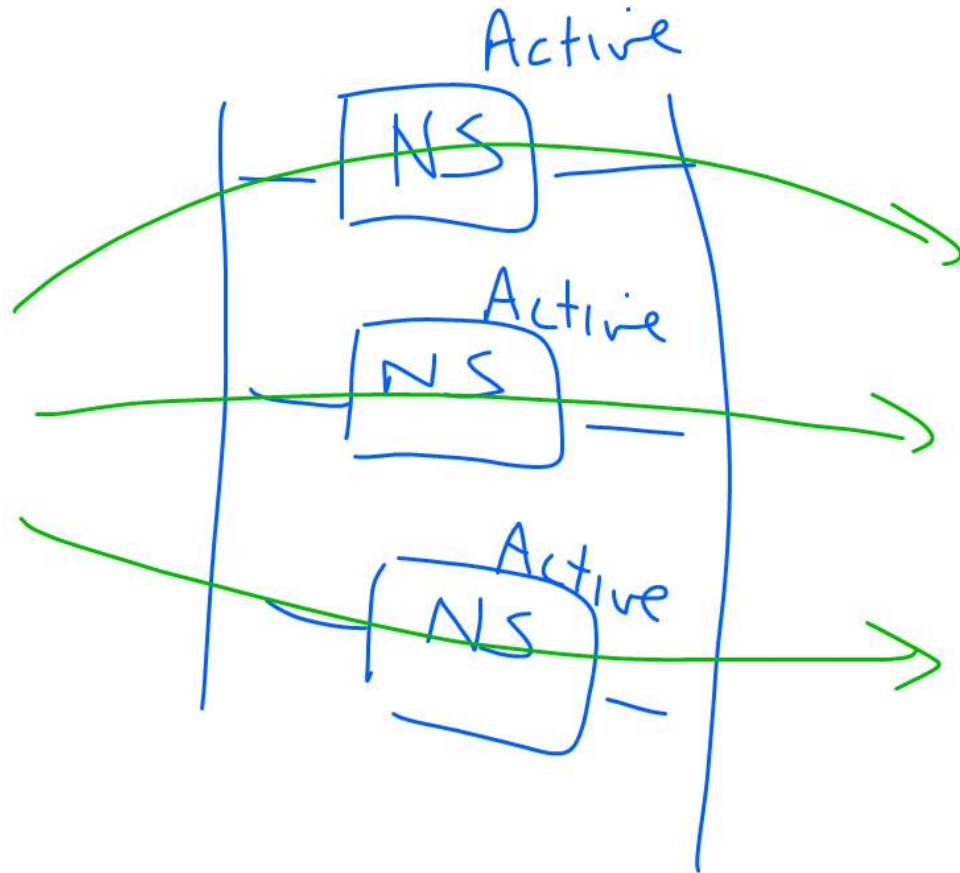
MPX - Hardware

SDX - Multi-tenant

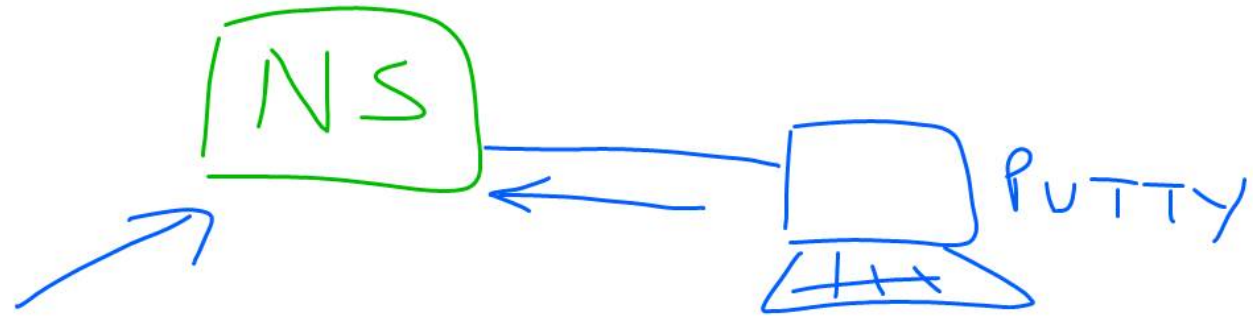
~~S~~VPX - Virtual Appliance

CPX - Containers

CLUSTER



Logging ~~is~~ in using SSH



MPX

Default 192.168.100.1

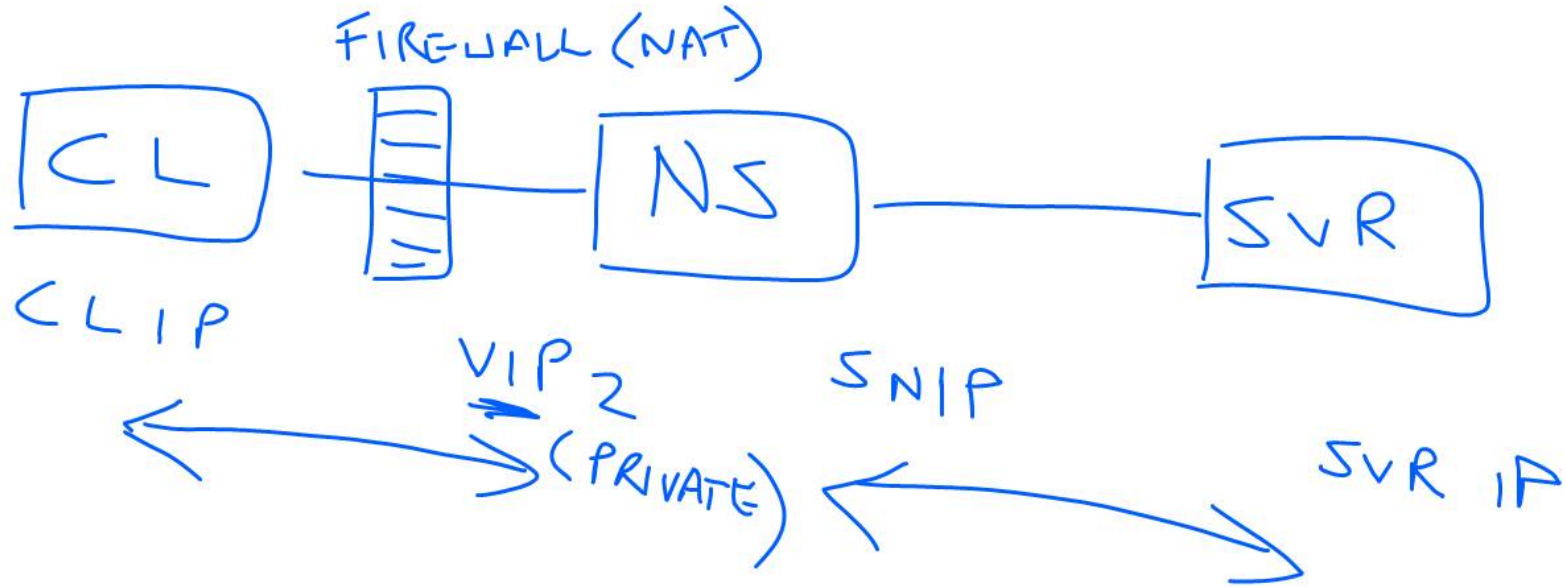
VPX

~~▶~~ Prompts.

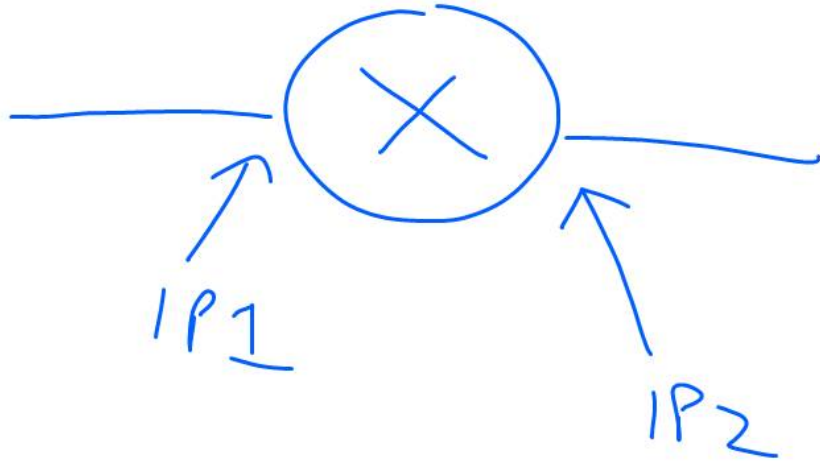
```
> (NS CLI)
> shell
# (BSD)
```

SNIP

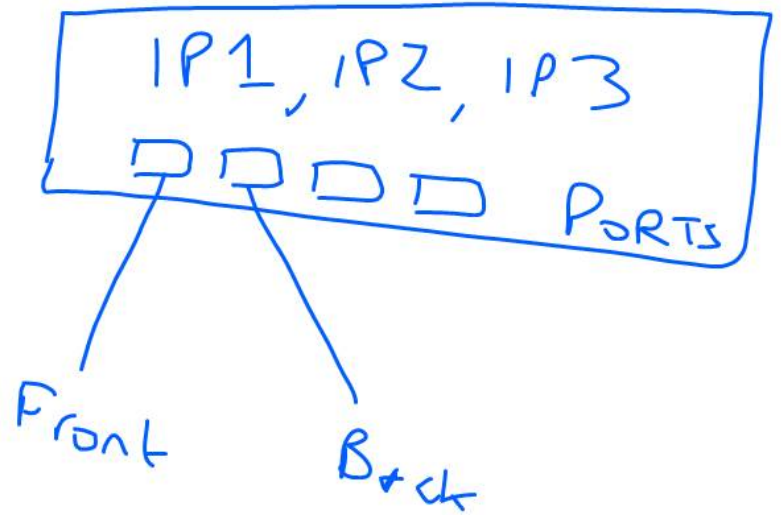
http://www.xyz.com → VIP1 (PUBLIC)



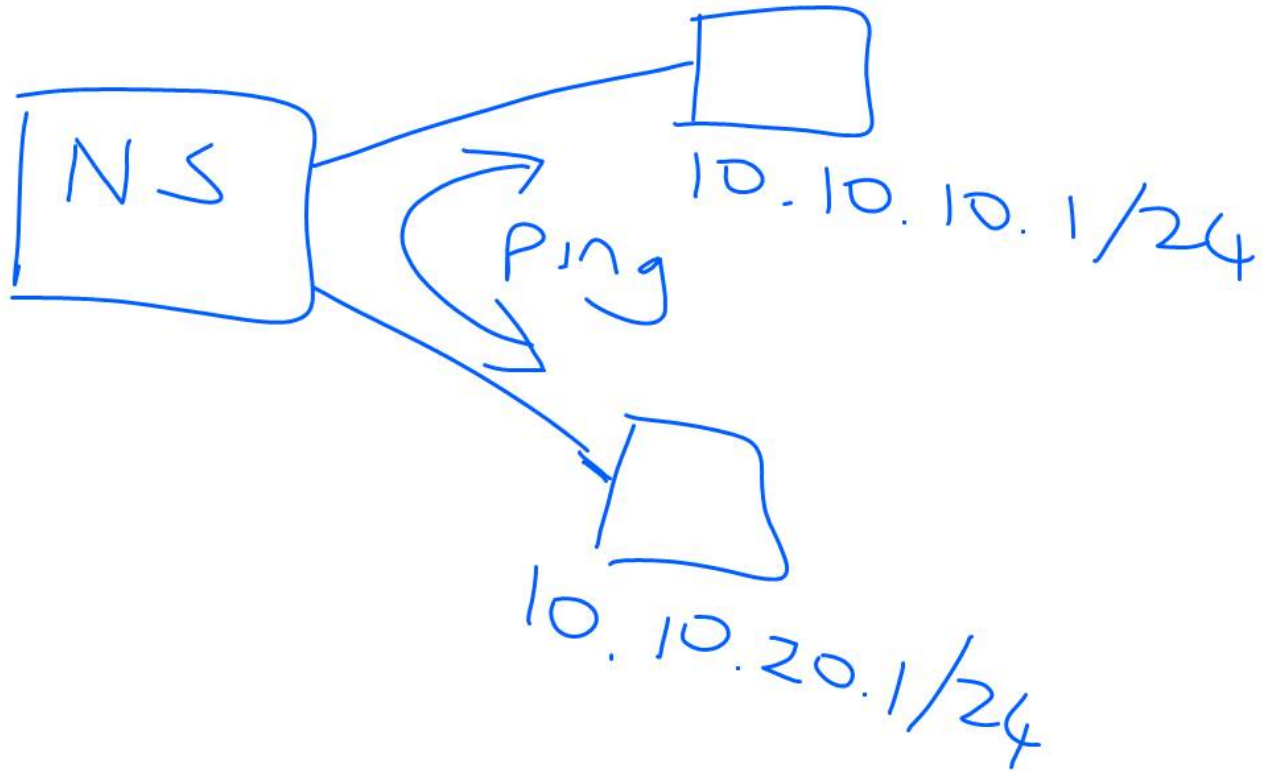
ROUTER



NS



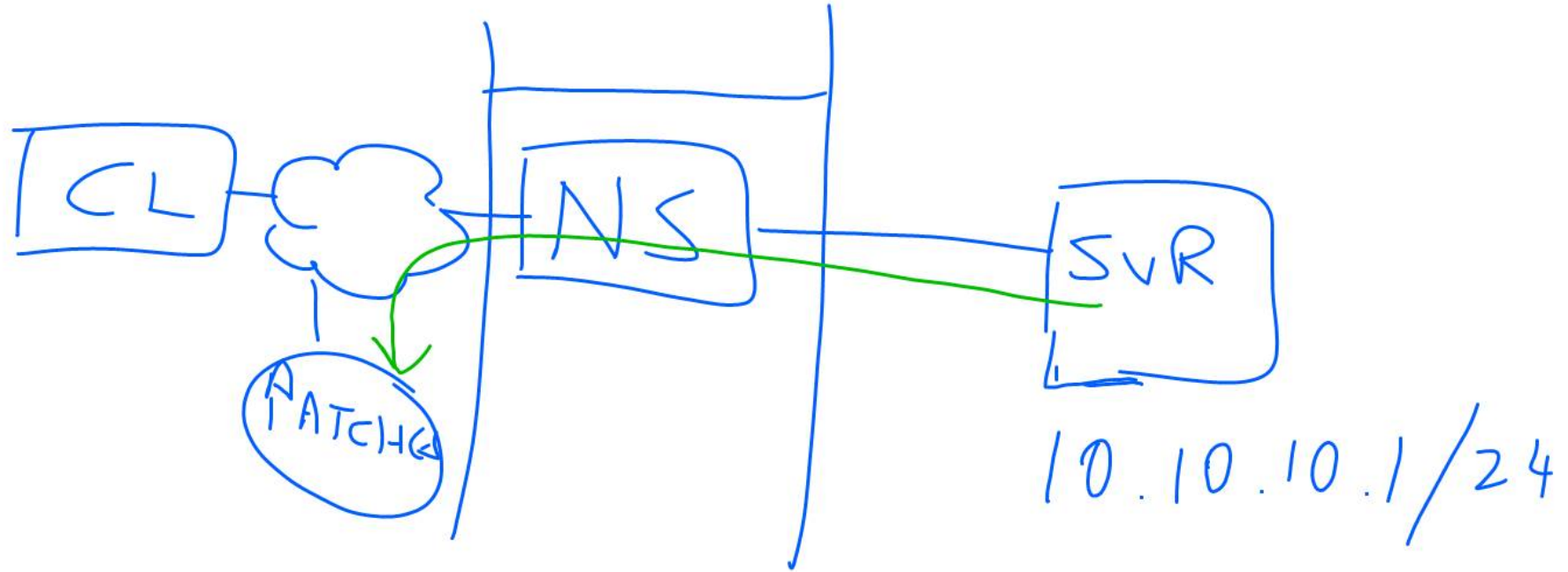
L3 mode (default)



