What is a Distributed File System?:

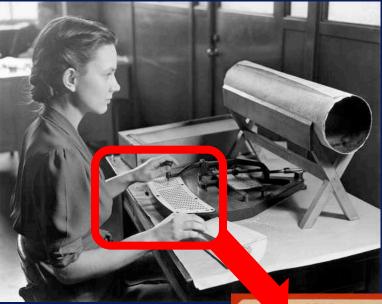
Why are there so many?

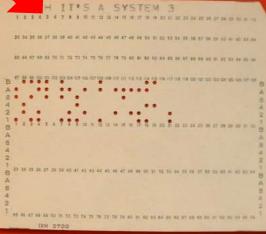
After this video you will be able to...

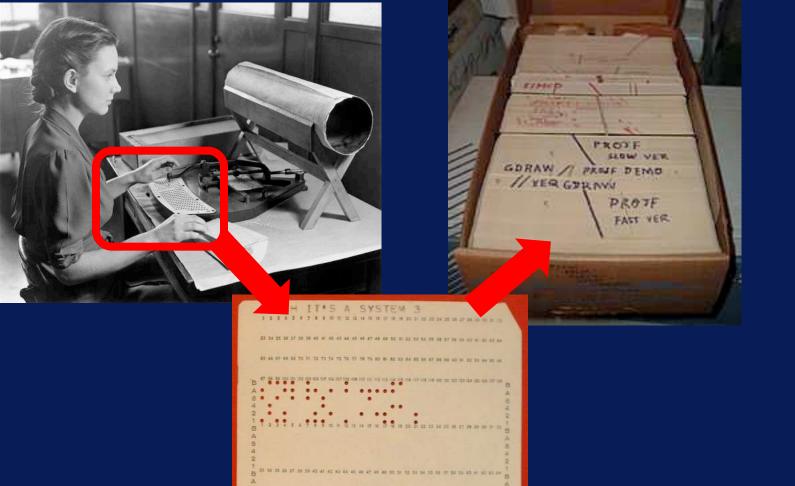
- Describe what a file system is
- Explain the reasons to have distributed file systems and how it helps big data analysis
- Visualize the organization of data in physical compute and storage nodes for big data architectures











45 ER 47 ER 48 TO 70 70 70 70 70 70 70 70 70 80 B 40 ES 40 ES 40 ES 40 ES 60 ES 60 ES 60 ES 60 ES 60 ES

Access result of a process later

Access result of a process later

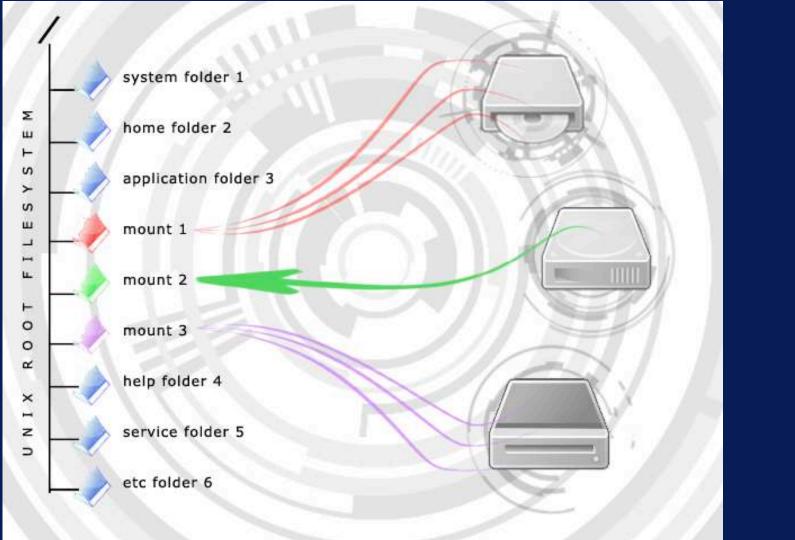
Store large amounts of information

Access result of a process later

Store large amounts of information

Enable access of multiple processes





Accessing files











What if you have more data?



Buy a bigger disk?

OR



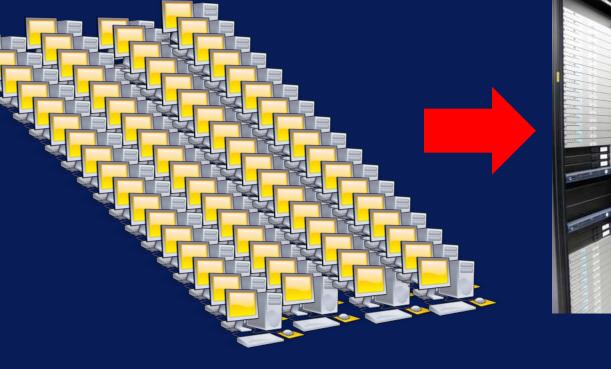
Copy data to an external hard drive?



