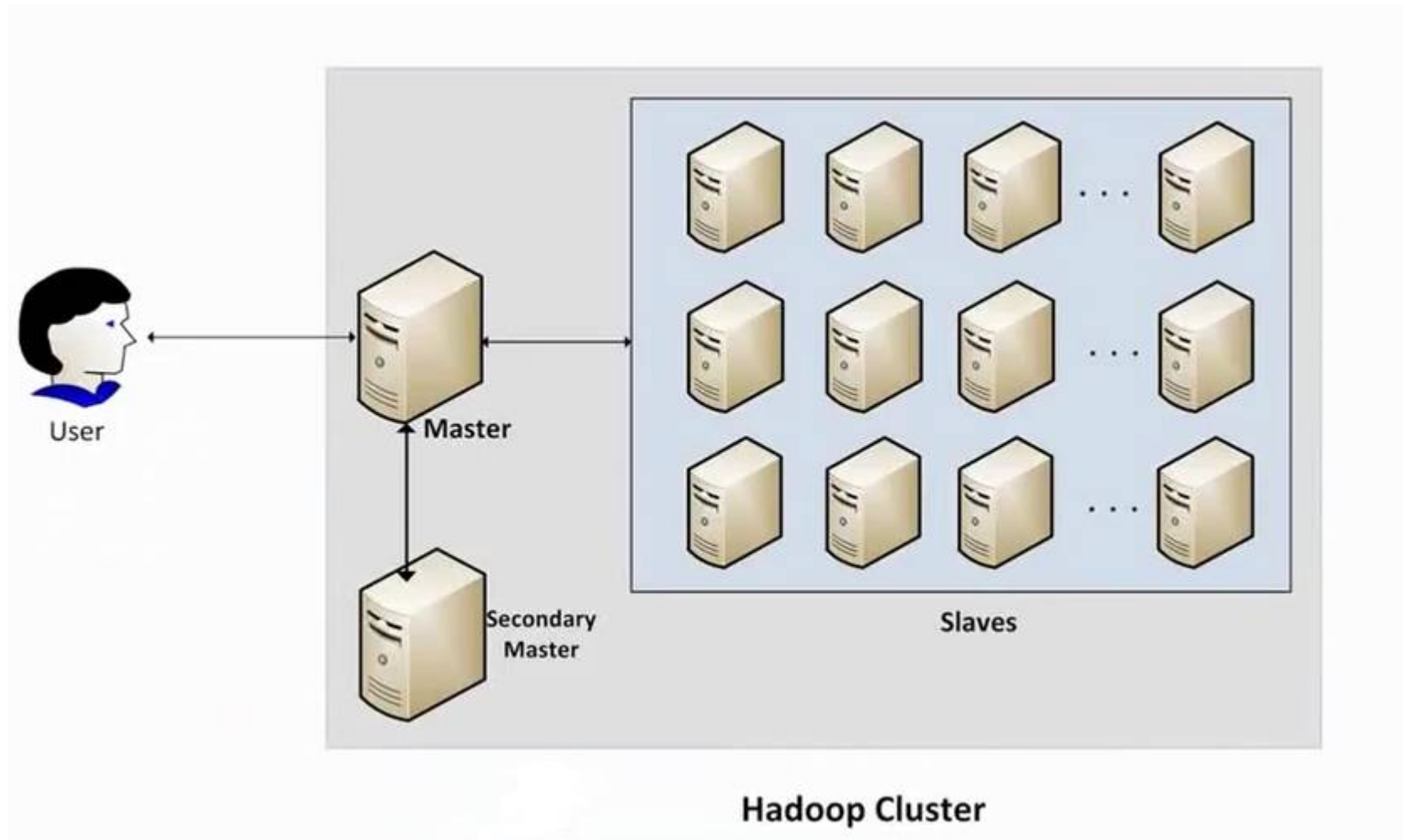


# Hadoop Basic Architecture

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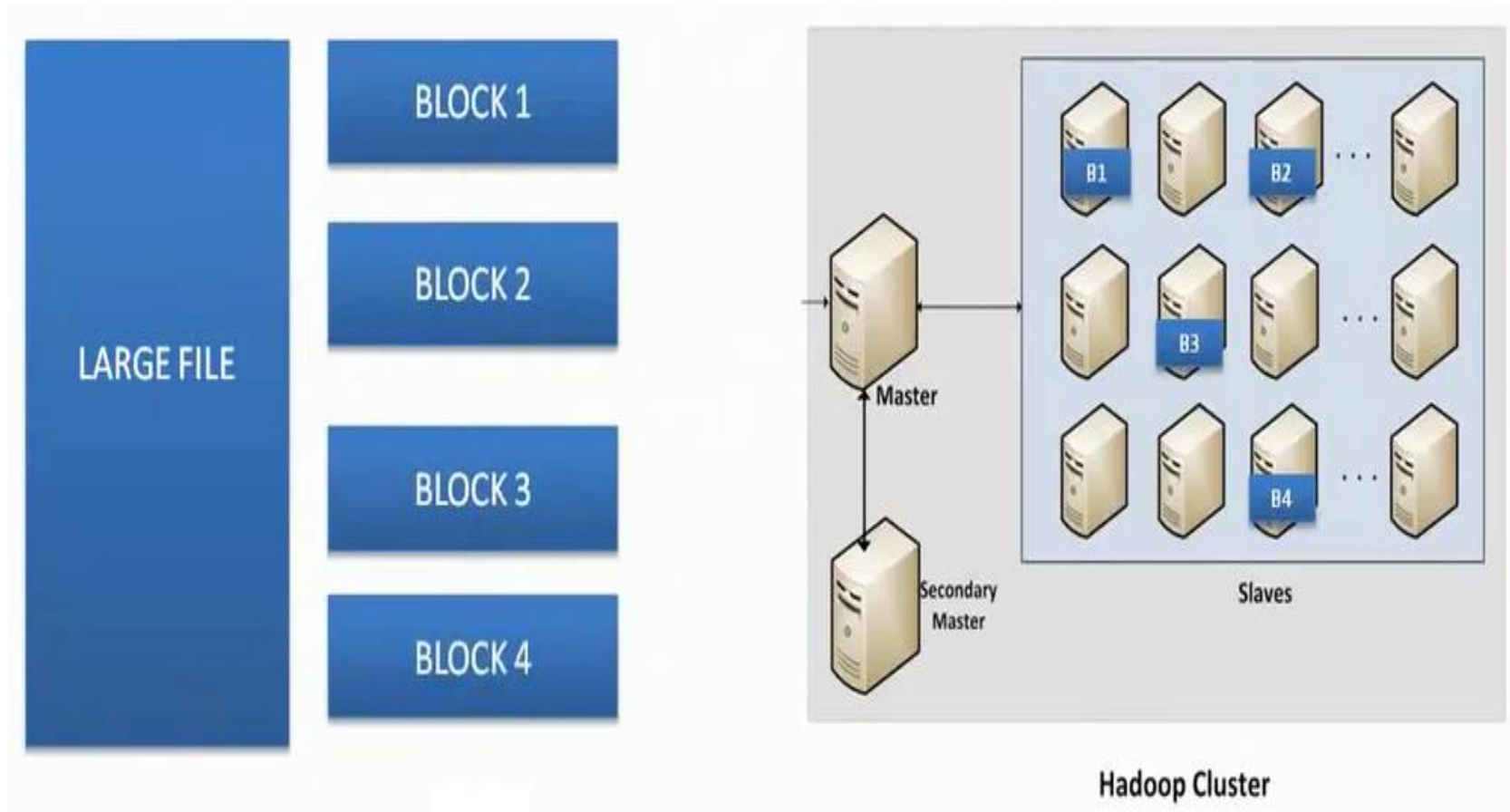
## HDFS Characteristics

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- ✓ HDFS is a highly fault tolerant, distributed, reliable, scalable file system for data storage.
- ✓ HDFS stores multiple copies of data on different nodes; a file is split up into blocks (default 64 MB) and stored across multiple machines (by default 3 machines)
- ✓ Hadoop cluster typically has a single namenode and number of datanodes to form the HDFS cluster

