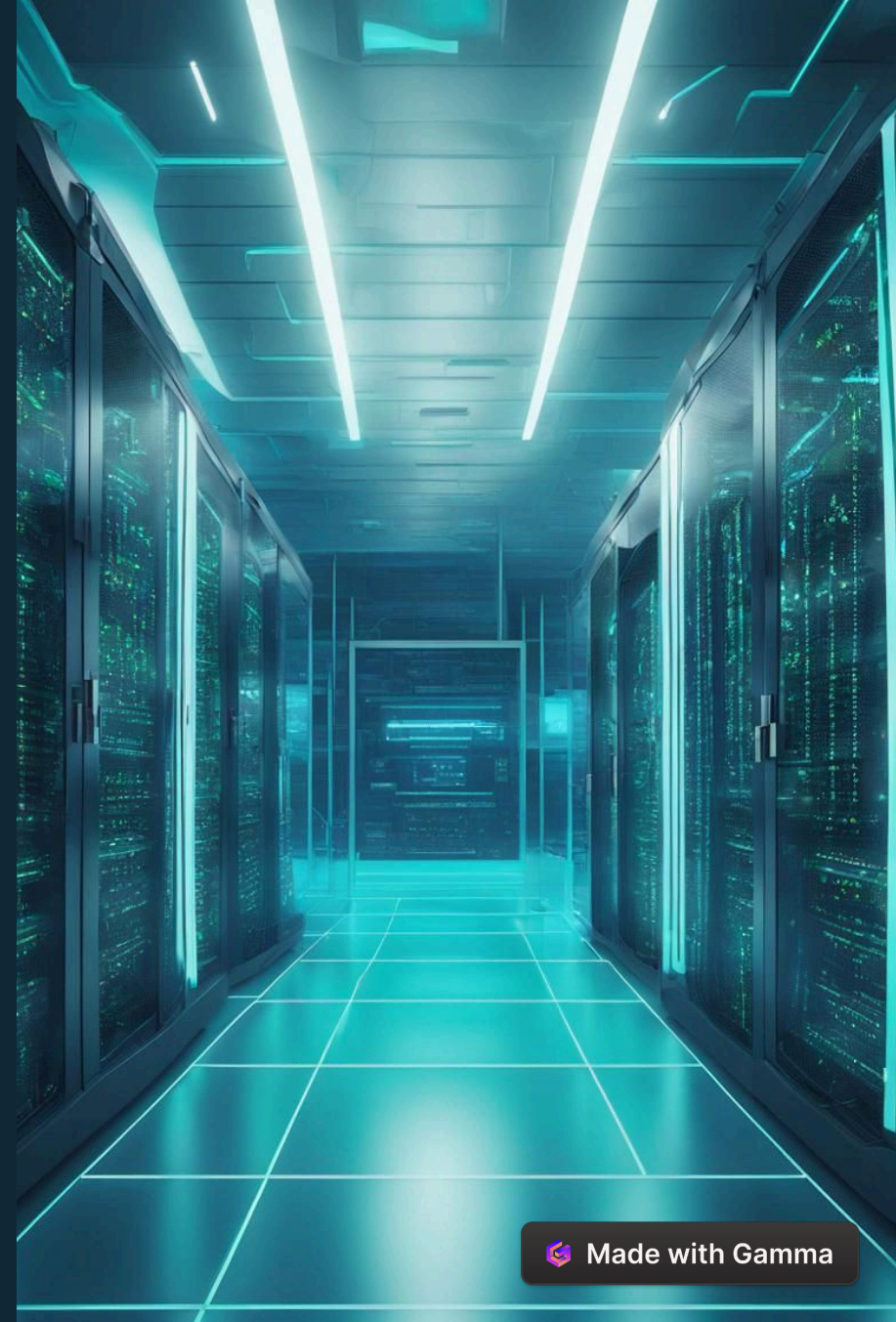


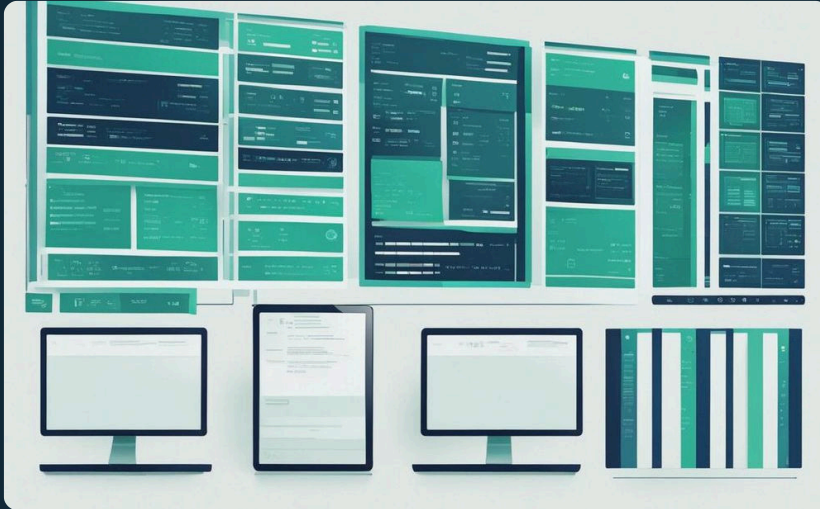
Hadoop Storage File System

Learn how to manage files in HDFS and execute commands for data operations.

