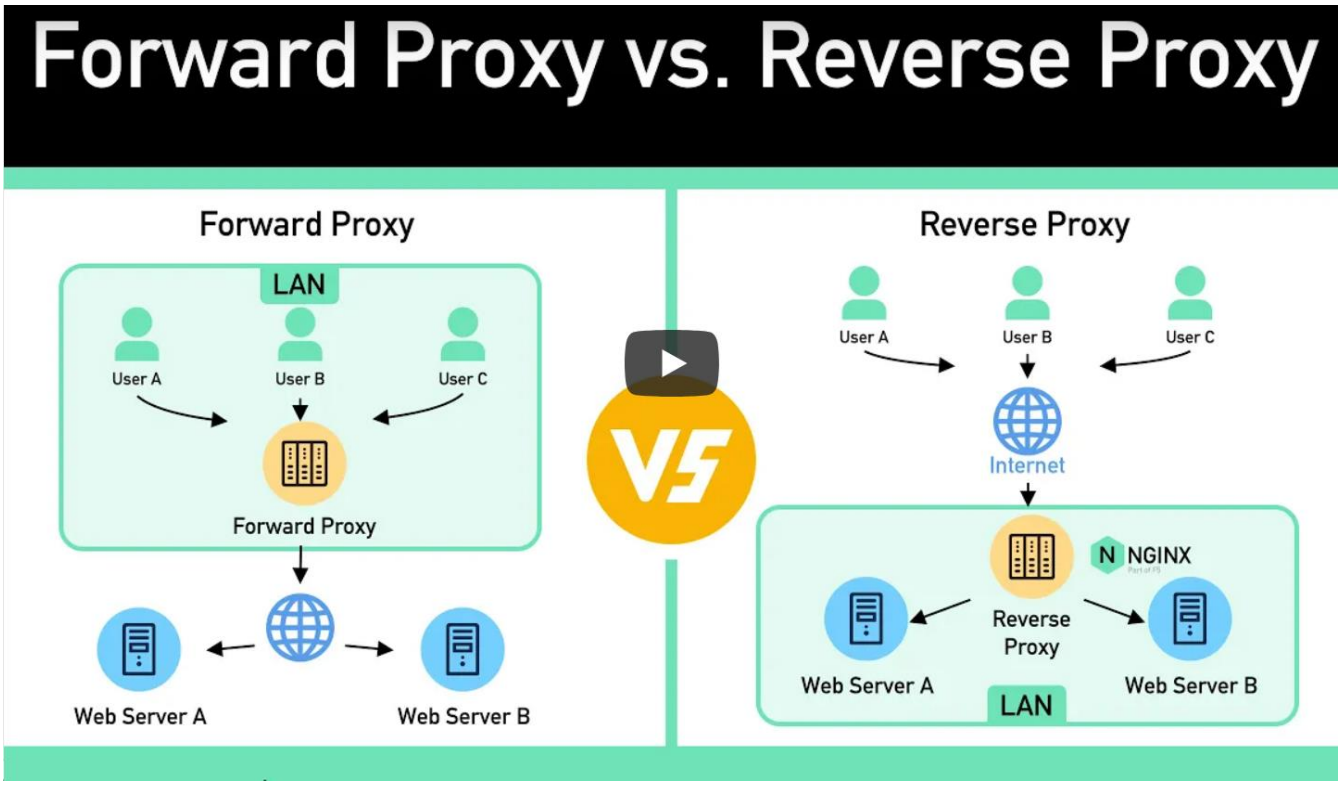
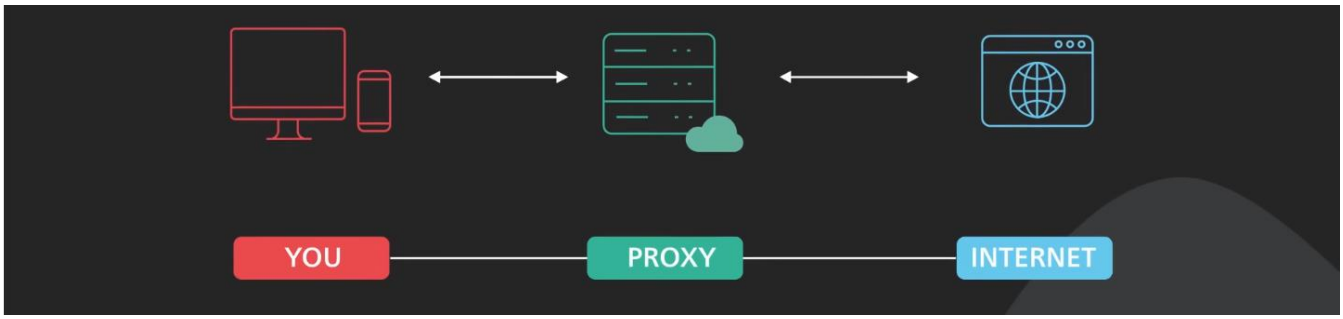
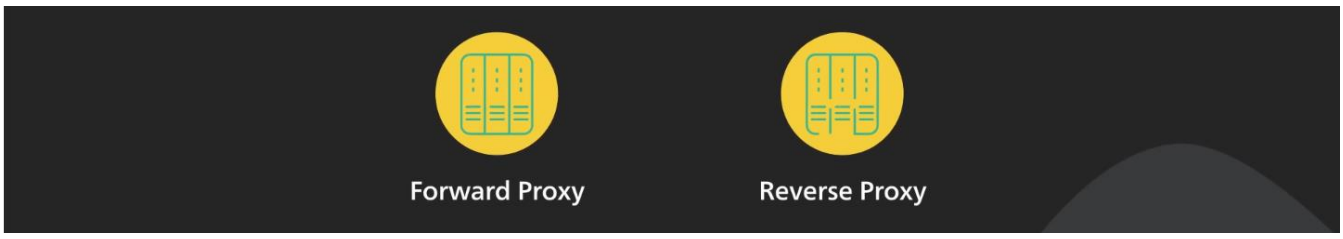
