Linux Commands Assignment

Thursday, August 29, 2024   9:59 PM

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cdac@DESKTOP-65K5N7N: ~/LinuxAssignment/docs

cdac@DESKTOP-65K5N7N:~$ sudo ls
[sudo] password for cdac:
Assignment  Demo.txt  Linux  LinuxAssignment  abc.txt.save  asd  asd.save  asd.txt  asd.txt.save  nano.1013.save  spd
cdac@DESKTOP-65K5N7N:~$ pwd
/home/cdac
cdac@DESKTOP-65K5N7N:~$ ls
Assignment  Demo.txt  Linux  LinuxAssignment  abc.txt.save  asd  asd.save  asd.txt  asd.txt.save  nano.1013.save  spd
cdac@DESKTOP-65K5N7N:~$ cd LinuxAssignment
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ cat file1.txt
Pratik Dilip Shahane
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ cp file1.txt docs/file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ ls -l
total 12
drwxr-xr-x 2 cdac cdac 4096 Aug 28 18:55 docs
-rw------- 1 cdac cdac   21 Aug 29 18:06 file.txt.save
-rw-r--r-- 1 cdac cdac   21 Aug 29 20:17 file1.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ cd docs
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ls -l
total 4
-rw-r--r-- 1 cdac cdac 21 Aug 29 20:39 file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ chmod u+rwx file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 cdac cdac 21 Aug 29 20:39 file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ chown $(Pratik) docs/file2.txt
Pratik: command not found
chown: missing operand after 'docs/file2.txt'
Try 'chown --help' for more information.
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ chown
chown: missing operand
Try 'chown --help' for more information.
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ chown --help
Usage: chown [OPTION]... [OWNER][:[GROUP]] FILE...
  or:  chown [OPTION]... --reference=RFILE FILE...
Change the owner and/or group of each FILE to OWNER and/or GROUP.
With --reference, change the owner and group of each FILE to those of RFILE.

  -c, --changes          like verbose but report only when a change is made
  -f, --silent, --quiet  suppress most error messages
  -v, --verbose          output a diagnostic for every file processed
      --dereference      affect the referent of each symbolic link (this is
                         the default), rather than the symbolic link itself
  -h, --no-dereference   affect symbolic links instead of any referenced file
                         (useful only on systems that can change the
                         ownership of a symlink)
      --from=CURRENT_OWNER:CURRENT_GROUP
                         change the owner and/or group of each file only if
                         its current owner and/or group match those specified
                         here.  Either may be omitted, in which case a match
                         is not required for the omitted attribute
```

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cdac@DESKTOP-65K5N7N: ~/LinuxAssignment/docs

      --preserve-root    fail to operate recursively on '/'
      --reference=RFILE  use RFILE's owner and group rather than
                         specifying OWNER:GROUP values
  -R, --recursive        operate on files and directories recursively

The following options modify how a hierarchy is traversed when the -R
option is also specified.  If more than one is specified, only the final
one takes effect.

  -H                     if a command line argument is a symbolic link
                         to a directory, traverse it
  -L                     traverse every symbolic link to a directory
                         encountered
  -P                     do not traverse any symbolic links (default)

      --help     display this help and exit
      --version  output version information and exit

Owner is unchanged if missing.  Group is unchanged if missing, but changed
to login group if implied by a ':' following a symbolic OWNER.
OWNER and GROUP may be numeric as well as symbolic.

Examples:
  chown root /u        Change the owner of /u to "root".
  chown root:staff /u  Likewise, but also change its group to "staff".
  chown -hR root /u    Change the owner of /u and subfiles to "root".

GNU coreutils online help: <https://www.gnu.org/software/coreutils/>
Report any translation bugs to <https://translationproject.org/team/>
Full documentation <https://www.gnu.org/software/coreutils/chown>
or available locally via: info '(coreutils) chown invocation'
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ chown $(whoami) docs/file2.txt
chown: cannot access 'docs/file2.txt': No such file or directory
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ sudo chown Pratik file2.txt
[sudo] password for cdac:
chown: invalid user: 'Pratik'
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ adduser Pratik
adduser: Only root may add a user or group to the system.
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ sudo adduser
adduser: Only one or two names allowed.
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ whoami
cdac
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ chown $(whoami) docs/file2.txt
chown: cannot access 'docs/file2.txt': No such file or directory
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ chown $(whoami) file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ cd ..
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ ls -l
total 12
drwxr-xr-x 2 cdac cdac 4096 Aug 28 18:55 docs
-rw------- 1 cdac cdac   21 Aug 29 18:06 file.txt.save
```

