Capstone Task Day 03

Name: Ibrahim Shnouda

Group: IoT701-A

Facilitator: Eng. Ehab Elsayed

Tasks:

1. \$ sudo groupadd iot_team \$ sudo gpasswd -a ibrahim iot_team

- 2. \$ sudo useradd dev \$ sudo gpasswd -a dev iot_team
- 3. \$ sudo chown -R dev:iot_team /home/ibrahim/iot_logger
- 4. \$ sudo chmod 755 logs \$ su - dev
- 5. \$ sudo userdel dev

Screenshot:

```
ibrahim@rpi4:-/iot_logger ibrahim@rpi4:-/iot_logger ibrahimshnouda@dell-g15:-

tbrahim@rpi4:-/iot_logger $ sudo groupadd iot_team
Adding user i/ot_logger $ sudo gpasswd -a ibrahim iot_team
Adding user i/ot_logger $ sudo gpasswd -a ibrahim iot_team
Adding user i/ot_logger $ sudo gpasswd -a ibrahim iot_team
Adding user i/ot_logger $ sudo useradd dev
tbrahim@rpi4:-/iot_logger $ sudo useradd dev
tbrahim@rpi4:-/iot_logger $ sudo useradd dev
New password:
Retype new password:
passwd password updated successfully
ubrahim@rpi4:-/iot_logger $ sudo gpasswd dev tot_team
Usage: gpasswd [option] GROUP

Options:

options:

options:

raid USER add USER of GROUP
-d, -root CHROOT_DIR display this help message and exit
-d, -delete USER remove USER from GROUP
-0, -root CHROOT_DIR directory to chroot into
-r, -remove-password remove the GROUP's password
-R, -restrict access to GROUP to its members
-M, -members USER,... set the list of members of GROUP
-A, -radministrators ADMIN,... set the list of administrators for GROUP

Except for the -A and -M options, the options cannot be combined.

tbrahim@rpi4:-/iot_logger $ sudo chown -R dev:iot_team /home/tbrahim/iot_logger
tbrahim@rpi4:-/iot_logger $ sudo chown 4 dev:iot_team /home/tbrahim/iot_logger
tbrahim@rpi4:-/iot_logger $ sudo chown -R dev:iot_team /home/tbrahim/iot_logger
tbrahim@rpi4:-/iot_logger $ sudo chown -R ibrahim:lbrahim /home/tbrahim/iot_logger
```

Open-Ended Questions:

1. chang permessions using (chmod) command followd by permission then by file or directory: chmod premession file

file permissions: rwx read, write, execute permissions for owner(u) followed by groups (g) then others(o) we can use the charecters mode or octal numbers mode

1.charchter mode ex: chmod u+x file.cthts means access the owner to execute file.c(+) for add premession, (-) for remove permission, etc..

2.numbers mode: to convert from (drwxr-xr-x) to be 755 ex: chmod 755 file.c

2.octal notation: to convert from (drwxr-xr-x) to be 755 ex: chmod 755 file.c

umask: to remove some permissions from defulat premissions

if defulat = rwxr-xr-x

octal notation = 755

umask = --- r-- r-after rmoving = rwx r-- r--

umask value = 044 then bitwize them = 744

command: \$umask 744

3.root user has all permissions (rwx) to all files, full control to the system becouse this is dangerous normall user restricted to their own home directory