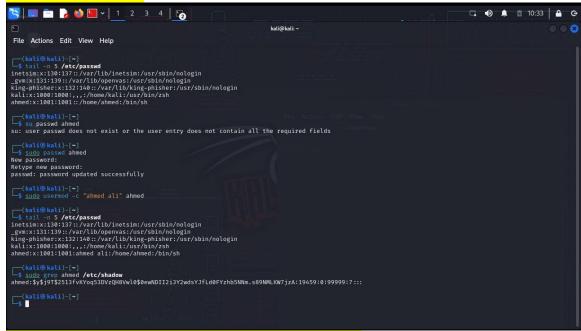
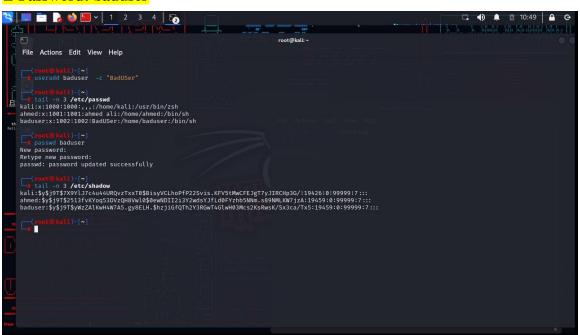


☐ Password: ahmed



- 2. Create a user account with the following attribute
- **☐** Username: baduser
- ☐ Full name/comment: Bad User
- ☐ Password: baduser



3. Create a supplementary (Secondary) group called pgroup with group ID of 30000

```
(root@kali)-[~]

# groupadd -g 30000 pgroup

(root@kali)-[~]
```

4. Create a supplementary group called badgroup

```
(root@kali)-[~]
# groupadd badgroup

(root@kali)-[~]
# getent -n 5 group
getent: invalid option -- 'n'
Try `getent --help' or `getent --usage' for more information.

(root@kali)-[~]
# getent group badgroup
badgroup:x:30001:

(root@kali)-[~]
# ]
```

5. Add ahmed user to the pgroup group as a supplementary group

6. Modify the password of ahmed's account to password

```
(root@ kali)-[~]
# passwd ahmed
New password:
Retype new password:
passwd: passwd updated successfully

(root@ kali)-[~]
# tail -n 3 /etc/shadow
kali:$y$j9T$7X9YlJ7c4u44URQvzTxxT0$BisyVCLhoPfP22Svis.KFV5tMwCFEJgT7yJIRCHp36/:19426:0:99999:7:::
ahmed:$y$j9T$acfSEf6c406.mSdGL7EM/.$9VXxujGcpesYHPyg2GMdQTUB6XP7YwGWf61uSOVpCE.:19459:0:99999:7:::
baduser:$y$j9T$yWzZAlkwH4W7A5.gy8ELH.$hzjiGfQTh2Y3RGwT4GlwH03Mcs2KsRwsK/Sx3ca/Tx5:19459:0:99999:7:::

(root@ kali)-[~]
```

7. Modify ahmed's account so the password expires after 30 days

```
sudo chage -M 30 ahmed
 - chage -M 30 ahmed
—(root@kali)-[~]
—# chage 1
Last password change
                                                               : Apr 12, 2023
Password expires
                                                               : May 12, 2023
Password inactive
                                                               : never
                                                              : never
Account expires
Minimum number of days between password change
Maximum number of days between password change
                                                              : 0
                                                              : 30
Number of days of warning before password expires : 7
 (root@ kali)-[~]
```

8. Lock bad user account so he can't log in

9. Delete bad user account

```
(root@kali)-[~]
wserdel baduser

(root@kali)-[~]
wtail -n 3 /etc/passwd
king-phisher:x:132:140::/var/lib/king-phisher:/usr/sbin/nologin
kali:x:1000:1000:,,:/home/kali:/usr/bin/zsh
ahmed:x:1001:1001:ahmed ali:/home/ahmed:/bin/sh

(root@kali)-[~]
```

10. Delete the supplementary group called badgroup.

```
(root@kali)-[~]
groupdel badgroup

(root@kali)-[~]
getent group badgroup
```

```
(root@kali)-[~]

# getent group badgroup

(root@kali)-[~]

# getent group

root:x:0:
```

```
kali:x:1000:
kaboxer:x:141:kali
ahmed:x:1001:
pgroup:x:30000:ahmed

(root@kali)-[~]
```

11. Create a folder called myteam in your home directory and change its permissions to read only for the owner.

```
(root@kali)-[~]
in cd /home

(root@kali)-[/home]
in kdir myteam

(root@kali)-[/home]
in ls -l myteam
total 0

(root@kali)-[/home]
in ls -ld myteam
drwxr-xr-x 2 root root 4096 Apr 12 15:08 myteam

(root@kali)-[/home]
in chmod 400 myteam

(root@kali)-[/home]
in ls -ld myteam
dr 2 root root 4096 Apr 12 15:08 myteam

(root@kali)-[/home]
in la ls -ld myteam
dr 2 root root 4096 Apr 12 15:08 myteam
```

## 12. Log out and log in by another user

```
(kali⊕ kali)-[~]

$ sudo -u ahmed bash
[sudo] password for kali:
Sorry, try again.
[sudo] password for kali:
ahmed@kali:/home/kali$ su kali
Password:

(kali⊕ kali)-[~]
```

