

Deutsche Telekom médiadisztribúció és CDN

Jursonovics Tamás

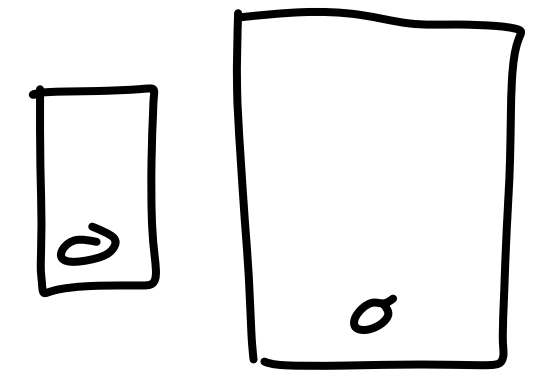
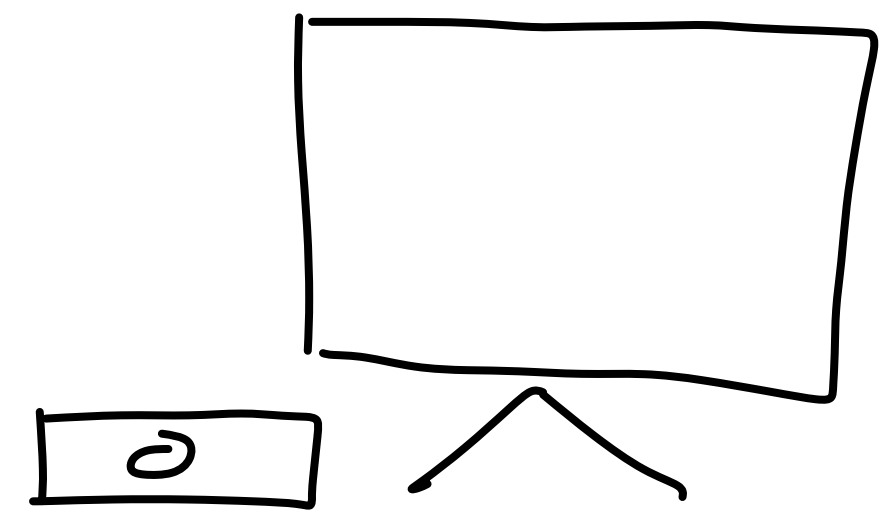
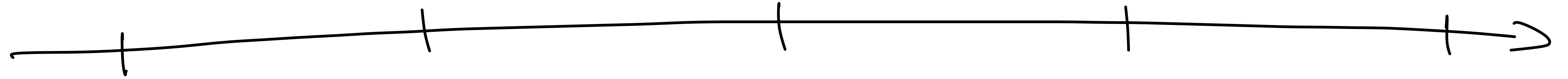
MPEG 2 TS
MULTICAST

MULTICAST
ABR

PROGRESSZÍV
LETÖLTÉS

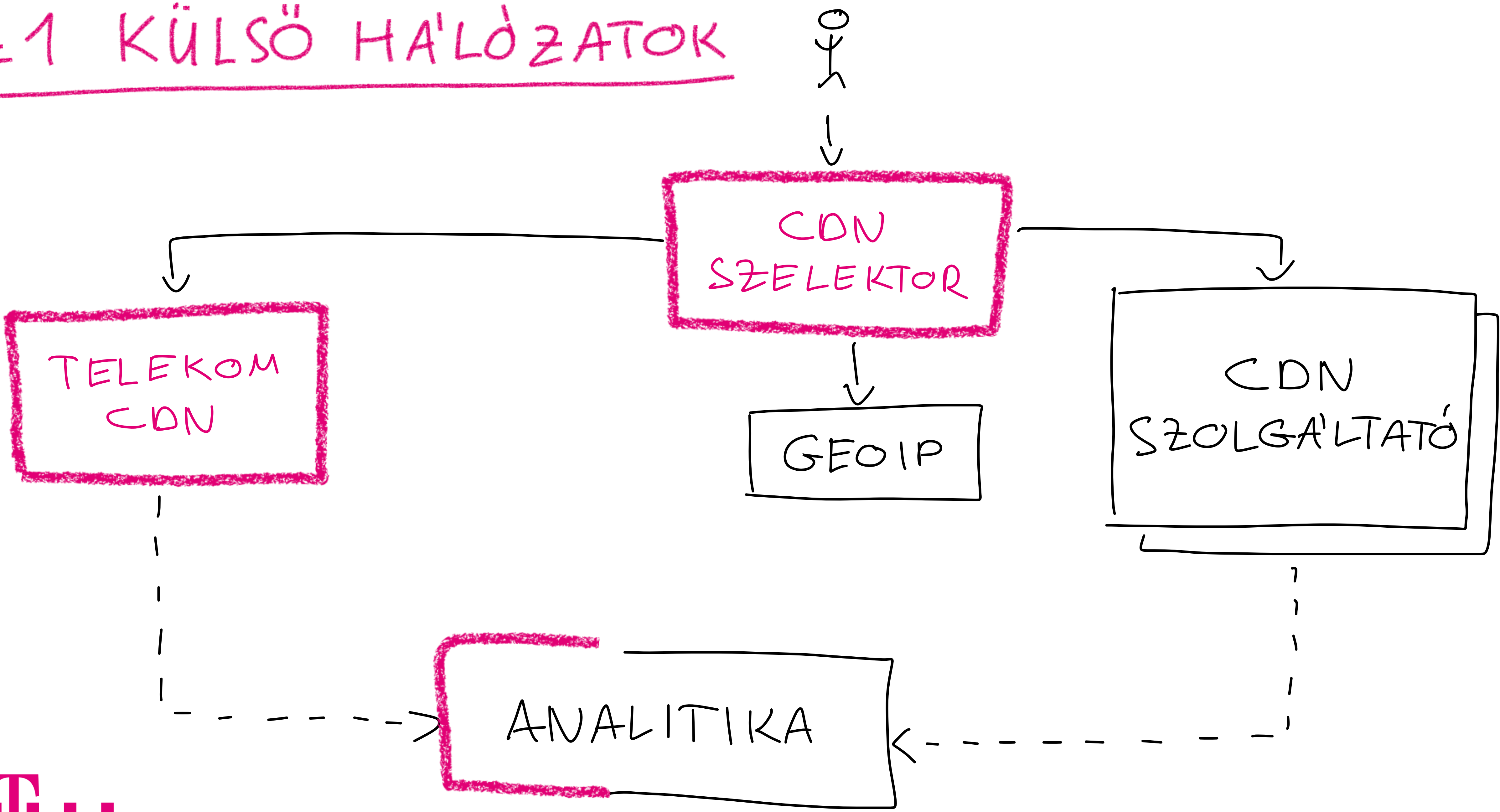
HTTP
STREAMING

WEB-RTC



T...

#1 KÜLSŐ HÁLÓZATOK



T...

