

Scaling Raft For Varying Cluster Sizes

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Abstract

Placeholder for the abstract

1 Introduction

The Raft consensus algorithm originated to simplify the preexisting Paxos algorithm, while solving the same core problem [4] with the same efficiency. For years, Paxos had dominated distributed consensus. At its core it defined a way in which a system could come to agreement on a given state [1]. Though, Paxos can be incredibly hard to comprehend. Many papers have been published in an attempt to offer a clearer explanation as to how Paxos functions [2, 3], but it continues to be a difficult system to implement at a practical level.

- [3] MAZIERES, D. Paxos made practical. *Unpublished manuscript*, Jan (2007).
- [4] ONGARO, D., AND OUSTERHOUT, J. In search of an understandable consensus algorithm. In *Proceedings of the 2014 USENIX Conference on USENIX Annual Technical Conference* (Berkeley, CA, USA, 2014), USENIX ATC’14, USENIX Association, pp. 305–320.

References

- [1] LAMPORT, L. The part-time parliament. *ACM Trans. Comput. Syst.* 16, 2 (May 1998), 133–169.
- [2] LAMPORT, L. Paxos made simple. *ACM SIGACT News (Distributed Computing Col-*