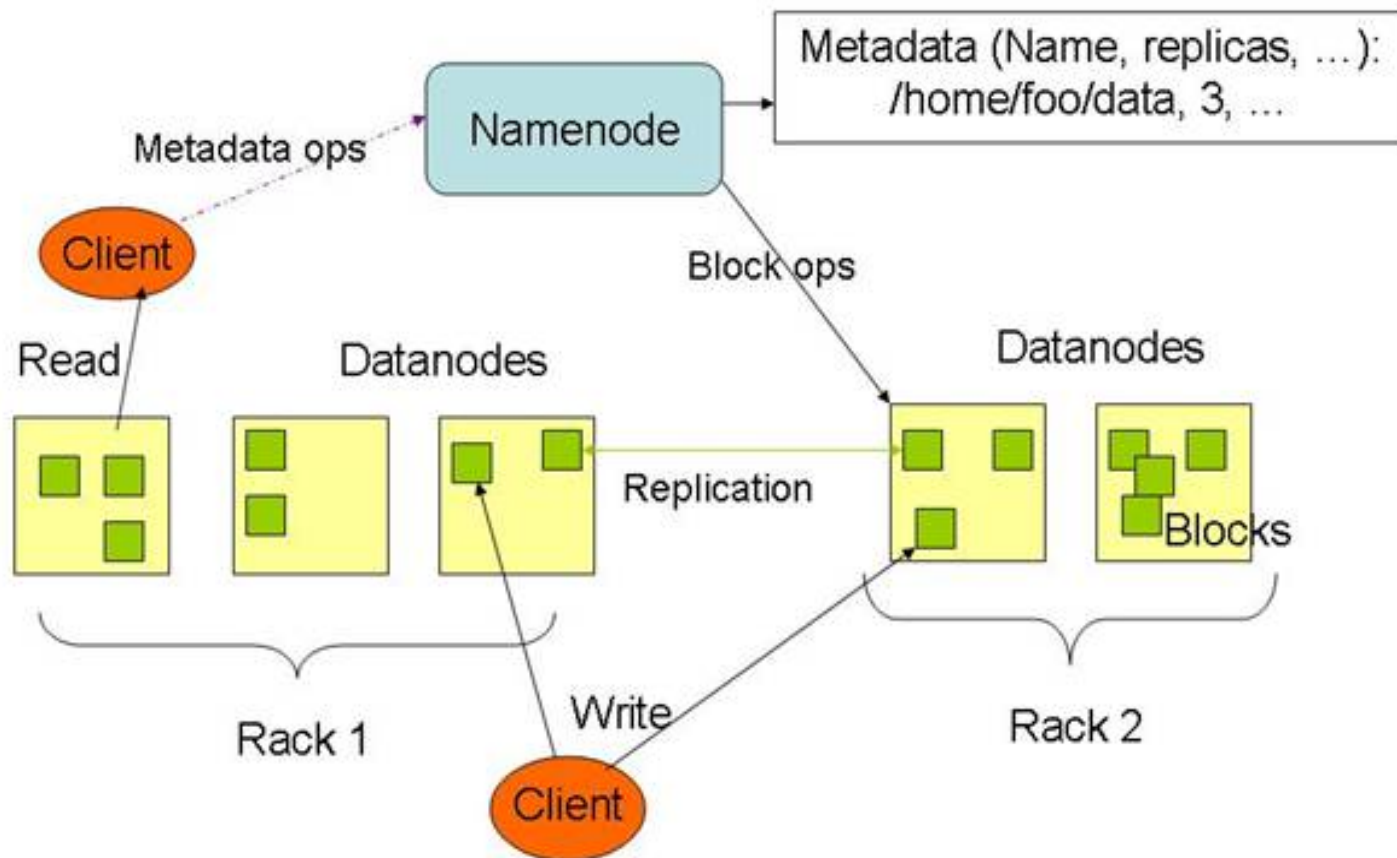
# HDFS architecture

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# HDFS Architecture

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# Map Reduce

- ✓ Map-Reduce is a programming model designed for processing large volumes of data in parallel by dividing the work into a set of independent tasks
- ✓ Map-Reduce is a paradigm for distributed processing of large data set over a cluster