#2 FEJLESZTÉS

FELHŐ
SZOLGÁLTATÁS

NYILT
FORRÁS KÓDÚ

ÚJ
FEJLESZTÉS

MENEDZSELT
CDN

BESZÁLLÍTÓ

TELEKOM
CDN

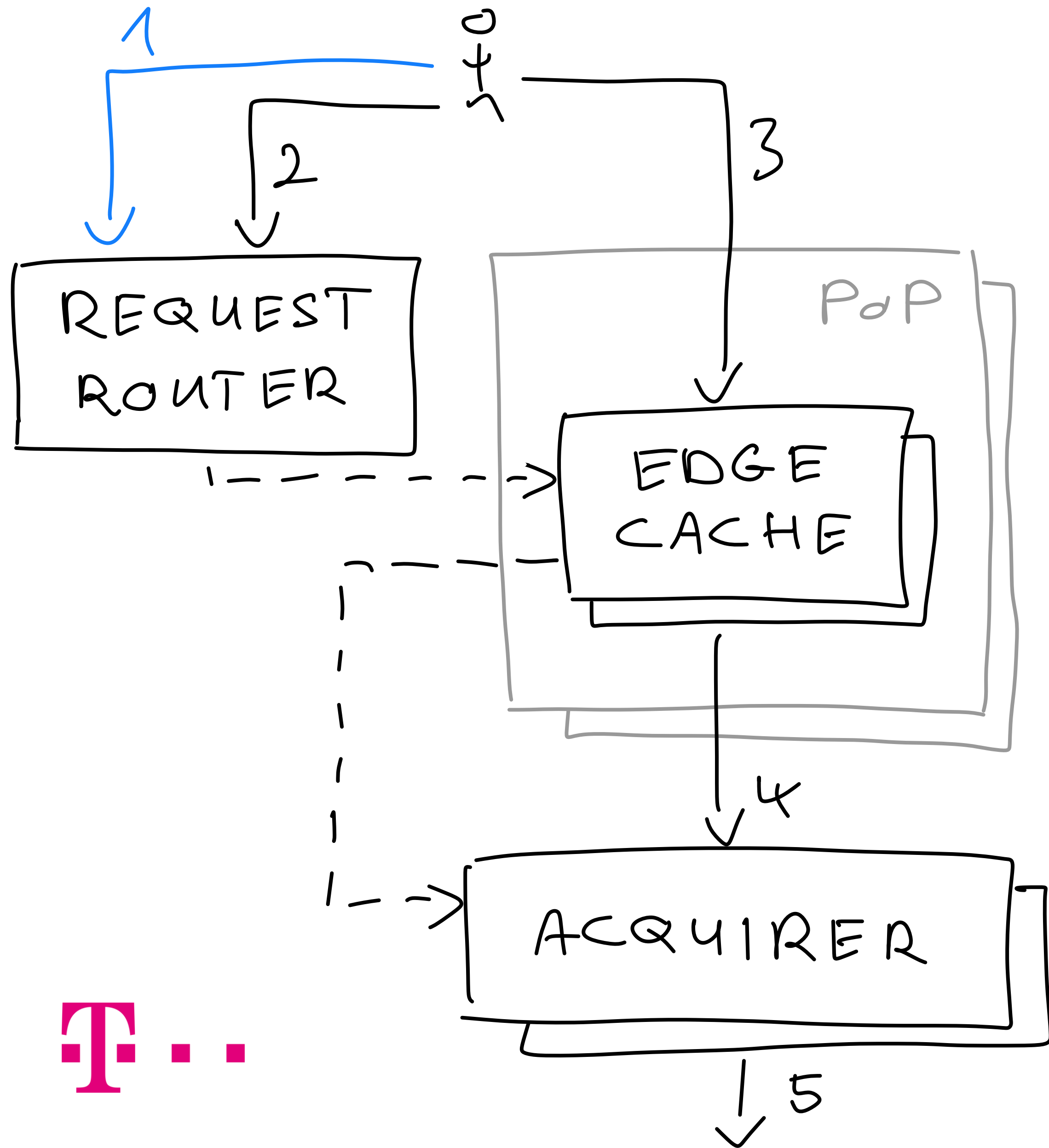
- UBUNTU LINUX
- VARNISH CACHE
- HA PROXY

- KEEPALIVED
- POWERDNS
- PYTHON

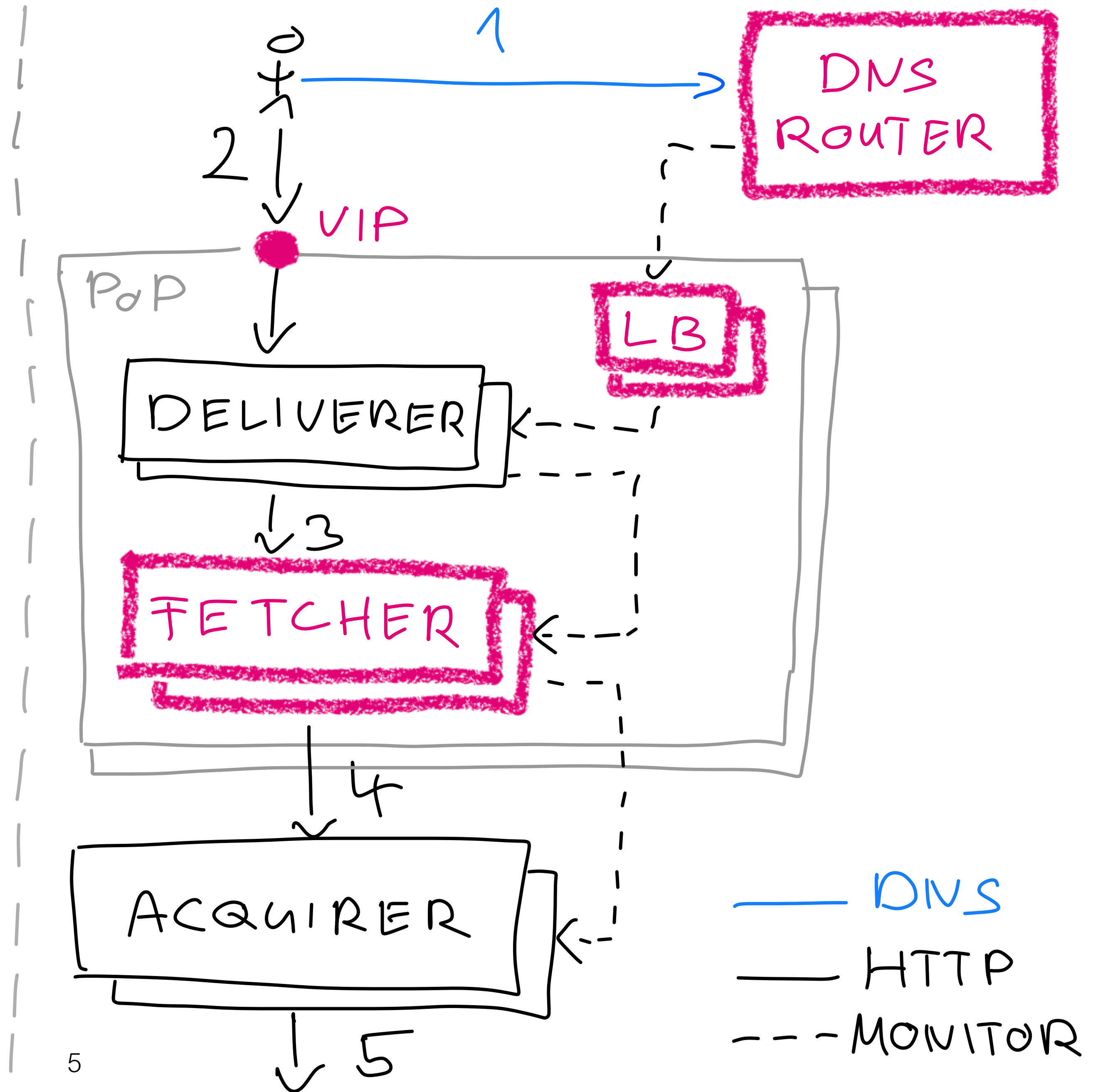
- MEMCACHED
- NGINX

T...

