



Additional Resources

Here are some useful links for further reading (*we have discussed most of these systems in Grokking the Advanced System Design Interview* (<https://www.educative.io/courses/grokking-adv-system-design-intvw?aff=VOY6>)):

1. Dynamo

(https://www.allthingsdistributed.com/2007/10/amazons_dynamo.html) - Highly Available Key-value Store

2. Kafka (<http://notes.stephenholiday.com/Kafka.pdf>) - A Distributed Messaging System for Log Processing

3. Consistent Hashing

(<https://www.akamai.com/es/es/multimedia/documents/technical-publication/consistent-hashing-and-random-trees-distributed-caching-protocols-for-relieving-hot-spots-on-the-world-wide-web-technical-publication.pdf>) - Original paper

4. Paxos (<https://www.microsoft.com/en-us/research/uploads/prod/2016/12/paxos-simple-Copy.pdf>) - Protocol for distributed consensus

5. Bigtable (<https://research.google/pubs/pub27898/>) - A Distributed Storage System for Structured Data

6. Gossip protocol (<http://highscalability.com/blog/2011/11/14/using-gossip-protocols-for-failure-detection-monitoring-mess.html>) - For failure detection and more.

7. Chubby

(<http://static.googleusercontent.com/media/research.google.com/en/us/archive/chubby-osdi06.pdf>) - Lock service for loosely-coupled distributed systems

8. ZooKeeper

(https://www.usenix.org/legacy/event/usenix10/tech/full_papers/Hunt.pdf) - Wait-free coordination for Internet-scale systems

9. MapReduce

(<https://static.googleusercontent.com/media/research.google.com/en/archive/mapreduce-osdi04.pdf>) - Simplified Data Processing on Large Clusters

10. Hadoop

(<http://storageconference.us/2010/Papers/MSST/Shvachko.pdf>) - A Distributed File System

Interviewing soon? We've partnered with Hired so that companies apply to [utm_source=educative&utm_medium=lesson&utm_location=US&utm_can](https://www.educative.io/courses/grokking-the-system-design-interview/JYILJB6DK7g)




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