Top 6 Load Balancing Algorithms.  
  
🔹 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.