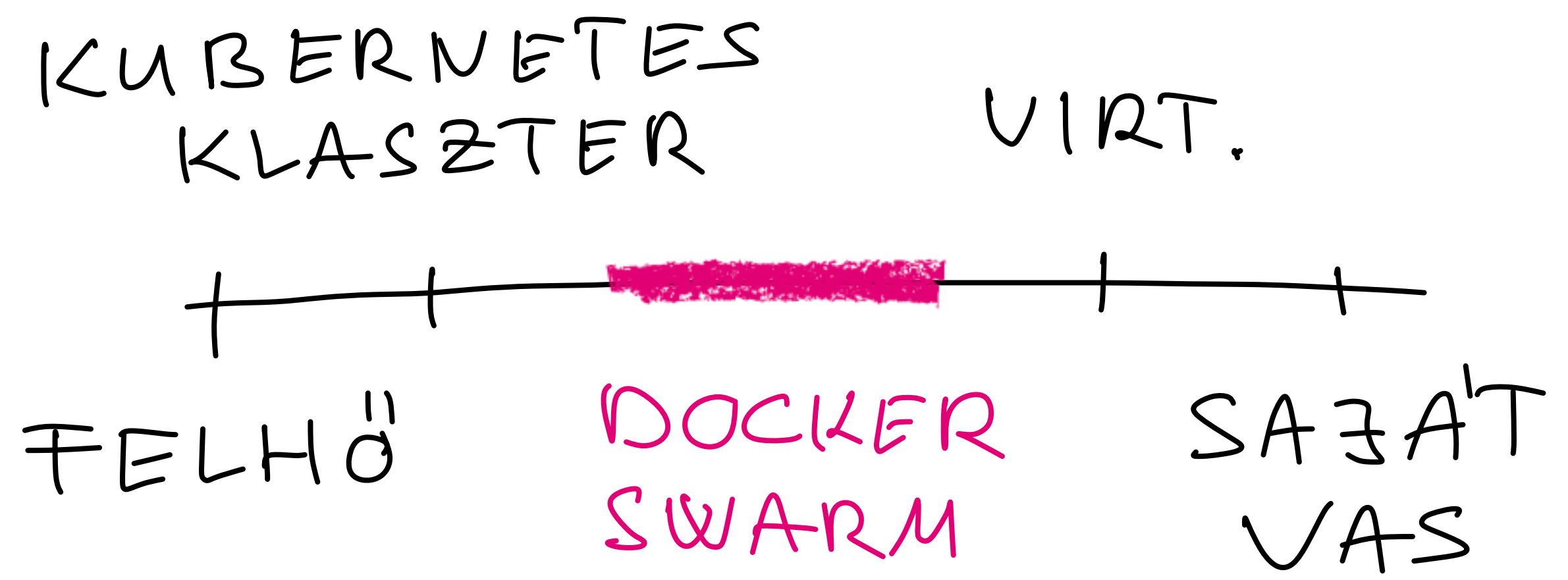
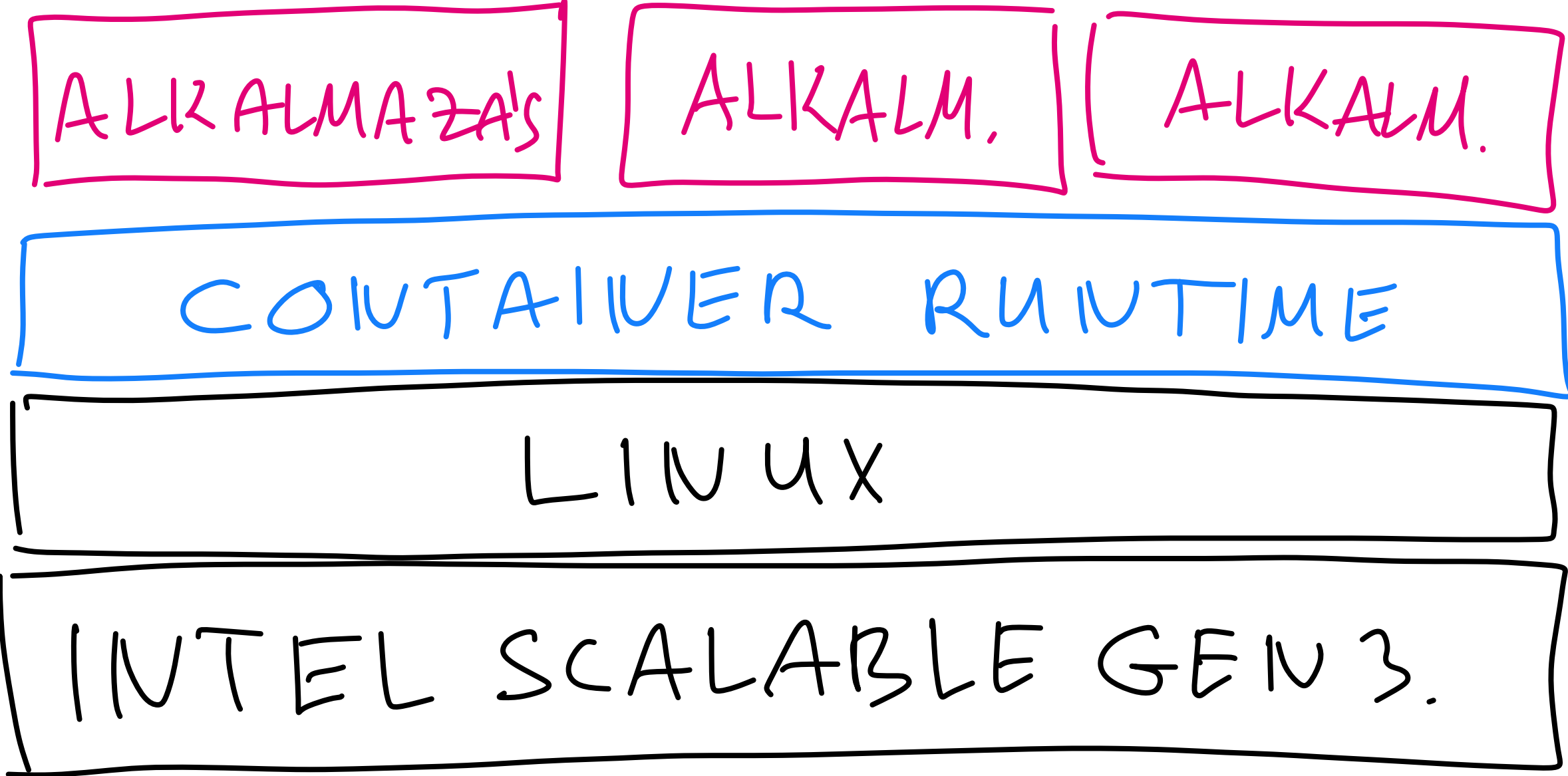
#3 SKALA'ZHATOSA'G



T...



