

GEETANJALI INSTITUTE OF TECHNICAL STUDIES

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Sem IV

Experiment - I-

Date

AIM:- Basic linux Commands, date, cal, echo, mkdir, cd, cat, clean, run, mkdir, grep, sort, wc, mv, man

(i) date -

Description:- -d, --date = STRING

display time described by STRING, not 'now'

--debug

Annotate the passed date and warn about questionable usage to stderr

-f, --file = DATAFILE

like --date, once for each line of DATAFILE

-I[fmt], --iso-8601[=fmt]

Output date/time in ISO 8601 format

fmt = 'date' for only date only (the default),

'hours', 'minutes', 'seconds' or 'ns' for date

and time to the indicated precision.

Ex:- date

Mon Feb 21 01:08:22 IST 2022

(ii) cal:- cal, ncal - displays a calendar and the date of easter.

Description:-

-h Turns off highlighting of Today.

-J Display Julian calendar, if combined with the -o option, display date of Orthodox Easter according to Julian calendar.

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-e Display date of easter (for western Date Churches)

-j Display Julian days (day one based numbered from January 1).

Ex:- `cal`

February 2022

Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28					

(iii) Echo :- Echo

-n do not output the trailing newline

-e enable interpretation of backslash escapes

-E disable interpretation of backslash escapes (default).

--help display this help and exit.

Ex:- `$ echo Hello` `$ echo this`
Hello this

(iv) mkdir:- mkdir - make directories

Description:-

-m, --mode = mode : set file mode (as in `chmod`), not `a = umask - umask`.

-p, --parents: no errors if existing, make parent directories as needed.

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-v, --verbose:- print a message for each created directory

-Z:- set selinux security context of each created directory to default type.

Example:- \$ mkdir Raj

(v) cd:- change directory Command is used to change current working directory in linux.
Ex:- \$ cd boat.

(vi) Cat:- Concatenate files and print on standard output.
-A, --show-all:- equivalent to -vE
-b, --number-nonblank:- number nonempty output lines, Omitting -n

-e:- equivalent of -ve

-E, --show-ends:- display \$ at end of each line

Ex:- \$ cat >> inside

hello world

\$ cat inside

hello world

\$ cat >> outside

\$ cat outside

Thankyou

\$ cat inside outside

hello world Thankyou

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(vii) clean:- clean the terminal screen

clean your screen if this is possible, including its Scrollback buffer. clean looks in the environment for terminal - type and then in the toynake database to determine how to clean the screen.

clear ignores any command - line parameters that may be present.

Ex:- $\$$ clean

(viii) ~~rm~~ rm:- remove files or directories

This is manual page documents the GNU version of rm. rm removes each specified file. By default it doesn't remove directories.

If the -I or --interactive = once option is given & there are more than -- three files or the -r, -R or -- recursive are given, then rm prompts the user for whether to proceed with entire operations. If the response is not affirmative, the entire command is aborted. Otherwise, if a file is unwriteable, standard input is a terminal, and the -f or --force is not given, or the -i or --inter-active = always options is given, rm prompts the user for whether to remove the file. If the response is not affirmative, the file is skipped.

Ex:- $\$$ rm inside outside

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Darkness to Light

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(IX) `rmdir` :- remove empty directories
-- ignore - fail - on - nonempty
ignore each failure that is safely because a directory is non-empty.
-p, --parents remove DIRECTORY and its ancestors,
eg. '`rmdir -p a/b/c`' is similar to '`rmdir a/b/c a/ba`'.
-v, --verbose : output a diagnostic for every directory processed.
--help display this help & exit
Ex :- `rmdir Raj`

(X) `Grep` :- `grep`, `egrep`, `fgrep`, `rgrep` - print line matching a pattern.
--help : output a usage message & exit
-v, --version : output the version no. of `grep` & exit
-E, --extended -regrep Interpret PATTERN as an extended regular expression (ERE, see below).
-F, --fixed-strings Interpret PATTERN as a list of fixed strings (instead of regular expressions) separated by newlines, matched.
Ex:- ~~grep~~ `$ grep "this" demo-file`

(XI) `Sort` :- sort lines of text lines
-b, --ignore-leading-blanks
ignore leading blanks.

