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Practical 2

HDFS COMMANDS

1. JPS

- **Syntax:** `jps`

- **Description:** Lists Java processes running on the machine, showing their Process IDs (PIDs) and main classes.

2. mkdir

- **Syntax:** `mkdir [options] directory_name`

- **Description:** Creates a new directory with the specified name.

3. ls

- **Syntax:** `ls [options] [path]`

- **Description:** Lists files and directories in the specified path or current directory. Options can include `-l` for long format, `-a` for all files including hidden ones.

4. put

- **Syntax:** `put local_path [remote_path]`

- **Description:** Uploads a file from the local system to a remote filesystem (often used with HDFS commands).

5. get

- **Syntax:** get remote_path [local_path]

- **Description:** Downloads a file from a remote filesystem to the local system (often used with HDFS commands).

6. cat

- **Syntax:** cat [options] file_name

- **Description:** Concatenates and displays the content of one or more files.

7. mv

- **Syntax:** mv [options] source destination

- **Description:** Moves or renames files or directories from the source to the destination.

8. cp

- **Syntax:** cp [options] source destination

- **Description:** Copies files or directories from the source to the destination.

9. movefromlocal

- **Syntax:** movefromlocal local_path remote_path

- **Description:** Moves a file from the local filesystem to a remote filesystem (often used with HDFS commands).

10. movetolocal

- **Syntax:** movetolocal remote_path local_path

- **Description:** Moves a file from a remote filesystem to the local filesystem (often used with HDFS commands).

11. rm

- **Syntax:** rm [options] file_name

- **Description:** Removes (deletes) files or directories. Use ``-r`` for recursive deletion of directories.

12. tail

- **Syntax:** `tail [options] file_name`

- **Description:** Outputs the last part of a file. Options like ``-f`` can be used to follow the file for new additions.

13. expunge

- **Syntax:** `expunge [options] path`

- **Description:** Removes files or directories permanently from a filesystem (e.g., HDFS).

14. chown

- **Syntax:** `chown [options] owner[:group] file_name`

- **Description:** Changes the owner and/or group of a file or directory.

15. chgrp

- **Syntax:** `chgrp [options] group file_name`

- **Description:** Changes the group ownership of a file or directory.

16. setrep

- **Syntax:** `setrep -w [-R] [replication] [path ...]`

- **Description:** Sets the replication factor for files in HDFS.

17. du

- **Syntax:** `du [options] [path]`

- **Description:** Estimates and reports the disk space used by files and directories.

18. df

- **Syntax:** df [options] [path]

- **Description:** Reports the amount of disk space used and available on filesystems.

19. fsck

- **Syntax:** fsck [options] [path]

- **Description:** Checks the filesystem for errors and inconsistencies (often used with HDFS).

20. touch

- **Syntax:** touch [options] file_name

- **Description:** Changes file timestamps or creates an empty file if it doesn't exist.

21. text

- **Syntax:** text [options] file_name

- **Description:** (Note: The `text` command is not standard and may vary based on context. It might be used to display or process text files.)

22. stat

- **Syntax:** stat [options] file_name

- **Description:** Displays detailed information about a file or directory, such as size, permissions, and modification times.

23. chmod

- **Syntax:** chmod [options] mode file_name

- **Description:** Changes the permissions of a file or directory using symbolic or

octal modes.

24. appendtofile

- **Syntax:** appendtofile file_name "text_to_append"
- **Description:** Appends text to the end of a file (note that this is not a standard Unix command, and its implementation may vary).

25. checksum

- **Syntax:** checksum [options] file_name
- **Description:** Computes and displays a checksum for a file to verify its integrity.

26. count

- **Syntax:** count [options] path
- **Description:** Counts files, lines, or other entities in a directory or file (not a standard command, but may be used in custom scripts).

27. find

- **Syntax:** find [path] [options] [expression]
- **Description:** Searches for files and directories in a directory hierarchy based on specified criteria.

28. getmerge

- **Syntax:** getmerge [-nl] [src ...] [dest]

- **Description:** Merges files from HDFS into a single file on the local filesystem.