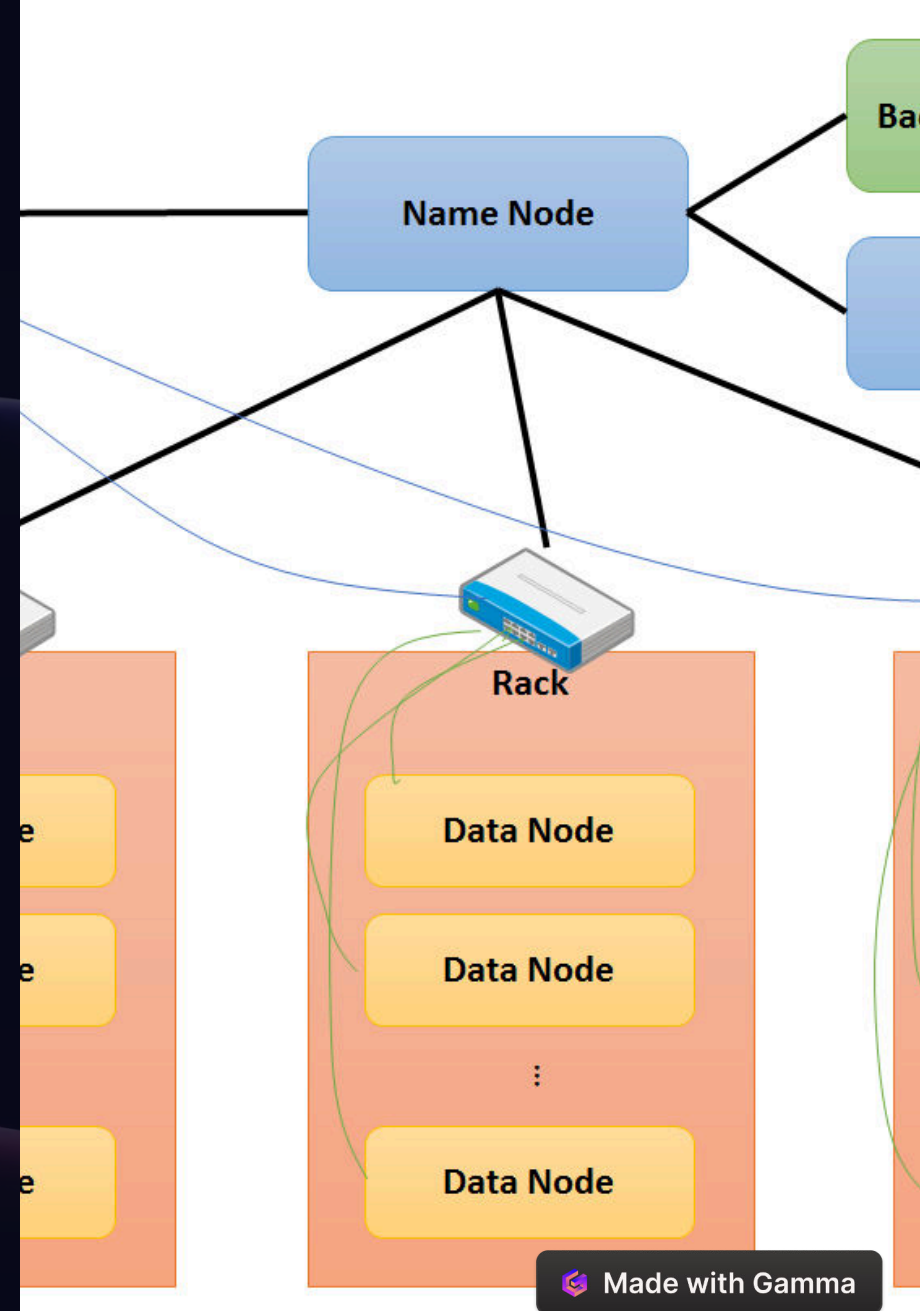


HDFS: A Comprehensive Guide

Learn how to manage directories, move files, view contents, and transfer data between HDFS and local systems.