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drwxr-xr-x 2 cdac cdac 4096 Aug 28 18:55 docs
-rw------- 1 cdac cdac   21 Aug 29 18:06 file.txt.save
-rw-r--r-- 1 cdac cdac   21 Aug 29 20:17 file1.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ cd docs
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 cdac cdac 21 Aug 29 20:39 file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ cd ..
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ ls -l /
total 2144
lrwxrwxrwx   1 root root       7 Nov 23  2023 bin -> usr/bin
drwxr-xr-x   2 root root    4096 Apr 18  2022 boot
drwxr-xr-x  16 root root    3540 Aug 29 19:34 dev
drwxr-xr-x  73 root root    4096 Aug 29 19:53 etc
drwxr-xr-x   3 root root    4096 Aug 27 18:24 home
-rwxrwxrwx   1 root root 2127224 Apr 25 23:47 init
lrwxrwxrwx   1 root root       7 Nov 23  2023 lib -> usr/lib
lrwxrwxrwx   1 root root       9 Nov 23  2023 lib32 -> usr/lib32
lrwxrwxrwx   1 root root       9 Nov 23  2023 lib64 -> usr/lib64
lrwxrwxrwx   1 root root      10 Nov 23  2023 libx32 -> usr/libx32
drwx------   2 root root   16384 Aug 27 18:21 lost+found
drwxr-xr-x   2 root root    4096 Nov 23  2023 media
drwxr-xr-x   5 root root    4096 Aug 27 18:22 mnt
drwxr-xr-x   2 root root    4096 Nov 23  2023 opt
dr-xr-xr-x 183 root root       0 Aug 29 19:34 proc
drwx------   4 root root    4096 Aug 27 18:24 root
drwxr-xr-x  18 root root     540 Aug 29 19:34 run
lrwxrwxrwx   1 root root       8 Nov 23  2023 sbin -> usr/sbin
drwxr-xr-x   8 root root    4096 Nov 23  2023 snap
drwxr-xr-x   2 root root    4096 Nov 23  2023 srv
dr-xr-xr-x  11 root root       0 Aug 29 19:34 sys
drwxrwxrwt  10 root root    4096 Aug 29 19:44 tmp
drwxr-xr-x  14 root root    4096 Nov 23  2023 usr
drwxr-xr-x  13 root root    4096 Nov 23  2023 var
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ find . -type -name ".txt"
find: Unknown argument to -type: -
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ find . -type f -name ".txt."
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ ls -l
total 12
drwxr-xr-x 2 cdac cdac 4096 Aug 28 18:55 docs
-rw------- 1 cdac cdac   21 Aug 29 18:06 file.txt.save
-rw-r--r-- 1 cdac cdac   21 Aug 29 20:17 file1.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ grep "Pratik" file2.txt
grep: file2.txt: No such file or directory
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ cd docs
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ grep "Pratik" file2.txt
Pratik Dilip Shahane
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ date
Thu Aug 29 21:21:17 IST 2024
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ip addr show
```
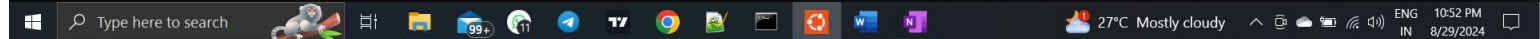
```
Thu Aug 29 21:21:17 IST 2024
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
       valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1400 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:29:3d:81 brd ff:ff:ff:ff:ff:ff
    inet 172.18.5.90/20 brd 172.18.15.255 scope global eth0
       valid_lft forever preferred_lft forever
    inet6 fe80::215:5dff:fe29:3d81/64 scope link
       valid_lft forever preferred_lft forever
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ping
ping: usage error: Destination address required
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ping 127.0.0.1/8
ping: 127.0.0.1/8: Name or service not known
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ zip -r docs.zip docs
Command 'zip' not found, but can be installed with:
sudo apt install zip
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ Compress-Archive -Path docs -DestinationPath docs.zip
