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CIS 045, Fall 2020

G08125504  
Lab 3  
2020/09/24

1) The umask of 0002 means by default files I create will take away 2, or the write permission, from the others. For example, directories would have permission of 775 (drwxrwxr-x). Files won’t get x by default, so it would be 664.

5) > who owns xfile?

cs45aa17 (that’s me)

> What is the size of xfile?

0 bytes

> What are the permissions of xfile?

rw-rw-r-- (664)

> What are the owners' permission for xfile?

Read & write

> What are the permissions for the group owner of xfile?

Read & write

> If you are not the owner and not in the group, what permissions do you get?

Read

7) > What are the permissions of zfile?

rw-r--r-- (644)

> Why does zfile have those permissions?

The new umask of 033 takes away 3 from both the group and others, so now others also get 4

8) > What are the permissions of zdir

rwxr--r-- (744)

> Why does zdir have those permissions

Out of max of 777, umask has taken 3 each away from group and others

>What does the 'x' permission allow on a directory?

Enter directory

> What does the 'w' permission allow on a directory?

Create or delete files in directory

> What does the 'r' permission allow on a directory?

Read contents of any files once in directory

9. What groups does mr-tester belong to?

In the mr-tester group

> Record the group ID for mr-tester

1047

10. > How can I change my current group id during this login session?

With the newgrp command

> What is the difference using the '-' and without the '-' .

The - flag will reinitialize as though the user had logged in

11. Use the chgrp command to assign your file to another group that you belong to.

> What is the group this file belong to?

cs45aa17 (myself)

> did this work?

No. Either no permission and/or group wheel does not exist

12. Try to give your group ownership to cs45.

> Record your output

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:15 mr-tfile

> Did this work?

No

> Why not?

No. Either no permission and/or group cs does not exist

13. Test to see if mr-tfile is a regular file. If the test is successful, you will get a return

or exit status of zero '0'. The test command is used to test file types and compare values.

> What is your output?

0 (so it was afile)

15. Create a directory called permtest,

> Record the permissions

All are currently 664 rw-rw-r--

24. Recursively do a long listing of dir-tester and all contents below

drwxrwxr-x. 2 cs45aa17 cs45aa17 86 Sep 25 01:29 dir-test2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file1

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file3

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file4

25. Recursively change the permissions of all the content of dir-tester --all files and directory below to 600

Could not change everything to 600 because dir-tester changes to rw- for me and I can no longer access the directory.

[cs45aa17@mc-redhat01 permtest]$ chmod -R 600 dir-tester/

chmod: cannot access ‘dir-tester/dir-test2’: Permission denied

[cs45aa17@mc-redhat01 permtest]$ ls -lR dir-tester/

dir-tester/:

ls: cannot access dir-tester/dir-test2: Permission denied

total 0

d????????? ? ? ? ? ? dir-test

So I did 700

> Record the permissions you see

dir-tester/:

total 0

drwx------. 2 cs45aa17 cs45aa17 86 Sep 25 01:29 dir-test2

dir-tester/dir-test2:

total 0

-rwx------. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file1

-rwx------. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file2

-rwx------. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file3

-rwx------. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file4

Full lab below. This had a cleaning script ran. Please Refer to CIS45\_Lab3\_Emori\_Noboru\_raw if the cleaning script failed at parts:

Script started on Fri 25 Sep 2020 01:00:00 AM EDT

[cs45aa17@mc-redhat01 lab-3]$ umask

0002

others'17@mc-redhat01 lab-3]$ echo 'umask of 0002 means by default files I create will take away 2,"or the write permission, from the

umask of 0002 means by default files I create will take away 2, or the write permission, from the others

