

Name	Host	Zone	Region	Status
name-1-node__d80f7965-cda1-4ae7-9556-a3d...	name-1-node	172.17.0.8	N/A	Running
name-1-zkfc__37b4741b-5bbb-451b-98b7-f36...	name-1-zkfc	172.17.0.8	N/A	Running
data-0-node__77d39a87-a09f-4880-ab9e-b5d3...	data-0-node	172.17.0.8	N/A	Running
data-2-node__6fb639f7-e07b-4b86-87e9-01c6...	data-2-node	172.17.0.3	N/A	Running
data-1-node__7892e564-6359-48cd-89de-f068...	data-1-node	172.17.0.7	N/A	Running
name-0-node__8cd6f2d3-2b82-446c-a6ea-83f...	name-0-node	172.17.0.7	N/A	Running
name-0-zkfc__5ef1f3dc-c000-42bf-bd03-85b2...	name-0-zkfc	172.17.0.7	N/A	Running
hdfs__e9a8-5677-11e9-baf2-70b3d5800001	hdfs	172.17.0.7	N/A	Running
journal-0-node__33ad2e2e-3810-47b5-980f-f6...	journal-0-node	172.17.0.4	N/A	Running
journal-1-node__e7f0c600-b3b7-4d0c-b4b4-56...	journal-1-node	172.17.0.3	N/A	Running
journal-2-node__c9d3c3ef-80fc-49e2-b888-08...	journal-2-node	172.17.0.5	N/A	Running

Interacting with Hadoop Distributed File System (HDFS)

To effectively interact with HDFS, it's essential to understand common command categories and their specific operations. Here are some key commands for performing various tasks on Hadoop Distributed File System (HDFS).

