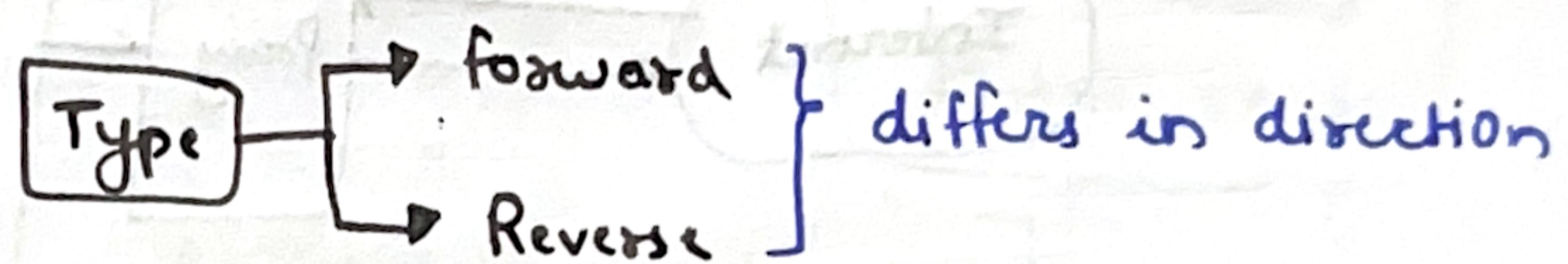
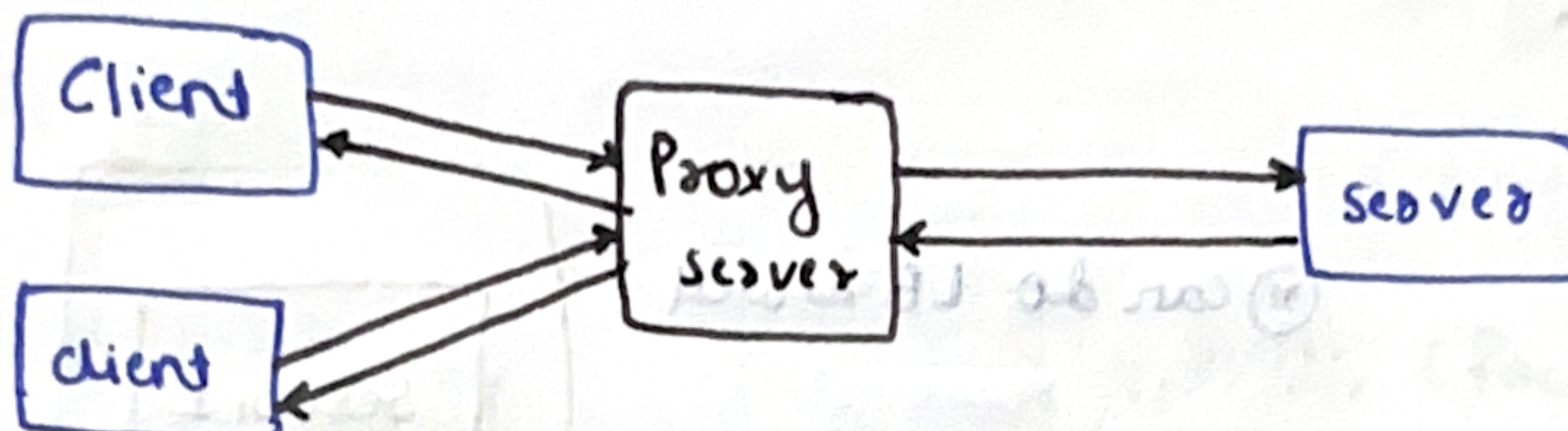


Proxy Server :

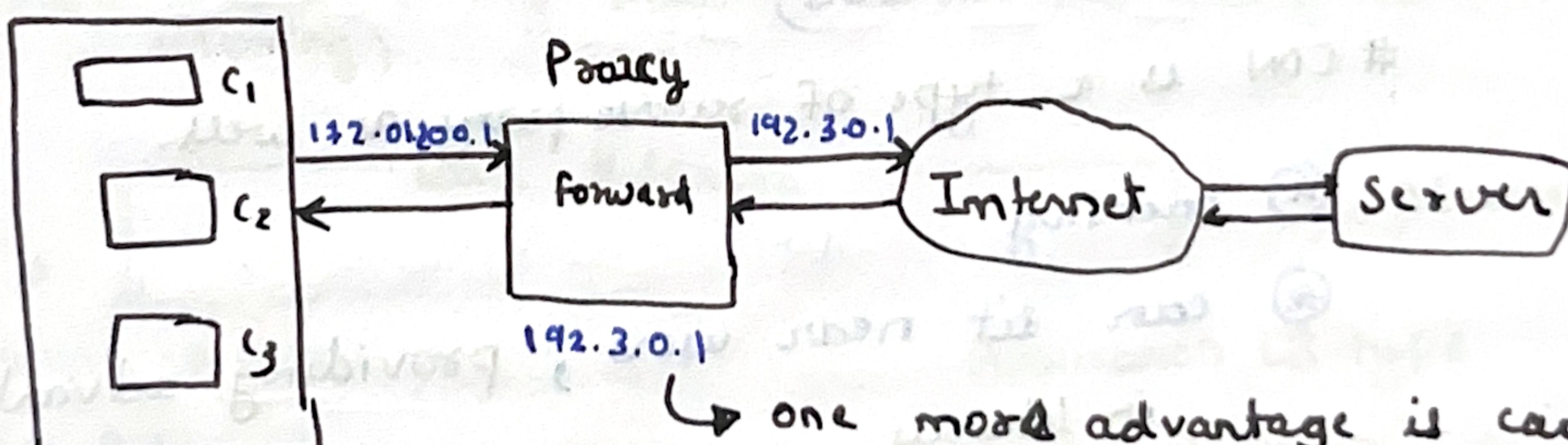
⇒ takes request on someone's behalf.