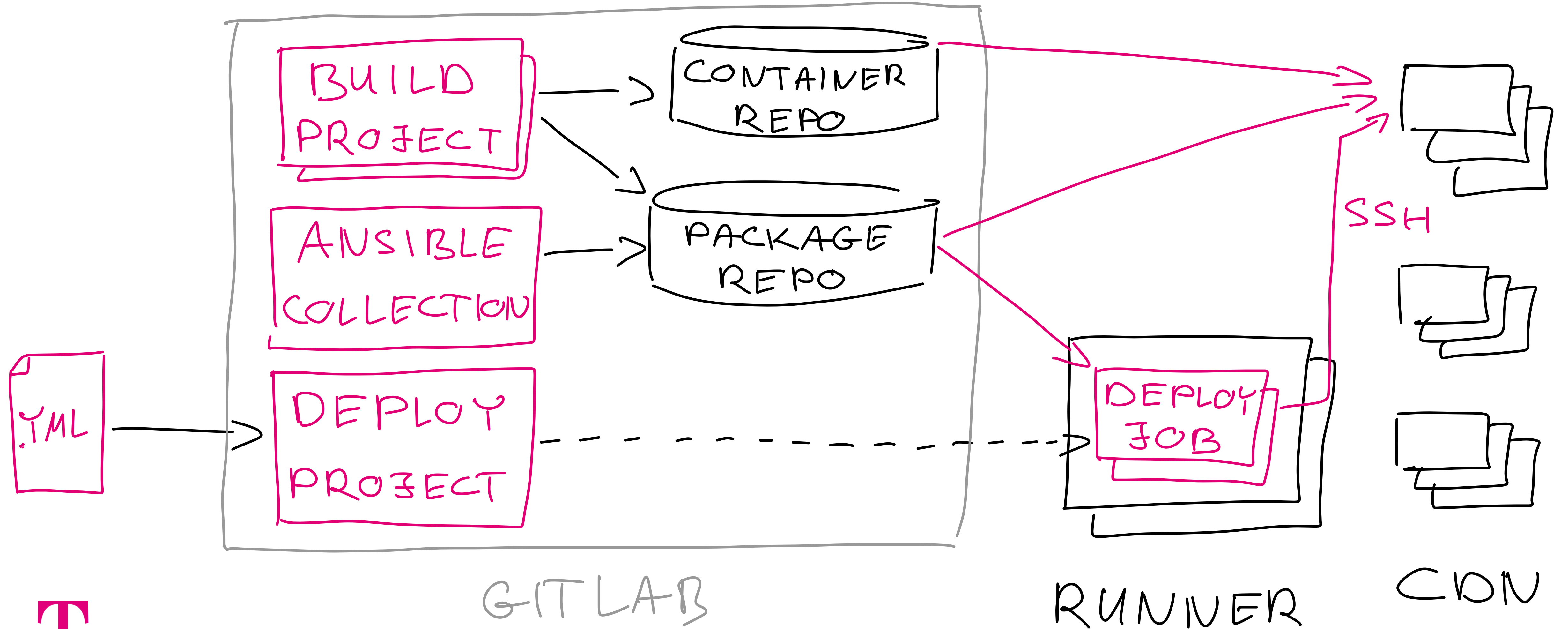
#4 HW/OS ABSZTRAKCIÓ



T... CACHE

DNS ROUTING

#5 AUTOMATIZACIÓ



T...

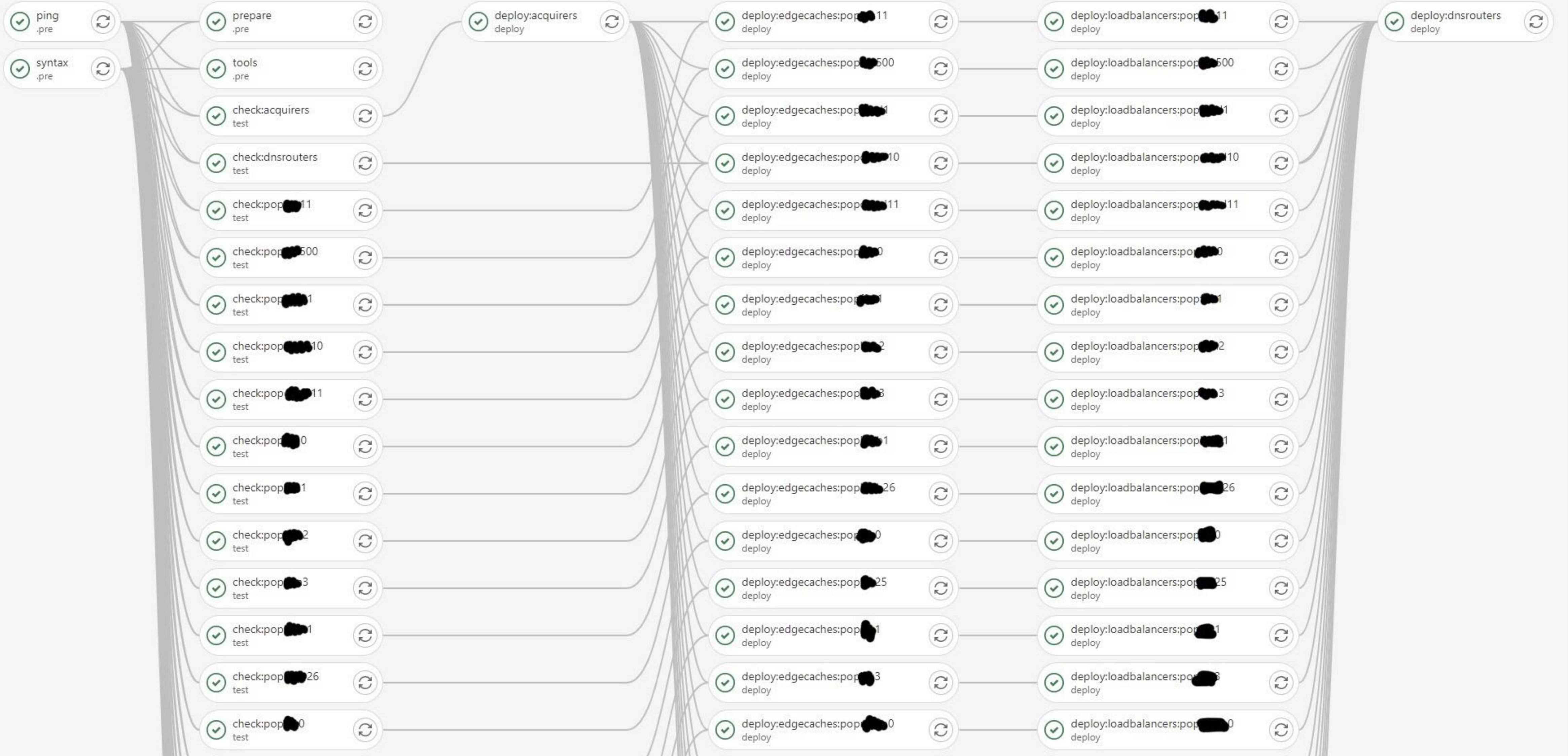
```
19 equuleus_env: EQUV4
20 equuleus_domain: cdn.[REDACTED].
21 equuleus_nameserver:
22   - ns-[REDACTED].
23   - ns-[REDACTED].
24   - ns-[REDACTED].
25
26 equuleus_ssl_basename: star-[REDACTED].pem
27
28 delivery_services:
29   - name: svc40
30     description: LiveTV from [REDACTED] origin
31     origin: hmspx
32     ssl:
33       mode: allow
34       session_tracking: true
35       debug_info: true
36       qos_tagging: 40
37       hashqparams: []
38
39   - name: svc43
40     description: Magenta Sport
41     origin: scutum-sport-proxy
42     fqdn: svc43.[REDACTED].de.
43     ssl:
44       basename: star-[REDACTED].pem
45       mode: allow
46       session_tracking: true
47       debug_info: true
48       qos_tagging: 40
49
```

```
50   - name: svc45
51     description: LiveTV FTP22
52     origin: ftp22origin
53     ssl:
54       mode: allow
55       session_tracking: true
56       debug_info: true
57       qos_tagging: 40
58       hashqparams: []
59
60   - name: svc40-t0
61     description: LiveTV from [REDACTED] origin
62     origin: hmspxt0
63     ssl:
64       mode: allow
65       session_tracking: true
66       debug_info: true
67       qos_tagging: 40
68       hashqparams: []
69     fallbackcname: svc40-t0-[REDACTED].
70
71 origins:
72   - name: hmspx
73     fqdn: svc40-[REDACTED].
```