 by Hasini Kavuri

Basic File System Operations

`ls`

List the contents of a directory

`mkdir`

Create a directory

`put/copyFromLocal`

Upload a file from local machine to HDFS

`get/copyToLocal`

Download a file from HDFS to local machine

`cat`

View the contents of a file

`rm`

Delete a file or directory

File Permissions and Ownership

1

`chmod`

Change the permissions of a file

2

`chown`

Change the owner of a file

Data Manipulation

1

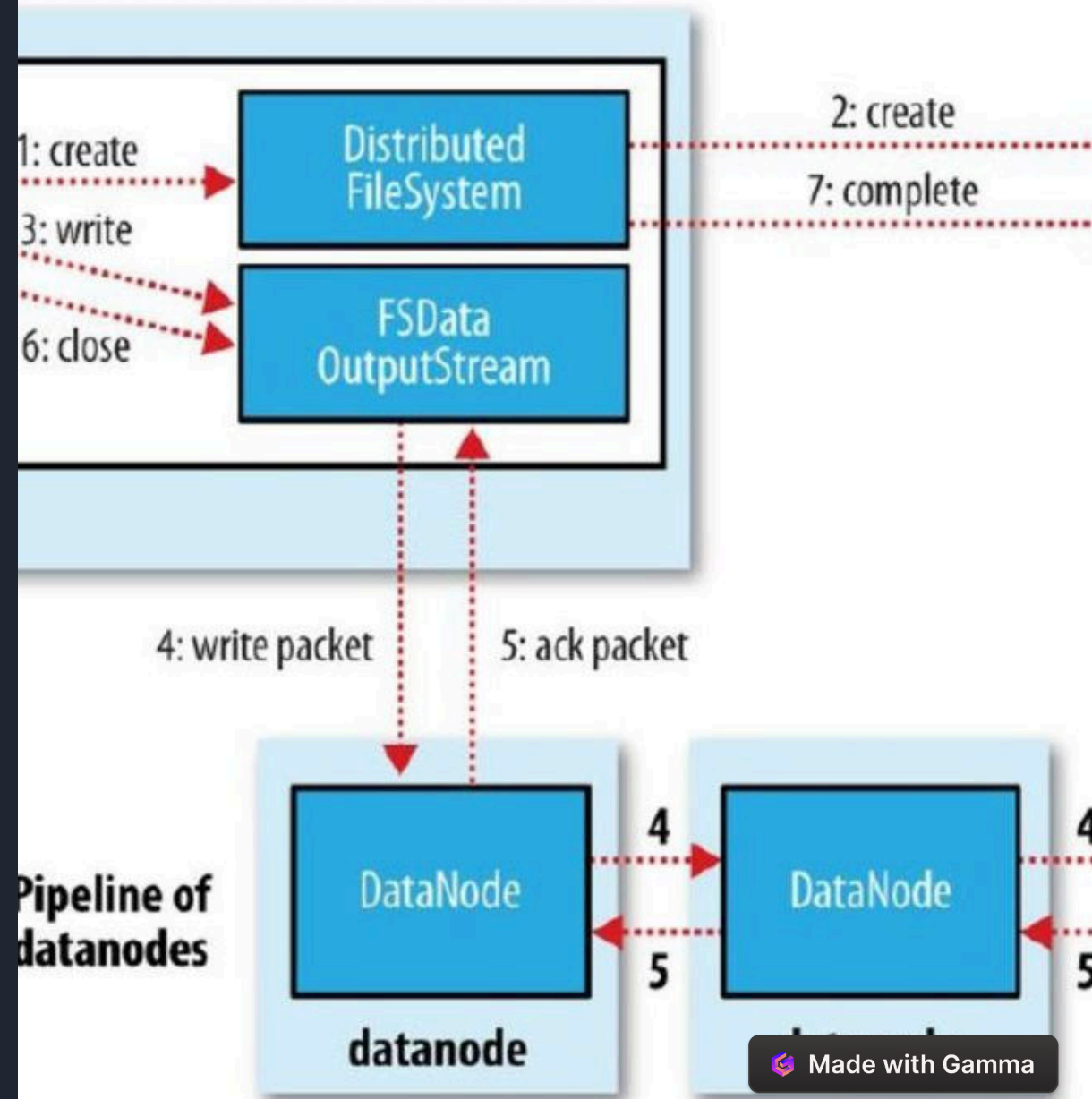
cp

Copy files/directories within HDFS

2

mv