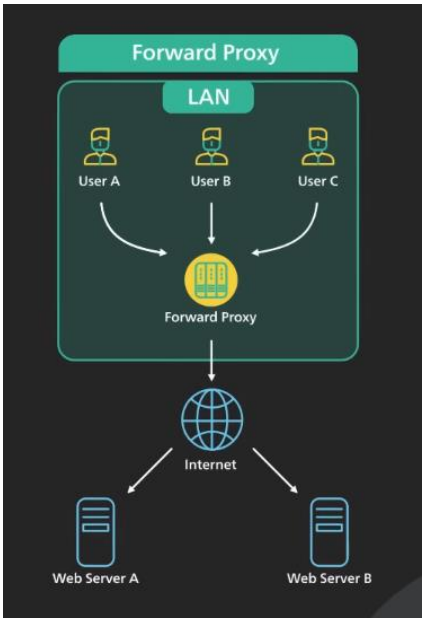
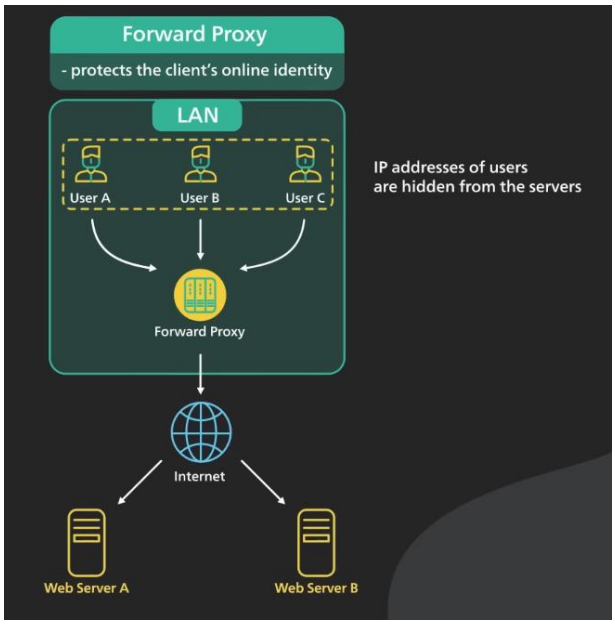

