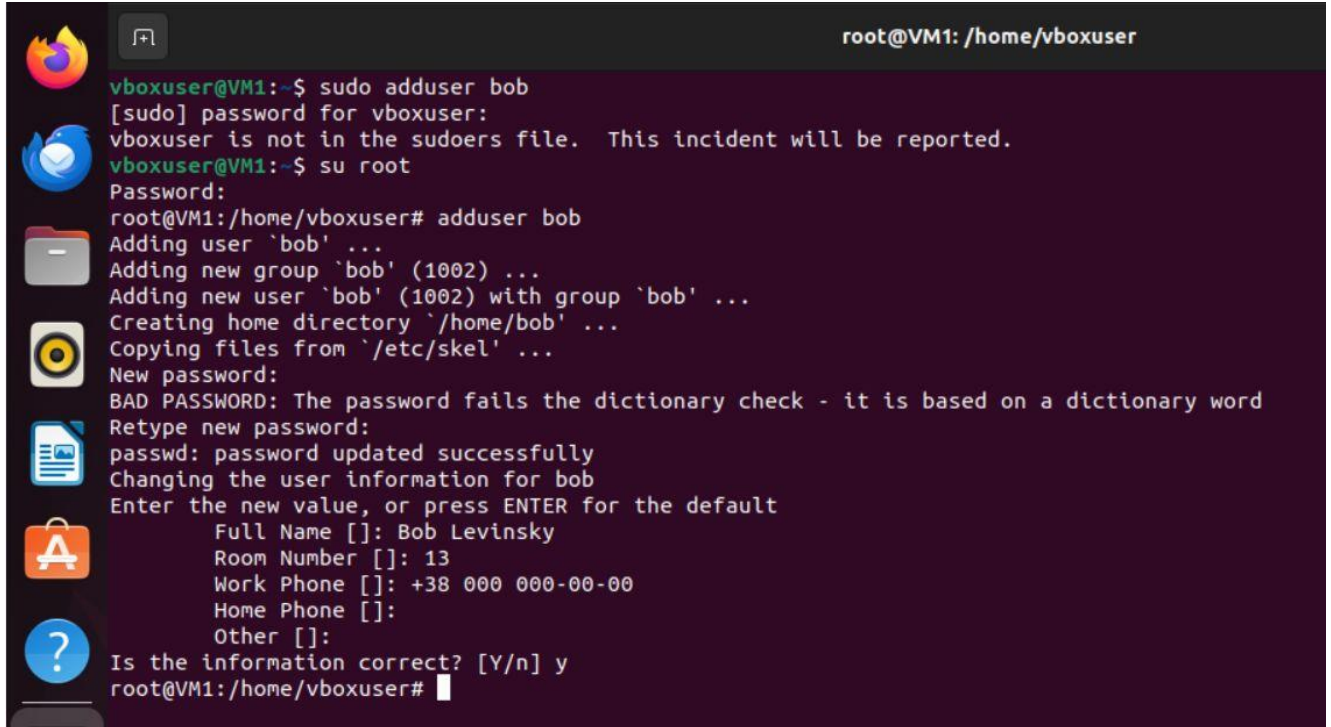


HW 5

1. Створіть користувача з іменем "bob".

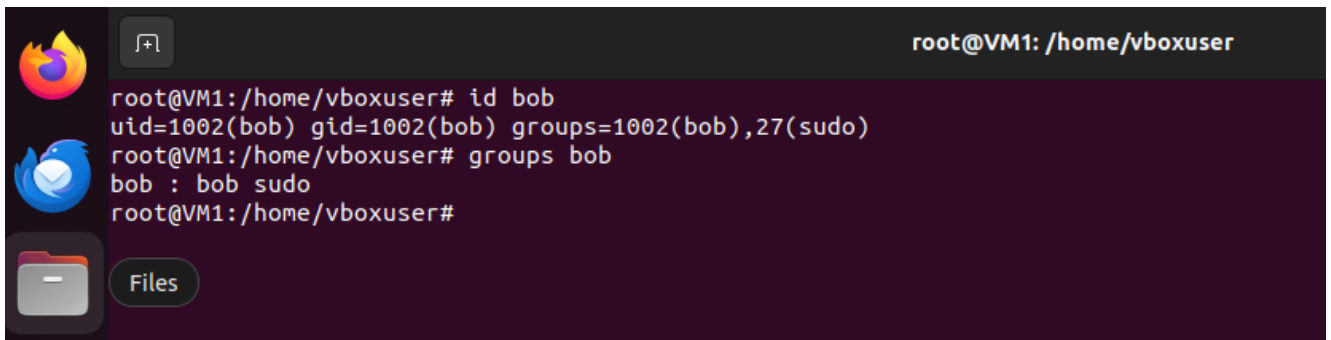
A terminal window titled 'root@VM1: /home/vboxuser' showing the process of creating a new user 'bob'. The user 'vboxuser' runs 'sudo adduser bob'. A message indicates 'vboxuser is not in the sudoers file. This incident will be reported.' Then 'vboxuser' runs 'su root'. The root user runs 'adduser bob'. The process includes adding a new group 'bob' (1002), adding a new user 'bob' (1002) with group 'bob', creating a home directory '/home/bob', and copying files from '/etc/skel'. A password is set, but it fails the dictionary check. The password is updated successfully. The user information for 'bob' is displayed, including full name, room number, and phone numbers. The information is confirmed as correct.

```
root@VM1: /home/vboxuser
vboxuser@VM1:~$ sudo adduser bob
[sudo] password for vboxuser:
vboxuser is not in the sudoers file. This incident will be reported.
vboxuser@VM1:~$ su root
Password:
root@VM1:/home/vboxuser# adduser bob
Adding user `bob' ...
Adding new group `bob' (1002) ...
Adding new user `bob' (1002) with group `bob' ...
Creating home directory `/home/bob' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password fails the dictionary check - it is based on a dictionary word
Retype new password:
passwd: password updated successfully
Changing the user information for bob
Enter the new value, or press ENTER for the default
  Full Name []: Bob Levinsky
   Room Number []: 13
   Work Phone []: +38 000 000-00-00
   Home Phone []:
    Other []:
Is the information correct? [Y/n] y
root@VM1:/home/vboxuser#
```

