Linux exercise 6 - Users and groups

1. **Create regular users sulo and riku using useradd command (use options for creating home directory and sets bash as a default shell). Set passwords for both users. Then create users joonas and jani using adduser command.**

```
menom@ab0208:~$ sudo useradd -m -s /bin/bash sulo

menom@ab0208:~$ sudo passwd sulo

menom@ab0208:~$ sudo useradd -m -s /bin/bash riko

menom@ab0208:~$ sudo passwd riko

menom@ab0208:~$ sudo adduser joonas

menom@ab0208:~$ sudo adduser jani
```

2. **Create group called testers and add this group as a primary group for all users created in previous task. Verify this by creating a file with user jani and check the owner group. In addition, test commands id and groups for any of previously created users and for your own user. In what groups does your user belong to? Find out what is the purpose of these groups.**

```
menom@ab0208:~$ sudo groupadd testers

menom@ab0208:~$ sudo usermod -g testers sulo
[sudo] password for menom:
menom@ab0208:~$ sudo usermod -g testers riko
menom@ab0208:~$ sudo usermod -g testers joonas
menom@ab0208:~$ sudo usermod -g testers jani
```

3. **Create group called coders and set it as the primary group for user joonas, but let joonas still be a member of testers group.**

```
menom@ab0208:~$ sudo groupadd coders
menom@ab0208:~$ sudo usermod -g coders joonas
```

4. **Remove the user riku (remove also user's home directory) and remove also user jani without removing user's home directory. In addition, remove the group called coders.**

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```
menom@ab0208:~$ sudo userdel -r riko

menom@ab0208:~$ sudo userdel jani

menom@ab0208:~$ sudo groupdel coders
```

5. **Lock the password for user sulo. Verify the changes. After this, set the password as expired and login with user sulo (remember to remove the password lock before login). What happens?**

```
menom@ab0208:~$ sudo passwd -l sulo
passwd: password expiry information changed.
menom@ab0208:~$ su sulo
Password:
su: Authentication failure
menom@ab0208:~$
```

```
menom@ab0208:~$ sudo passwd -u sulo
passwd: password expiry information changed.
menom@ab0208:~$ su sulo
Password:
sulo@ab0208:/home/menom$
```

```
menom@ab0208:~$ sudo passwd -e sulo
[sudo] password for menom:
Sorry, try again.
[sudo] password for menom:
passwd: password expiry information changed.
menom@ab0208:~$
```

```
menom@ab0208:~$ su sulo
Password:
sulo@ab0208:/home/menom$
```

6. **Below is the presentation of a directory structure from fictional company including users from different groups. Create the presented directory structure, users and groups for the filesystem of your Ubuntu. Set file permissions for files and directories as described in the figure (Tip: use material from the next course title: *File permissions*). Verify that permissions work as intended and take screenshot from several different situations with different users. Important: Owner and group permissions can be set to be equal and other users should have permissions if needed (check the image for**

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other permissions)! Owner and group for each object is presented with

colored user

icon.