Forward Proxy vs. Reverse Proxy
Forward Proxy
LAN
User A
User B
User C
Forward Proxy
Web Server A
Web Server B
VS
Reverse Proxy
User A
User B
User C
Internet
NGINX
Reverse Proxy
Web Server A
Web Server B
LAN

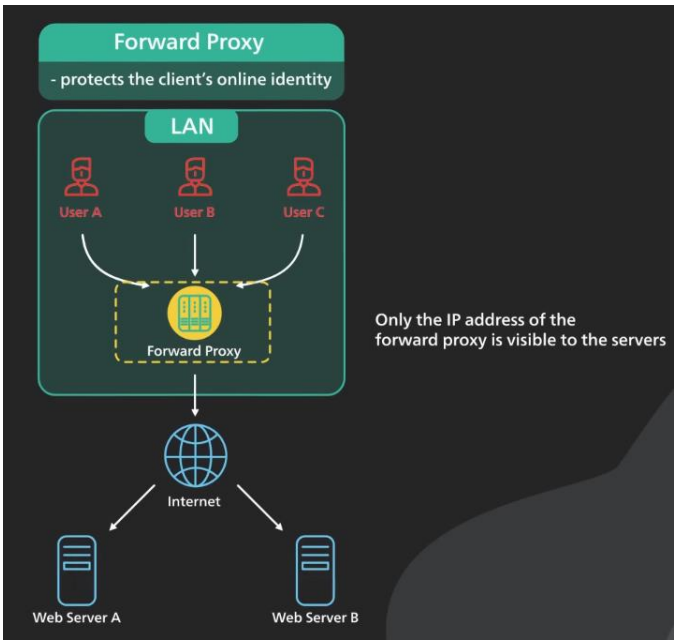
NGINX

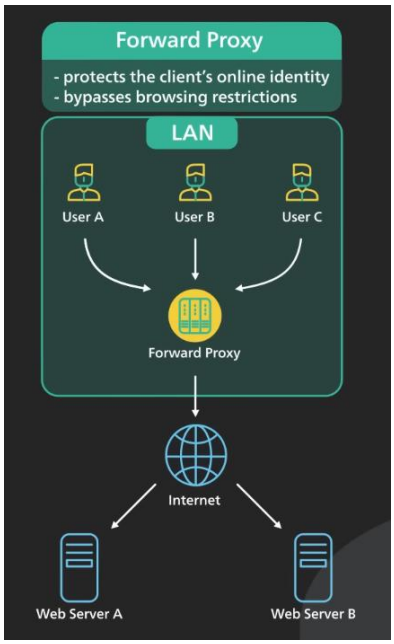

YOU
PROXY
INTERNET

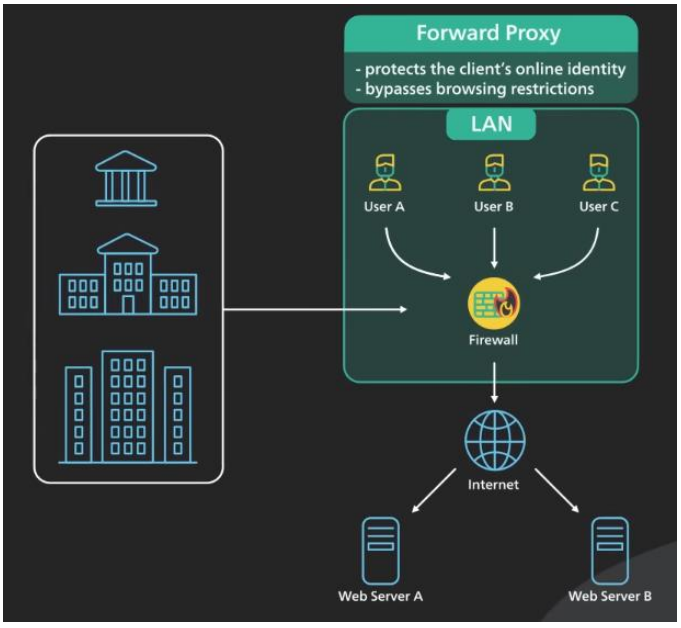

Forward Proxy
Reverse Proxy

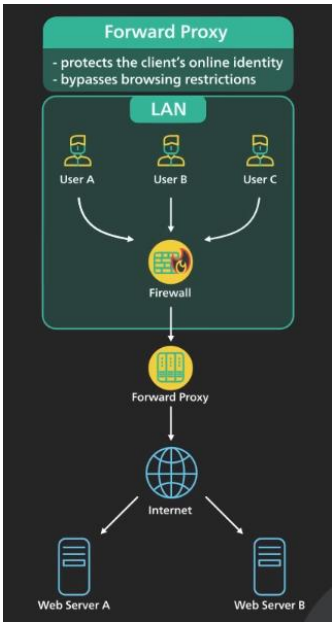

Forward Proxy
LAN
User A
User B
User C
Forward Proxy
Internet
Web Server A
Web Server B