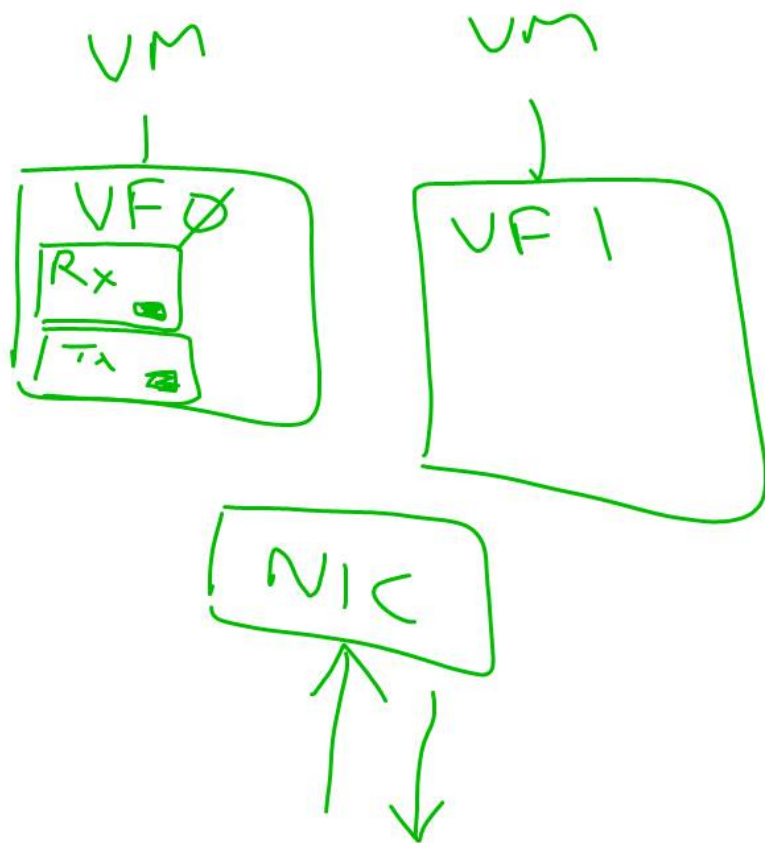
L2 MODE (not default)



NAT



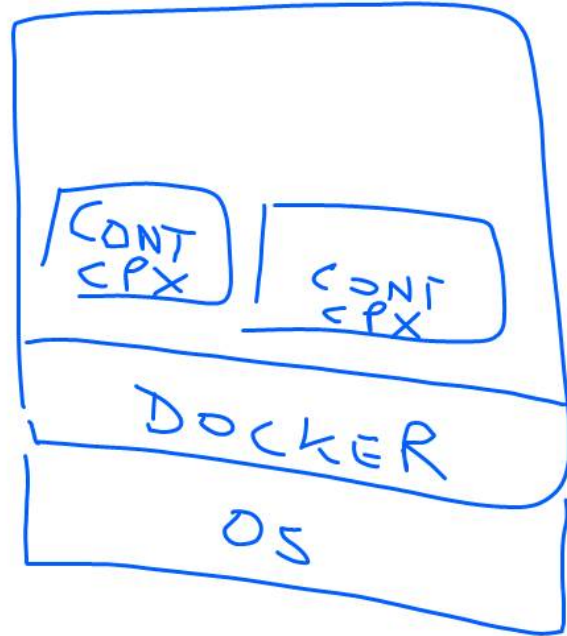
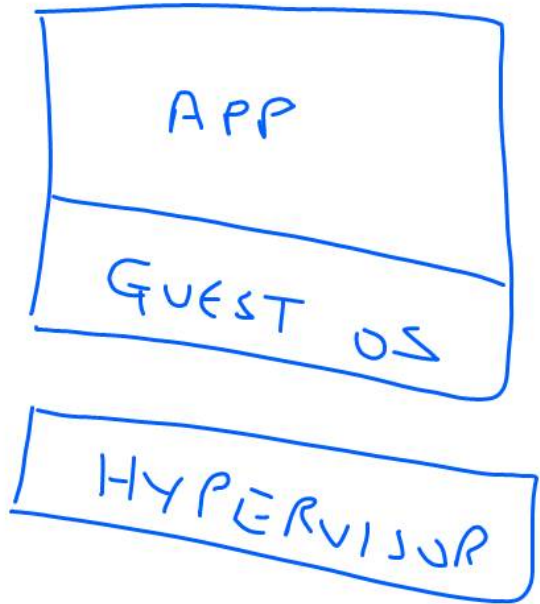
SR-IOV



CPX

- CLI ONLY
- ADM for Automation (MAS)

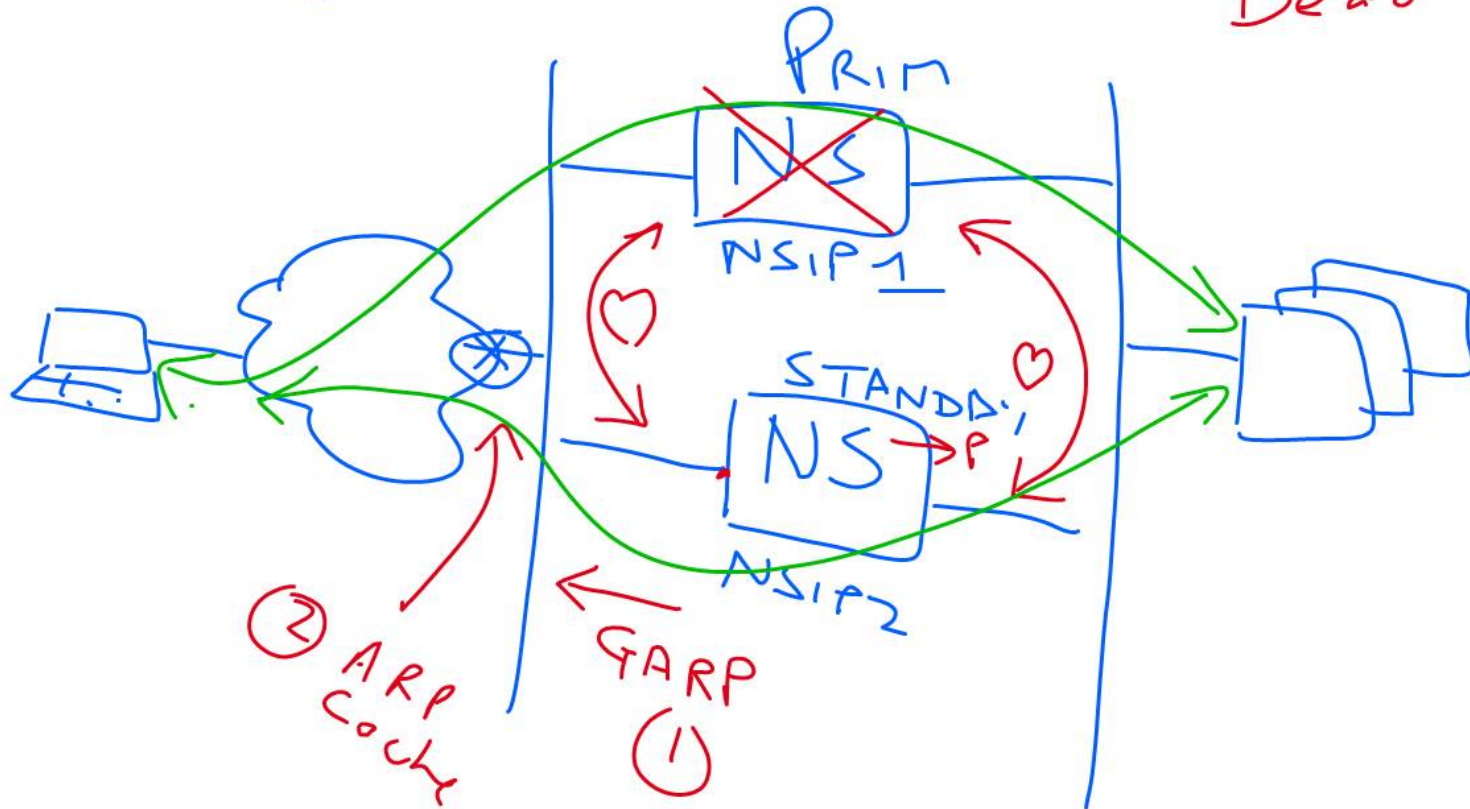
VM



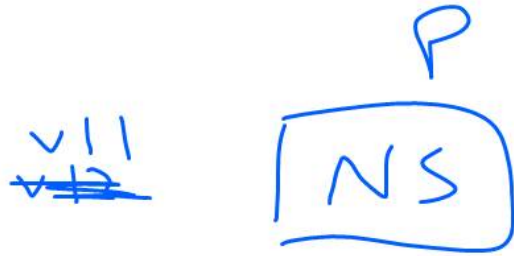
SNIPs } FLOATING
VIPs }

HA

♡ 200msec
Dead 3secs



Config



↓
Config Prop & Sync
File Sync

UPGRADE

$v11 \rightarrow v12$ | NS $P \rightarrow S$ ③ UPGRADE.