2. Додайте створеного користувача до групи sudo (щоб він міг виконувати команди як адміністратор).

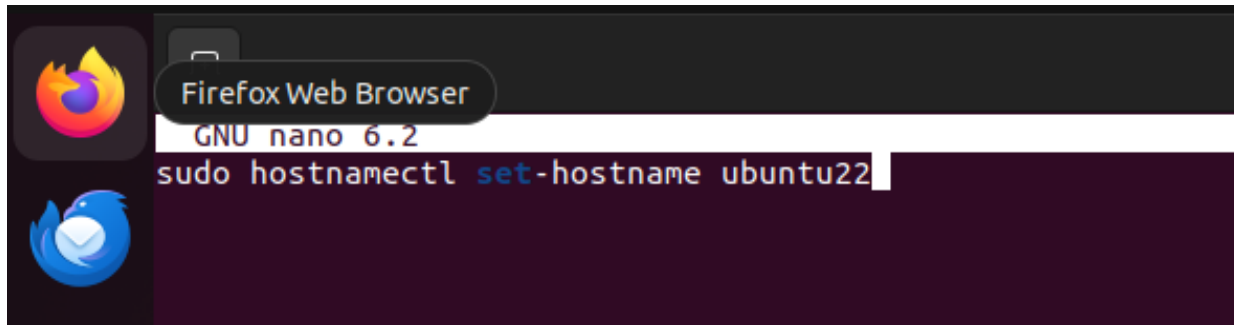
```
usermod -aG sudo bob
```

Перевіряємо:

A terminal window titled 'root@VM1: /home/vboxuser' showing the user information for 'bob'. The root user runs 'id bob', which shows 'uid=1002(bob) gid=1002(bob) groups=1002(bob),27(sudo)'. Then 'root' runs 'groups bob', which shows 'bob : bob sudo'.

```
root@VM1:/home/vboxuser# id bob
uid=1002(bob) gid=1002(bob) groups=1002(bob),27(sudo)
root@VM1:/home/vboxuser# groups bob
bob : bob sudo
root@VM1:/home/vboxuser#
```

3. Створіть сценарій у каталозі /home/bob/, який під час виконання змінить ім'я хоста для "ubuntu22". Атрибути виконання сценарію повинні бути встановлені виключно для користувача "bob".



4. Запустіть сценарій. Перезавантажте систему. Увійти в систему як "bob" користувача.

```
chmod u+x /home/bob/change_hostname.sh
```

```
./change_hostname.sh
```

Далі

```
exit
```

Залогінюємось під bob

Перевіряємо:



5. Встановіть "nginx". Перевірте, чи працює nginx, а також використовуйте netstat, щоб побачити, які порти є ВІДЧИНЕНО.

