

## Proxy Server

Proxy server is a system or router that provides a gateway between users and the internet.  
(intermediary between user and internet)

### Forward Proxy

User(clients) -> Proxy Server -> Internet

Why we use Forward Proxy?

- Anonymity and privacy
- Access Control
- Bypassing Geo-Restrictions
- Caching
- Security Monitoring

ex. Squid, CCProxy, Privoxy, FoxyProxy, TinyProxy, Tor.....etc etc...

### Reverse Proxy

Traffic is coming from Internet

Internet -> Proxy Server -> Servers (web)

Why we use Reverse Proxy?

- Load Balancing
- Security (by Hiding the actual IP)
- caching
- GSLB (Global Server Load Balancing)
- Access Control and Authentication
- Application Firewall

ex. nginx, HAProxy, AWS ELB, squid