Move files/directories within HDFS



Viewing File Contents

1

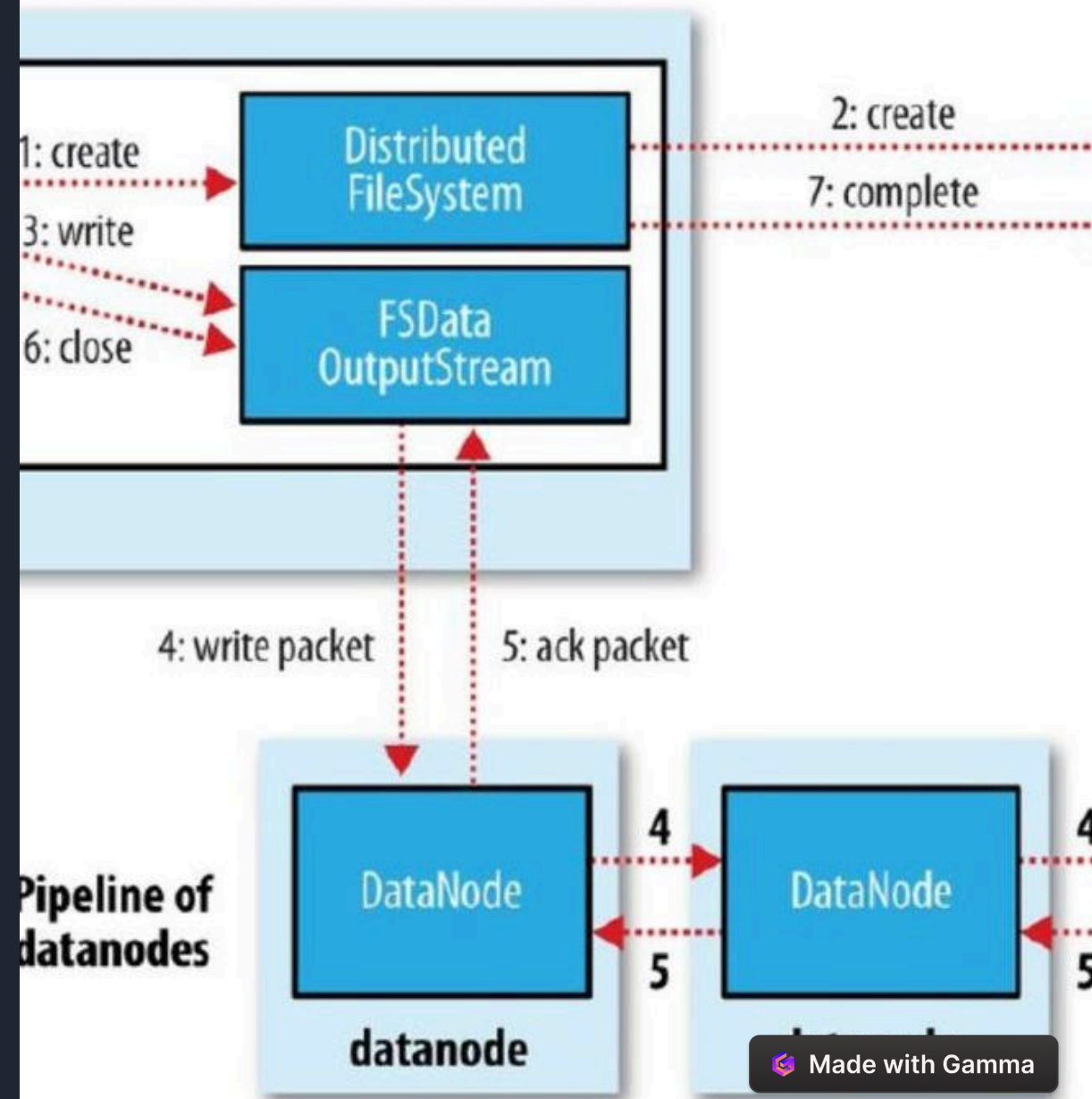
ls

Lists the contents of a directory

2

cat

Displays the contents of a file



Moving into HDFS

Using `hdfs fs -put`

Copy a single file from HDFS to your local disk

Using `hdfs fs -copyFromLocal`

Similar to `-get` but keeps file permissions and ownership consistent with the HDFS file

```
hadoop distcp hdfs://cluster1/foo/bar hdfs://cluster2
```

cluster2の/fooの下に、cluster1の/foo/barを
コピー

```
hadoop distcp -update hdfs://cluster1/foo/bar hdfs://cluster2
```