$v11 \rightarrow v12$ | NS $S \rightarrow P$ ① UPGRADE
② FORCE FAILOVER

H/A SETUP

existing
config



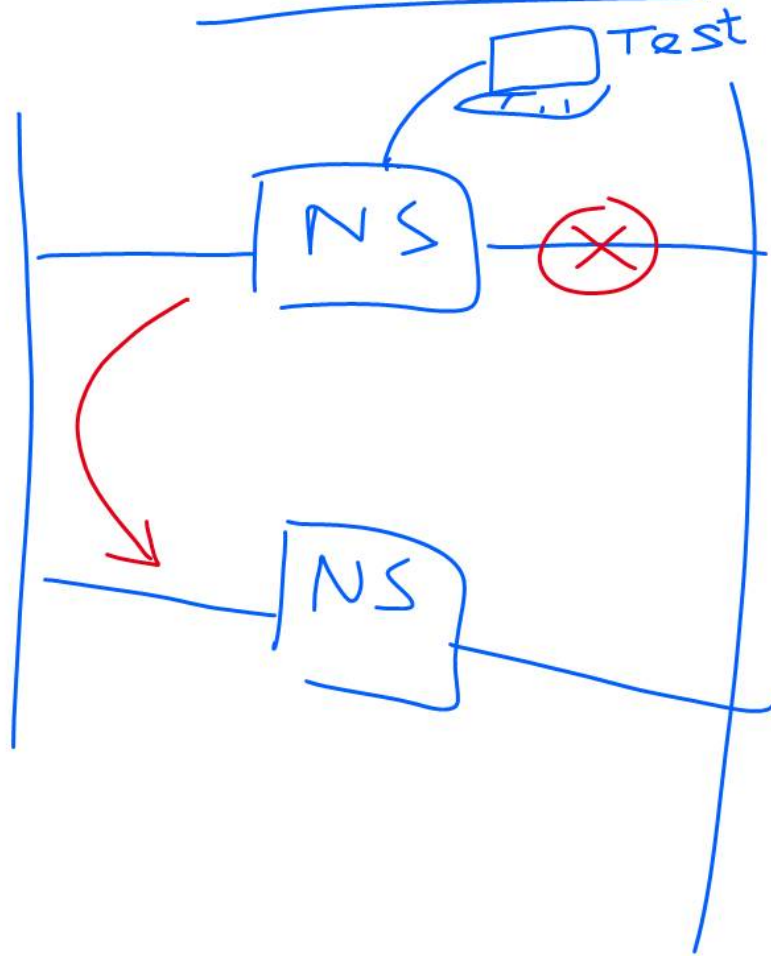
② ADD NSIP OF NS2

blank
config



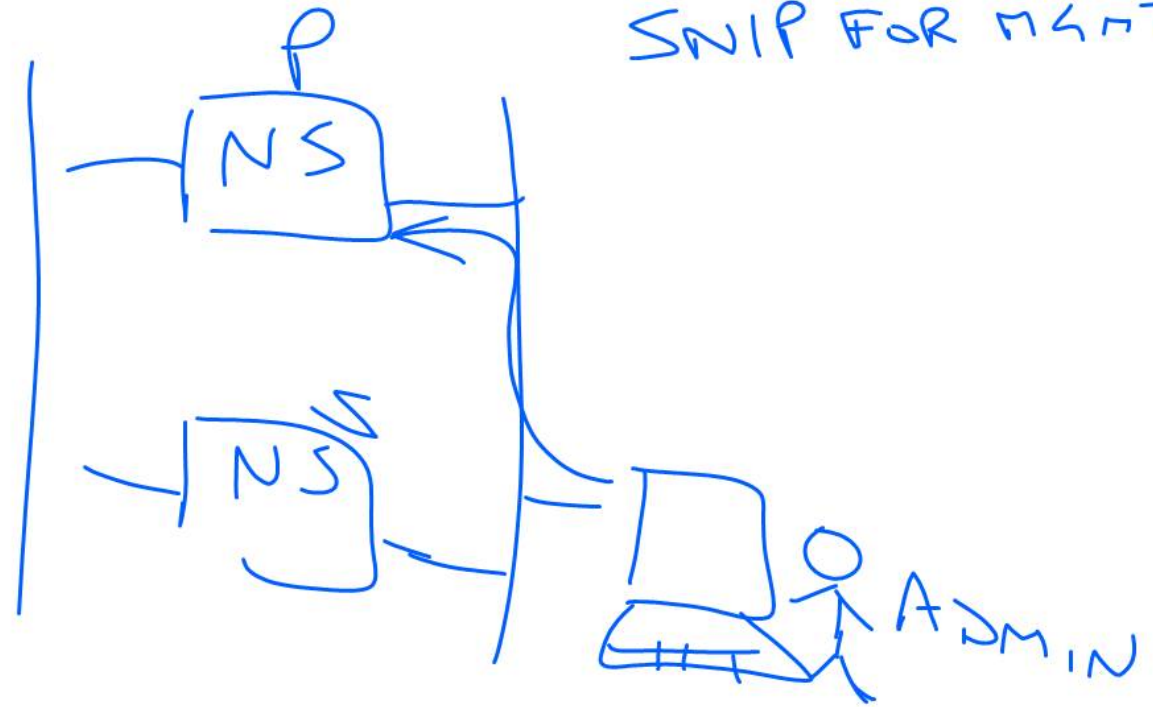
① STAY SECONDARY

H/A INT/F

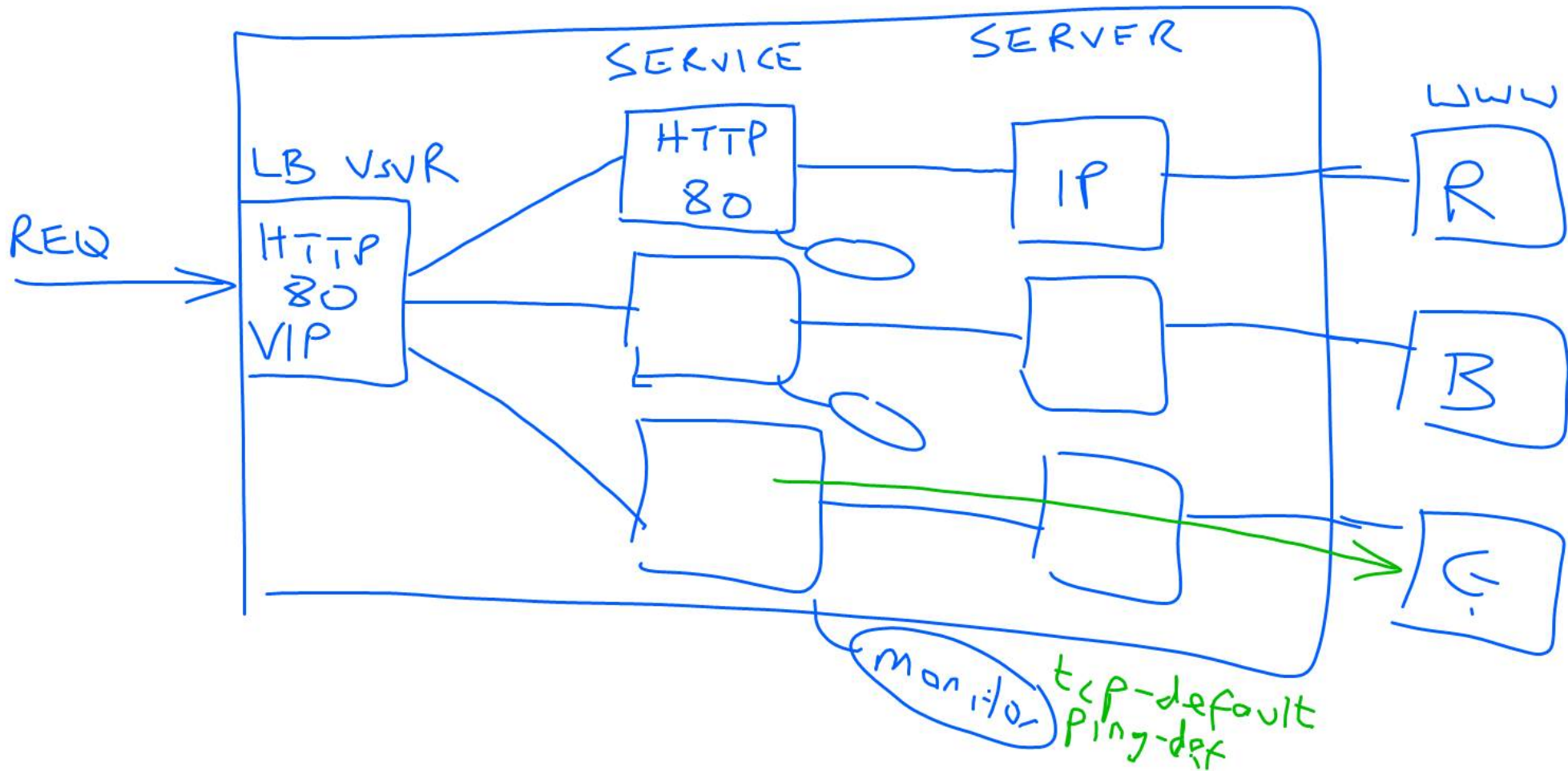


HA MGMT

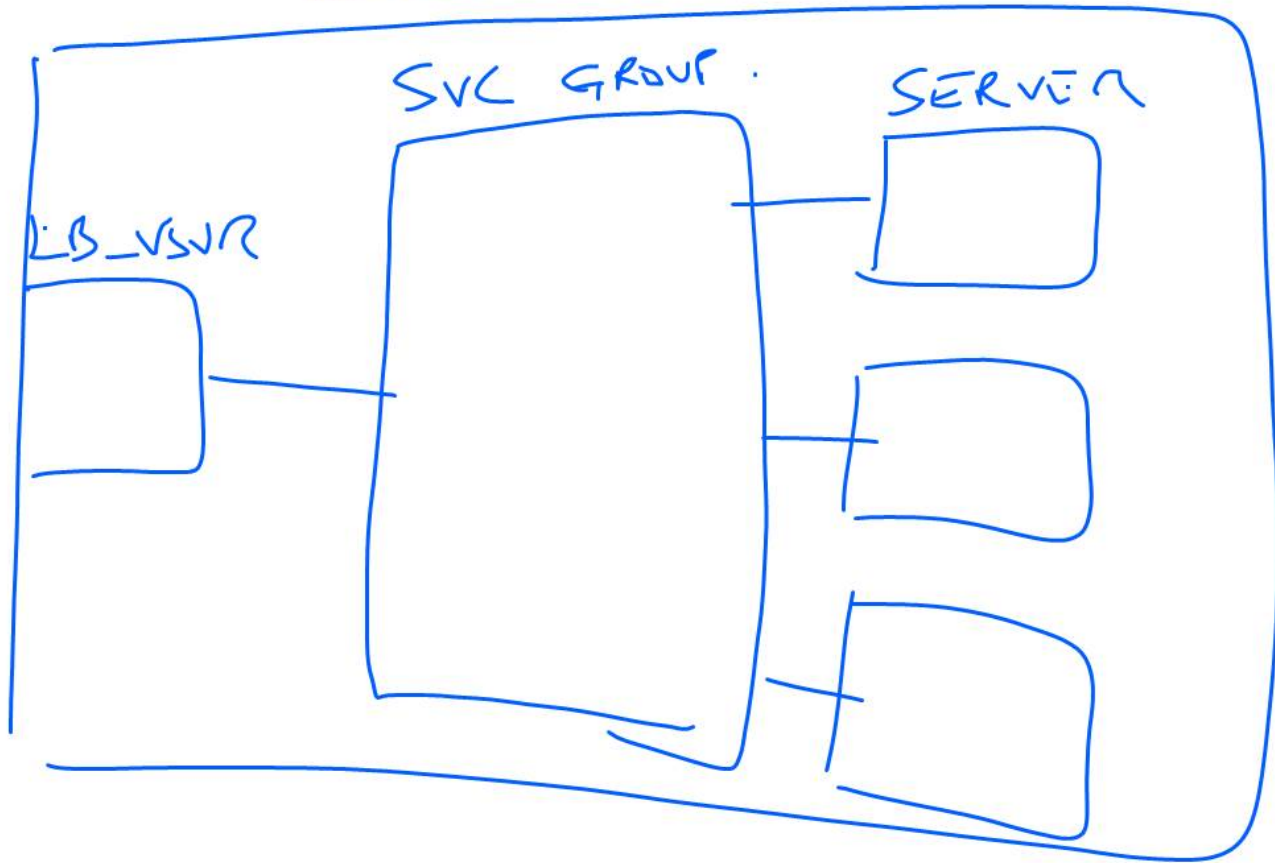
SNIP FOR MGMT

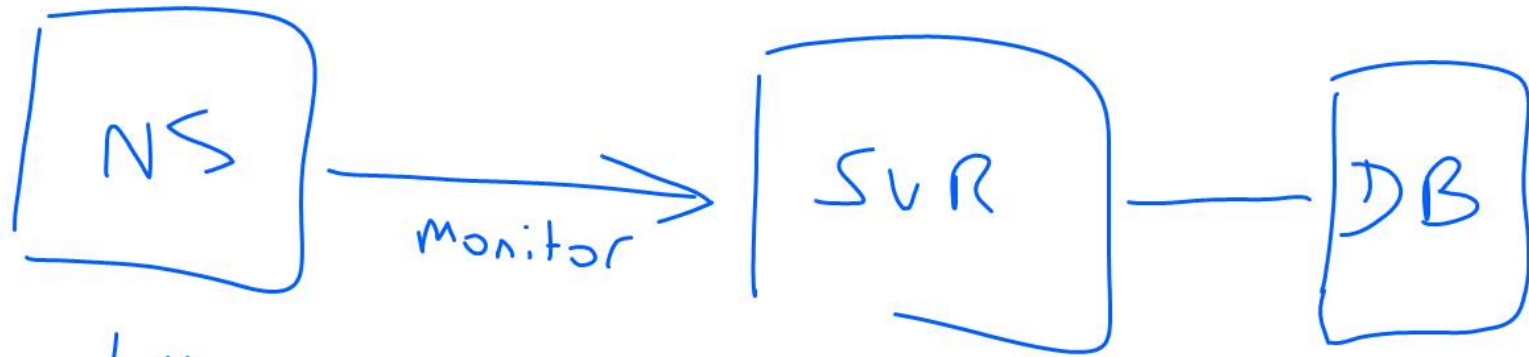


LOAD BALANCING



EASIER CONFIG



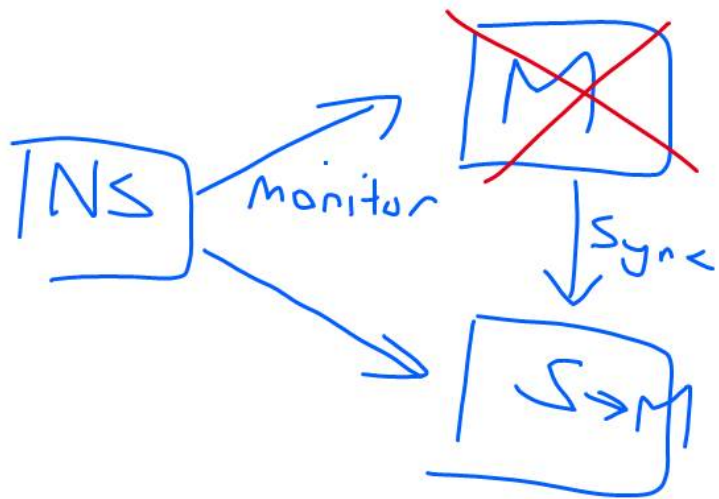


http
/healthpage.htm

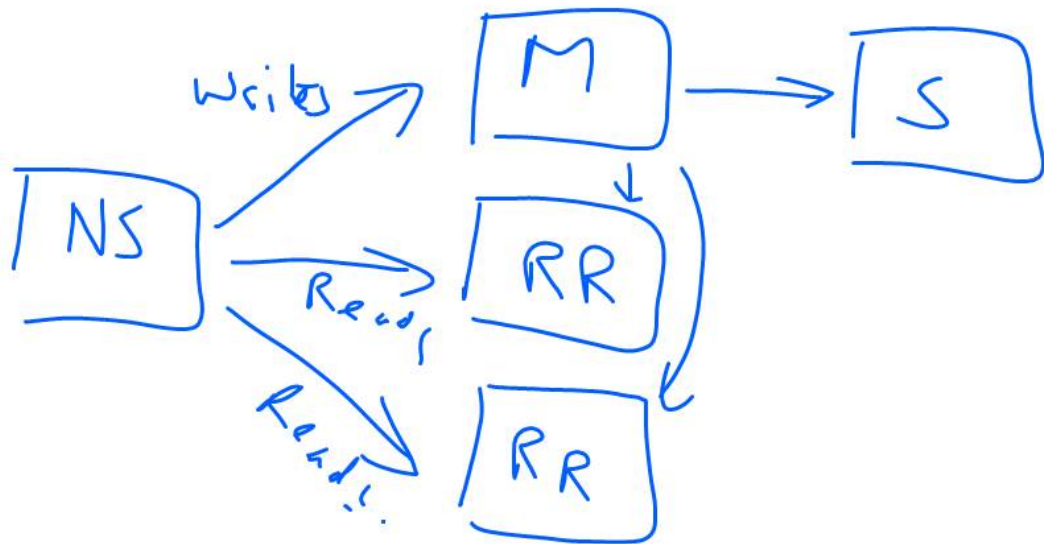
"SQL:OK"

