

Top caching strategies



ALEX XU

MAR 4, 2022



49



6



Share



What are the top caching strategies?

Read data from the system:

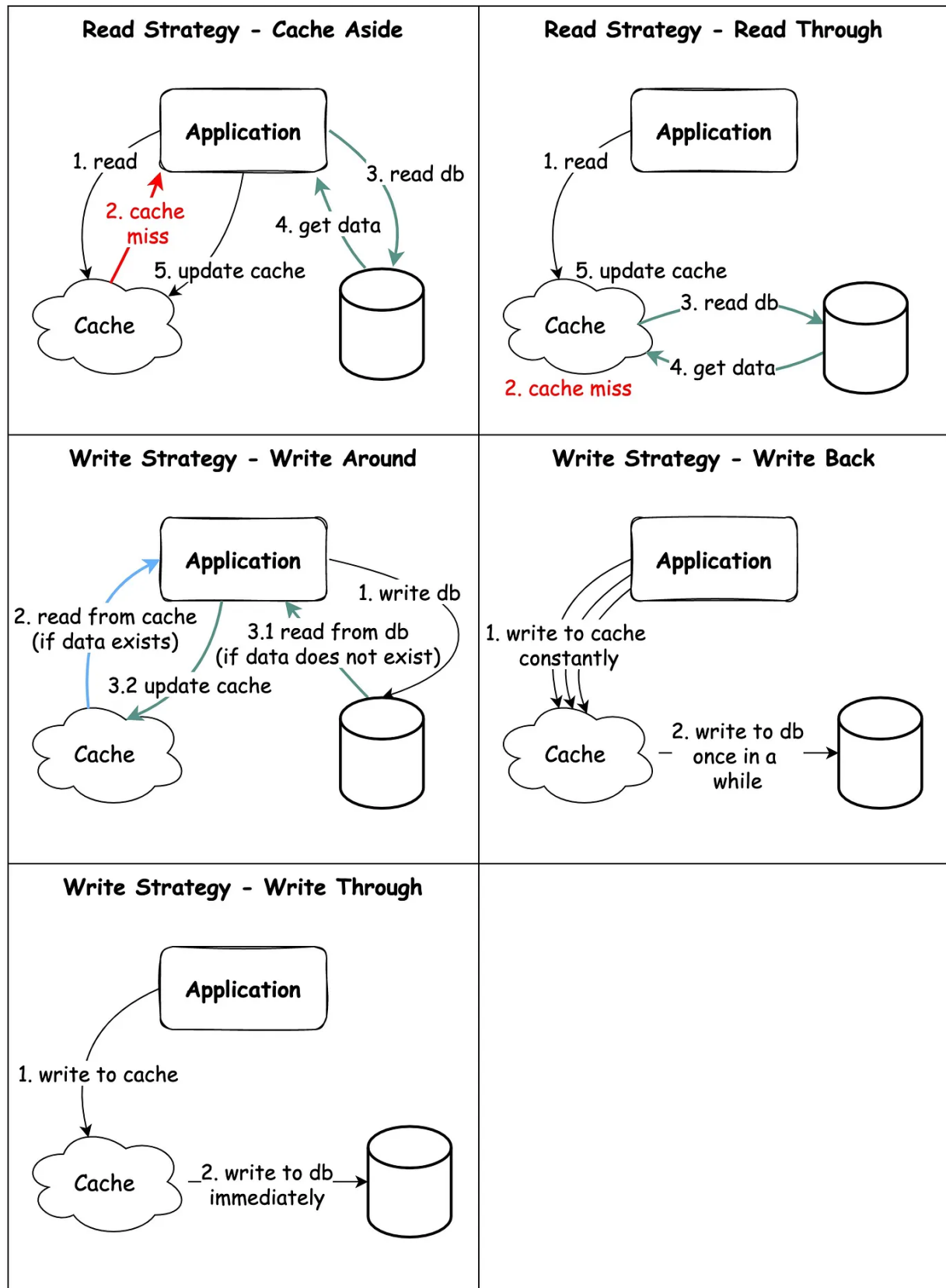
- ◆ Cache aside
- ◆ Read through

Write data to the system:

- ◆ Write around
- ◆ Write back
- ◆ Write through

The diagram below illustrates how those 5 strategies work. Some of the caching strategies can be used together.

Top caching strategies



I left out a lot of details as that will make the post very long. Feel free to leave a comment so we can learn from each other.

If you enjoyed this post, you might like our system design interview books as well.

SDI-vol1: <https://amzn.to/3tK0qQn>

SDI-vol2: <https://amzn.to/37ZisW9>



49 Likes

6 Comments



Write a comment...



Nic Jun 28

I think the diagram is just missing the pros and cons of each strategy.

♡ LIKE (1) 💬 REPLY ↗ SHARE

...



Akshay Baura Jul 1, 2022

****Write-through****: data is written in cache & DB; I/O completion is confirmed only when data is written in both places

****Write-around****: data is written in DB only; I/O completion is confirmed when data is written in DB

****Write-back****: data is written in cache first; I/O completion is confirmed when data is written in cache; data is written to DB asynchronously (background job) and does not block the request from being processed

♡ LIKE (1) 💬 REPLY ↗ SHARE

...

4 more comments...

© 2023 ByteByteGo · [Privacy](#) · [Terms](#) · [Collection notice](#)
[Substack](#) is the home for great writing