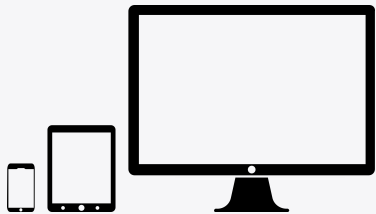


# System Design Fundamentals

## Application Layer

Client Application



Network Layer



Application Layer



Cache Layer



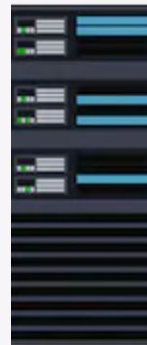
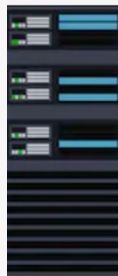
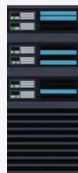
Database Layer



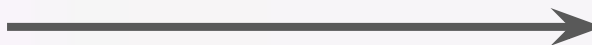
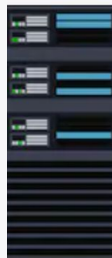
# Topics

- Resource scaling
- Load Balancers
- Client side storage
- Edge Computing

# Resource Scaling

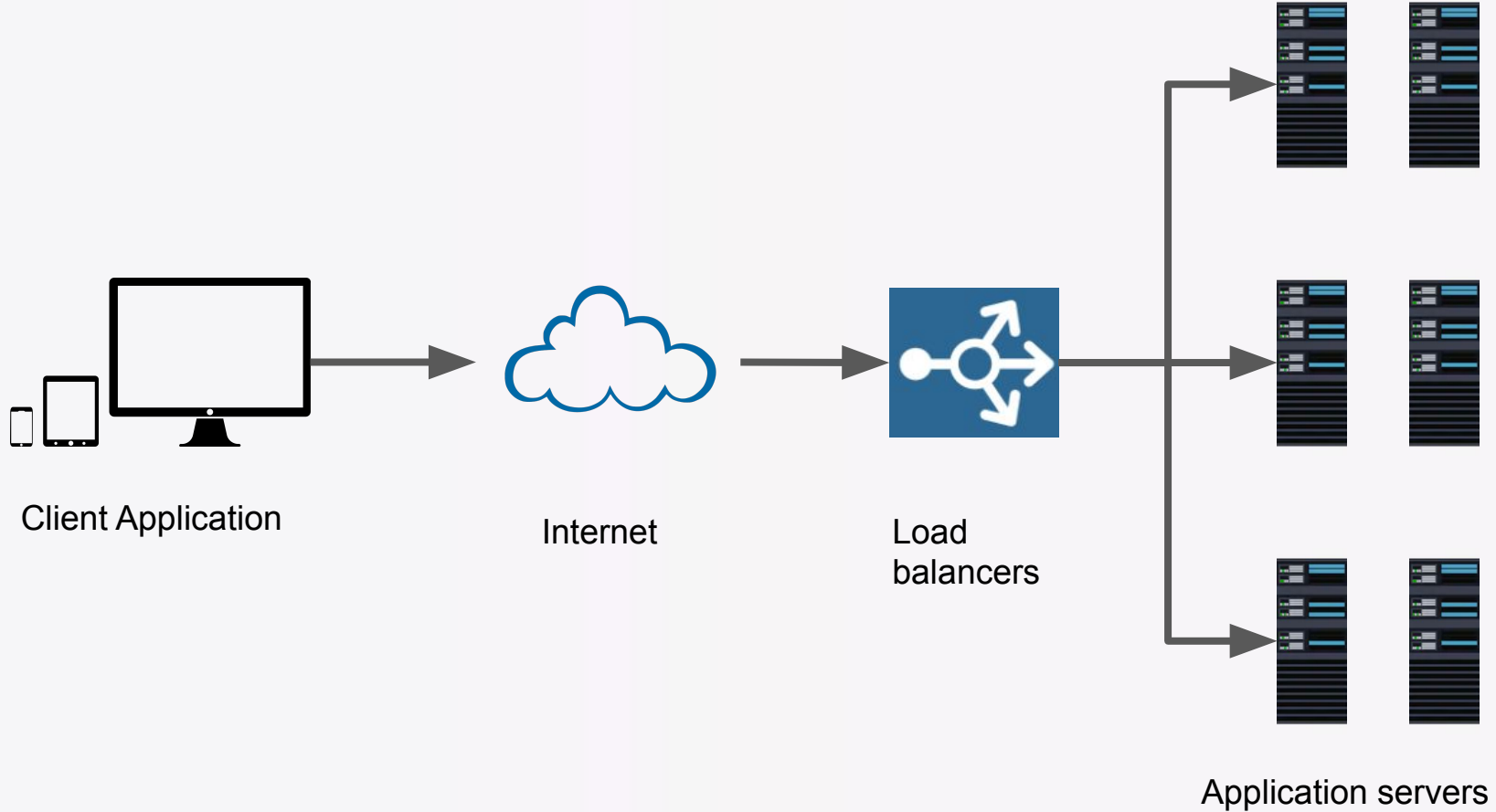


Vertical scaling



Horizontal scaling

# Load Balancers



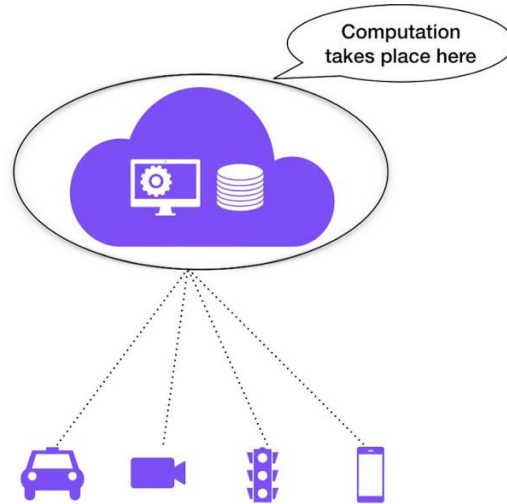
# Client side storage

- Cookies
- Web Storage API : Local Storage and Session Storage
- Indexed DB
- HTTP Cache

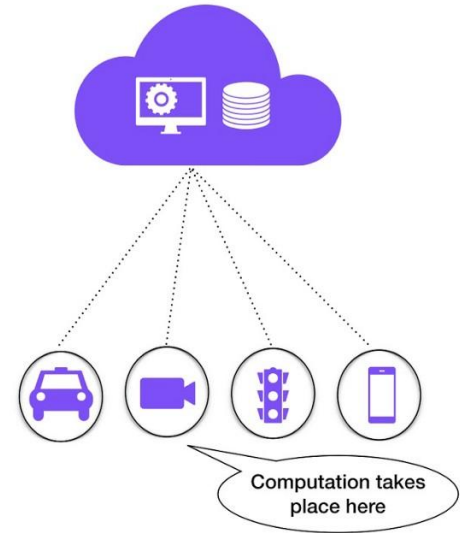
# Edge Computing

- Reducing latency
- Enhancing security
- Reducing infrastructure
- Improving reliability

Cloud Computing



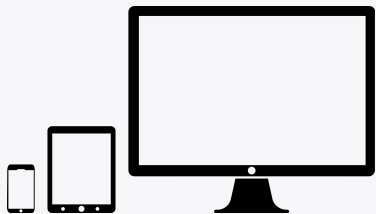
Edge Computing



# System Design Fundamentals

## Application Layer

Client Application



Network Layer



Application Layer



Cache Layer



Database Layer

