Load Balancing Explained

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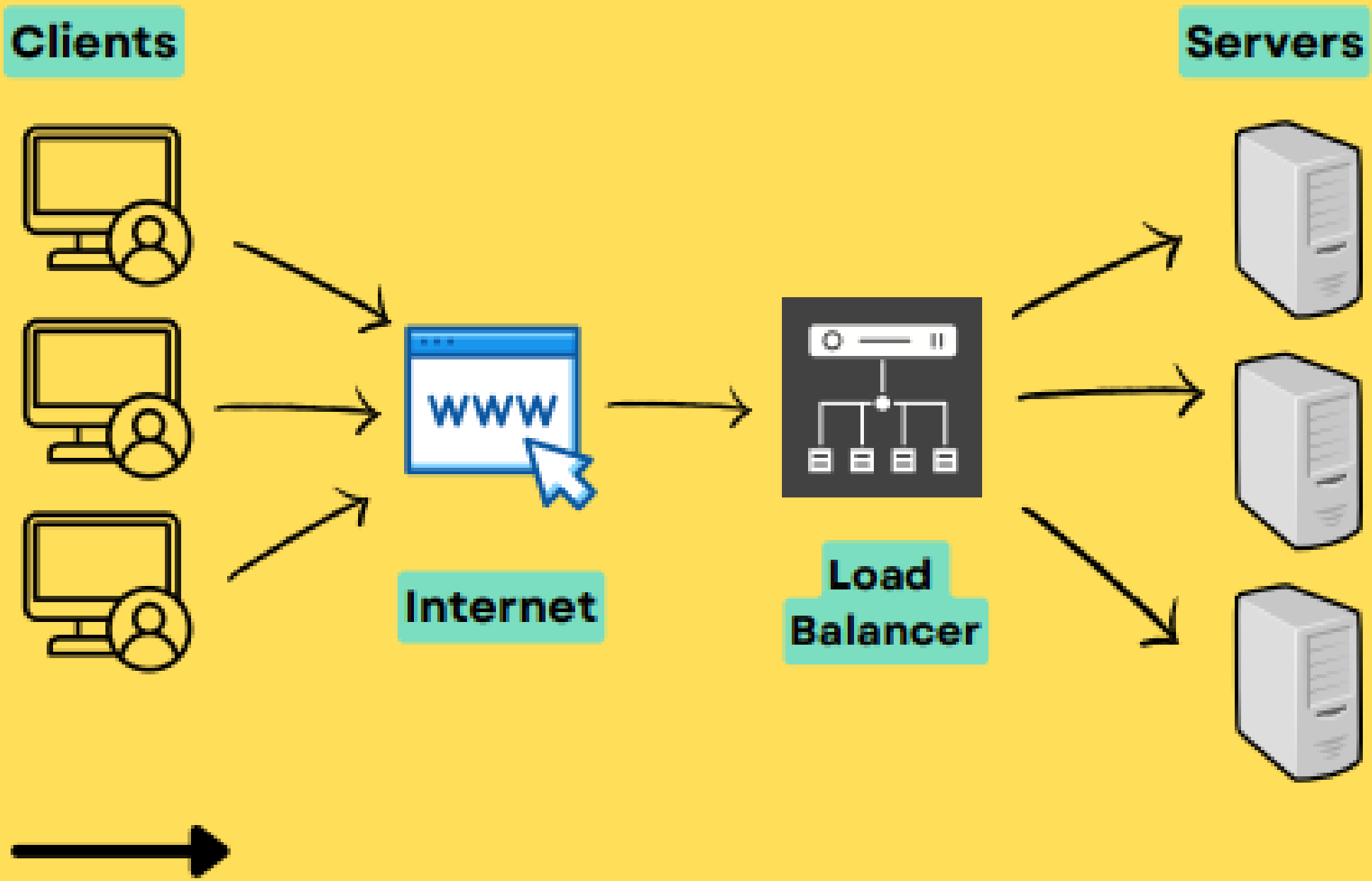
Load balancing is a process used to distribute workloads across multiple computing resources such as computers, servers and networks