DB Load Balancing

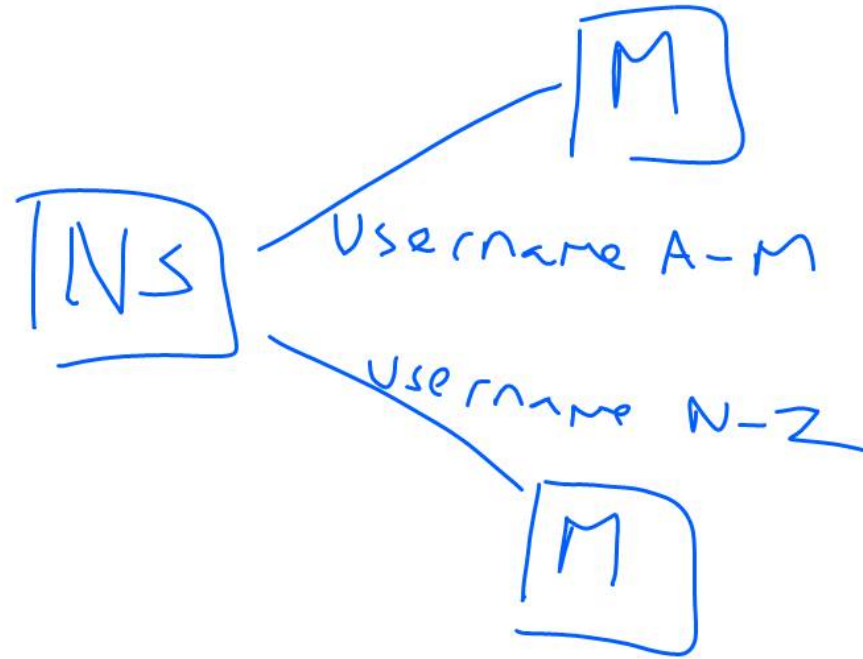
Relational



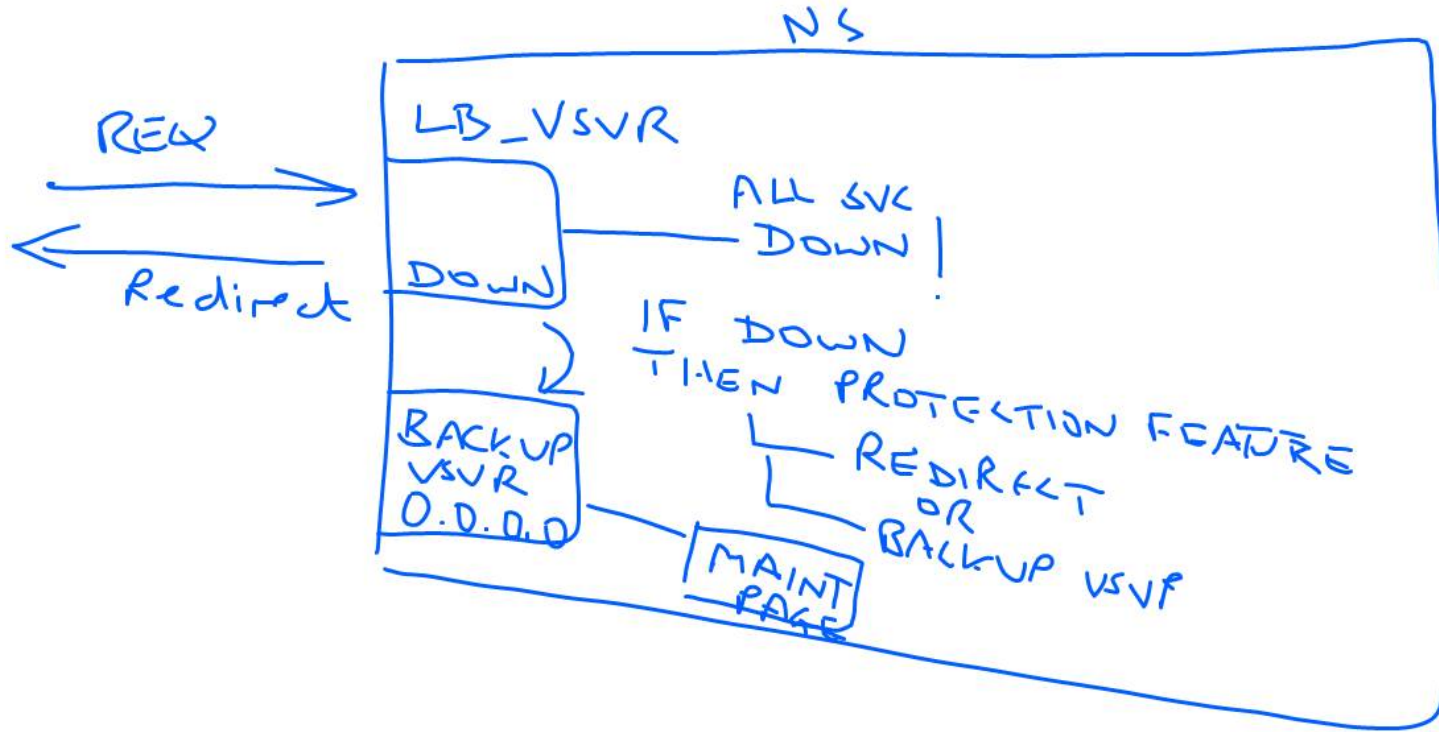
Scale



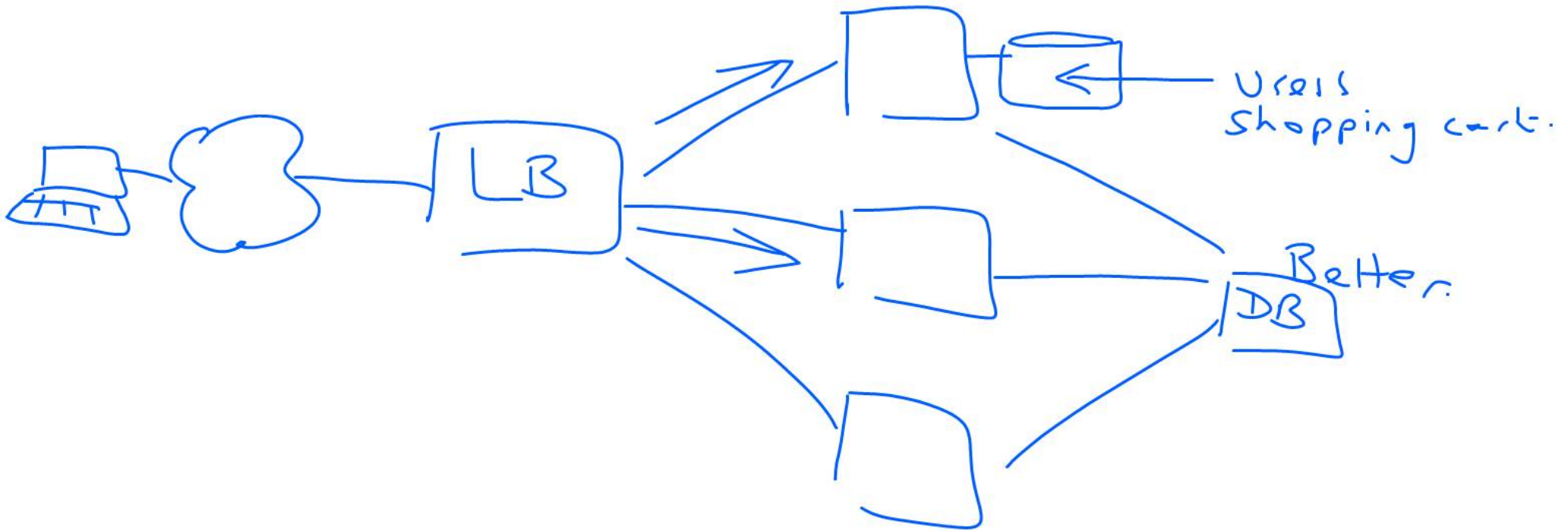
DB SHARDING



Protection



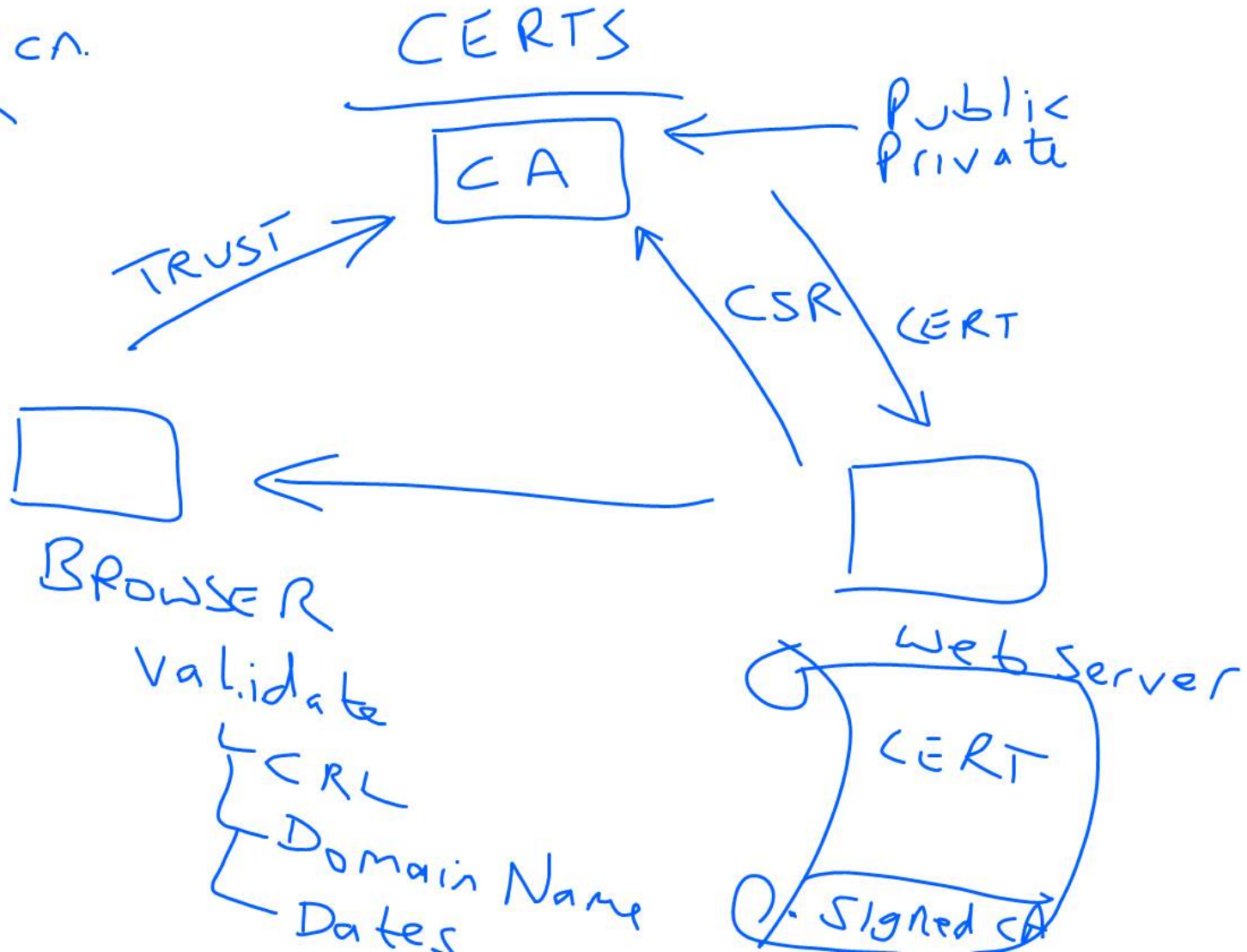
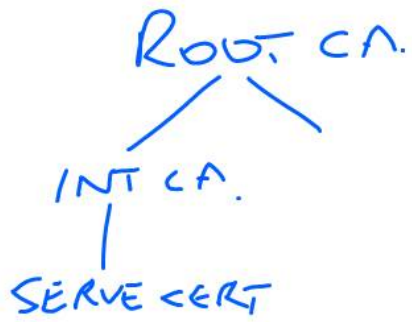
Persistence



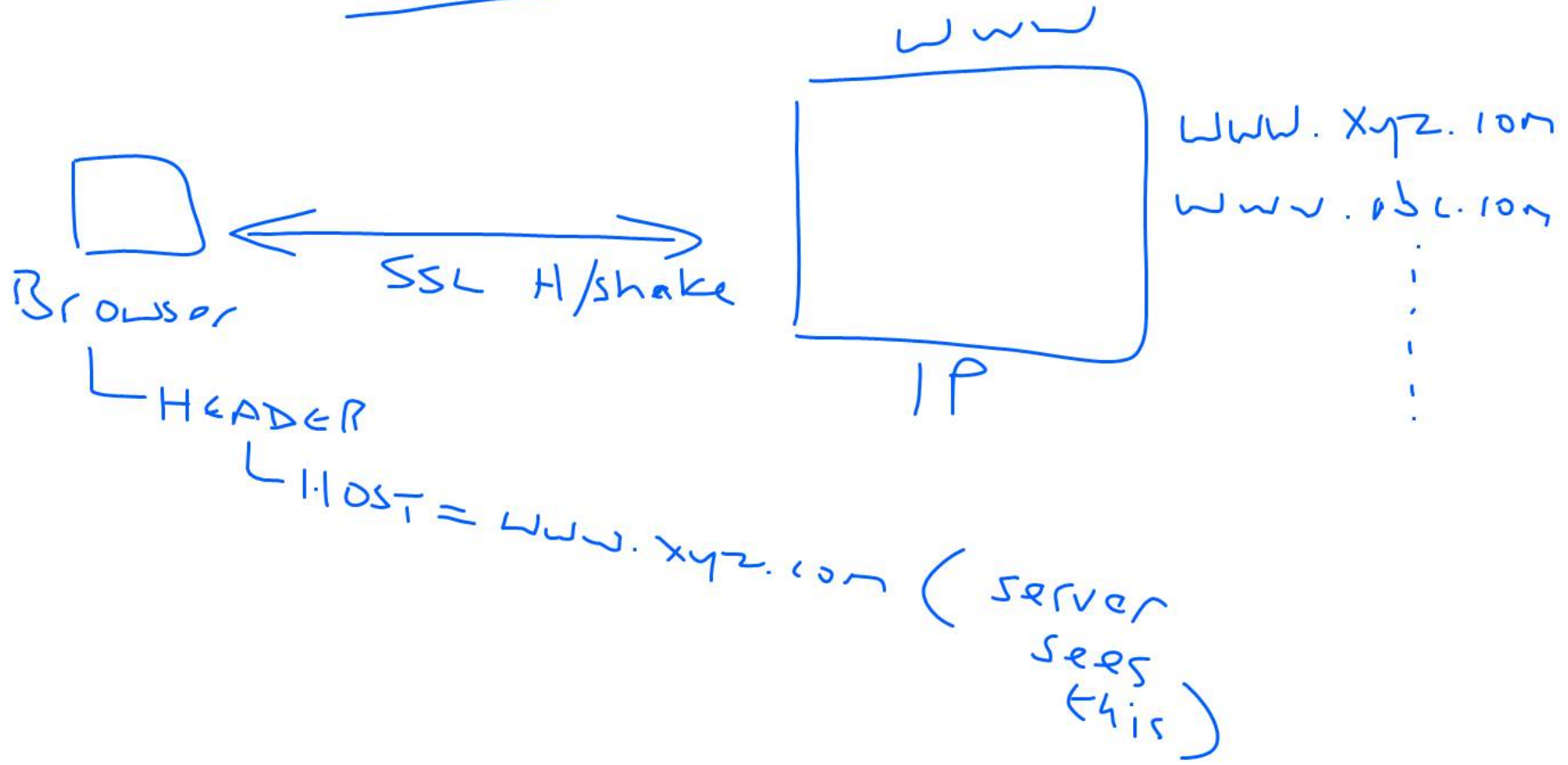
SSL

SSL v3 (not rec)

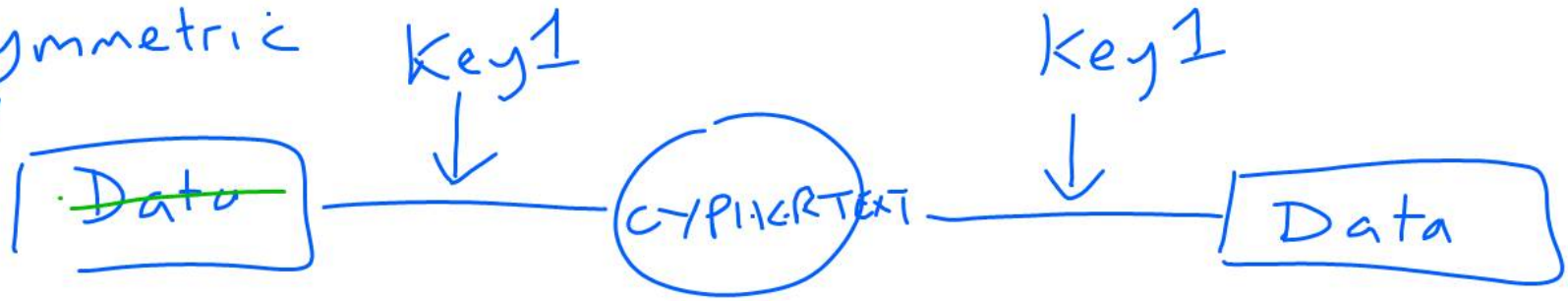
TLS v1.0 1.1 1.2 1.3 ?



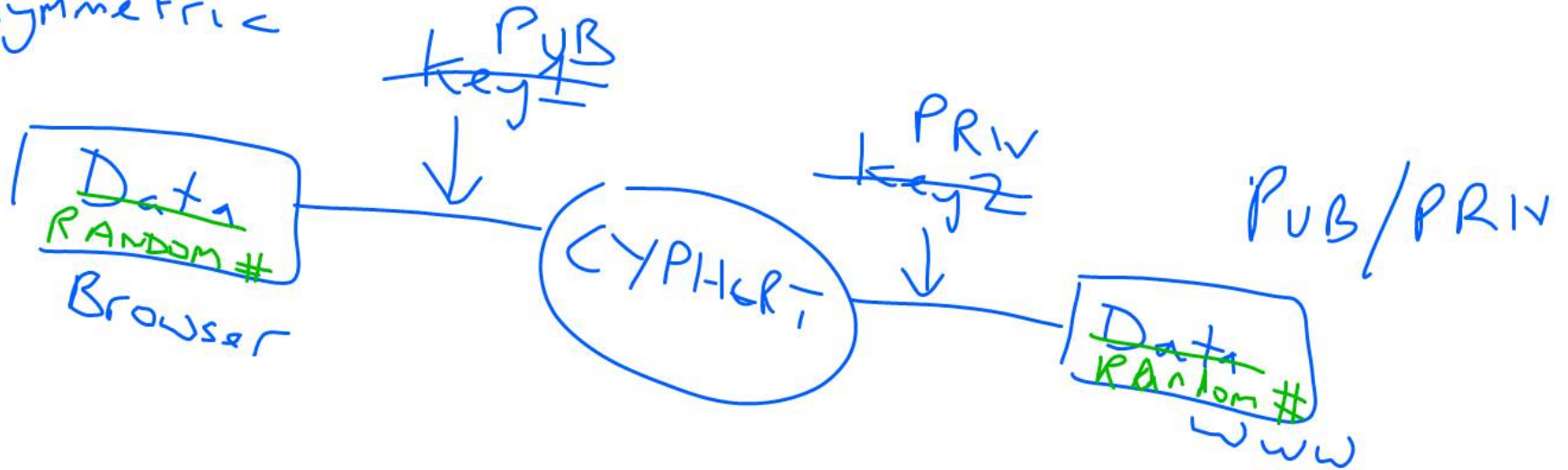
SNI



Symmetric
less CPU



Asymmetric



Generate RSA keys / nsconfig / ssl /
File ...



