A study of Byzantine fault-tolerant algorithms

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Fault Tolerance

"A distributed system is one in which the failure of a computer you didn't even know existed can render your own computer unusable."
Leslie Lamport

Failure models

- Crash failures
- Omission failures
- Timing failures
- Response failures
- Byzantine (arbitrary) failures

Algorithms

1. Practical Byzantine Fault Tolerance
2. Query/Update (Q/U)
3. BFT2F
4. Zyzzyva
5. CheapBFT

Algorithms - Step by step

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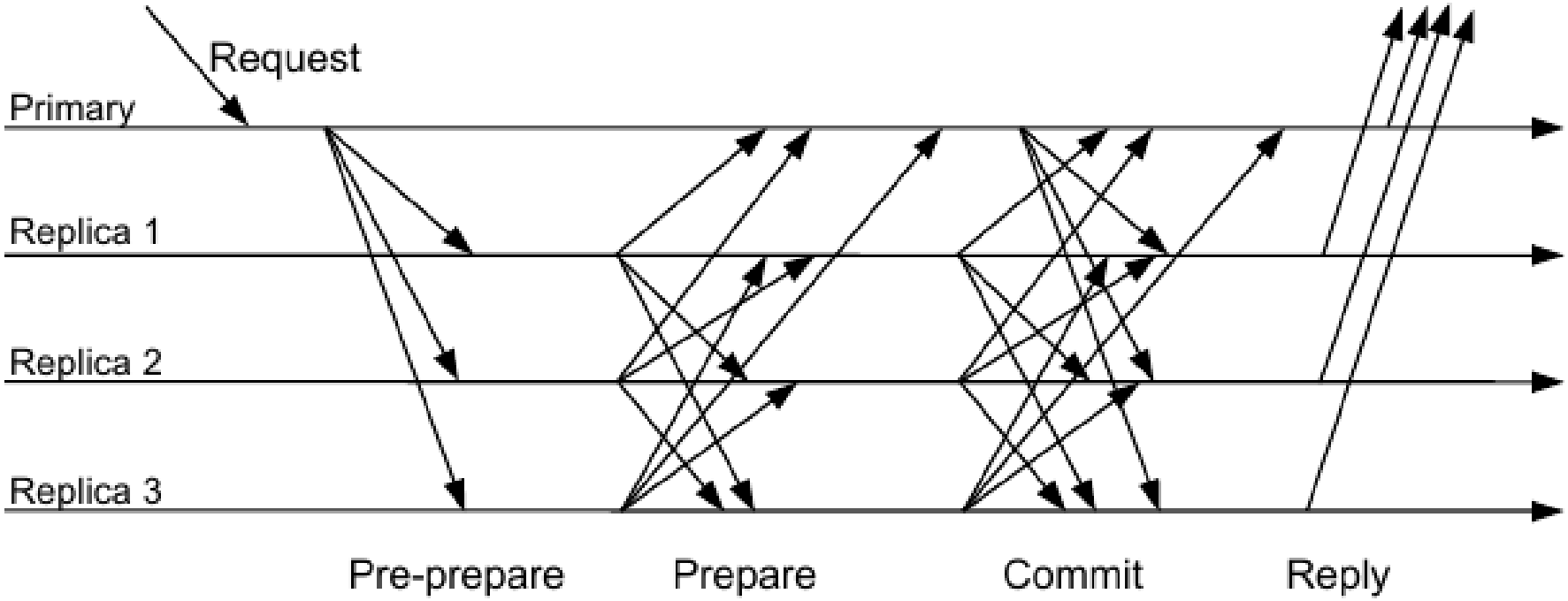
Practical Byzantine Fault Tolerance



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Example

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Questions?