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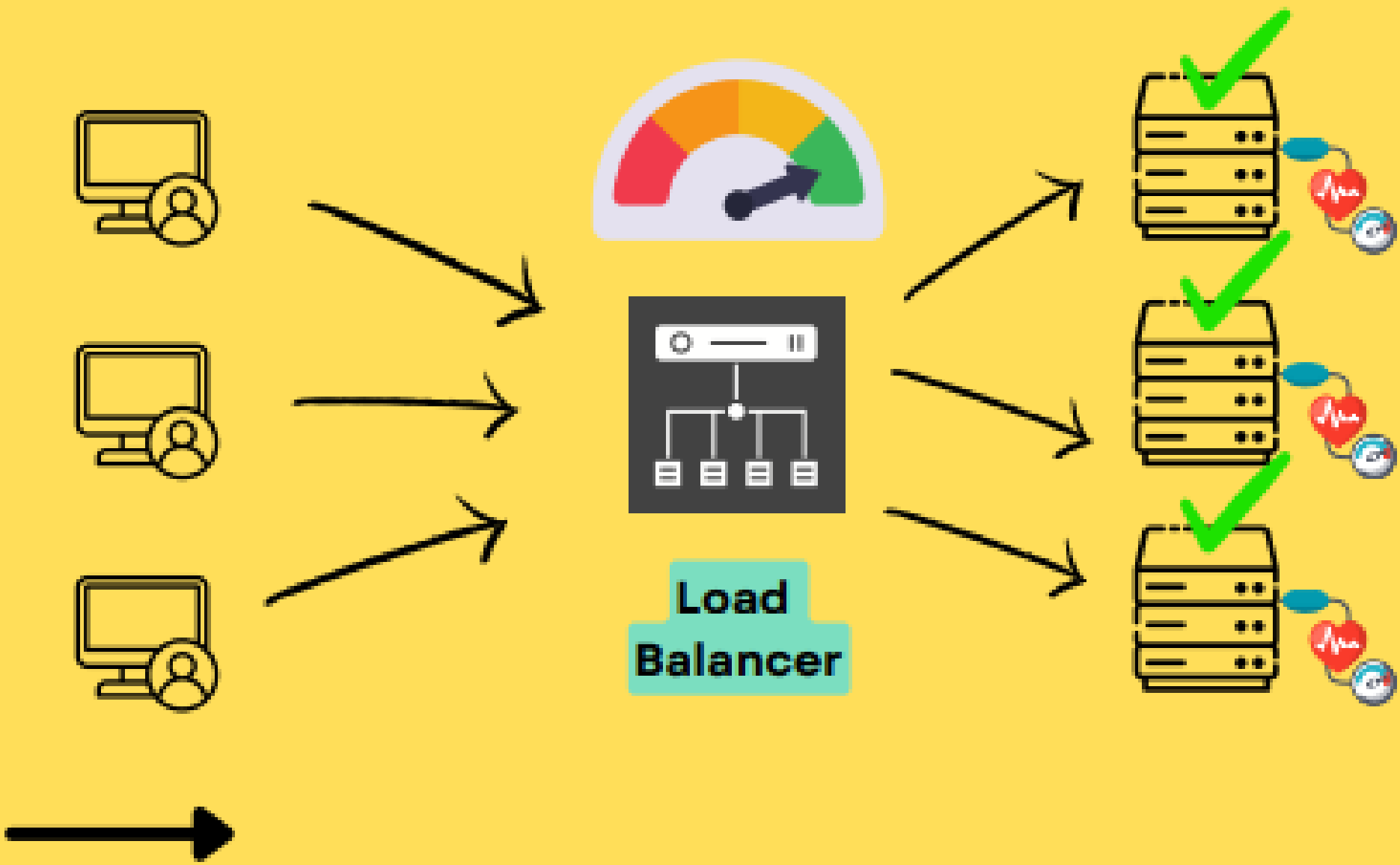
The goal of load balancing

Is to optimize system performance by evenly distributing workloads so that no single resource becomes overloaded and slows down the system



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For example, consider a website that receives a high volume of traffic

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Without load balancing

the web server would become overwhelmed by all the requests and may crash or respond slowly to users

