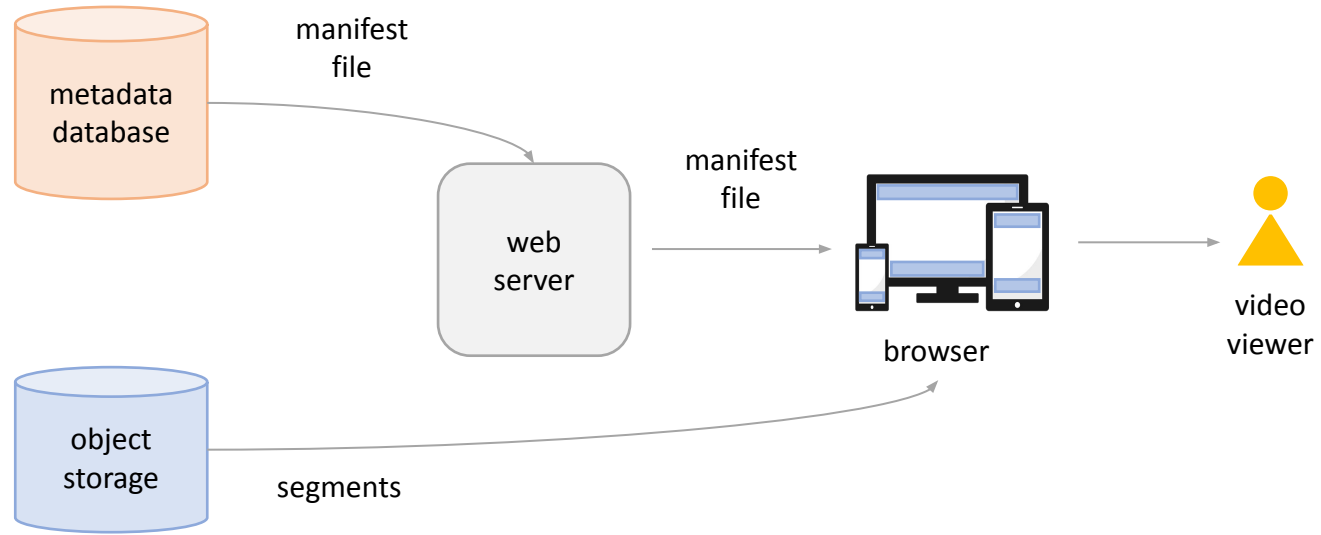


# Content delivery network

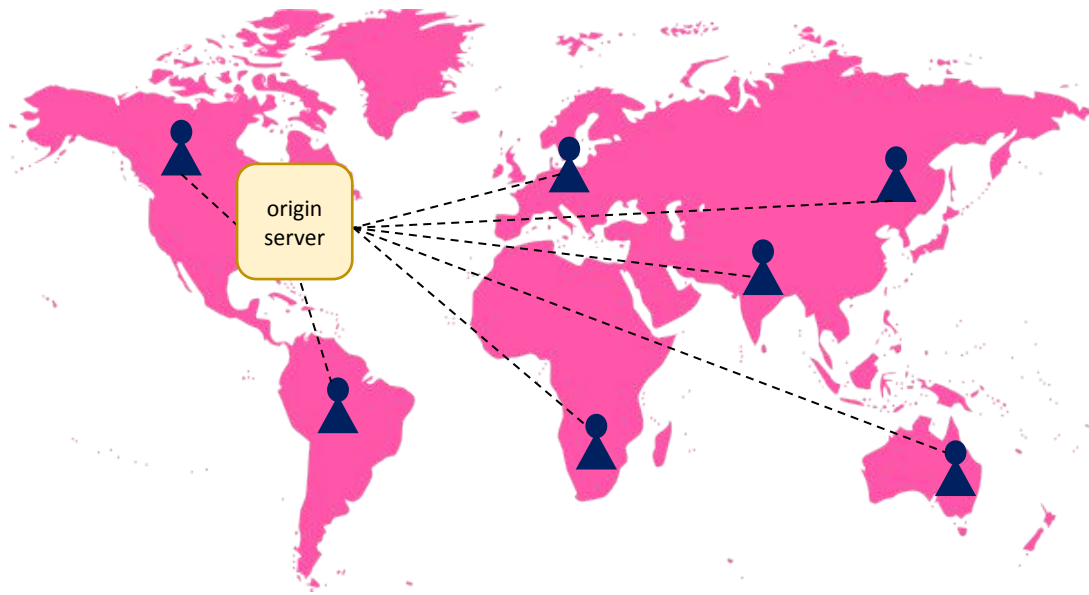


- read latency → bring content closer to viewers
  - read scalability → replication and caching
