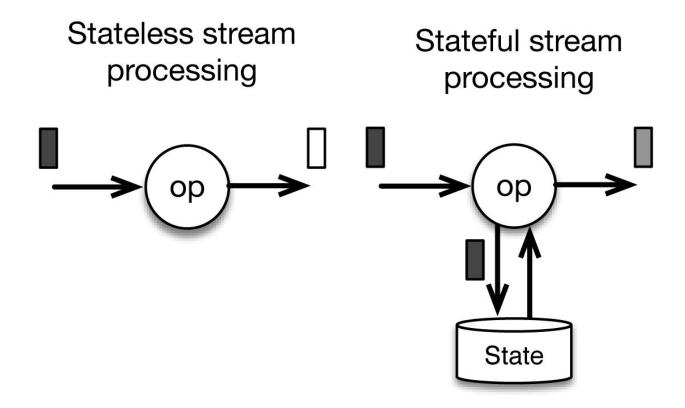
# Microservices and Monolith

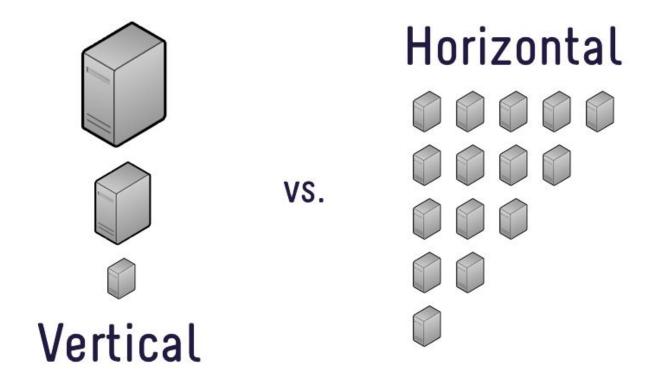
# Agenda

- Stateless vs Stateful
- Scaling
- Load balancing
- Monolith vs Microservices

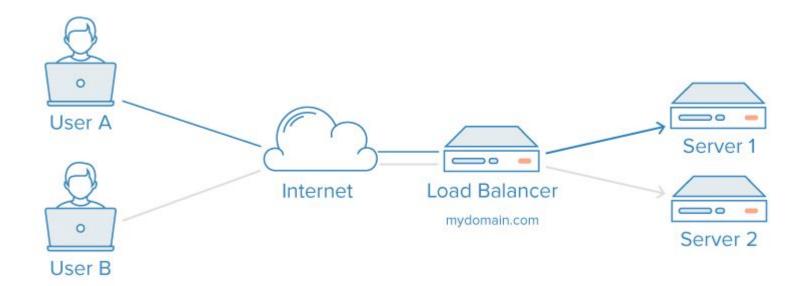
## Stateless vs Stateful



# Scaling



# Load balancing

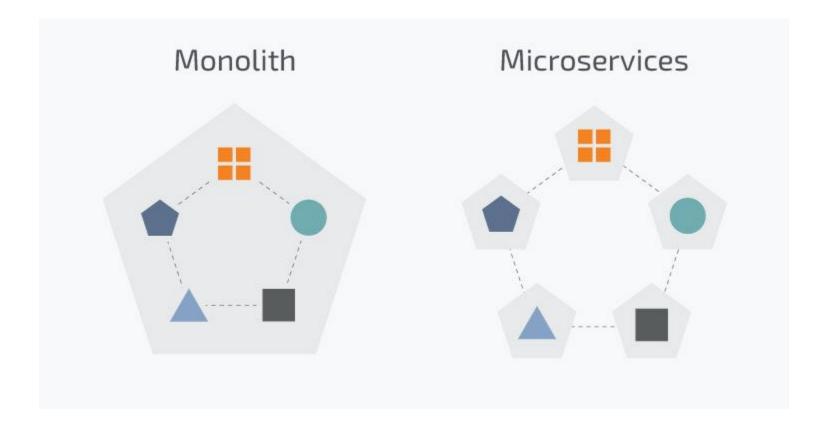


https://www.nginx.com/blog/nginx-power-of-two-choices-load-balancing-algorithm/

# Load balancing

- 1. Round-Robin Load Balancing
- 2. Least Connections Load Balancing
- 3. Least Time Load Balancing
- 4. Power of Two Choices

## Monolith vs Microservices



## Pros

#### Monolith

- Less cross-cutting concerns
- Easier debugging and testing
- Simple to deploy
- Simple to develop

#### Microservices

- Independent components
- Easier understanding
- Better scalability
- Flexibility in choosing the technology
- The higher level of agility

## Cons

### Monolith

- Understanding
- Making changes
- Scalability
- New technology barriers

#### Microservices

- Extra complexity
- System distribution
- Cross-cutting concerns
- Testing