

Exercise 1

1.1 The trouble with distributed systems

Read the first parts of Chapter 8 in DDIA [Kle17], specifically pp. 273–291. The motto is:

This chapter is a thoroughly pessimistic and depressing overview of things that may go wrong in a distributed system.

1.2 Describing dependable systems (5pt)

Using the terminology of dependable systems, describe a scenario with three systems as follows:

- System A is part of System B and that is part of System C;
- A fault in System A causes System C to fail.

Use ideas taken from Chapter 8 of DDIA, according to question 1.1. Describe the respective faults, errors, and failures.

References

[Kle17] M. Kleppmann, *Designing data-intensive applications*, O'Reilly, 2017.