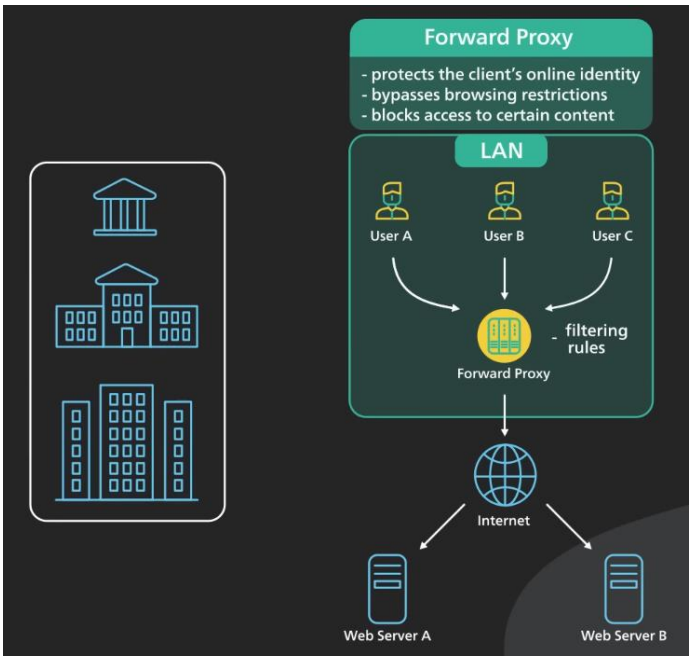

Forward Proxy
- protects the client's online identity
LAN
User A
User B
User C
Forward Proxy
Internet
Web Server A
Web Server B
IP addresses of users
are hidden from the servers

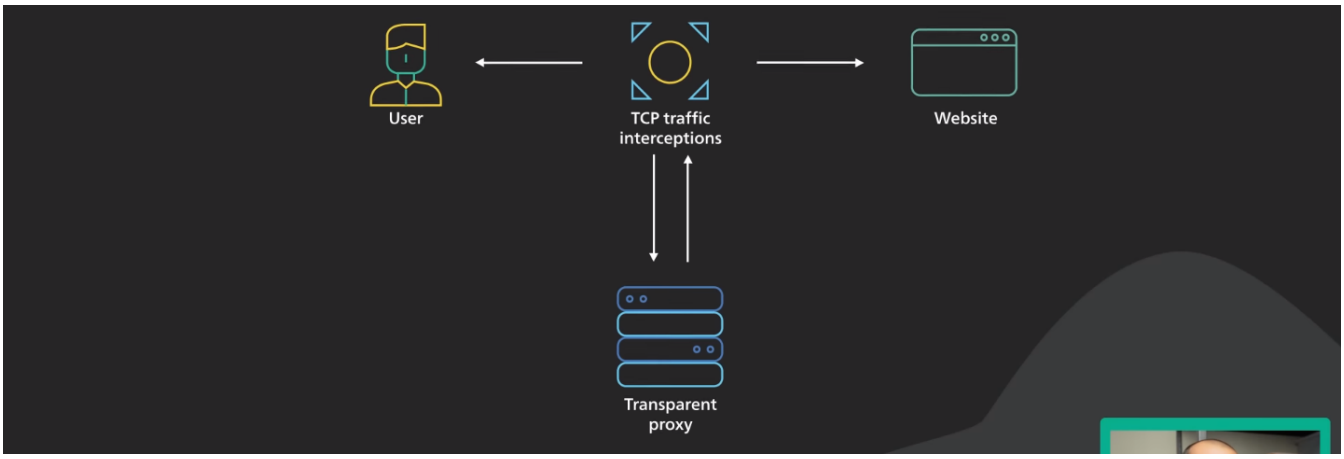

Forward Proxy
- protects the client's online identity
LAN
User A
User B
User C
Forward Proxy
Internet
Web Server A
Web Server B
Only the IP address of the
forward proxy is visible to the servers