cluster2の/fooを、cluster1の/foo/barのコン
テンツでアップデート

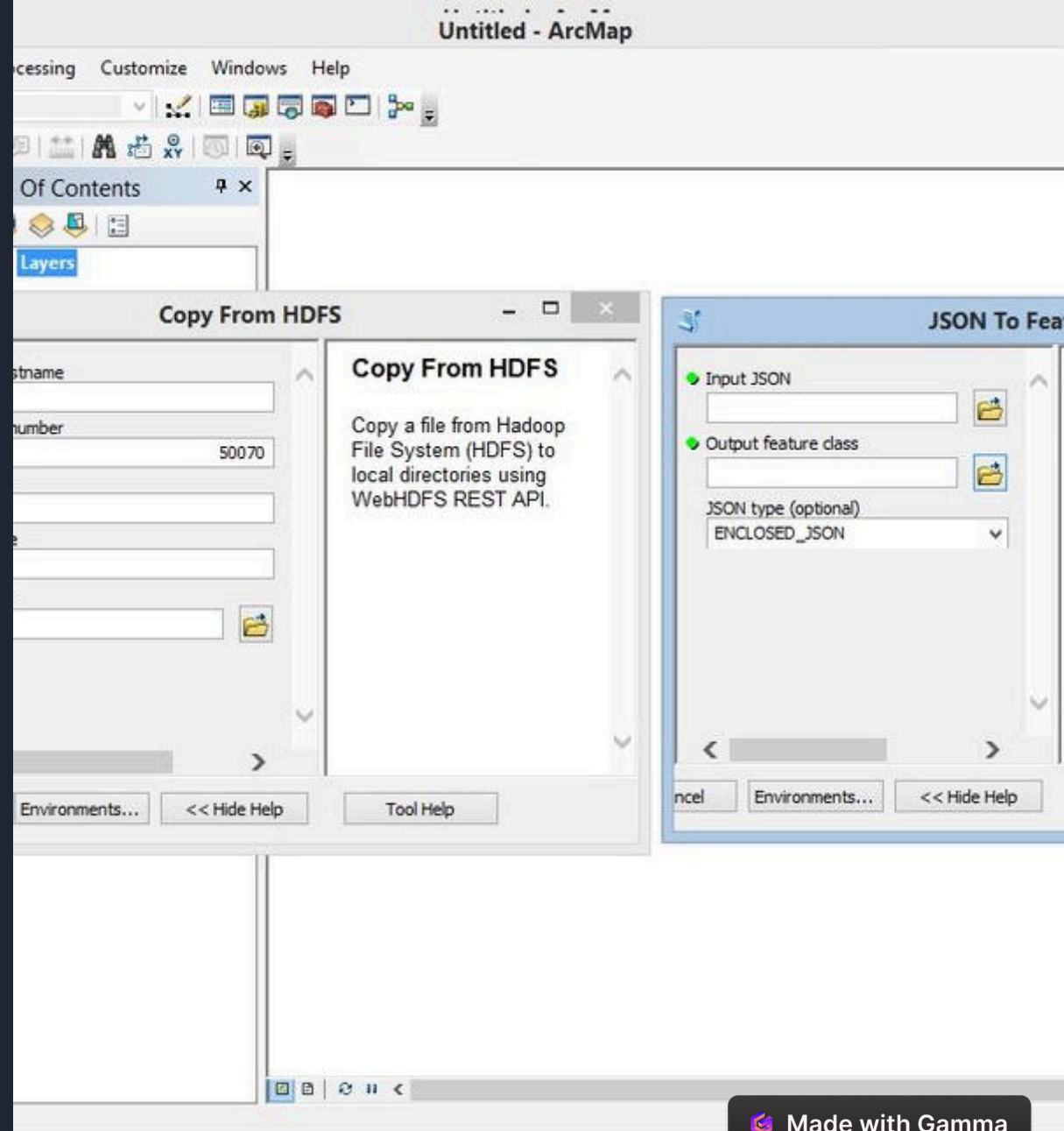
Specific Hadoop Commands for Viewing Data Contents

1 ls

Lists the contents of a directory, similar to the ls command in Linux

2 cat

Displays the contents of a file



HDFS Command Examples

1

`ls`

With the full path of the directory

2

`cat`

Display specific lines with head or tail

Using `hdfs fs -get` and `-copyToLocal`

Command	Description	Example
<code>hdfs fs -get</code>	Copy a single file from HDFS to your local disk	<code>hdfs fs -get</code> <code>/user/hadoop/data/file.txt</code> <code>/home/user/data/downloaded_file.txt</code>
<code>hdfs fs -copyToLocal</code>	Behaves similarly to <code>-get</code> but keeps file permissions and ownership consistent with the HDFS file	<code>hdfs fs -copyToLocal</code> <code>/user/hadoop/data/file.txt</code> <code>/home/user/data/downloaded_file.txt</code>