Pipeline Needs Jobs 76 Tests 0

Group jobs by Stage Job dependencies Show dependencies






Search job log

deploy:edgecac...  

```

1487 TASK [cdn.equuleus.docker2 : Ensure docker service is enabled and running] *****
1488 ok: [redacted-et-107. ]
1489 TASK [cdn.equuleus.docker2 : Check OS version] *****
1490 ok: [redacted-et-110. ] => {
1491   "changed": false,
1492   "msg": "All assertions passed"
1493 }
1494 TASK [cdn.equuleus.varnish : Sync 'varnish' to UID '179'] *****
1495 ok: [redacted-et-106. ]
1496 TASK [cdn.equuleus.varnish : Check 'redacted' container registry] ***
1497 ok: [redacted-et-111. ]
1498 TASK [cdn.equuleus.varnish : Create '/var/run/varnish' socket dir] *****
1499 ok: [redacted-et-104. ]
1500 TASK [cdn.equuleus.docker2 : Add iptables notrack rules v6] *****
1501 ok: [redacted-et-108. ]
1502 TASK [cdn.equuleus.varnish : Sync 'varnishlog' to UID '180'] *****
1503 ok: [redacted-et-105. ]
1504 ok: [redacted-et-106. ]
1505 TASK [cdn.equuleus.docker2 : Check connection] *****
1506 ok: [redacted-et-111. ]
1507 TASK [cdn.equuleus.varnish : Create '/etc/varnish' config dir] *****
1508 ok: [redacted-et-104. ]
1509 TASK [cdn.equuleus.docker2 : Check APT repo reachable] *****
1510 ok: [redacted-et-109. ]
1511 TASK [cdn.equuleus.varnish : Create '/var/run/varnish' socket dir] *****
1512 ok: [redacted-et-105. ]
1513 TASK [cdn.equuleus.docker2 : Check OS version] *****
1514 ok: [redacted-et-111. ] => {
1515   "changed": false,
1516   "msg": "All assertions passed"
1517 }
1518 TASK [cdn.equuleus.docker2 : Check APT repo reachable] *****
1519 ok: [redacted-et-110. ]
1520 TASK [cdn.equuleus.varnish : Sync 'varnish' to UID '179'] *****
1521 ok: [redacted-et-107. ]
1522 TASK [cdn.equuleus.varnish : Create '/var/run/varnish' socket dir] *****
1523 ok: [redacted-et-106. ]
1524 TASK [cdn.equuleus.docker2 : Check mount '/var' for docker data root '/var/lib/docker' has at least 20GB free space] ***
1525 ok: [redacted-et-109.arz.t-online.de] => {
1526   "changed": false,
1527   "msg": "All assertions passed"
1528 }
1529 TASK [cdn.equuleus.varnish : Create '/var/log/varnish/' log dir] *****
1530 ok: [redacted-et-104. ]
1531 TASK [cdn.equuleus.docker2 : Copy /etc/docker/daemon.json config] *****
1532 ok: [redacted-et-108. ]

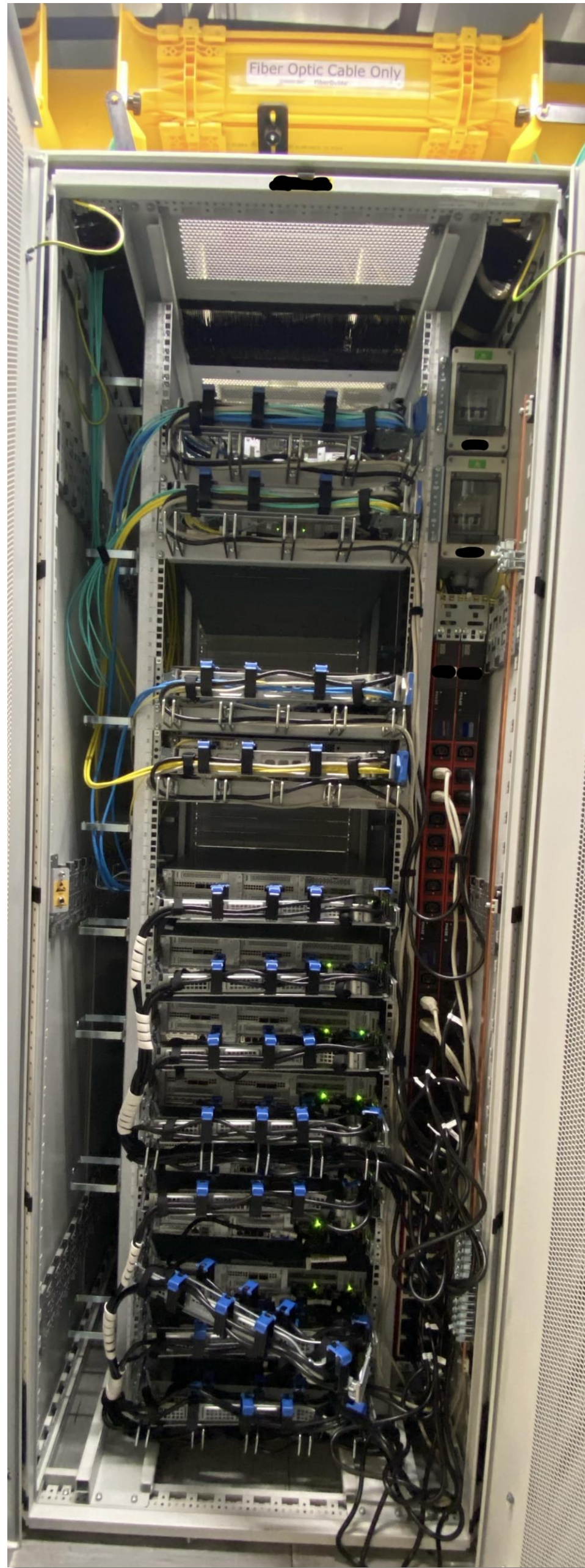
```

Duration: 11 minutes 37 seconds
 Finished: 1 day ago
 Queued: 1 second
 Timeout: 1h (from project) 
 Runner: #416739 (_crW9zD4) gitlab-runner
 Tags: [cdn_deploy_prod](#)