Create CSR

↳ Details

||



Obtain a cert

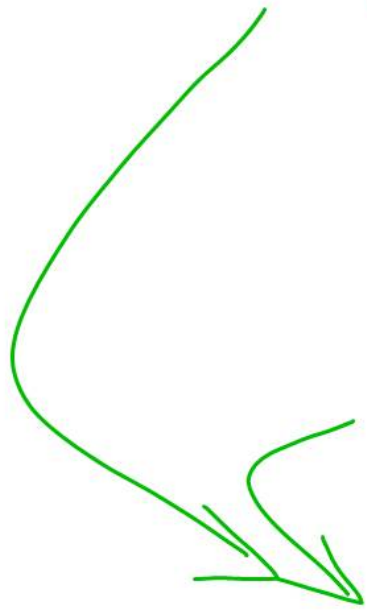
||



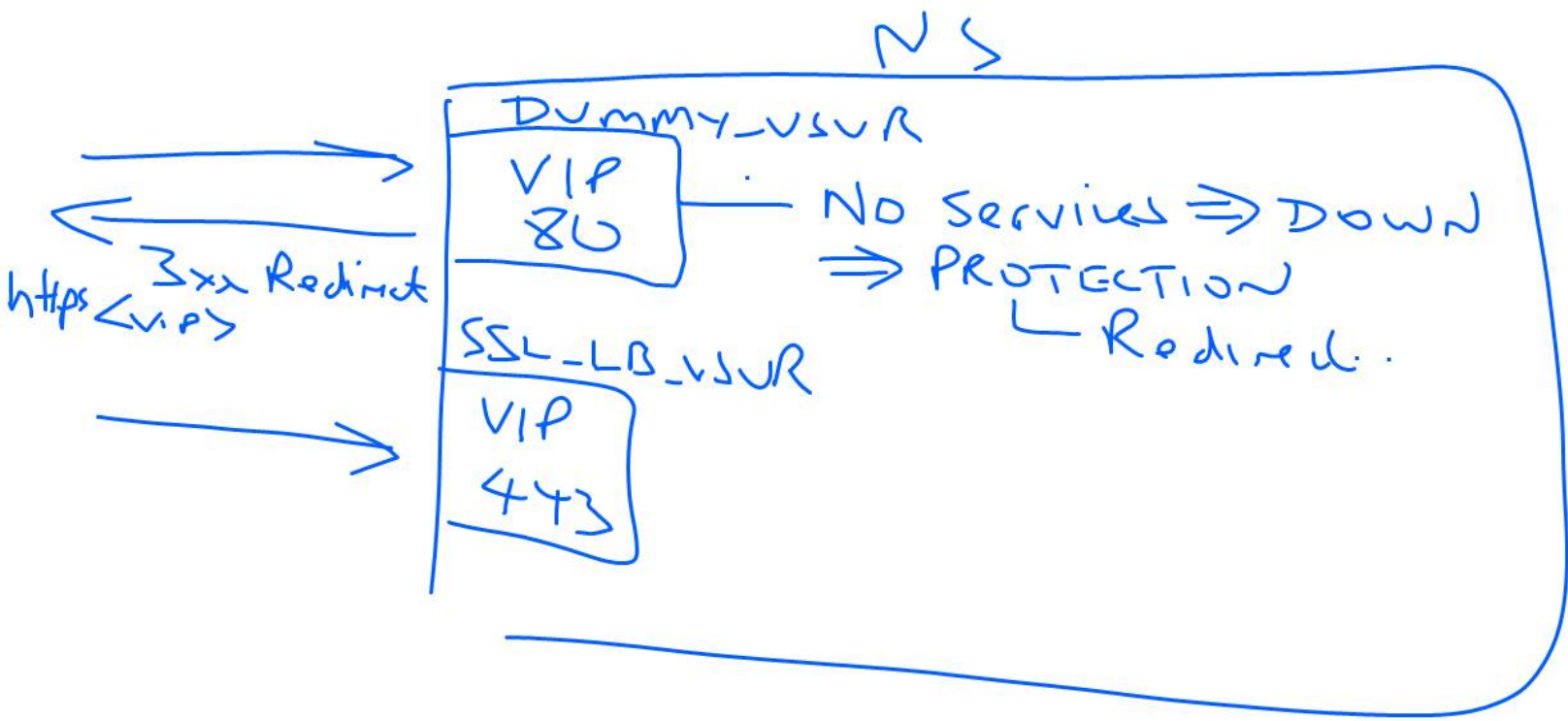
Install: a cert + key pair Entity



Bind to ssl vsvr (443)



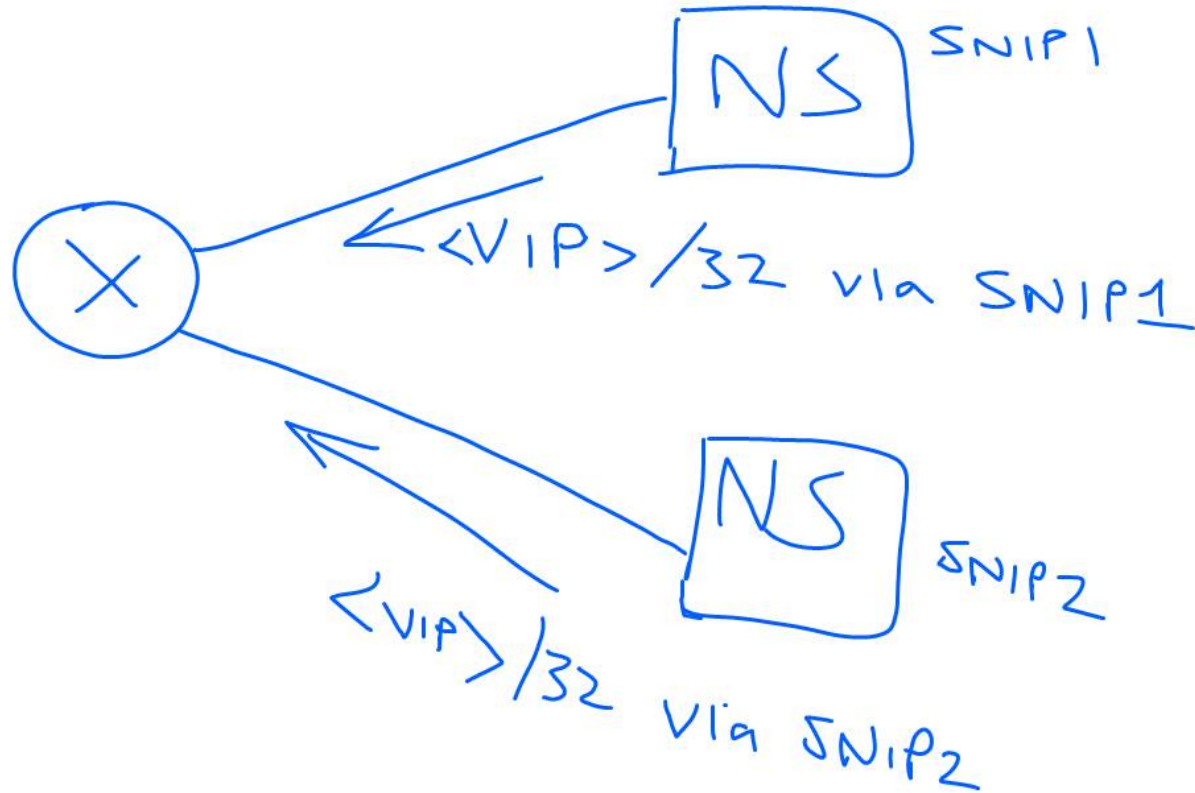
HTTP to SSL Redirect



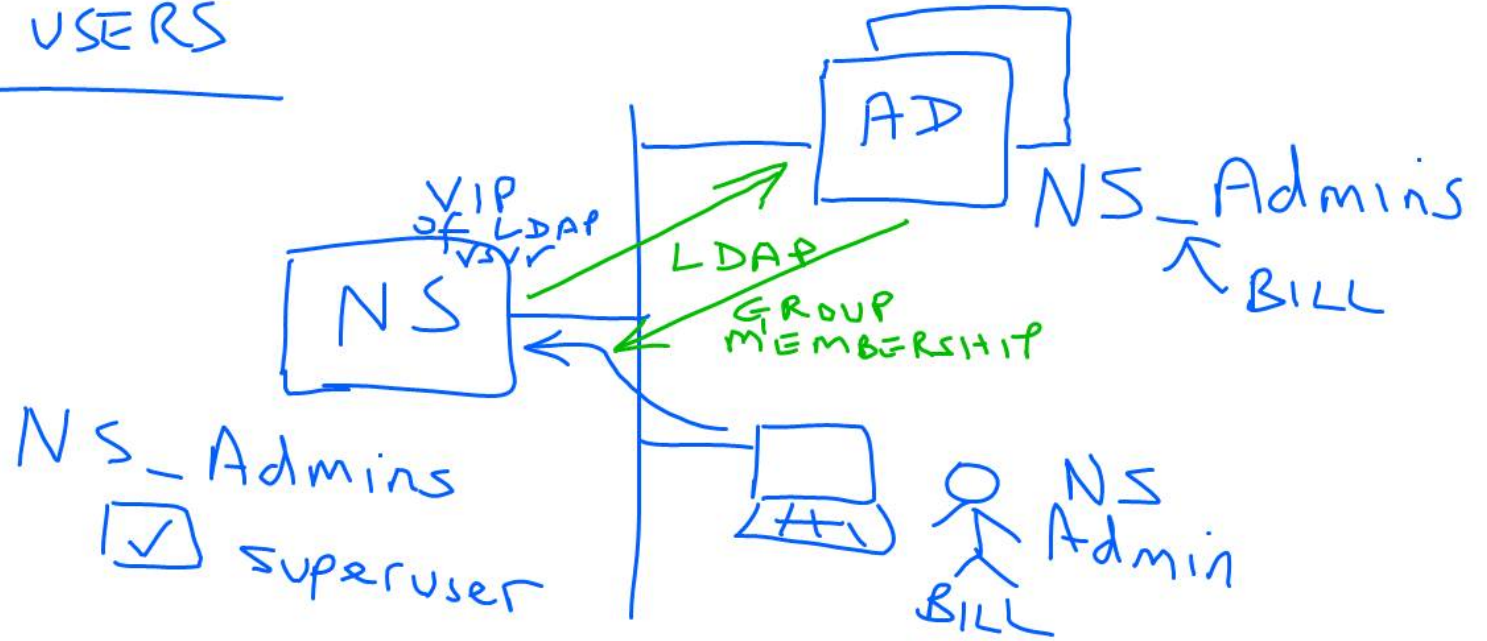
OR
There is
an
alternative
(later)

INC Mode

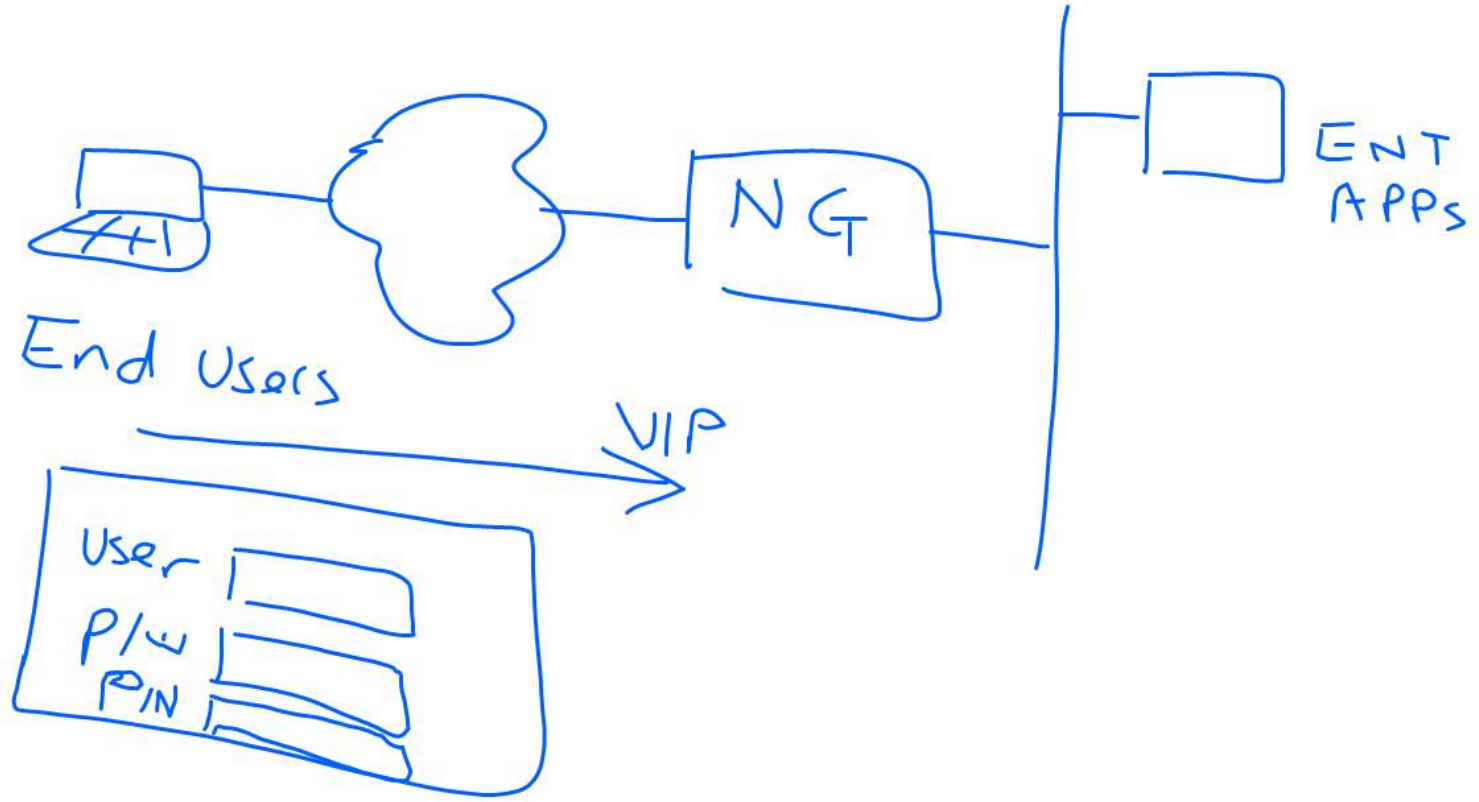
VIP shared



SYSTEM USERS



AAA USERS



POLICY

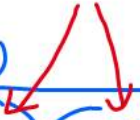
NAME block_red

EXPRESSION "/red.php"

