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# A Comprehensive Study of “etcd”—An Open-Source Distributed Key-Value Store with Relevant Distributed Databases

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**Abstract**

Distributed systems overcome various limitations of a centralized system and offer several advantages like high performance, increased availability, and extensibility at a low cost. Their rise is unprecedented, and it is only going to increase hereon. But for a distributed system to be effective, it needs a consistent data store, which would store all its necessary metadata and also serve as a single source of truth for the entire system. These data changes need to be stored and to be communicated quickly in a consistent manner across all the nodes in the cluster. It should have fault tolerant capability and should be able to handle failures without any manual intervention. One such open-source data store is etcd. In this paper, we presented a comprehensive analysis of etcd along with its

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