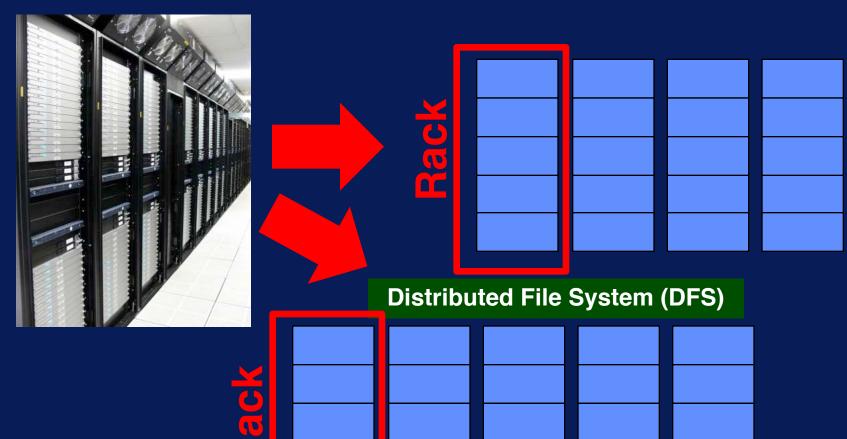


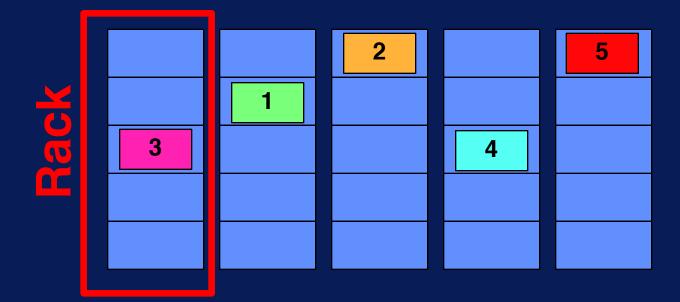
WORK

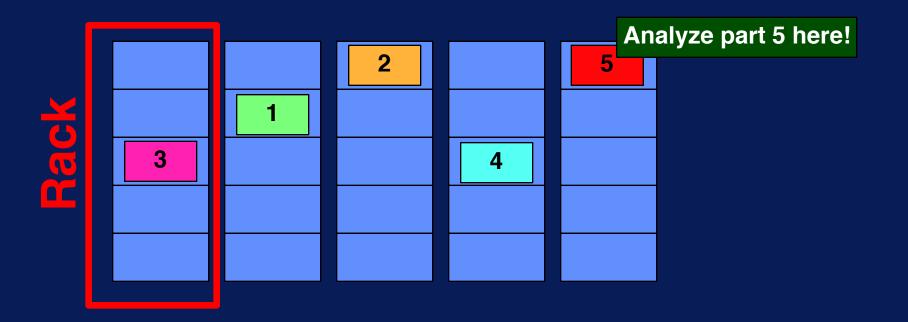
PERSONAL

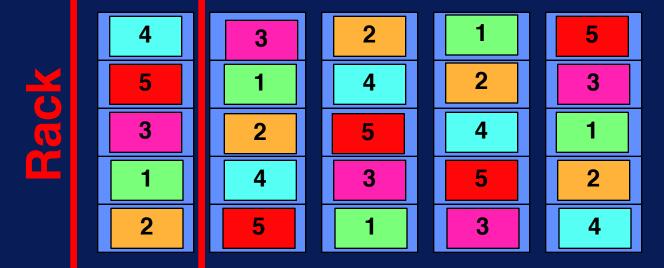


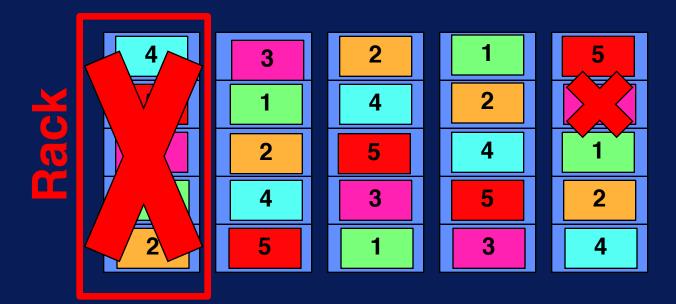






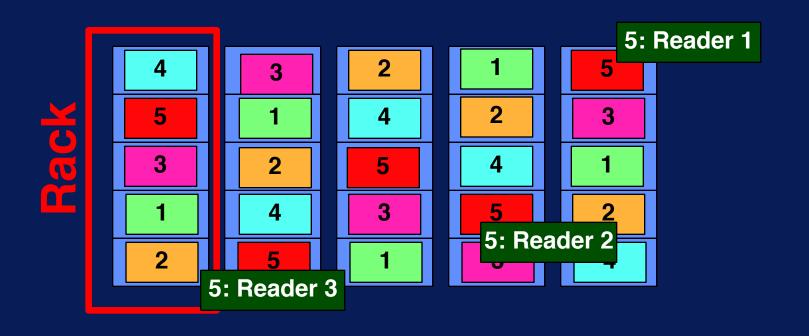


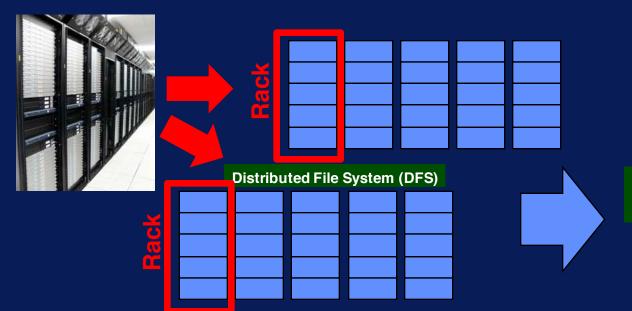






High Concurrency vs. Low Consistency





Data partitioning

Data replication



Data scalability

Fault tolerance

High concurrency