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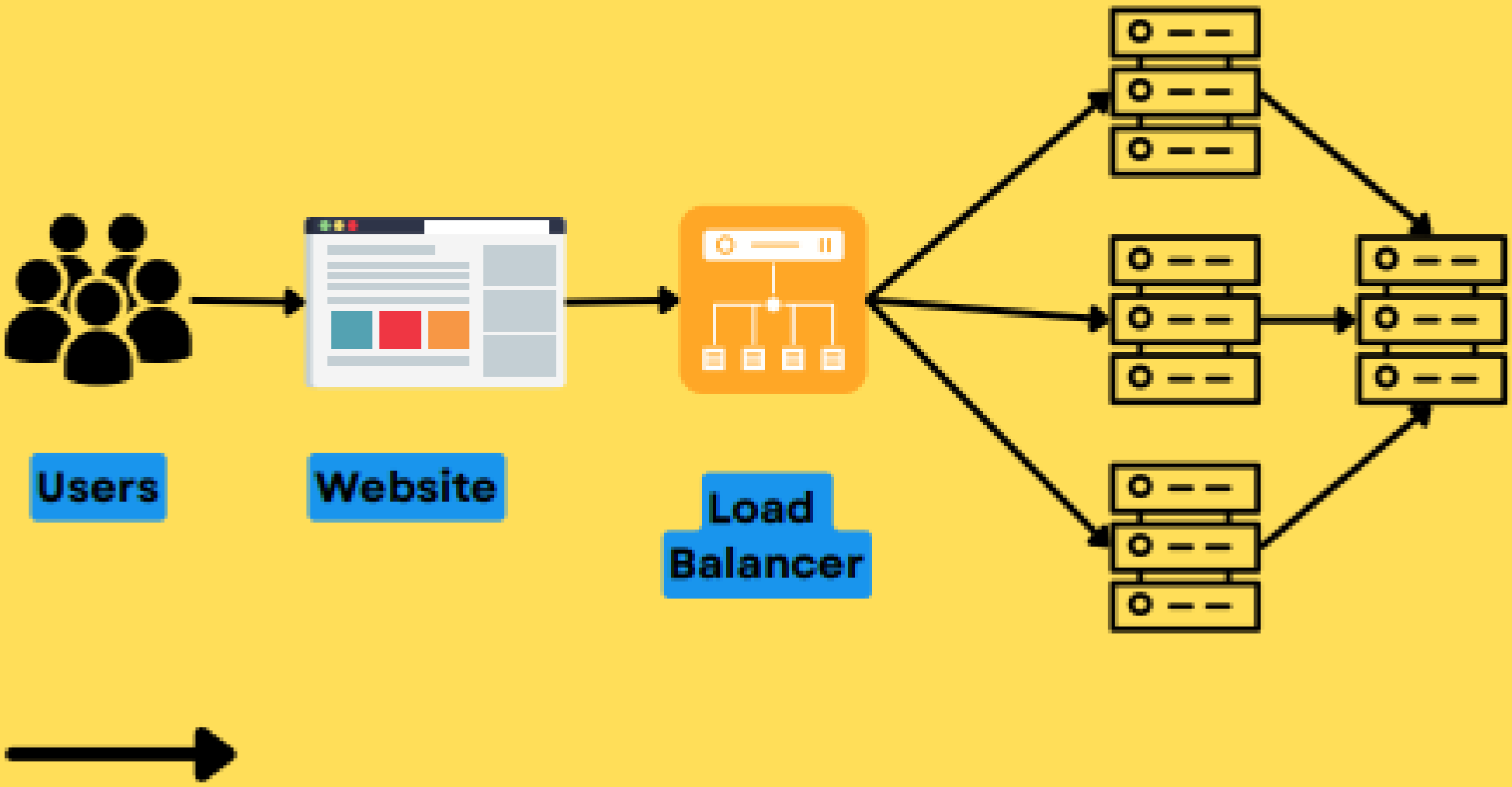
In contrast

If load balancing is used, the web server can be split into multiple smaller servers each handling part of the workload.



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Load balancing can also distribute workloads across different networks or data centers.