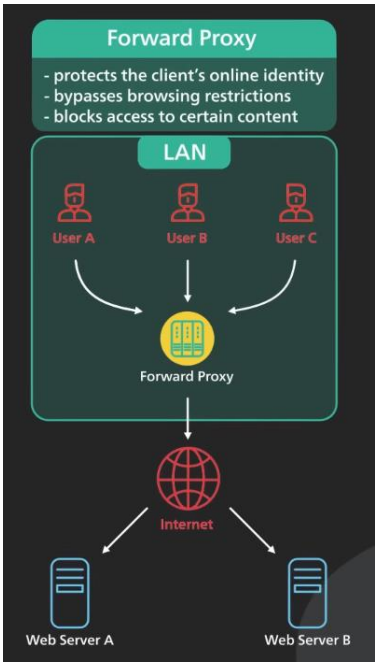

Forward Proxy
- protects the client's online identity
- bypasses browsing restrictions
LAN
User A
User B
User C
Forward Proxy
Internet
Web Server A
Web Server B

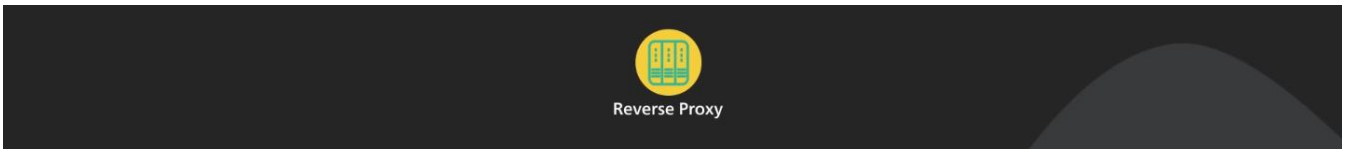

Forward Proxy
- protects the client's online identity
- bypasses browsing restrictions
LAN
User A
User B
User C
Firewall
Internet
Web Server A
Web Server B

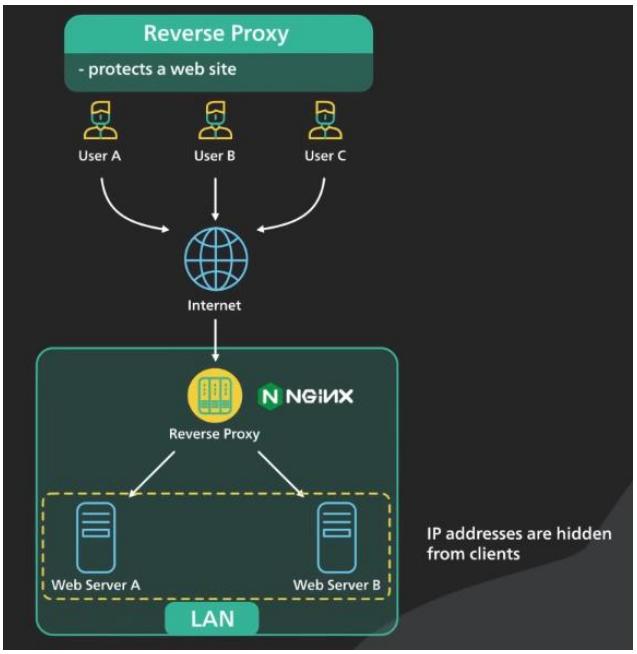

Forward Proxy
- protects the client's online identity
- bypasses browsing restrictions
LAN
User A
User B
User C
Firewall
Forward Proxy
Internet
Web Server A
Web Server B