Commit d3907bf2 
 Merge branch 'patcg' into 'prod'

Pipeline #11821508 for prod 
 deploy 

- deploy:acquirers
- deploy:dnsrouters
- deploy:edgecaches:pop[redacted]11
- deploy:edgecaches:pop[redacted]500
- deploy:edgecaches:pop[redacted]1
- deploy:edgecaches:pop[redacted]10



CDN

ANALITIKA

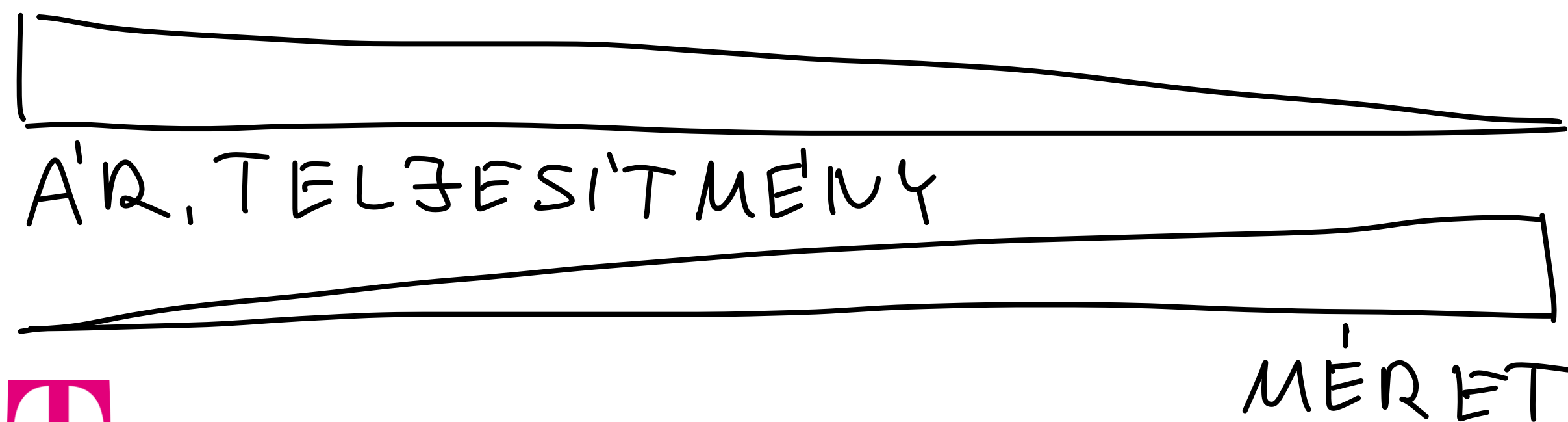
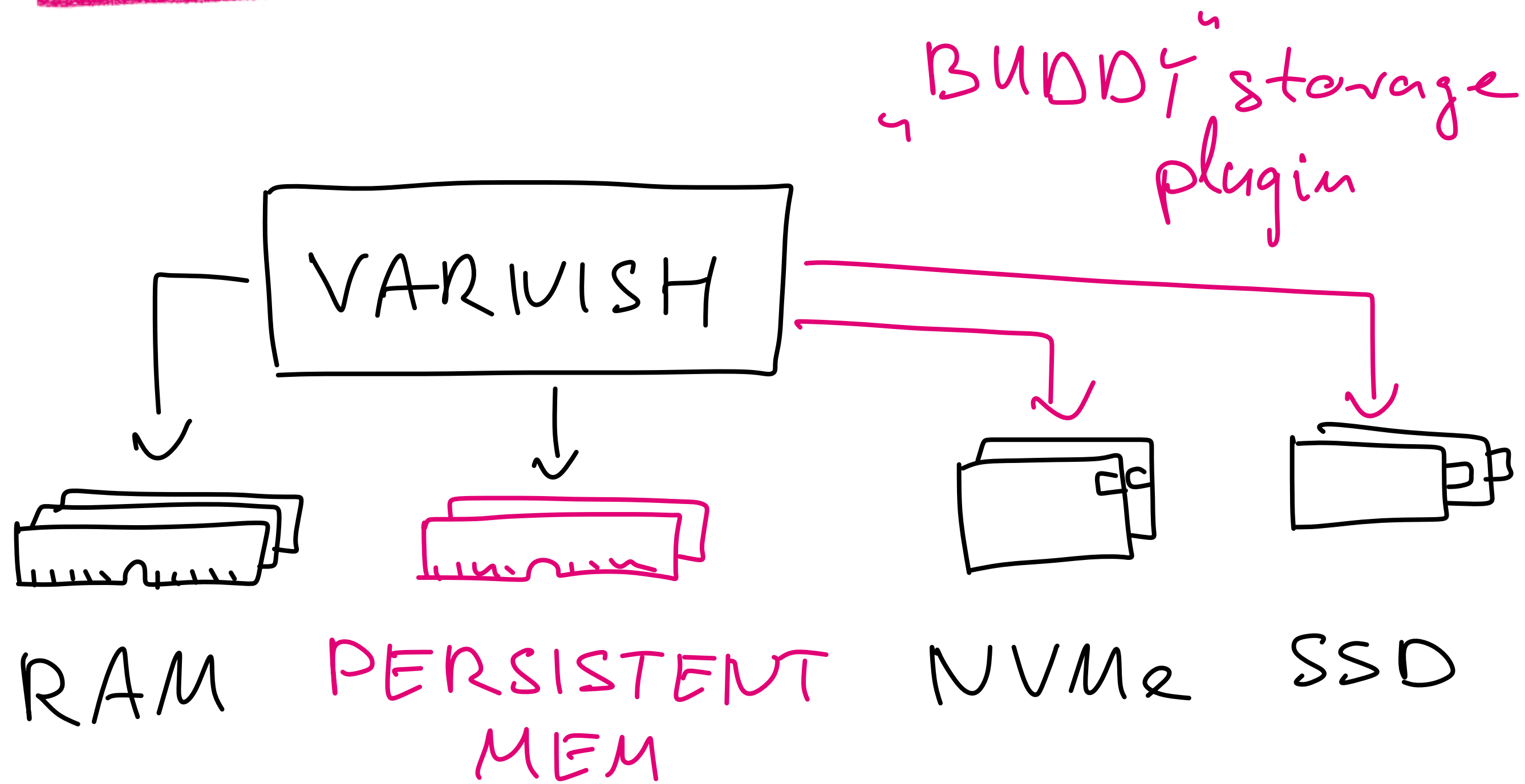