- +  
= CDN

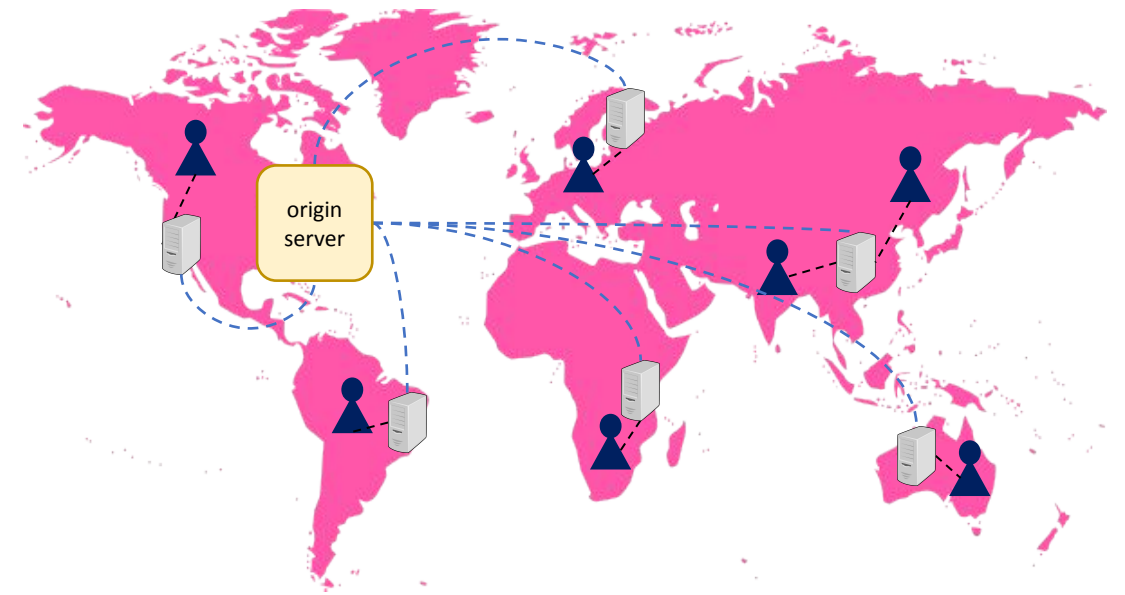
# Content delivery network

distributed network of servers placed across the globe  
with the purpose of delivering web content to users as fast as possible

