SCD Arwa Ahmed 22i-2676 SE - C Lab 5

#### Question 1:

```
miracle@miracle-HP-Laptop-15-dw0xxx: ~/Desktop
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop$ sudo useradd -e 2025-02-25 arwaah
med
useradd: user 'arwaahmed' already exists
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop$ sudo useradd -e 2025-02-25 ahmed
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop$ sudo passwd ahmed
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop$ sudo chage -l ahmed
Last password change
                                                         : Feb 20, 2025
Password expires
                                                         : never
Password inactive
                                                         : never
Account expires
                                                         : Feb 25, 2025
Minimum number of days between password change
                                                         : 0
                                                         : 99999
Maximum number of days between password change
Number of days of warning before password expires
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop$
```

Restrict simulation logins:

# Deny login during off-hours:

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Question 2:

```
miracle@miracle-HP-Laptop-15-dw0xxx: ~/Desktop/SCD_Lab/Q2
miracle@miracle-HP-Laptop-15-dw0xxx:~$ nano /etc/security/limits.conf
miracle@miracle-HP-Laptop-15-dw0xxx:~$ sudo nano /etc/security/limits.conf
[sudo] password for miracle:
miracle@miracle-HP-Laptop-15-dw0xxx:~$ sudo nano /etc/security/time.conf
miracle@miracle-HP-Laptop-15-dw0xxx:~$ cd Desktop
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop$ ls
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop$ cd SCD Lab
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab$ mkdir Q2
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab$ cd Q2
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo groupadd projectX
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo adduser dev1 dev2
fatal: The user `dev1' does not exist.
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/02$ sudo adduser dev1
info: Adding user `dev1' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `dev1' (1004) ...
info: Adding new user `dev1' (1004) with group `dev1 (1004)' ...
info: Creating home directory `/home/dev1' ...
info: Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
```

## Add users to the group:

```
miracle@miracle-HP-Laptop-15-dw0xxx: ~/Desktop/SCD_Lab/Q2
        Room Number []: ^Z
[1]+ Stopped
                              sudo adduser dev1
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo useradd dev1
useradd: user 'dev1' already exists
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo useradd dev2
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo adduser dev1 dev2
info: Adding user `dev1' to group `dev2' ...
warn: Waiting for lock to become available...
^Z
[2]+ Stopped
                              sudo adduser dev1 dev2
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo useradd dev1 proj
Usage: useradd [options] LOGIN
       useradd -D
       useradd -D [options]
Options:
                                do not check for bad names
      --badname
  -b, --base-dir BASE_DIR
                                base directory for the home directory of the
                                new account
```

Dev2 user add to projectX:

```
miracle@miracle-HP-Laptop-15-dw0xxx: ~/Desktop/SCD_Lab/Q2
                                                             Q ≡
                                create a system account
 -r, --system
 -R, --root CHROOT DIR
                                directory to chroot into
  -P, --prefix PREFIX DIR
                                prefix directory where are located the /etc/* fi
  -s, --shell SHELL
                                login shell of the new account
 -u, --uid UID
                                user ID of the new account
 -U, --user-group
                                create a group with the same name as the user
 -Z, --selinux-user SEUSER
                                use a specific SEUSER for the SELinux user mappi
                                Use the extra users database
      --extrausers
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo useradd dev2 proj
ectX
Usage: useradd [options] LOGIN
      useradd -D
      useradd -D [options]
Options:
      --badname
                                do not check for bad names
                                base directory for the home directory of the
  -b, --base-dir BASE DIR
                                new account
      --btrfs-subvolume-home
                                use BTRFS subvolume for home directory
 -c, --comment COMMENT
                                GECOS field of the new account
 -d, --home-dir HOME DIR
                                home directory of the new account
```

#### Shared directory:

```
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo mkdir -p /opt/pro
jectX
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo groupadd SharedUs
ers
groupadd: group 'SharedUsers' already exists
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo chmod -R 2775 /op
t/projectX
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$
```

### Using chmod g+s:

```
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ sudo chmod g+s /opt/p
rojectX
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$ ls -ld
drwxrwxr-x 2 miracle miracle 4096 Feb 20 09:30 .
miracle@miracle-HP-Laptop-15-dw0xxx:~/Desktop/SCD_Lab/Q2$
```

#### Question 3:

```
miracle@miracle-HP-Laptop-15-dw0xxx: ~/Desktop/SCD_Lab/Q2
 GNU nano 7.2
                             /tmp/crontab.HGasIf/crontab
# To define the time you can provide concrete values for
# Notice that tasks will be started based on the cron's system
# Output of the crontab jobs (including errors) is sent through
# For example, you can run a backup of all your user accounts
# For more information see the manual pages of crontab(5) and cron(8)
*/30 * * * * who > /var/log/user_activity.log
0 0 * * * df -h /var/log/disk_usage.log
0 3 * * 0 fr /tmp/old_logs/
                                [ Wrote 26 lines ]
             ^O Write Out ^W Where Is ^K Cut
                                                     ^T Execute
                                                                   ^C Location
             ^R Read File ^\ Replace
                                        ^U Paste
                                                        Justify
```