Load Balancing

□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□: Round Robin, Least Connections, Least Response Time, Least Bandwidth, Least Packets, IP Hash - These methods distribute traffic based on server availability, response times, or network usage.

□□□□□□□□□ □□□□□□□□□□: The OG of load balancing, it sends requests in a circular fashion, ensuring everyone gets a turn. Think of it as a classroom attendance sheet – fair and simple!

□□□□ □□□□□□□□: This method assigns requests to a specific server based on the client's IP address. It's like having a personalized queue – users connect with the same server each time, building a rapport (and potentially faster response times).

□□□□□□□□□ □□□□□□□□□□□□□□□□□□□: Don't overload the busy servers! This method directs requests to the server with the fewest active connections, spreading the workload evenly. Imagine a buffet line – everyone heads to the shortest queue.

□□□□□□□□□ □□□□□□□□□□□□□□□ □□□□□□□□: Need lightning-fast responses? This method prioritizes the server with the quickest response time, ensuring users don't wait in laggy purgatory. Think of it as a VIP lane for the speediest servers.

□□□□□□□□□ □□□□□□□□□□□□□□□□□: Bandwidth hogging servers? Not on our watch! This method sends traffic to the server with the lowest current usage, optimizing bandwidth allocation. It's like a traffic cop directing cars to the least congested lanes.

□□□□□□□□□□□□ □□□□□□□□□□□□□□□□: Keeps users connected to the same server for their entire session, crucial for transactional websites.

□□□□□□□□□ □□ □□□□□□□□□□□□□□□□□□: Analyzes traffic content (URLs, data types) for smarter routing decisions.

□□□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□: Routes users to the closest server for optimal latency and speed.

□□□□□□ □□□□□□□□ □□□□□□□□□□□□□□□□□□: Directs traffic using the DNS system, often before a connection is even established.

□□□□□□□□□□□□□□□□□ □□□□□□□□□□ □□□□□□□□□□□□□□□□□□: Balances traffic based on protocols (TCP or UDP) for optimized handling.

□□□□-□□□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□: Utilizes AI to analyze real-time traffic and dynamically

adjust routing for peak performance.

□□□□□□ □□□□□□□□□□□□□□□□, □□□□□□□□□□'□□ □□□□ □□□□□□-□□□□□□□□-□□□□□□□□-□□□□□□ □□□□□□□□□□□□□□□□! The best method depends on your specific needs and traffic patterns. Consider factors like:

□□□□□□□□□□□□□ □□□□□□□□□□□□: How much traffic are you expecting?
□□□□□□□□□□□ □□□□□□□□□□□□□□□□□□□□□□□□□□□: What are your servers' performance limitations?
□□□□□□□□□□□□□□□□□□□□□□ □□□□□□□□: Is your application latency-sensitive?

Revision #2
Created 23 April 2024 12:09:59 by sedawk
Updated 1 May 2024 14:21:21 by sedawk