- sits betⁿ client and server



* Forward Proxy : (Proxy)

Intranet (172.0.1.0/22)



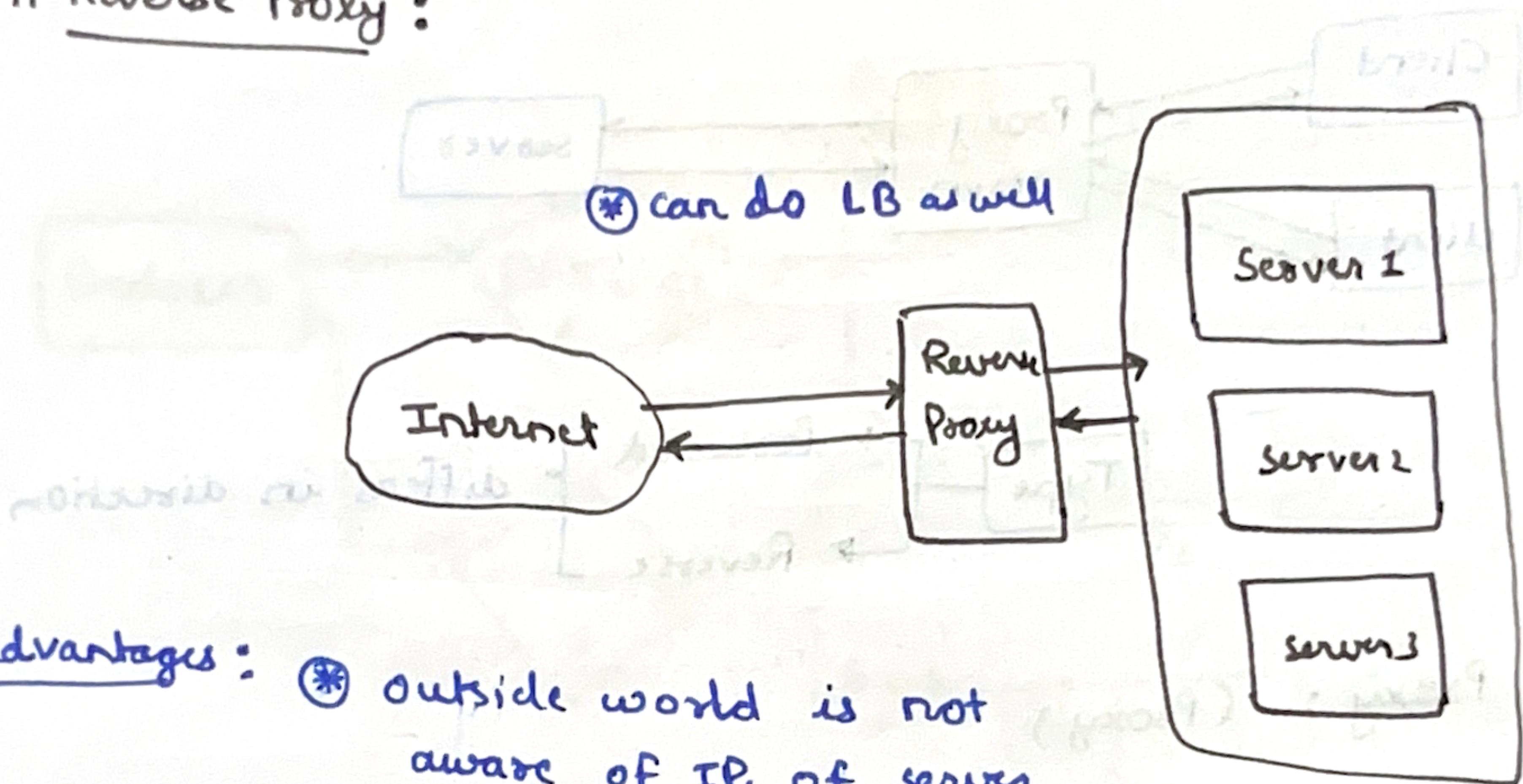
one more advantage is caching.

