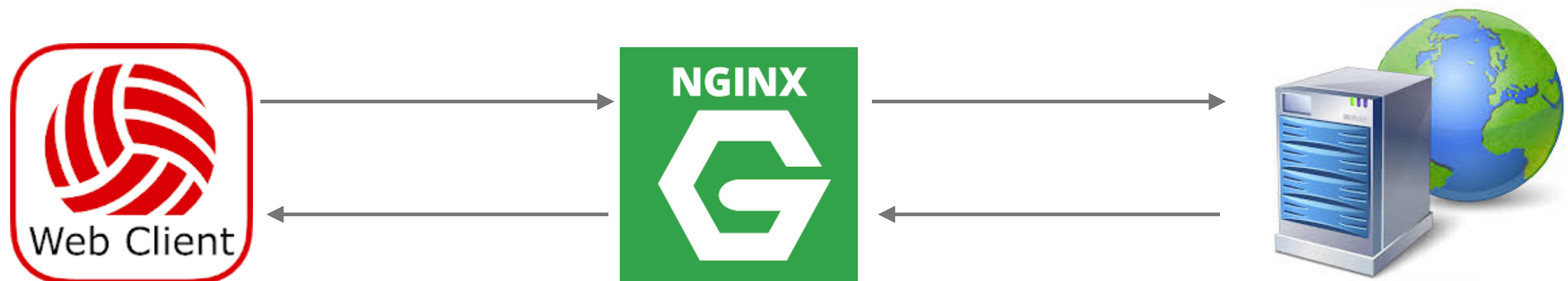


NGINX

NGINX: Introduction Reverse Proxy

NGINX : Web-Server & Load Balancer

- **Reverse Proxy:** A reverse proxy is a server that sits in front of web servers and forwards client (e.g. web browser) requests to those web servers.
- Reverse proxies are typically implemented to help increase security, performance, and reliability.



***NGINX** : Web-Server & Load Balancer*

- **Benefits of Reverse Proxy -**
- **Load Balancing** - A popular website that gets millions of users every day may not be able to handle all of its incoming site traffic with a single origin server. Instead, the site can be distributed among a pool of different servers, all handling requests for the same site.
- A reverse proxy can provide a load balancing solution which will distribute the incoming traffic evenly among the different servers to prevent any single server from becoming overloaded.
- **Protection from attacks** - With a reverse proxy in place, a web site or service never needs to reveal the IP address of their origin server(s). This makes it much harder for attackers to leverage a targeted attack against them such as DOS attack, CDN attack and more.

NGINX : Web-Server & Load Balancer

- **Benefits of Reverse Proxy -**
- **Caching** - A reverse proxy can also cache content, resulting in faster performance.
- **SSL encryption** - Encrypting and decrypting SSL communications for each client can be computationally expensive for an origin server. A **reverse proxy** can be configured to decrypt all incoming requests and encrypt all outgoing responses, freeing up valuable resources on the origin server.

Will see you in Next Lecture...

Thank you!

A close-up photograph of a hand holding a black marker, completing the cursive word 'Thank you!' on a white surface. The hand is positioned on the right side of the frame, with the index and thumb fingers visible, holding the marker. The marker's tip is just finishing the exclamation mark. The background is a plain, light-colored surface.

See you in next lecture ...