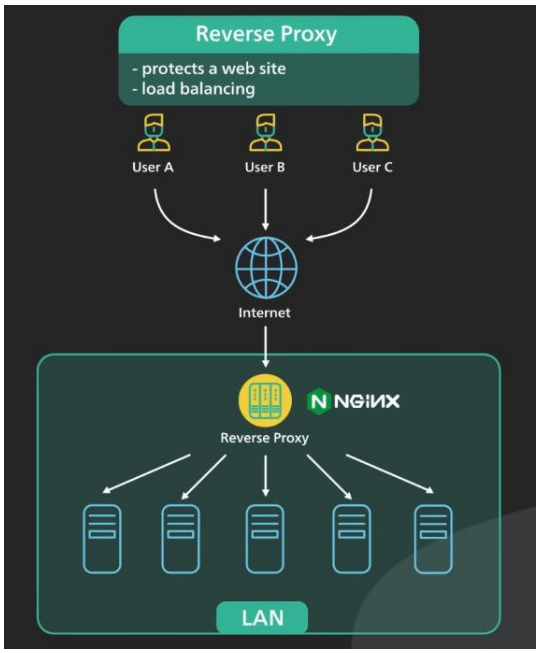

Forward Proxy
- protects the client's online identity
- bypasses browsing restrictions
- blocks access to certain content
LAN
User A
User B
User C
- filtering rules
Forward Proxy
Internet
Web Server A
Web Server B

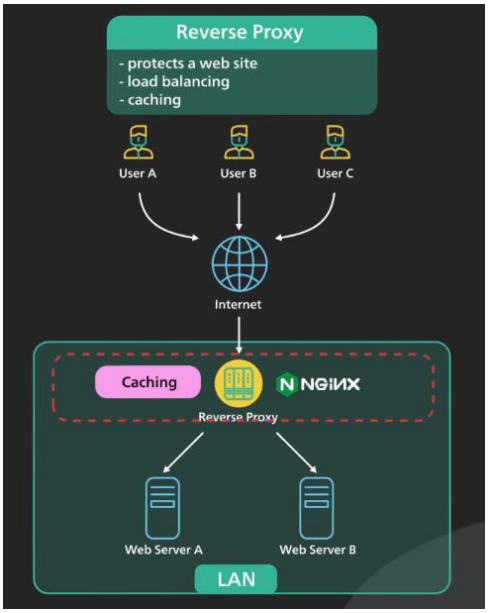

User
TCP traffic interceptions
Website
Transparent proxy

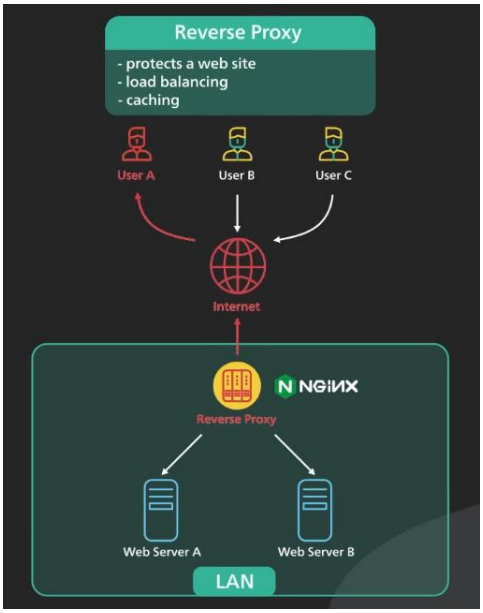

Forward Proxy
- protects the client's online identity
- bypasses browsing restrictions
- blocks access to certain content
LAN
User A
User B
User C
Forward Proxy
Internet
Web Server A
Web Server B