- ↳ hides this client network
- ↳ Proxy sends its own IP to internet and internet can't interact with client directly, giving anonymity
- ↳ grouping of similar request
- ↳ Helps accessing restrictive content.
- ↳ brings security by defining access rules

* disadvantages :

→ works on application layer, for each application we need to add proxy explicitly, if required.

Reverse Proxy :



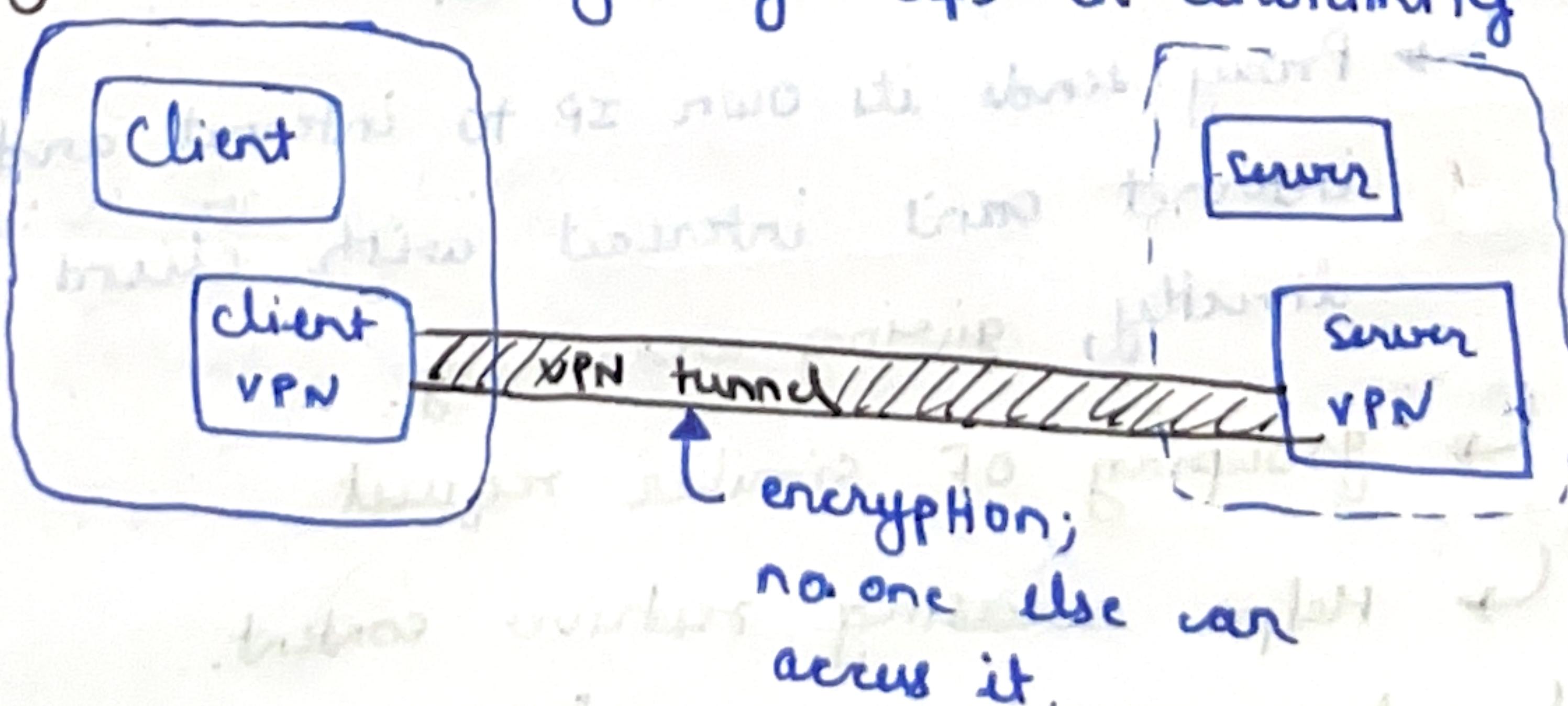
advantages :

- * outside world is not aware of IPs of server
(attackers can only attack R.P. & not servers)

CDN is a type of reverse proxy as well.

- * caching
- * can sit near users, providing advantages in latency.

* Proxy Vs VPN : Proxy only helps in anonymity & security



* Proxy Vs Load Balancer :

- Reverse Proxy can act as Load Balancer
- L.B. cannot be proxy.

basically R.P. provides additional benefit like logging, security, caching etc.

* Proxy Vs Firewall :

⇒ while proxy works on application layers providing access to data also.

firewall



rules (Packet scanning)

checks Headers
PortNo, IP etc.

[decides to allow it based on Packet information]