[cs45aa17@mc-redhat01 lab-3]$ cd ../lec-3/

[cs45aa17@mc-redhat01 lec-3]$ pwd

/home/cs45aa17/homework/week-3/lec-3

[cs45aa17@mc-redhat01 lec-3]$ mkdir dirx

[cs45aa17@mc-redhat01 lec-3]$ ls -ld dirx

drwxrwxr-x. 2 cs45aa17 cs45aa17 6 Sep 25 01:01 dirx

[cs45aa17@mc-redhat01 lec-3]$ touch xfile

[cs45aa17@mc-redhat01 lec-3]$ ls -l xfile

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:01 xfile

[cs45aa17@mc-redhat01 lec-3]$ umask 033

[cs45aa17@mc-redhat01 lec-3]$ touch zfile

[cs45aa17@mc-redhat01 lec-3]$ ls -l zfile

-rw-r--r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:05 zfile

[cs45aa17@mc-redhat01 lec-3]$ mkdir zdir

[cs45aa17@mc-redhat01 lec-3]$ ls -ld zdir

drwxr--r--. 2 cs45aa17 cs45aa17 6 Sep 25 01:06 zdir

[cs45aa17@mc-redhat01 lec-3]$ groups mr-tester

mr-tester : mr-tester

[cs45aa17@mc-redhat01 lec-3]$ grep mr-tester /etc/group

mr-tester:x:1047:

[cs45aa17@mc-redhat01 lec-3]$ id -a mr-tester

uid=1045(mr-tester) gid=1047(mr-tester) groups=1047(mr-tester)

[cs45aa17@mc-redhat01 lec-3]$ newgrp - cs45

Password:

newgrp: failed to crypt password with previous salt: Invalid argument

[cs45aa17@mc-redhat01 lec-3]$ newgrp - cs45

Password:

newgrp: failed to crypt password with previous salt: Invalid argument

[cs45aa17@mc-redhat01 lec-3]$ exit

Script done on Fri 25 Sep 2020 01:11:25 AM EDT

Script started on Fri 25 Sep 2020 01:12:45 AM EDT

[cs45aa17@mc-redhat01 lab-3]$ newgrp - mr-tester

Password:

newgrp: failed to crypt password with previous salt: Invalid argument

[cs45aa17@mc-redhat01 lab-3]$ newgrp - cs45aa17r\

[cs45aa17@mc-redhat01 ~]$ cd /home/cs45aa17/homework/week-3/lab-3/

psw/home/cs45aa17/homework/week-3/lab-3/s45aa17/homework/week-3/lab-3/

PID TTY TIME CMD

528 pts/5 00:00:00 bash

641 pts/5 00:00:00 bash

706 pts/5 00:00:00 ps

[cs45aa17@mc-redhat01 lab-3]$ exit

logout

[cs45aa17@mc-redhat01 lab-3]$ newgrp - cs45

Password:

newgrp: failed to crypt password with previous salt: Invalid argument

[cs45aa17@mc-redhat01 lab-3]$ newgrp - cs45aa17

[cs45aa17@mc-redhat01 ~]$ ps

PID TTY TIME CMD

528 pts/5 00:00:00 bash

757 pts/5 00:00:00 bash

812 pts/5 00:00:00 ps

[cs45aa17@mc-redhat01 ~]$ exit

logout

[cs45aa17@mc-redhat01 lab-3]$ ps

PID TTY TIME CMD

528 pts/5 00:00:00 bash

819 pts/5 00:00:00 ps

[cs45aa17@mc-redhat01 lab-3]$ newgrp cs45aa17

[cs45aa17@mc-redhat01 lab-3]$ ps

PID TTY TIME CMD

528 pts/5 00:00:00 bash

840 pts/5 00:00:00 bash

895 pts/5 00:00:00 ps

[cs45aa17@mc-redhat01 lab-3]$ exit

exit

[cs45aa17@mc-redhat01 lab-3]$ ps

PID TTY TIME CMD

528 pts/5 00:00:00 bash

899 pts/5 00:00:00 ps

[cs45aa17@mc-redhat01 lab-3]$ touch mr-tfile

[cs45aa17@mc-redhat01 lab-3]$ ls -l mr-tfile

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:15 mr-tfile

[cs45aa17@mc-redhat01 lab-3]$ chgrp cs45 mr-tfile

chgrp: changing group of ‘mr-tfile’: Operation not permitted

[cs45aa17@mc-redhat01 lab-3]$ chgrp cs45aa17mmr-tfile

[cs45aa17@mc-redhat01 lab-3]$ chgrp mr-testermmr-tfile

chgrp: changing group of ‘mr-tfile’: Operation not permitted

[cs45aa17@mc-redhat01 lab-3]$ touch gfilester mr-tfile

[cs45aa17@mc-redhat01 lab-3]$ ls -l gxfile

ls: cannot access gxfile: No such file or directory

[cs45aa17@mc-redhat01 lab-3]$ touch gxfile

[cs45aa17@mc-redhat01 lab-3]$ ls -l gxfile

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:16 gxfile

[cs45aa17@mc-redhat01 lab-3]$ chgrp wheel gxfile

chgrp: changing group of ‘gxfile’: Operation not permitted

[cs45aa17@mc-redhat01 lab-3]$ test -f mr-tfile

[cs45aa17@mc-redhat01 lab-3]$ echo $?

0

[cs45aa17@mc-redhat01 lab-3]$ mkdir mr-dir

[cs45aa17@mc-redhat01 lab-3]$ ls -ld mr-dir

drwxrwxr-x. 2 cs45aa17 cs45aa17 6 Sep 25 01:19 mr-dir

[cs45aa17@mc-redhat01 lab-3]$ test -d mr-dir

[cs45aa17@mc-redhat01 lab-3]$ echo $0

bash

[cs45aa17@mc-redhat01 lab-3]$ echo $?

0

[cs45aa17@mc-redhat01 lab-3]$ test 4 -lt 5

[cs45aa17@mc-redhat01 lab-3]$ echo $?

0

[cs45aa17@mc-redhat01 lab-3]$ test 4 -lt 5 && echo "IGgot this!"

bash: !": event not found

[cs45aa17@mc-redhat01 lab-3]$ test 4?-lt 5 &&&echo 'I got this!'

I got this!

[cs45aa17@mc-redhat01 lab-3]$ test 2 -ne 3 && echo "Rock on"

Rock on

[cs45aa17@mc-redhat01 lab-3]$ test -d mr-dir && echo "mr-dir is a directory"

mr-dir is a directory

[cs45aa17@mc-redhat01 lab-3]$ mkdir permtest

[cs45aa17@mc-redhat01 lab-3]$ cd permtest

[cs45aa17@mc-redhat01 permtest]$ touch feedback1 feedback2 feedback3

[cs45aa17@mc-redhat01 permtest]$ ls -lh

total 0

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback1

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback3

[cs45aa17@mc-redhat01 permtest]$ vi feedback1

"feedback1"k2L,043C0written ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ 0,0-1All-- INSERT --0,1Alle1,2c3h4o56"7I89am12:34$506"72,1 e2c3h4o56"7P8r9a10ct2i3c4e56h7a8r9d20e1r2!34:5)6"76543:)"2,22All:wq

[cs45aa17@mc-redhat01 permtest]$ cat feedback1

echo "I am : $0"

echo "Practice harder!:)"