13. Try to access (by cd command) the folder (myteam)

Other users can't access the directory(myteam) because permission is (Read only).

```
File Actions Edit View Help

[kali@kali]-[-/Desktop]

stce4-terminal-emulator.desktop

[kali@kali]-[-/Desktop]

std //home

[kali@kali]-[/home]

std //home

[kali@kali]-[/home]

std //myteam

cd: no such file or directory: /myteam

[kali@kali]-[/home]

std //myteam

ckali@kali]-[/home]

std //myteam

ckali@kali]-[/home]

std //myteam

[kali@kali]-[/home]

std //myteam

[kali@kali]-[/home]

std //myteam

[kali@kali]-[/home]

std //myteam

[kali@kali]-[/home]
```

16- \* Change the permissions of oldpasswd file to give owner read and write permissions and for group write and execute and execute only for the others (using chmod in 2 different ways)

```
(root@kali)-[/home/kali/Sprints]
# touch oldpasswd
 (root@ kali)-[/home/kali/Sprints]
# ls -l oldpasswd
-rw-r--r-- 1 root root 0 Apr 13 09:41 oldpasswd
 —(root®kali)-[/home/kali/Sprints]
—# chmod 631 oldpasswd
 (root@kali)-[/home/kali/Sprints]
# ls -l oldpasswd
-rw--wx--x 1 root root 0 Apr 13 09:41 oldpasswd
  -(root@kali)-[/home/kali/Sprints]
−# ls -l oldpasswd
rw-r--r-- 1 root root 0 Apr 13 09:41 oldpasswd
--(root@ kali)-[/home/kali/Sprints]
-# chmod u=rw,g=wx,o=x oldpasswd
 -(root@kali)-[/home/kali/Sprints]
-# chmod 631 oldpasswd
 ___(root@kali)-[/home/kali/Sprints]
 -# ls −l oldpasswd
rw--wx--x 1 root root 0 Apr 13 09:41 oldpasswd
  -(<mark>root@kali</mark>)-[/home/kali/Sprints]
# <mark>|</mark>
16- * Change your default permissions to be as above.
    (root@kali)-[/home/kali/Sprints]
   chmod 631 oldpasswd
    -(root® kali)-[/home/kali/Sprints]
  —# umask 0641
 (root@kali)-[/home/kali/Sprints]
# ls -l oldpasswd
 -rw--wx--x 1 root root 0 Apr 13 09:41 oldpasswd
       not@kali)-[/home/kali/Sprints]
```

**16-**What is the maximum permission a file can have, by default when it is just created? Answer: umask maximum permissions for file is 0777

```
(root@ kali)-[/home/kali/Sprints]
# chmod 0777 oldpasswd

(root@ kali)-[/home/kali/Sprints]
# ls -l oldpasswd
-rwxrwxrwx 1 root root 0 Apr 13 09:41 oldpasswd
```

And what is that for directory

Answer: umask for maximum permissions for directory is 0777

```
(root@kali)-[/home/kali/Sprints]
| ls
dir1 kali.jpg kalo.jpg oldpasswd sprints Spr

(root@kali)-[/home/kali/Sprints]
| ls -ld dir1
| drwxr-xr-x 2 kali kali 4096 Apr 8 11:37 dir1

(root@kali)-[/home/kali/Sprints]
| chmod 0777 dir1

(root@kali)-[/home/kali/Sprints]
| ls -ld dir1
| drwxrwxrwx 2 kali kali 4096 Apr 8 11:37 dir1
```

**16-** \* Change your default permissions to be no permission to everyone then create a directory and a file

To change my default permissions to be no permission to everyone I will use this command below

umask 0000 [file/directory name]

```
(root@ kali)-[/home/kali/Sprints]

# mkdir umask11

(root@ kali)-[/home/kali/Sprints]

# touch umask007

(root@ kali)-[/home/kali/Sprints]

dir1 kali.jpg kalo.jpg oldpasswd sprints Sprints test4 text1 text4 umask007 umask11

(root@ kali)-[/home/kali/Sprints]
```

## 17. What are the minimum permission needed for:

\* Copy a directory (permission for source directory and permissions for target parent directory)

Read and execute source directory.

Write and execute target parent directory.

\* Copy a file (permission for source file and and permission for target parent directory) Read to source file.

Write and execute for target parent directory.

\* Delete a file

Write for target parent.

\* Change to a directory

Execute for the directory.

\* List a directory content (ls command)

Execute permission needed for the directory.

\* View a file content (more/cat command)

Read and execute permission needed.

\* Modify a file content

Write and execute permission needed.

18. Create a file with permission 444. Try to edit in it and to remove it? Note what happened.

```
(kali@ kali)-[~/Sprints]
$ touch file1.text &6 chmod 444 file1.text

(kali@ kali)-[~/Sprints]
$ rm file1.text
rm: remove write-protected regular empty file 'file1.text'?

(kali@ kali)-[~/Sprints]
$ ls
dir1 file1 file1.text kali.jpg kalo.jpg oldpasswd sprints Sprints test4 text1 text4 umask007 tmask11

(kali@ kali)-[~/Sprints]
$ (kali@ kali)-[~/Sprints]
```

Can't remove the file because no permission.

19. What is the difference between the "x" permission for a file and for a directory? Execute (x) Execute permission on files means the right to execute them, if they are programs. (Files that are not programs should not be given the execute permission.) For directories, execute permission allows you to enter the directory (i.e., cd into it), and to access any of its files.