CA by Chandana V



Creating Directory Structure in HDFS



Command for Directory Creation

Use the command : `hdfs dfs -mkdir -p /path/to/directory`

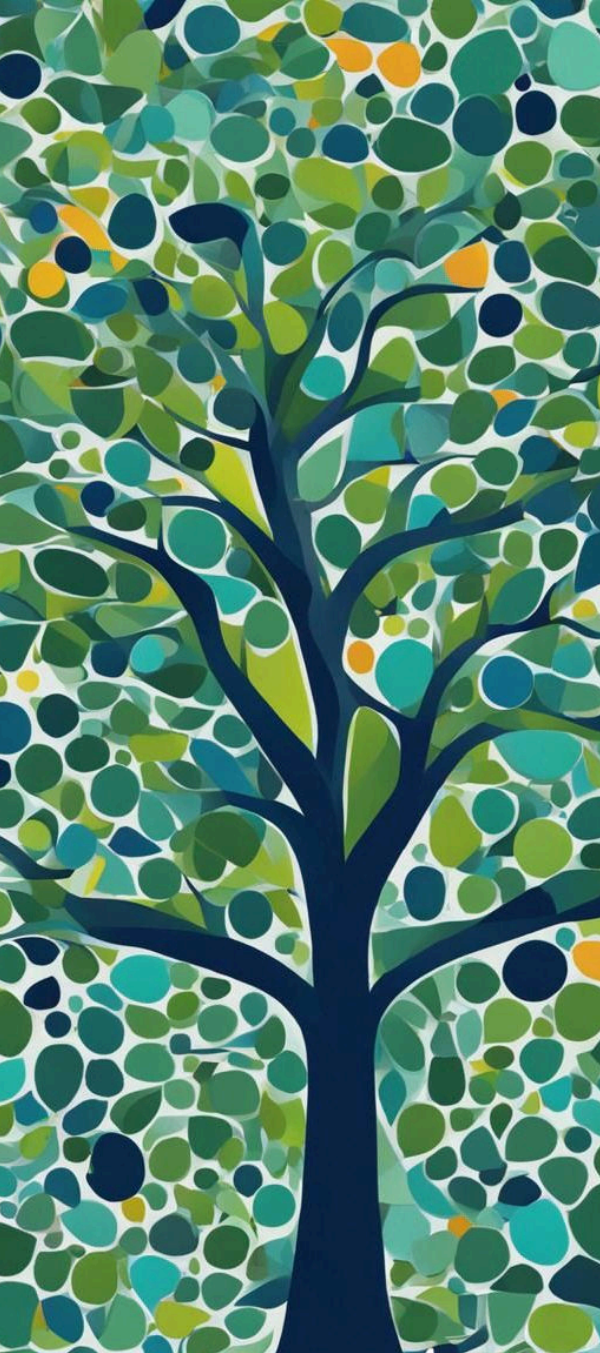
to create a directory structure in HDFS.



File Transfer to HDFS

Execute : `hdfs dfs -put /path/to/local/file /path/to/hdfs/directory`

to move a file to HDFS.



Viewing Data Contents and Directory Information



Check File Content

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



List Directory Contents

Discover file listings in HDFS by running :
`hdfs dfs -ls /path/to/hdfs/directory.`



Getting File Data from HDFS to Local Disk



Retrieve File from HDFS

Use the command : `hdfs dfs -get /path/to/hdfs/file /path/to/local/directory`

for file retrieval.

Effective HDFS Data Management

1 Secure Data Storage

Utilize HDFS for reliable and secure data storage and retrieval operations.

2 Efficient Data Handling

Ensure efficient data management with HDFS for large-scale distributed storage.

3 Data Integrity

Guarantee data integrity and fault tolerance with HDFS for data resilience and availability.

Hadoop HDFS: Key Advantages



Robust Security

Benefit from advanced security features to safeguard HDFS data.



Scalable Storage

Scale storage infrastructure seamlessly and efficiently with HDFS.



Operational Efficiency

Optimize data operations and workflows with HDFS for high efficiency.

HDFS Configuration Best Practices

1

Optimal Configuration

Follow best practices for configuring HDFS to ensure optimal performance.

2

Replication Settings

Customize replication settings in HDFS for data reliability and redundancy.

3

Resource Allocation

Allocate resources effectively to maintain HDFS data storage and processing.