For example, a cloud provider might use this technique

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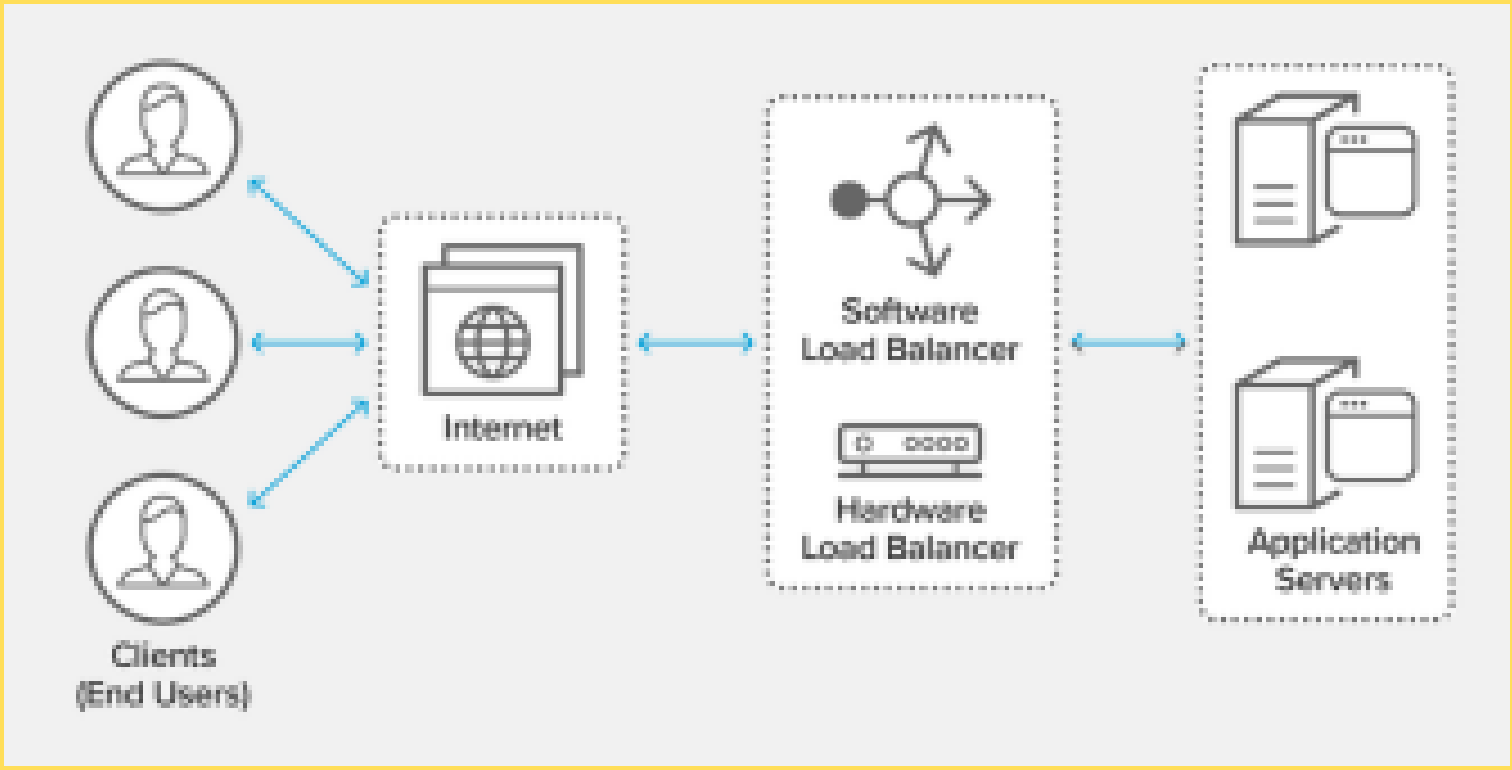
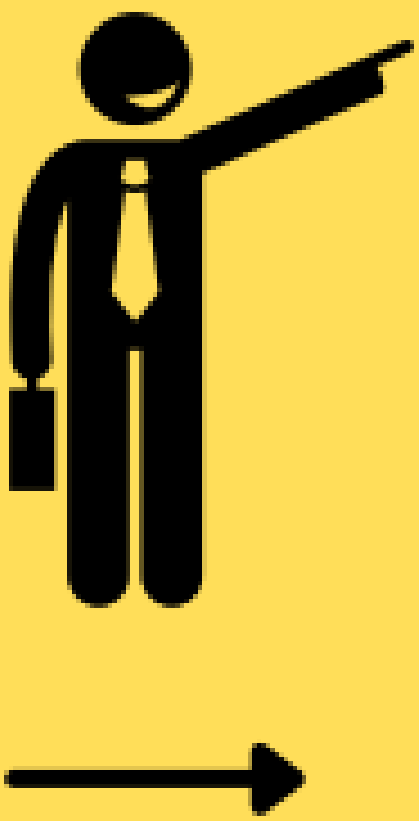
By using load balancing, organizations can improve system performance, reliability, and scalability while reducing the impact of single points of failure





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In conclusion, load balancing is a powerful tool for optimizing system performance by distributing workloads across multiple computing resources.

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