Compress-Archive: command not found
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ compress-archive -path docs -destinationpath docs.zip
compress-archive: command not found
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ls
file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ls -l
total 4
-rwxr--r-- 1 cdac cdac 21 Aug 29 20:39 file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ cat file2.txt
Pratik Dilip Shahane
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ LS
LS: command not found
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ ls
file2.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ zip -r file2.txt.zip
Command 'zip' not found, but can be installed with:
sudo apt install zip
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ zip -r file2.txt.zip codeblock
Command 'zip' not found, but can be installed with:
sudo apt install zip
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ nano file1.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ sed -i '' 's/World/SPD/g' file1.txt
sed: can't read s/World/SPD/g: No such file or directory
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ nano file1.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ sed -i 's/Worlds/SPD/g' file1.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ nano file1.txt
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$
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Problem 2 :

```
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ c ..
c: command not found
cdac@DESKTOP-65K5N7N:~/LinuxAssignment/docs$ cd ..
cdac@DESKTOP-65K5N7N:~/LinuxAssignment$ cd ..
cdac@DESKTOP-65K5N7N:~$ ls
Assignment  Demo.txt  Linux  LinuxAssignment  abc.txt.save  asd  asd.save  asd.txt  asd.txt.save  nano.1013.save  spd
cdac@DESKTOP-65K5N7N:~$ nano asd.txt
cdac@DESKTOP-65K5N7N:~$ nano asd.txt
cdac@DESKTOP-65K5N7N:~$ mv asd.txt data.txt
cdac@DESKTOP-65K5N7N:~$ cat data.txt
line1
line2
line3
line4
line5
line6
line7
line8
line9
line10
cdac@DESKTOP-65K5N7N:~$ head data.txt
line1
line2
line3
line4
line5
line6
line7
line8
line9
line10
cdac@DESKTOP-65K5N7N:~$ tail -5 data.txt
line6
line7
line8
line9
line10
cdac@DESKTOP-65K5N7N:~$ head -15 data.txt
line1
line2
line3
line4
line5
line6
line7
line8
line9
line10
cdac@DESKTOP-65K5N7N:~$ mv data.txt numbers.txt
cdac@DESKTOP-65K5N7N:~$ tail -3 numbers.txt
```

```
cdac@DESKTOP-65K5N7N:~$ mv data.txt numbers.txt
cdac@DESKTOP-65K5N7N:~$ tail -3 numbers.txt
line8
line9
line10
cdac@DESKTOP-65K5N7N:~$ mv numbers.txt input.txt
cdac@DESKTOP-65K5N7N:~$ tr 'a-z' 'A-Z' < input.txt > output.txt
cdac@DESKTOP-65K5N7N:~$ cat output.txt
LINE1
LINE2
LINE3
LINE4
LINE5
LINE6
LINE7
LINE8
LINE9
LINE10
cdac@DESKTOP-65K5N7N:~$ nano output.txt
cdac@DESKTOP-65K5N7N:~$ mv output.txt duplicate.txt
cdac@DESKTOP-65K5N7N:~$ sort duplicate.txt / uniq
sort: cannot read: uniq: No such file or directory
cdac@DESKTOP-65K5N7N:~$ cat duplicate.txt
LINE1
LINE2
LINE2
LINE3
LINE4
LINE5
LINE5
LINE6
LINE7
LINE8
LINE9
LINE10
cdac@DESKTOP-65K5N7N:~$ sort duplicate.txt | uniq
LINE1
LINE10
LINE2
LINE3
LINE4
LINE5
LINE6
LINE7
LINE8
LINE9
cdac@DESKTOP-65K5N7N:~$ mv duplicate.txt fruit.txt
cdac@DESKTOP-65K5N7N:~$ nano fruit.txt
cdac@DESKTOP-65K5N7N:~$ cat fruit.txt
mango
```

```
LINE9
cdac@DESKTOP-65K5N7N:~$ mv duplicate.txt fruit.txt
cdac@DESKTOP-65K5N7N:~$ nano fruit.txt
cdac@DESKTOP-65K5N7N:~$ cat fruit.txt
mango
grapes
papaya
avacado
mango
grapes
chikoo
avacado
chikoo
cdac@DESKTOP-65K5N7N:~$ sort fruit.txt | uniq -c
      2 avacado
      2 chikoo
      2 grapes
      2 mango
      1 papaya
cdac@DESKTOP-65K5N7N:~$
```