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-d, --dictionary -order - Consider only blanks & alpha numeric character

-f, --ignore - case fold lowercase to uppercase character

-g, --general - numeric - sort Compare according to general numerical value.

Example:- \$ sort hello world
hello world

(XII) WC :- print newline, word and byte counts for each file.

--c, --bytes:- print the bytes counts

-m, --chars:- print the character counts

-l, --lines:- print the newline counts

--files O - from F

read input from the files specified by NUL. terminated names is files F. If F is then read names from standard input.

Example:-

\$ wc state.txt

5 7 63 state.txt

or

\$ wc capital.txt

5 5 45 capital.txt

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(XIII) mv :- move (rename) file

Date

-- backup [CONTROL]

make a backup of each existing destination file

-b like - backup but does not accept an argument.

-f, --force do not prompt before overwriting.

-i, --interactive prompt before overwrite

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Experiment - 2

Aim: Basic Linux Commands

Date

(1) Head

Name

head - output the first part

Description

-c, --bytes = [] Num

print the first Num bytes of each file; with the leading '-', print all but the last Num bytes of each file.

-n, --lines = [] Num

print the first Num lines instead of the first 10; with the leading '-', print all but the last Num lines of each file

-q, --quiet, --silent : never print headers giving file name

-v, --verbose, always print headers giving file name

(2) Tail

Name

tail - output the last part of files

Description

-c, --bytes = [+] Num

Output the last Num bytes; or use -c + Num to output starting with byte Num of each file.

-F, --follow = [{ name / description }]

output appended data as the file grows; an absent option

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argument means 'description'

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-F, same as -t follow = Name -- retry

-n, --lines = [+] Num

Output the last Num lines, the instead of the last 10, or
use -n + Num to output starting with line Num.

(3) **df**

Name

df - report file system disk space usage

Description

Options:

-a, --all :- include pseudo, duplicate, inaccessible file system

-B, --block-size = SIZE :- scale sizes by SIZE before printing,
then; eg. '-Bm' prints sizes in units of 1,048,576 bytes;
see SIZE format below.

-n; --human-readable: print sizes in powers of 1024 (eg. 1023M)

-H, --si: print sizes in powers of 1000 (eg. 1.1k)

(4) **du**

Name

du - estimate file space usage

Description

-a, --null: ~~each~~ ^{end} each output line with NULL, not newline

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-a, --add :- write counts for all files, not just directories.

--apparent-size :- print apparent size, rather than disk usage; although the apparent size, is usually smaller, it may be larger due to holes in ('sparse') files, internal fragmentation, indirect blocks, and the like.

-B, --block-size = SIZE :- scale size by SIZE before printing then; eg. '-Bm' prints sizes in units of 1,048,576 bytes; see SIZE format below

(5) pwd

Name

pwd - print name of current / working directory

Description

-L, --logical :- use PWD from environment, even if it contains symlinks.

-P, --physical :- avoid all symlinks

--help display this help and exit

--version :- output version information and exit

(6) touch

Name

Touch - change file timestamps

Description

-a; change only the access time.

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-C, -no-create: do not create any files

-d, --date = STRING :- parse STRING & use it instead of
of current time

+F (ignored)

(7) expr :- Name: expr - evaluable expressions

Description: --help . display this help and exit

--version : output version information and exit. print the
value of EXPRESSION to standard output. A blank
line below separates increasing precedence groups.

Example: expr = 12 = 5

0

expr 3 + 4

7

expr 4 - 1

3

expr 2 * 1 * 3

6

expr 4 / 2

2