without CDN



with CDN

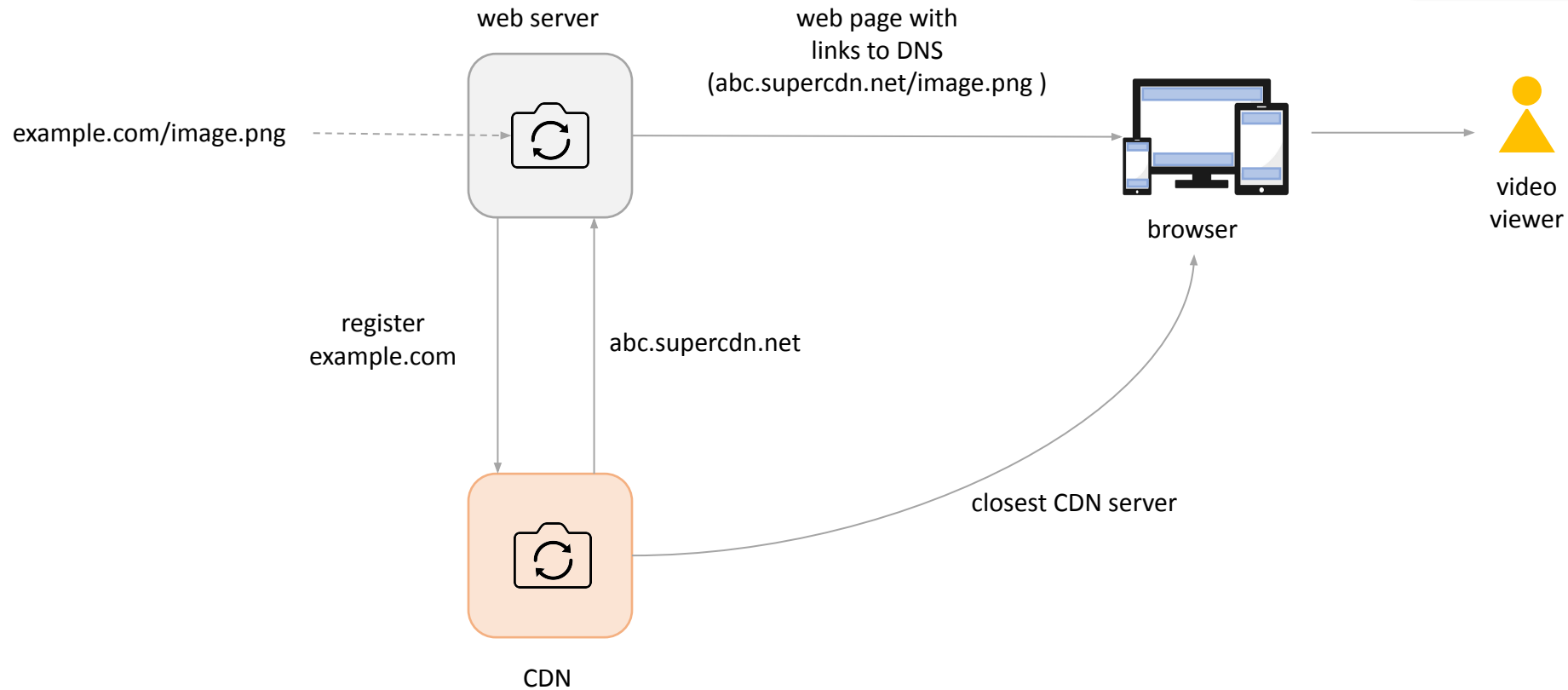


----- content replication

# Content delivery network

how to use it

HTTP headers help control TTL  
(time-to-live) for cached content



pull CDN

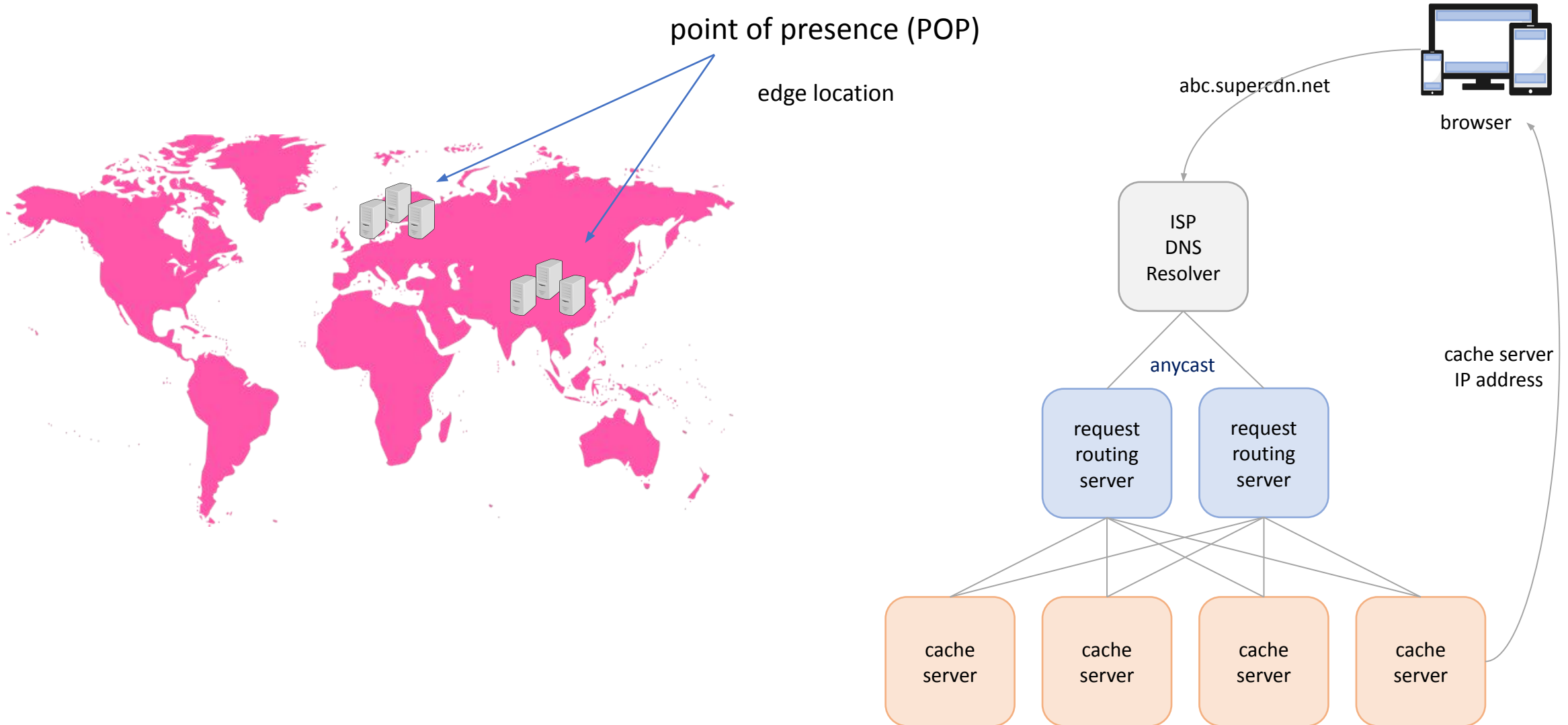
CDN servers pull data from the original server when requested

push CDN

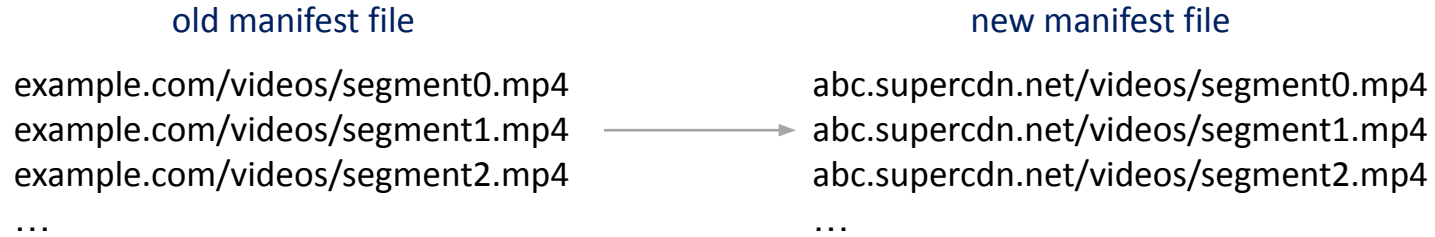
content is pushed to CDN servers every time it is published to the original server

# Content delivery network

how it works



# Content delivery network



## benefits

- **performance** (lower latency due to decreased distance)
- **scalability** (due to horizontally scalable POPs)
- **reliability** (due to data redundancy, failover to a different server or POP, load balancing)
- **resilience against DDoS attack** (due to anycast, load balancing)