 by pardha preetham



Creating Directory in HDFS

1

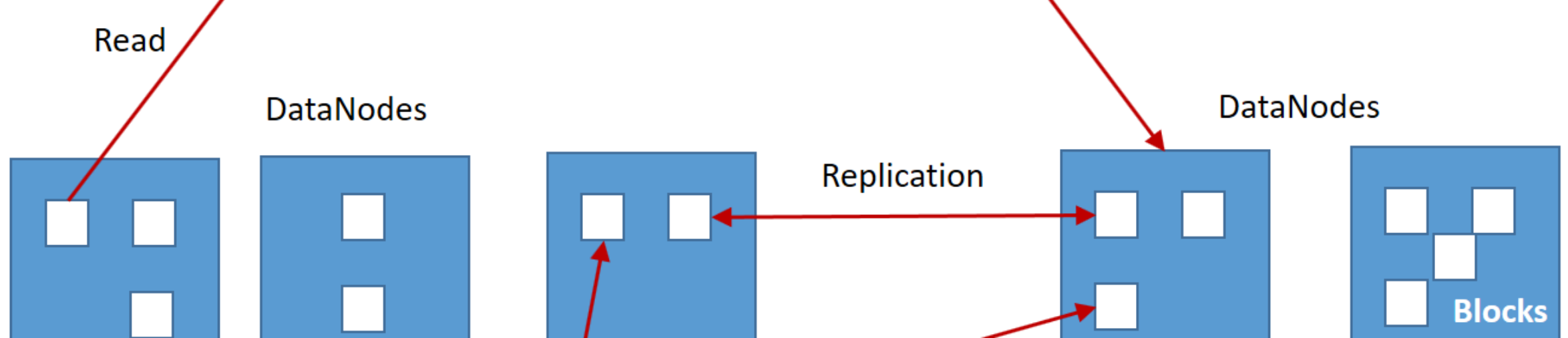
Step 1

Use the command `hdfs dfs -mkdir -p /path/to/directory` to create a directory structure in HDFS.

2

Step 2

Replace `/path/to/directory` with the desired directory path.



Moving Files to HDFS

1

Step 1

Move a file from a local Unix/Linux machine to HDFS using `hdfs dfs -put` command.

2

Step 2

Replace `/path/to/local/file` with the local file path and `/path/in/hdfs` with the destination directory in HDFS.

Viewing Data Contents in HDFS

See File Contents

Use `hdfs dfs -cat /path/to/hdfs/file` to view the contents of a file in HDFS.

View Directory Contents

Check the contents of files in HDFS using `hdfs dfs -ls /path/to/directory`.

Retrieving Data from HDFS

1 Fetch Files to Local Disk

Retrieve data from HDFS to the local disk with `hdfs dfs -get` command.