SEARCH
GUARD

~ 50%

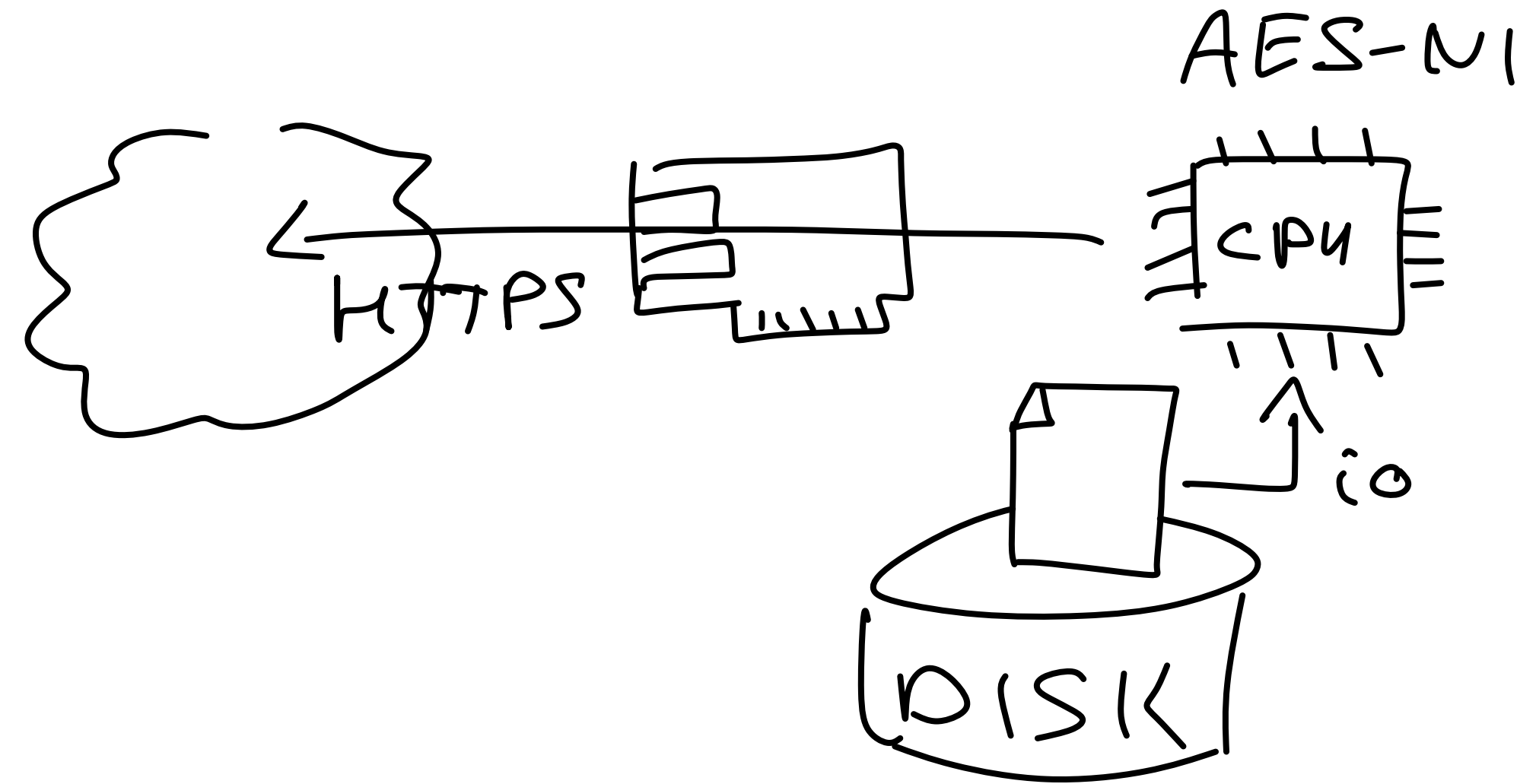
CDN
KÖLTSEÉG

KÖVETKEZŐ LÉPÉS

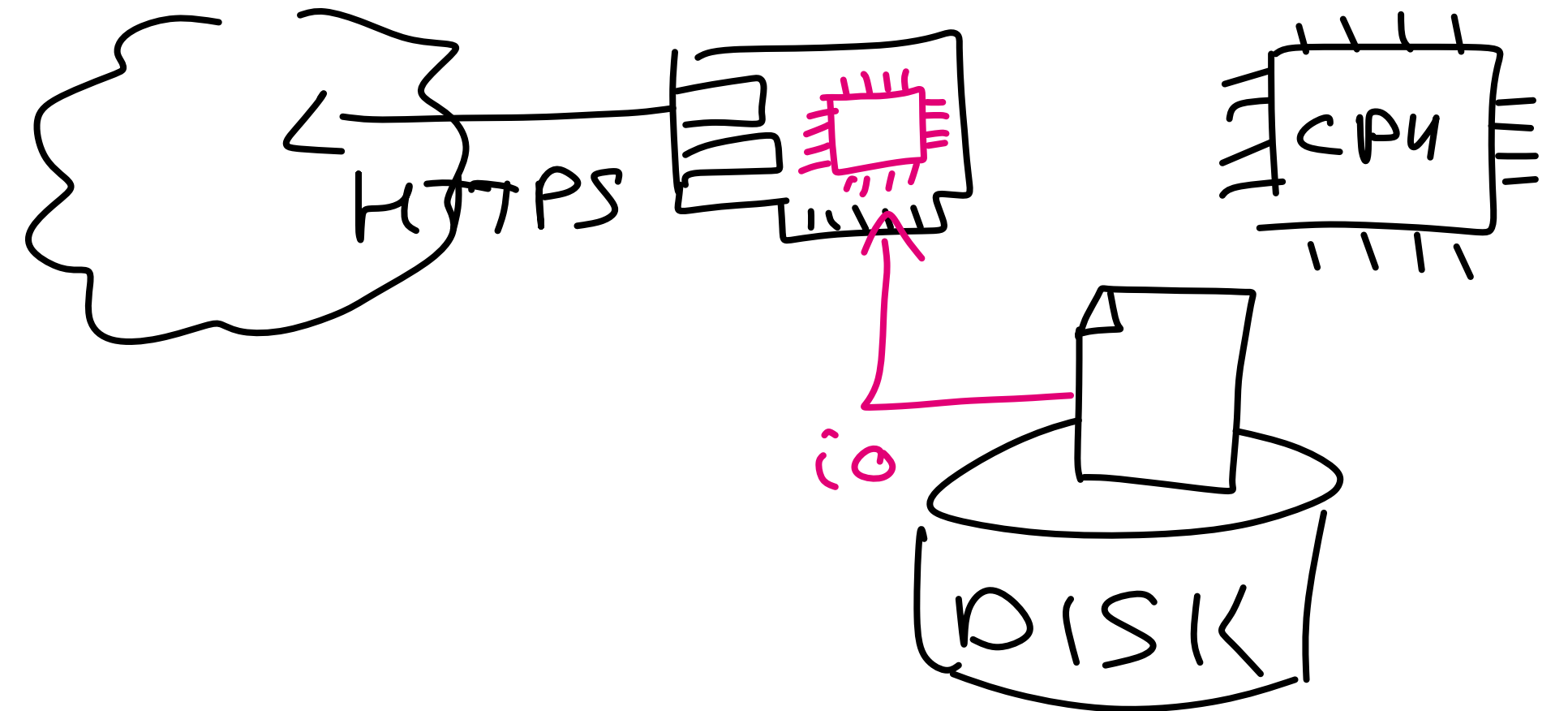


T...

