









High-level Design of a Distributed Cache

Learn how we can develop a high-level design of a distributed cache.



- Requirements
 - Functional
 - Non-functional requirements
- API design
 - Insertion
 - Retrieval
- Design considerations
 - Storage hardware
 - Data structures
 - Cache client
 - Writing policy
 - Eviction policy
- High-level design

In this lesson, we'll learn to design a distributed cache. We'll also discuss the trade-offs and design choices that can occur while we progress in our journey towards developing a solution.

Requirements

Let us start by understanding the requirements of our solution.

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Functional



The following are the functional requirements:

• Retrieve data: The user should be able to retrieve data corresponding to a specific key.