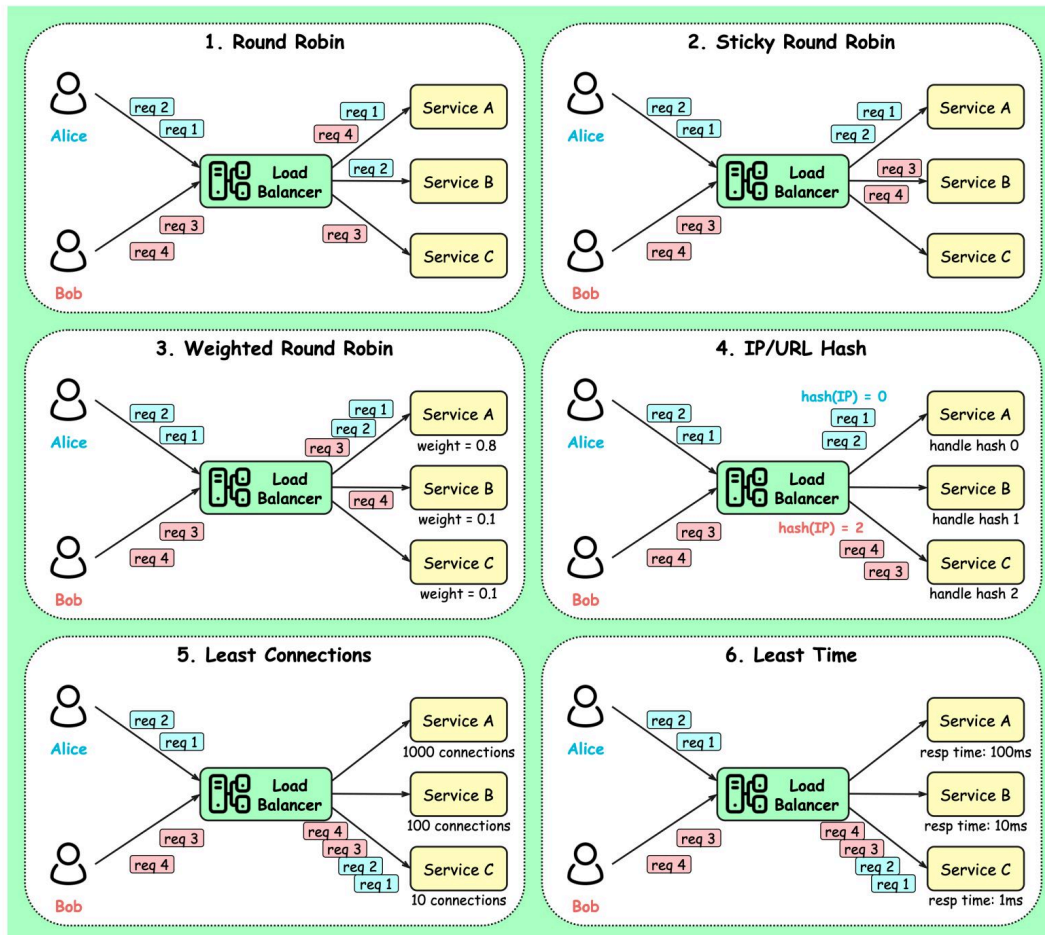


# Top 6 Load Balancing Algorithms

## Load Balancing Algorithms

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## Static Algorithms

- 1. Round robin**  
The client requests are sent to different service instances in sequential order. The services are usually required to be stateless.
- 2. Sticky round-robin**  
This is an improvement of the round-robin algorithm. If Alice's first request goes to service A, the following requests go to service A as well.
- 3. Weighted round-robin**  
The admin can specify the weight for each service. The ones with a higher weight handle more requests than others.

4. Hash

This algorithm applies a hash function on the incoming requests' IP or URL. The requests are routed to relevant instances based on the hash function result.

**Dynamic Algorithms**

5. Least connections

A new request is sent to the service instance with the least concurrent connections.

6. Least response time

A new request is sent to the service instance with the fastest response time.