[cs45aa17@mc-redhat01 permtest]$ chmod +x feedback1

[cs45aa17@mc-redhat01 permtest]$ ls -lh

total 4.0K

-rwxrwxr-x. 1 cs45aa17 cs45aa17 43 Sep 25 01:22 feedback1

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback3

[cs45aa17@mc-redhat01 permtest]$ chmodho=rw-,g=r--,u=--- feedback2

[cs45aa17@mc-redhat01 permtest]$ lsm-lhu=rw-,g=r--,o=--- feedback2

total 4.0K

-rwxrwxr-x. 1 cs45aa17 cs45aa17 43 Sep 25 01:22 feedback1

-rw-r-----. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback3

[cs45aa17@mc-redhat01 permtest]$ chmodhu=rw-feedback2--- feedback2

[cs45aa17@mc-redhat01 permtest]$ lsm-lhu=rw-,g=rw-,o=-w- feedback2

total 4.0K

-rwxrwxr-x. 1 cs45aa17 cs45aa17 43 Sep 25 01:22 feedback1

-rw-rw----. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback3

[cs45aa17@mc-redhat01 permtest]$ chmodhu=rw-,g=r--,o=--- feedback2

[cs45aa17@mc-redhat01 permtest]$ lsm-lhu=rw-,g=r--,o=--- feedback2

total 4.0K

-rwxrwxr-x. 1 cs45aa17 cs45aa17 43 Sep 25 01:22 feedback1

-rw-r-----. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback3

[cs45aa17@mc-redhat01 permtest]$ chmod +w feedback2

[cs45aa17@mc-redhat01 permtest]$ ls -lh

total 4.0K

-rwxrwxr-x. 1 cs45aa17 cs45aa17 43 Sep 25 01:22 feedback1

-rw-rw----. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback3

[cs45aa17@mc-redhat0lsp-lhtest]$ chmod g-w,o-w feedback2

total 4.0K

-rwxrwxr-x. 1 cs45aa17 cs45aa17 43 Sep 25 01:22 feedback1

-rw-r-----. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback3

[cs45aa17@mc-redhat01 permtest]$ chmod 754 feedback3

[cs45aa17@mc-redhat01 permtest]$ ls -lh

total 4.0K

-rwxrwxr-x. 1 cs45aa17 cs45aa17 43 Sep 25 01:22 feedback1

-rw-r-----. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback2

-rwxr-xr--. 1 cs45aa17 cs45aa17 0 Sep 25 01:21 feedback3

[cs45aa17@mc-redhat01 permtest]$ mkdir dir-tester

[cs45aa17@mc-redhat01 permtest]$ mkdir dir-tester/dir-test2

[cs45aa17@mc-redhat01 permtest]$ touch dir-tester/dir-test2/tester-file{1..4}

[cs45aa17@mc-redhat01 permtest]$ ls dir-tester/dir-test2/\*

dir-tester/dir-test2/tester-file1 dir-tester/dir-test2/tester-file3

dir-tester/dir-test2/tester-file2 dir-tester/dir-test2/tester-file4

[cs45aa17@mc-redhat01 permtest]$ ls -lR dir-tester/

dir-tester/:

total 0

drwxrwxr-x. 2 cs45aa17 cs45aa17 86 Sep 25 01:29 dir-test2

dir-tester/dir-test2:

total 0

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file1

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file3

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file4

[cs45aa17@mc-redhat01 permtest]$ chmod -R 600 dir-tester/

chmod: cannot access ‘dir-tester/dir-test2’: Permission denied

[cs45aa17@mc-redhat01 permtest]$ lsm-lR-R 600 dir-tester/

dir-tester/:

ls: cannot access dir-tester/dir-test2: Permission denied

total 0

d????????? ? ? ? ? ? dir-test2

ls: cannot open directory dir-tester/dir-test2: Permission denied

[cs45aa17@mc-redhat01 permtest]$ chmod 700 dir-tester/

[cs45aa17@mc-redhat01 permtest]$ lsm-lR700 dir-tester/

dir-tester/:

total 0

drwxrwxr-x. 2 cs45aa17 cs45aa17 86 Sep 25 01:29 dir-test2

dir-tester/dir-test2:

total 0

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file1

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file2

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file3

-rw-rw-r--. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file4

1@6dl-R0600tester/t0lsp-lRtest]$ hmodl700ir-tester/

chmod: cannot access ‘dir-tester/dir-test2’: Permission denied

[cs45aa17@mc-redhat01hmodm700t]$ lsm-lR-R 600 dir-tester/

[1@75hmod@-R-600hls0-lRermtest]$ chmod 760 dir-tester/

[cls5-lR7@mc-redhat01 per6test]$ chmod -R 700 dir-tester/

dir-tester/:

total 0

drwx------. 2 cs45aa17 cs45aa17 86 Sep 25 01:29 dir-test2

dir-tester/dir-test2:

total 0

-rwx------. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file1

-rwx------. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file2

-rwx------. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file3

-rwx------. 1 cs45aa17 cs45aa17 0 Sep 25 01:29 tester-file4

[cs45aa17@mc-redhat01 permtest]$ exit

Script done on Fri 25 Sep 2020 01:32:55 AM EDT