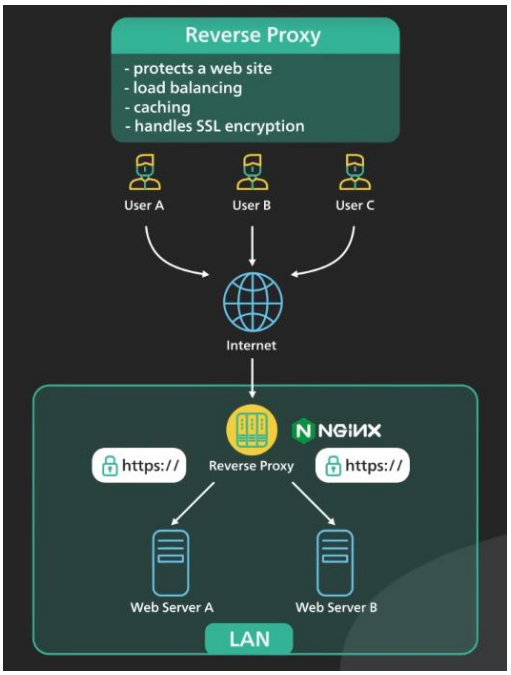

Reverse Proxy

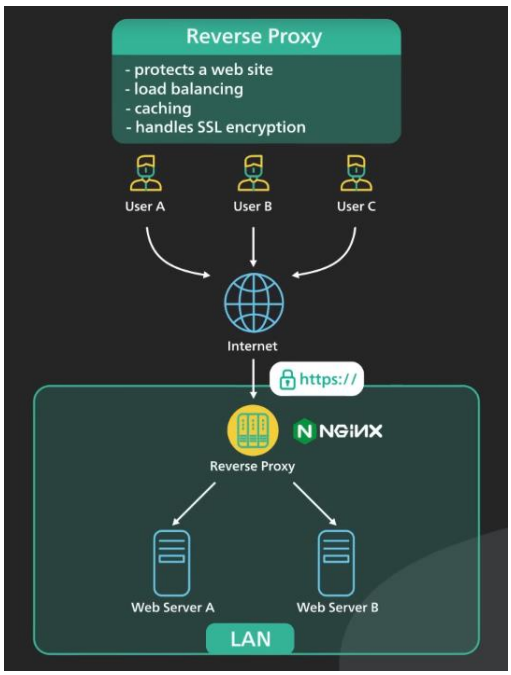

Reverse Proxy
- protects a web site
User A
User B
User C
Internet
NGINX
Reverse Proxy
Web Server A
Web Server B
LAN
IP addresses are hidden from clients


Reverse Proxy
- protects a web site
- load balancing
User A
User B
User C
Internet
NGINX
Reverse Proxy
LAN

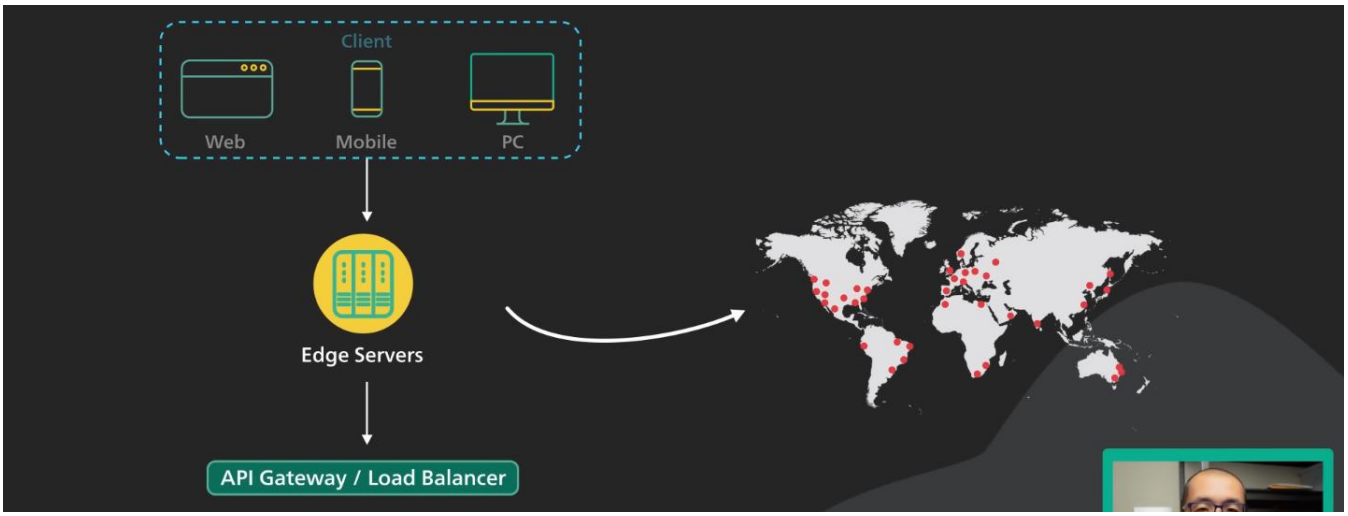

Reverse Proxy
- protects a web site
- load balancing
- caching
User A
User B
User C
Internet
Caching
NGINX
Reverse Proxy
Web Server A
Web Server B
LAN