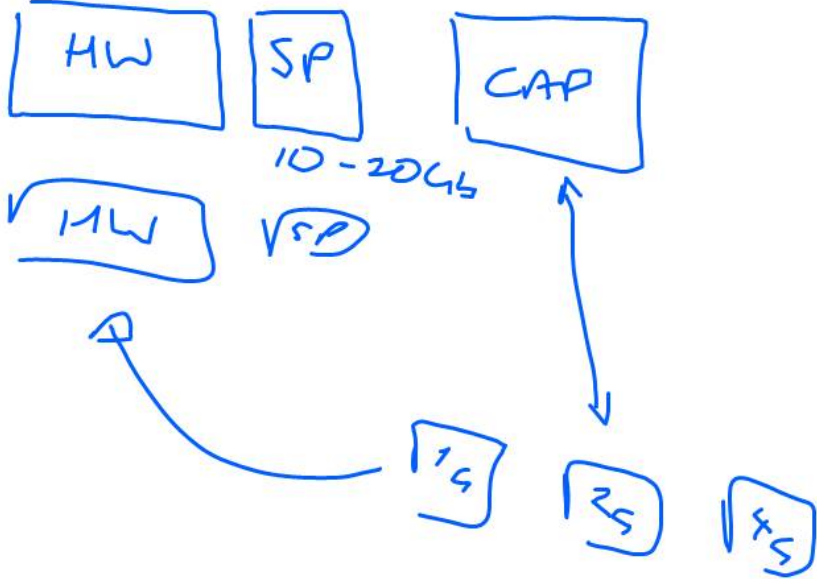
ACTION
BLOCK

Pooled
 HW + Sw
 (MPX, SDX, VPX, CPX, BLX)

vCPU



15000-20



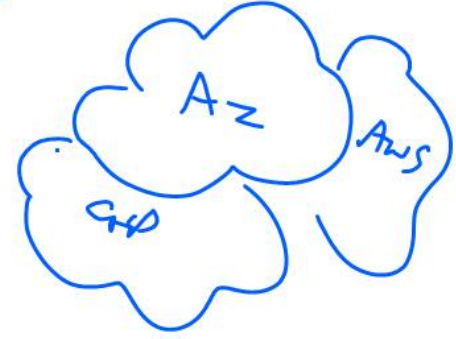
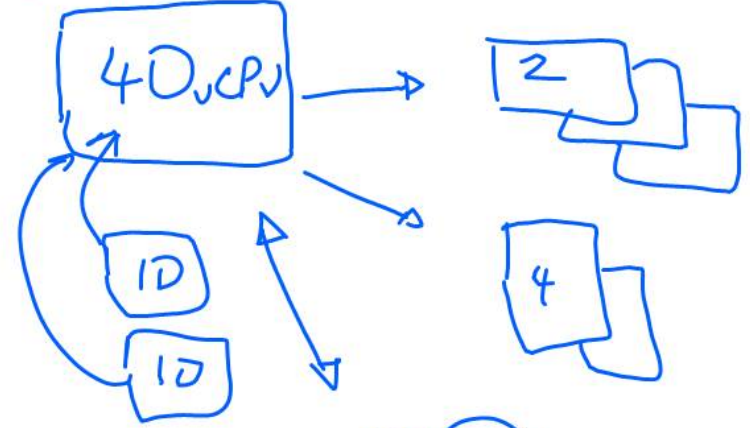
VPX-1000
 4 vCPU

vCPU
 SW

VPX-10/25/200

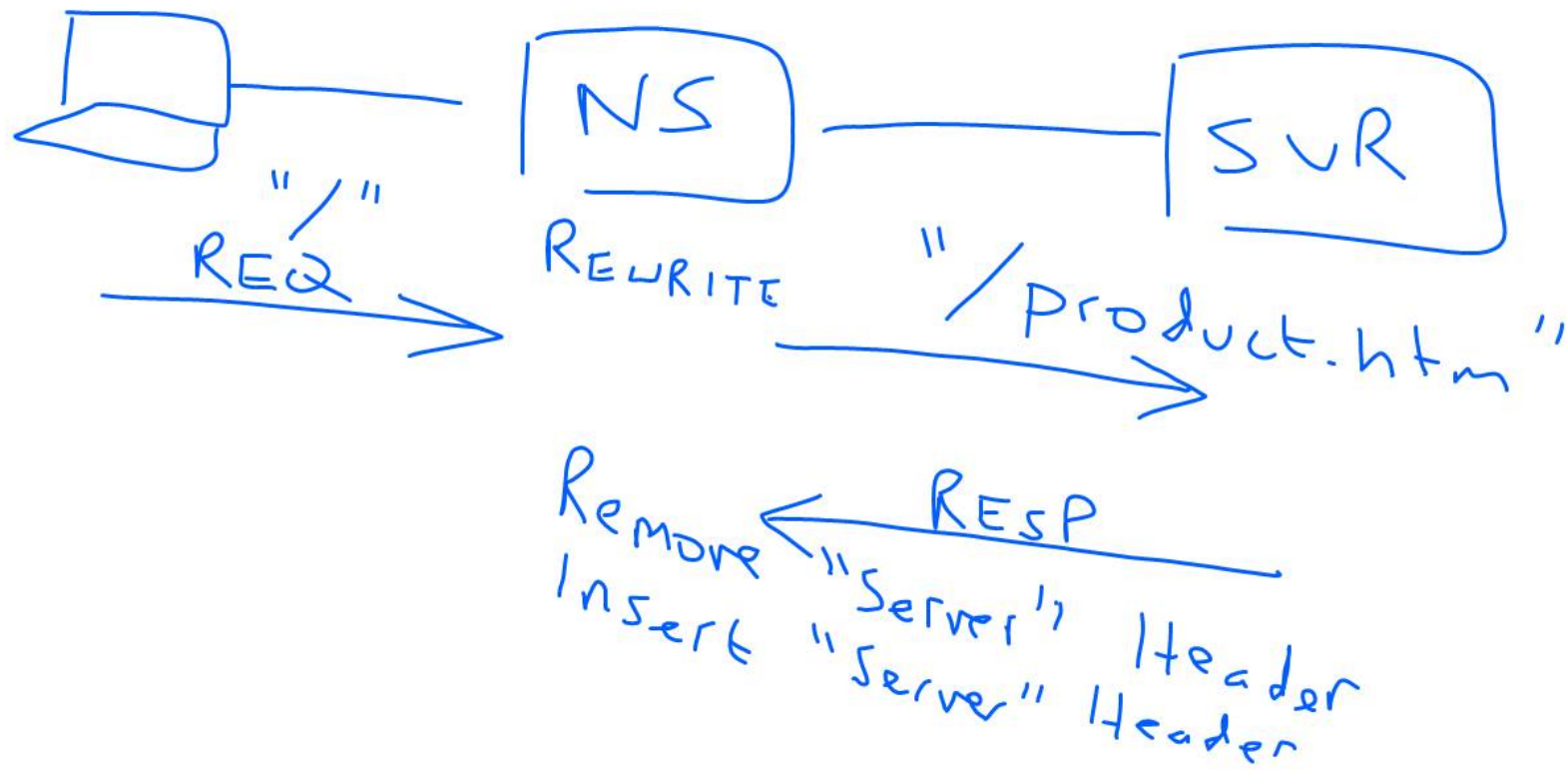
(VPX, CPX, BLX)

