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How to scale your API to handle millions of calls?

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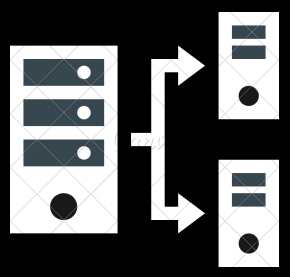

Load balancing

Distributing the incoming requests among multiple servers can help reduce the load on a single server and improve the overall performance of the API.

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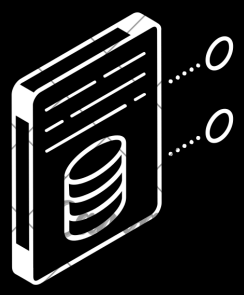

Caching

Caching commonly used data in memory can significantly reduce the load on the API server, as well as reduce response time for clients.

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Content Delivery Network (CDN):

A CDN can help distribute the load of serving large files such as images and videos, freeing up the API server to focus on processing API requests.


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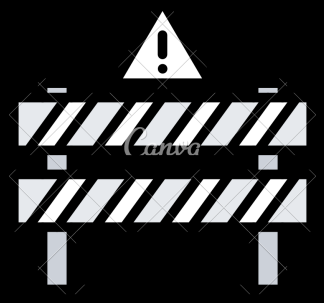

API rate limiting

Limiting the number of requests that a client can make within a specified time frame can help prevent the API from being overwhelmed by too many requests.

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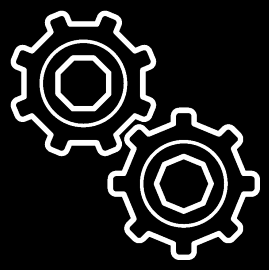

Asynchronous processing

Instead of blocking the API server while it processes a request, asynchronous processing can help process requests in the background, freeing up the API server to handle new requests.

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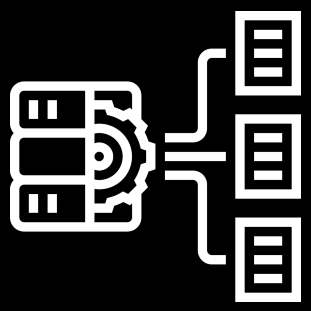

Database sharding

Distributing the database load across multiple servers can improve the performance and scalability of the API.

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Monitoring & log analysis

Regular monitoring and analysis of API performance and logs can help identify bottlenecks and issues, enabling proactive measures to be taken to improve the API's performance and scalability.

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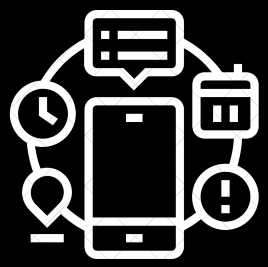

Automated scaling

Automatically scaling the number of API servers based on demand can help ensure that the API is always able to handle the volume of requests it receives, without overloading the system.

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Keep in mind that the specific approach that works best for you will depend on the specific requirements and constraints of your API.

A combination of multiple approaches may be necessary to achieve the desired level of performance and scalability.

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