Managing Data in HDFS

1

Transfer Data

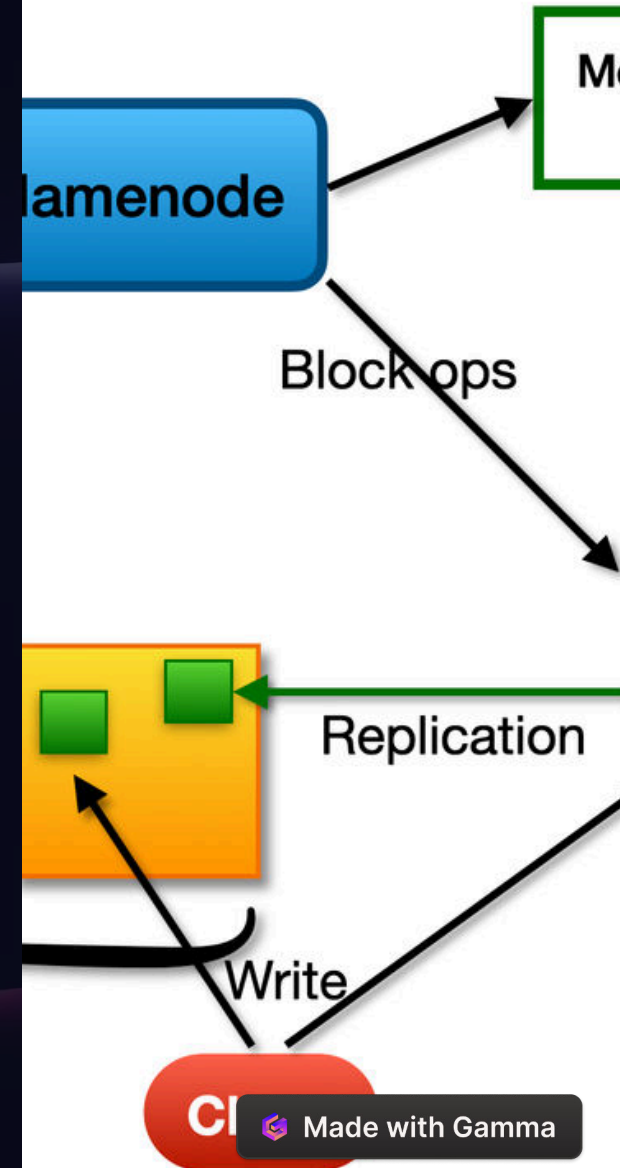
Move files from local systems to HDFS and vice versa.

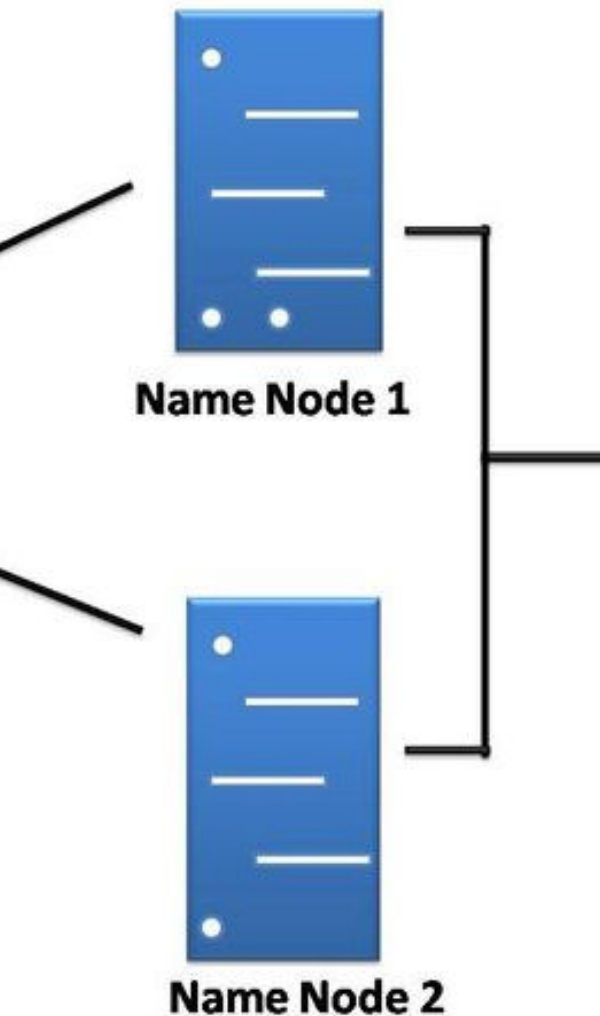
2

Retrieve and view data contents.

Retrieve & Review

HDFS Architecture





Best Practices for HDFS

Create Clear Directory Paths

Organize directories logically to facilitate ease of access and management.

Use Descriptive File Names

Employ meaningful file names for easy identification and retrieval.

Hadoop

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HDFS Security Measures

1

Access Control

Implement proper access controls to safeguard data in HDFS.

2

Data Encryption

Employ encryption methods to protect sensitive information stored in HDFS.