TLS

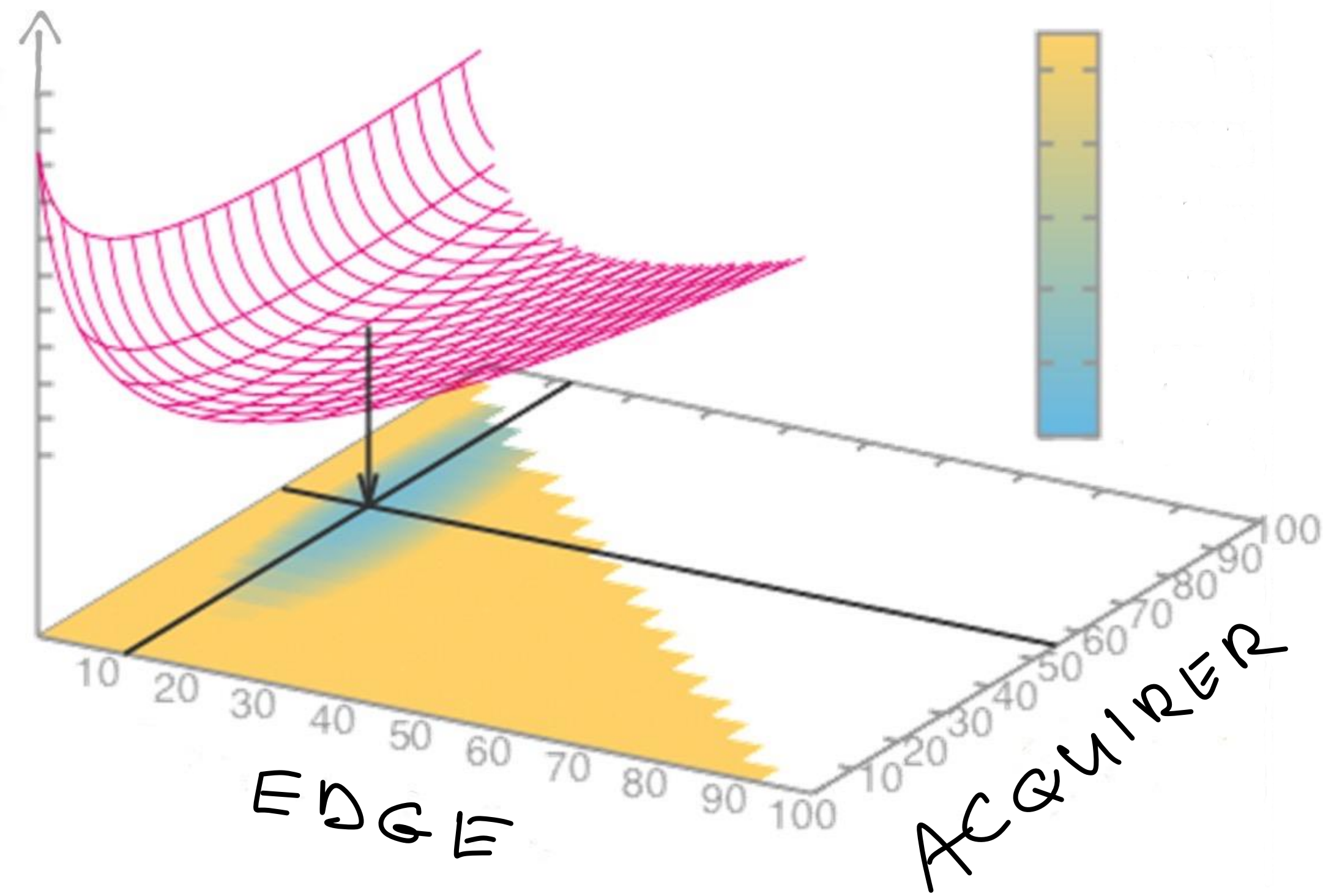


KERNEL TLS

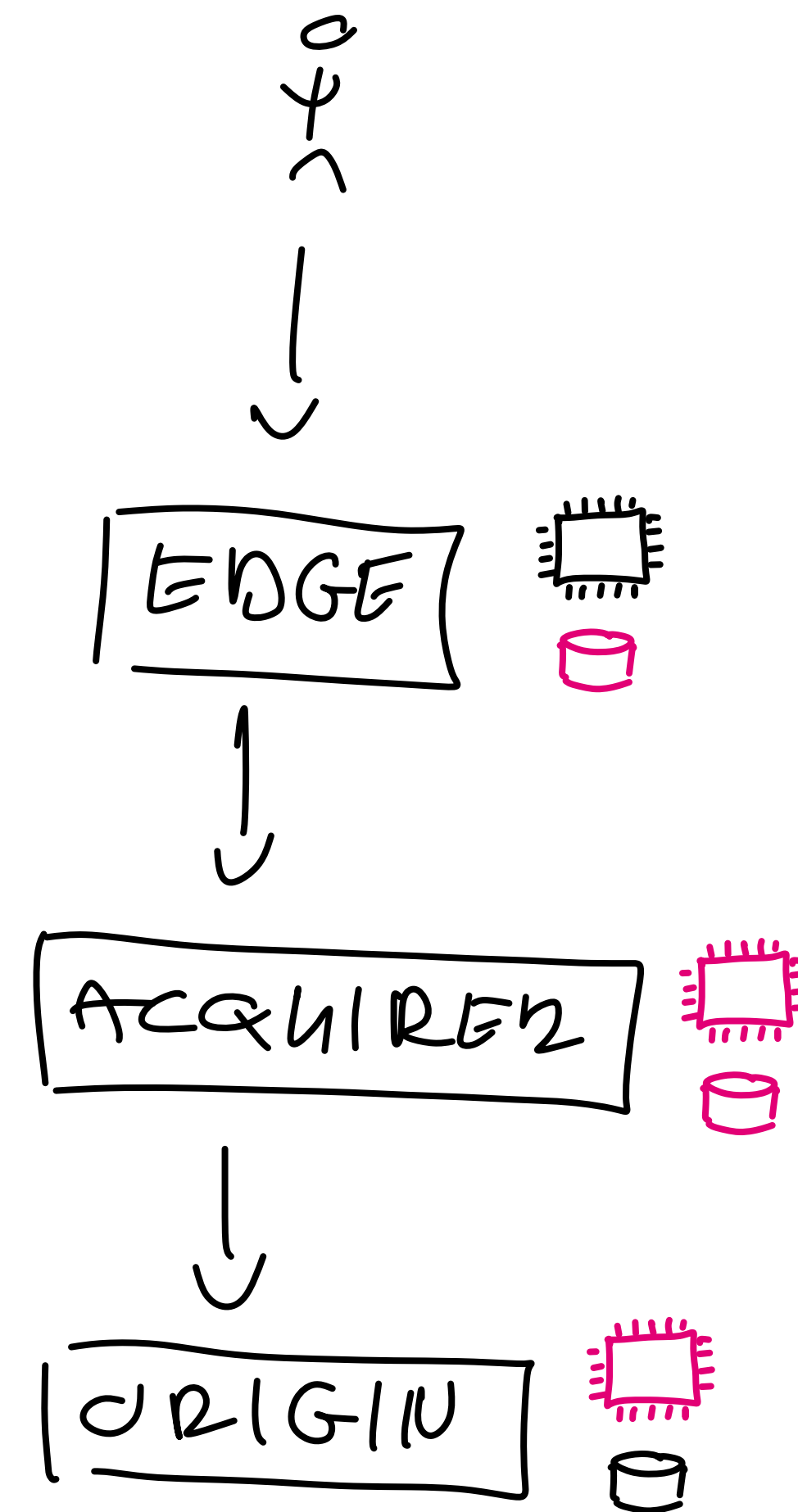


MERRE TOVA'BB?

CAN
KÖLTSE'G



TA'RHELY¹



T...

¹ ORIGIN MÉRLET %-BAN