St, Ad, Pren



Rewrite

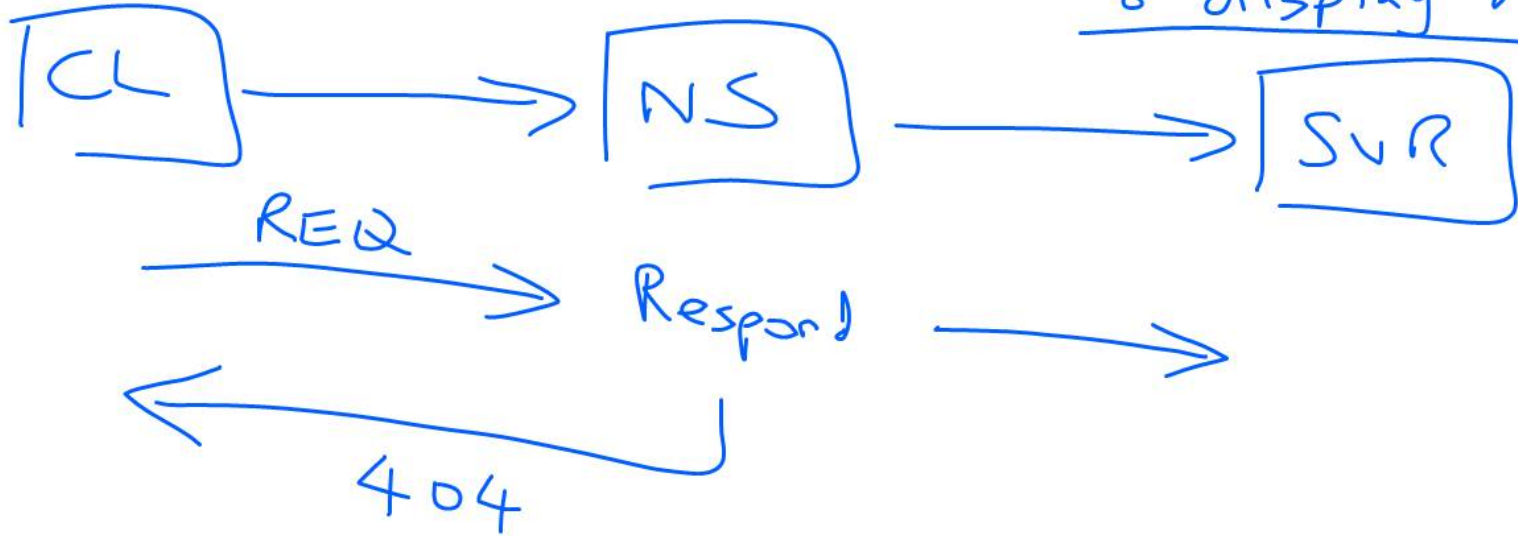
http://www.xyz.com



Responder

Maint Page

Block certain IPs
& display a custom
Error



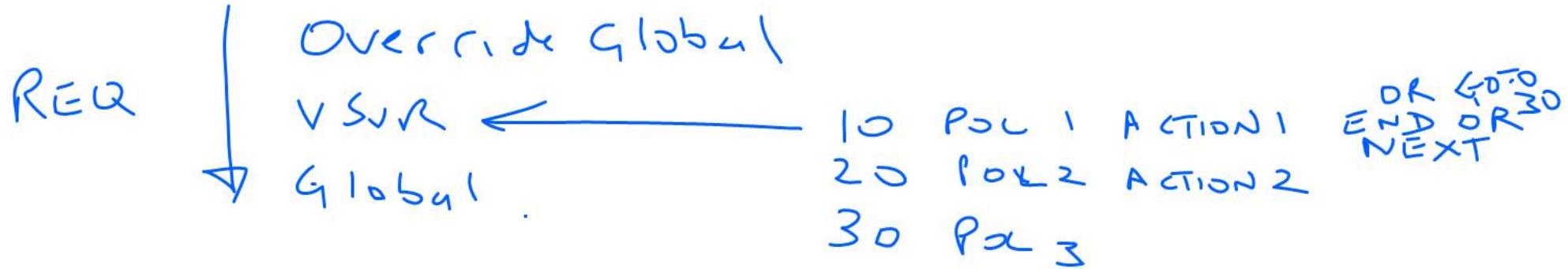
Responder Bindings



POLICY LABEL

- 10 POL1
- 20 POL2
- etc

REWRITE BINDINGS



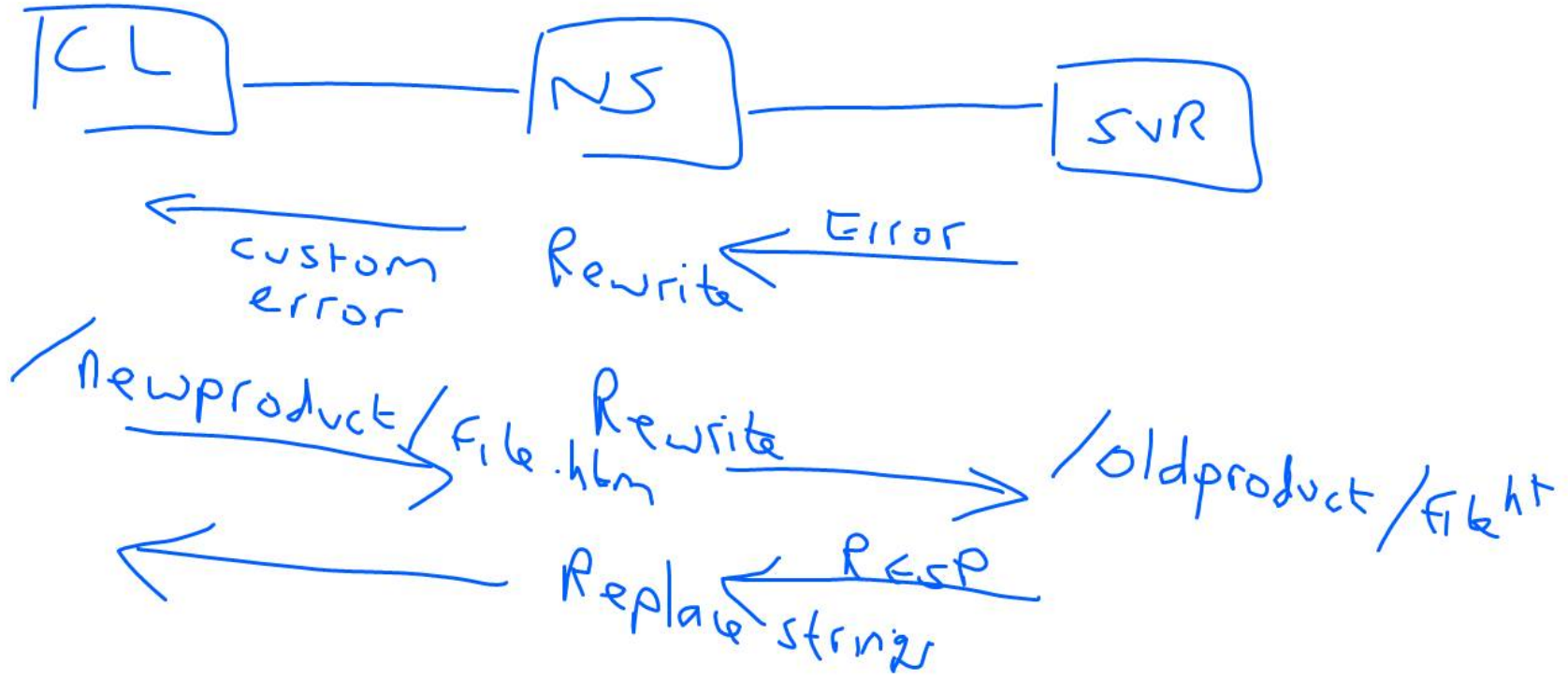
Rate Limiting

IF > 100 REQ IN 5 SECS
FROM ~~A~~ SAME IP - ACTION

ERROR
PAGE

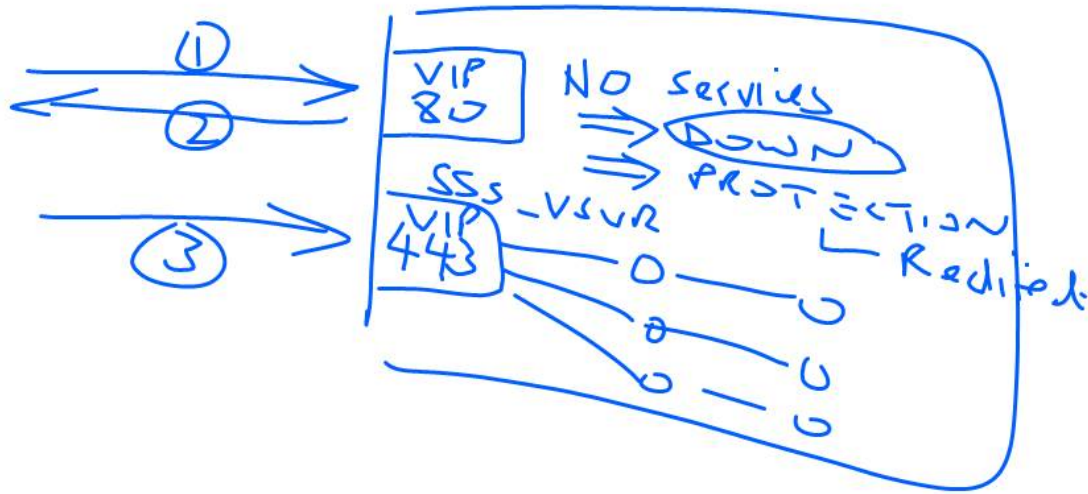


Rewrite



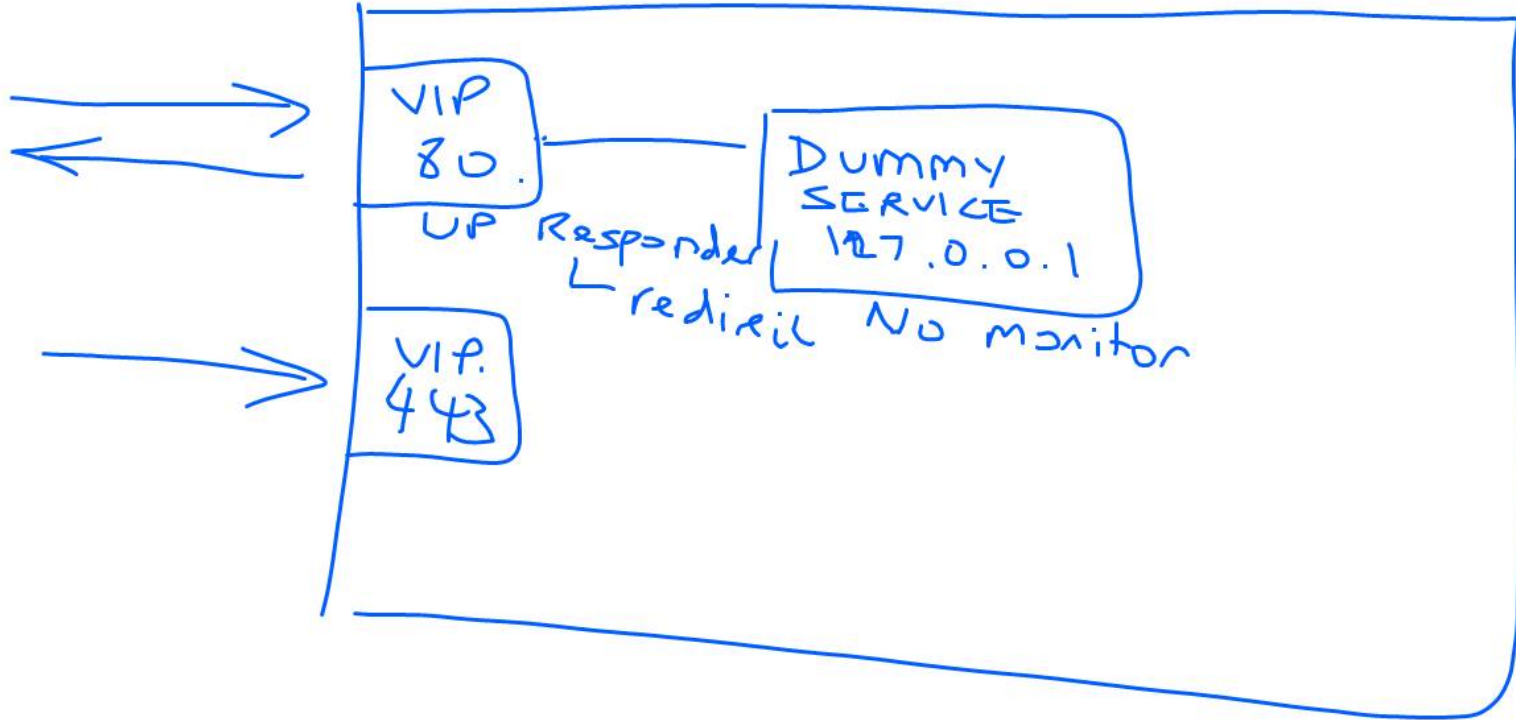
Responder

Digression



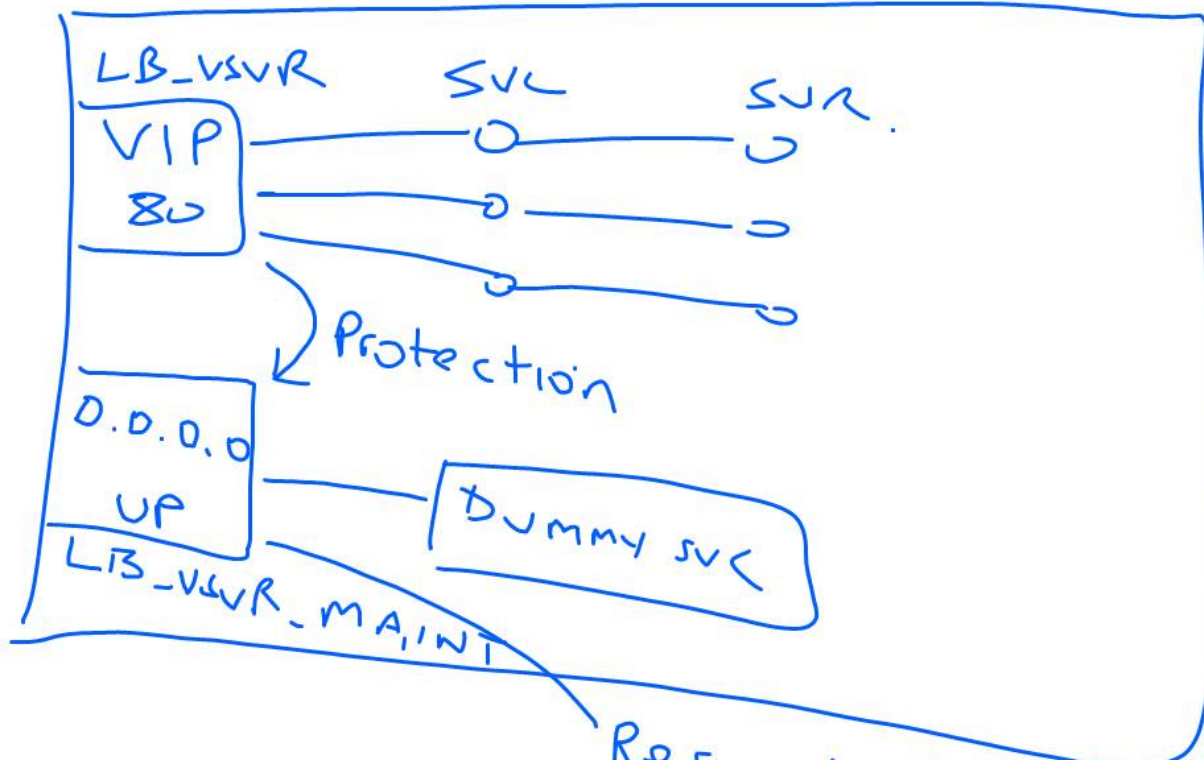
Better way

HTTP to HTTPS Redirect.



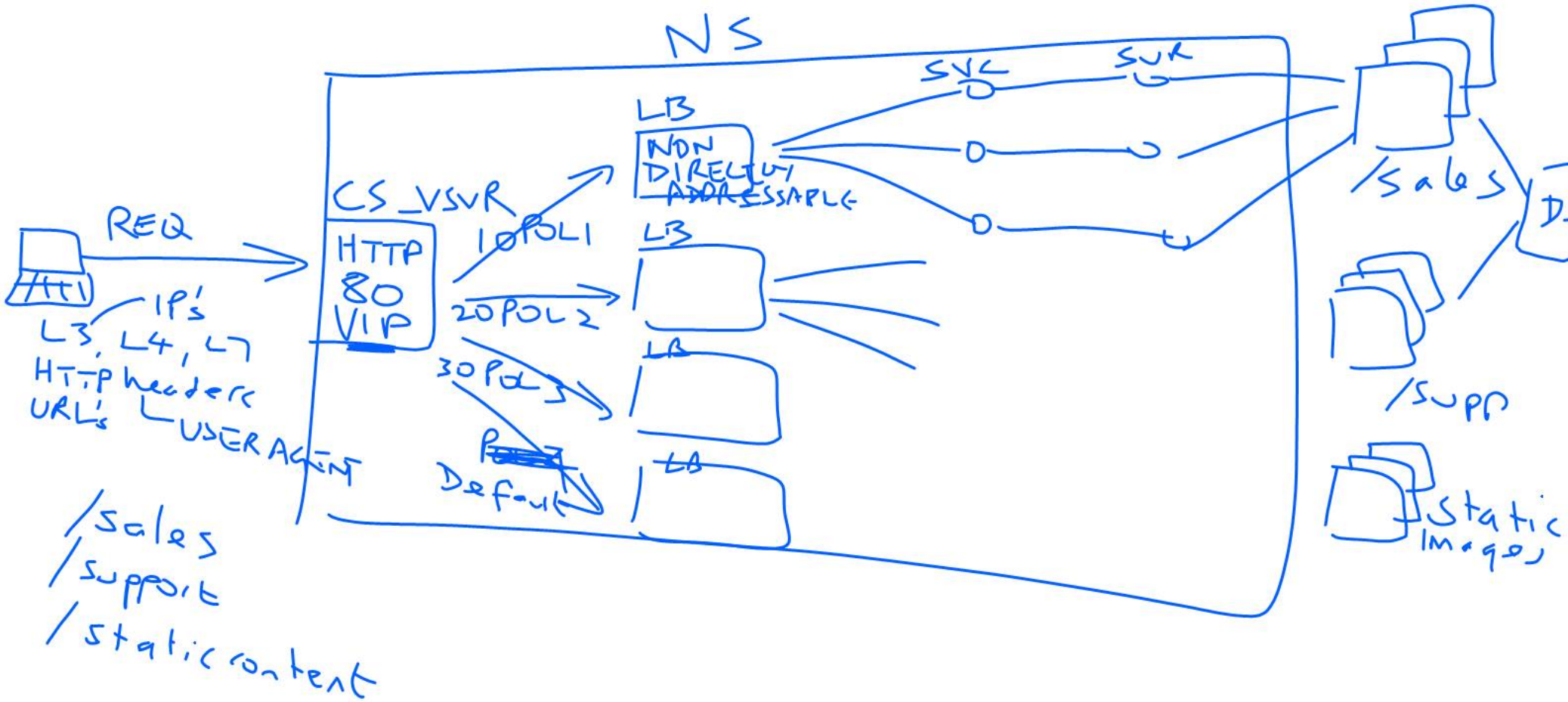
Maint Page

LB_VSVR IS DOWN



Responder Pk → Maint Page

CONTENT SWITCHING



OPTIMIZATION

MULTIPLEXING

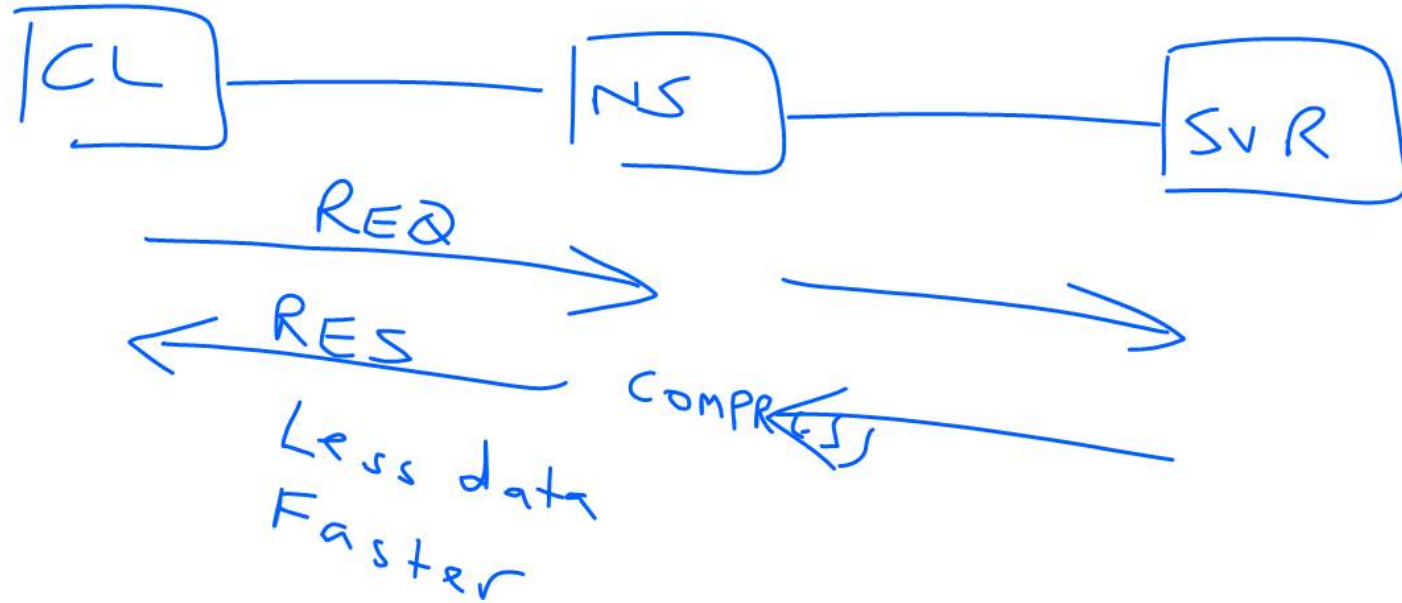
COMPRESSION (LZ) (LZB)

