

Instructions

For the main question, be ready to:

- Describe the architecture of your solution and its operations.
- Define all its components and their interactions.
- Motivate your design decisions.
- Make diagrams whenever necessary.
- **State clearly your choices and assumptions.**

Question 1

You are tasked with the design of a key-value store that is accessible to a set of clients. The storage should be persistent against at least a single failure.

Question 2

- Can we reach consensus in an asynchronous system?
- Can you come up with a simple scenario where Paxos does not terminate?