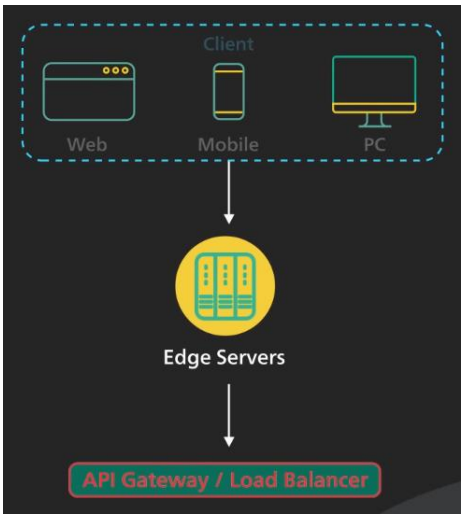

Reverse Proxy
- protects a web site
- load balancing
- caching
User A
User B
User C
Internet
NGINX
Reverse Proxy
Web Server A
Web Server B
LAN

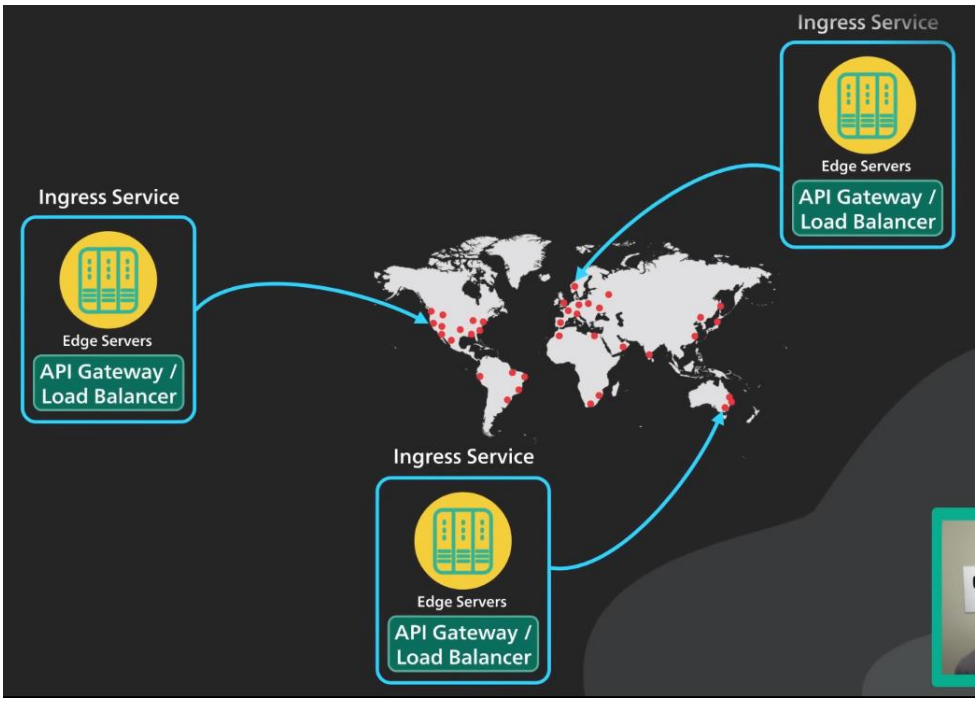

Reverse Proxy
- protects a web site
- load balancing
- caching
- handles SSL encryption
User A
User B
User C
Internet
https://
NGINX
Reverse Proxy
https://
Web Server A
Web Server B
LAN


Reverse Proxy
- protects a web site
- load balancing
- caching
- handles SSL encryption
User A
User B
User C
Internet
https://
NGINX
Reverse Proxy
Web Server A
Web Server B
LAN

Meta
Google
amazon
NETFLIX
stripe


Client
Web
Mobile
PC
Edge Servers
API Gateway / Load Balancer


Client
Web
Mobile
PC
Edge Servers
API Gateway / Load Balancer


Ingress Service
Edge Servers
API Gateway / Load Balancer
Ingress Service
Edge Servers
API Gateway / Load Balancer
Ingress Service
Edge Servers
API Gateway / Load Balancer

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EP22: Latency numbers you should know. Also...
EP20: How SQL works under the hood. Also...
EP23: How to choose the right database? Also...
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