CACHING

FED

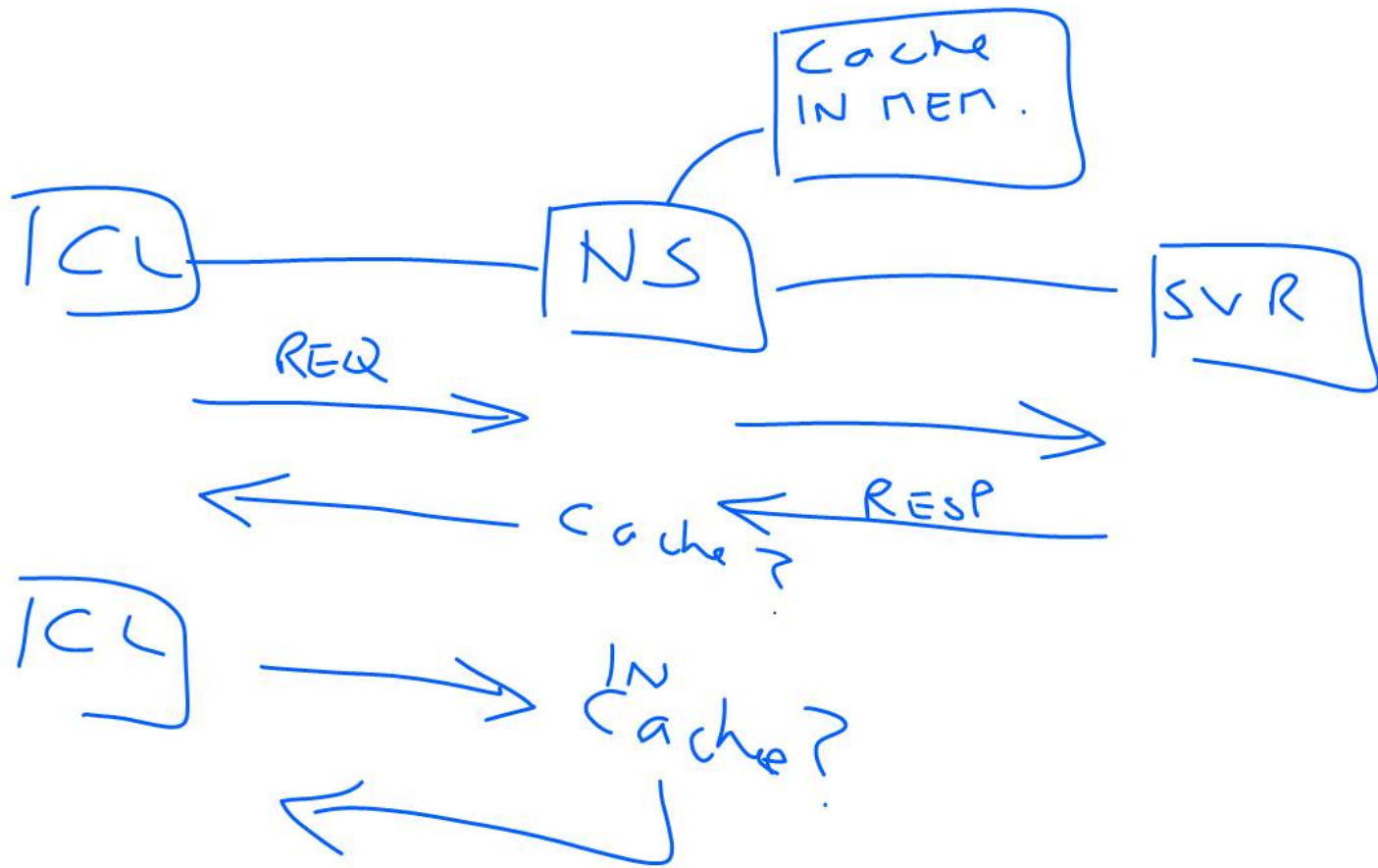
} Advanced

Compression

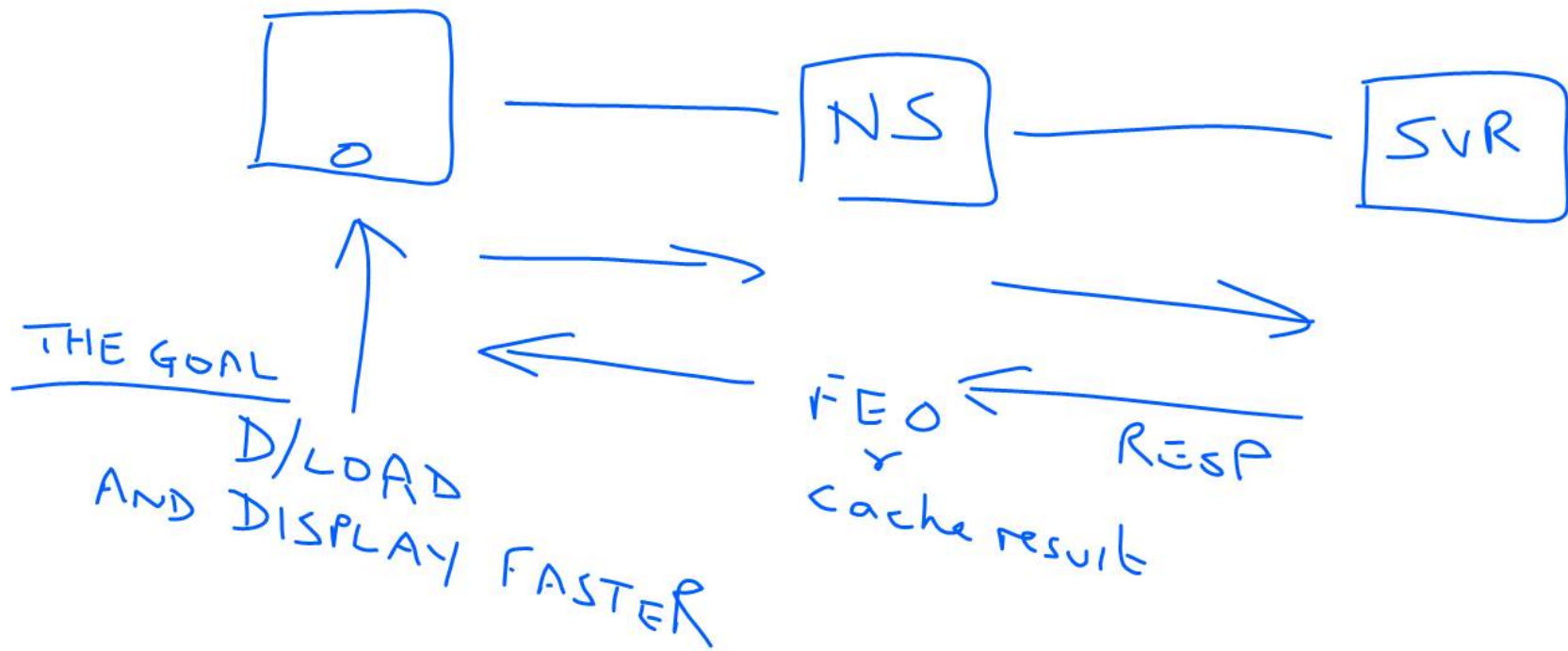


COMPRESS THEN ENCRYPT

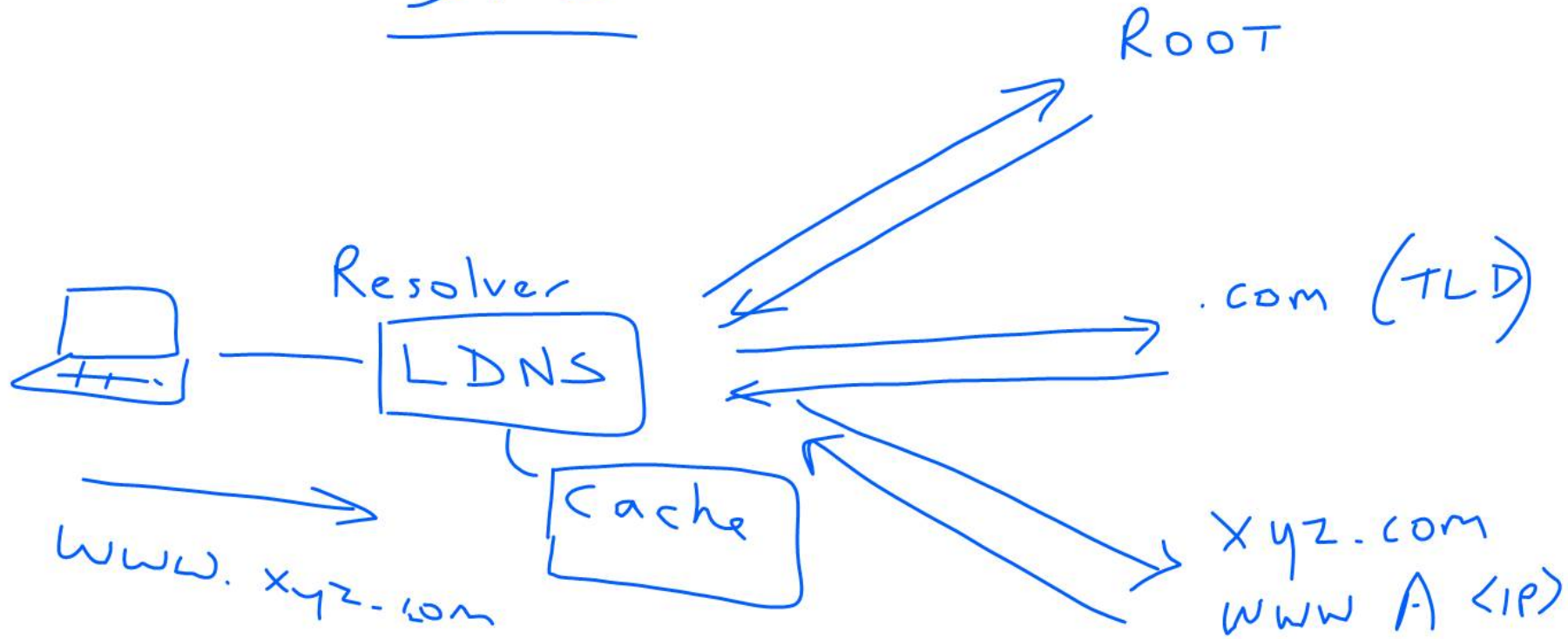
CACHING



FEO

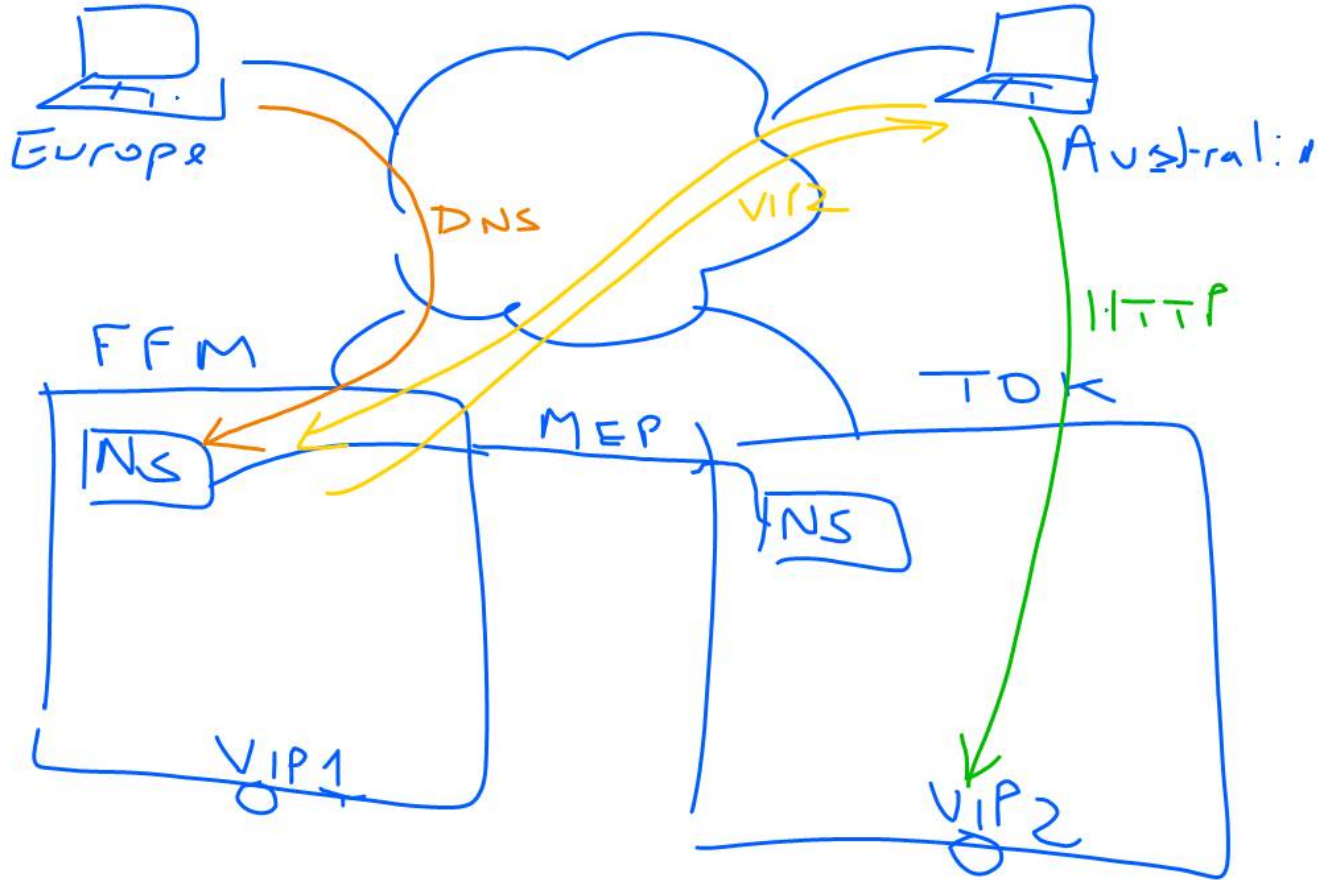


DNS

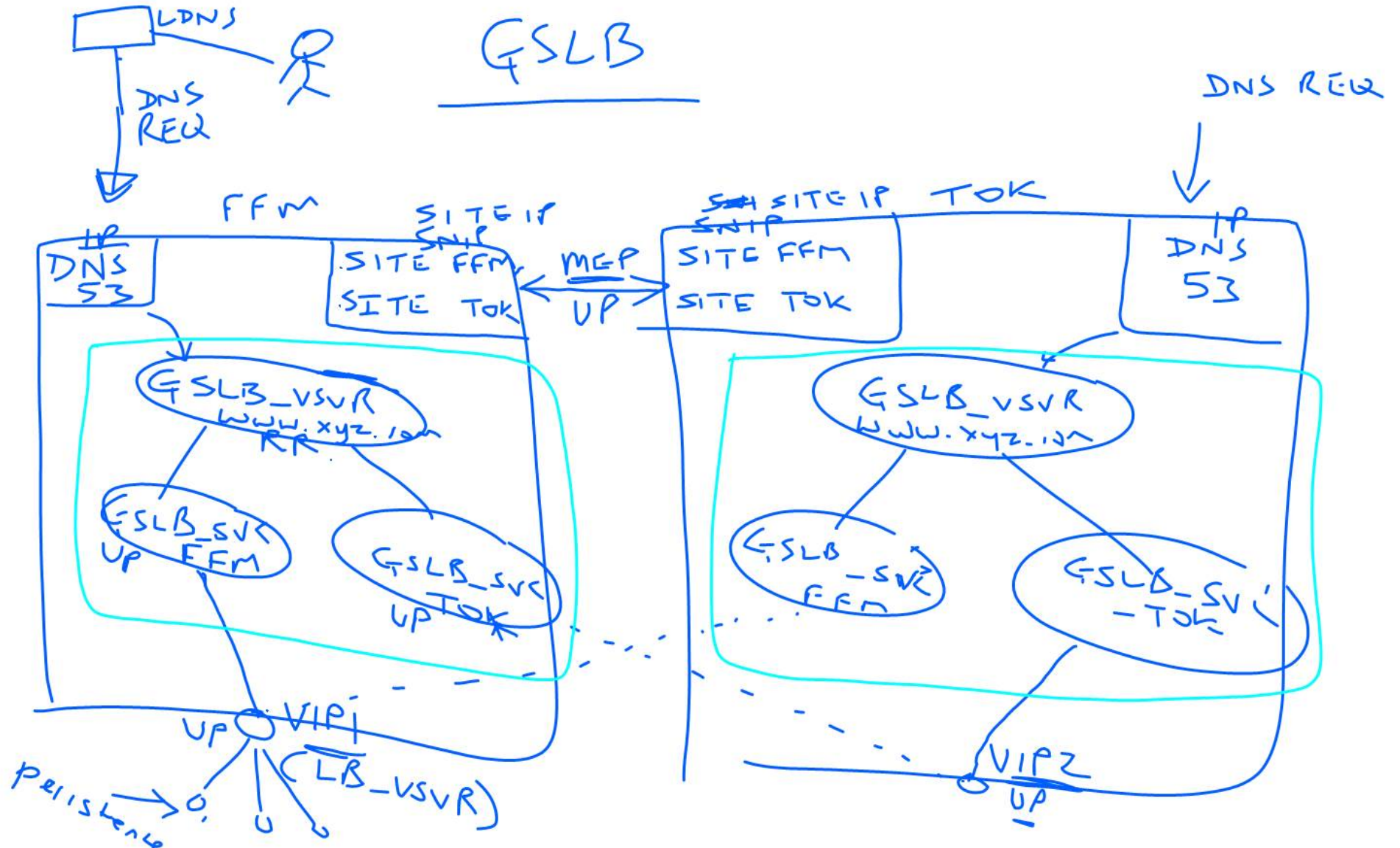


www.xyz.com

GSLB



GSLB



LAB