Установка nginx:

```
Activities Terminal kbi 30 00:48 root@ubuntu22: /home/vboxuser

root@ubuntu22:/home/vboxuser# apt update
Ign:1 http://ru.archive.ubuntu.com/ubuntu jammy InRelease
Ign:2 http://ru.archive.ubuntu.com/ubuntu jammy-updates InRelease
Ign:3 http://ru.archive.ubuntu.com/ubuntu jammy-backports InRelease
Err:4 http://ru.archive.ubuntu.com/ubuntu jammy Release
  404 Not Found [IP: 213.180.204.183 80]
Err:5 http://ru.archive.ubuntu.com/ubuntu jammy-updates Release
  404 Not Found [IP: 213.180.204.183 80]
Err:6 http://ru.archive.ubuntu.com/ubuntu jammy-backports Release
  404 Not Found [IP: 213.180.204.183 80]
Hit:7 http://security.ubuntu.com/ubuntu jammy-security InRelease
Reading package lists... Done
E: The repository 'http://ru.archive.ubuntu.com/ubuntu jammy Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
E: The repository 'http://ru.archive.ubuntu.com/ubuntu jammy-updates Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
E: The repository 'http://ru.archive.ubuntu.com/ubuntu jammy-backports Release' does not have a Release file.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
root@ubuntu22:/home/vboxuser# apt install nginx
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx-common nginx-core
Suggested packages:
  fcgiwrap nginx-doc
The following NEW packages will be installed:
  libnginx-mod-http-geoip2 libnginx-mod-http-image-filter libnginx-mod-http-xslt-filter libnginx-mod-mail libnginx-mod-stream
  libnginx-mod-stream-geoip2 nginx nginx-common nginx-core
0 upgraded, 9 newly installed, 0 to remove and 2 not upgraded.
Need to get 696 kB of archives.
After this operation, 2 395 kB of additional disk space will be used.
Do you want to continue? [Y/n]
```

```
Activities Terminal kbi 30 00:48 root@ubuntu22: /home/vboxuser

Selecting previously unselected package libnginx-mod-http-geoip2.
Preparing to unpack .../1-libnginx-mod-http-geoip2_1.18.0-6ubuntu14.3_amd64.deb ...
Unpacking libnginx-mod-http-geoip2 (1.18.0-6ubuntu14.3) ...
Selecting previously unselected package libnginx-mod-http-image-filter.
Preparing to unpack .../2-libnginx-mod-http-image-filter_1.18.0-6ubuntu14.3_amd64.deb ...
Unpacking libnginx-mod-http-image-filter (1.18.0-6ubuntu14.3) ...
Selecting previously unselected package libnginx-mod-http-xslt-filter.
Preparing to unpack .../3-libnginx-mod-http-xslt-filter_1.18.0-6ubuntu14.3_amd64.deb ...
Unpacking libnginx-mod-http-xslt-filter (1.18.0-6ubuntu14.3) ...
Selecting previously unselected package libnginx-mod-mail.
Preparing to unpack .../4-libnginx-mod-mail_1.18.0-6ubuntu14.3_amd64.deb ...
Unpacking libnginx-mod-mail (1.18.0-6ubuntu14.3) ...
Selecting previously unselected package libnginx-mod-stream.
Preparing to unpack .../5-libnginx-mod-stream_1.18.0-6ubuntu14.3_amd64.deb ...
Unpacking libnginx-mod-stream (1.18.0-6ubuntu14.3) ...
Selecting previously unselected package libnginx-mod-stream-geoip2.
Preparing to unpack .../6-libnginx-mod-stream-geoip2_1.18.0-6ubuntu14.3_amd64.deb ...
Unpacking libnginx-mod-stream-geoip2 (1.18.0-6ubuntu14.3) ...
Selecting previously unselected package nginx-core.
Preparing to unpack .../7-nginx-core_1.18.0-6ubuntu14.3_amd64.deb ...
Unpacking nginx-core (1.18.0-6ubuntu14.3) ...
Selecting previously unselected package nginx.
Preparing to unpack .../8-nginx_1.18.0-6ubuntu14.3_amd64.deb ...
Unpacking nginx (1.18.0-6ubuntu14.3) ...
Setting up nginx-common (1.18.0-6ubuntu14.3) ...
Created symlink /etc/systemd/system/multi-user.target.wants/nginx.service → /lib/systemd/system/nginx.service.
Setting up libnginx-mod-http-xslt-filter (1.18.0-6ubuntu14.3) ...
Setting up libnginx-mod-http-geoip2 (1.18.0-6ubuntu14.3) ...
Setting up libnginx-mod-mail (1.18.0-6ubuntu14.3) ...
Setting up libnginx-mod-http-image-filter (1.18.0-6ubuntu14.3) ...
Setting up libnginx-mod-stream (1.18.0-6ubuntu14.3) ...
Setting up libnginx-mod-stream-geoip2 (1.18.0-6ubuntu14.3) ...
Setting up nginx-core (1.18.0-6ubuntu14.3) ...
* Upgrading binary nginx
Setting up nginx (1.18.0-6ubuntu14.3) ...
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for ufw (0.36.1-4ubuntu0.1) ...
root@ubuntu22:/home/vboxuser#
```

Перевірка статусу nginx:

```
root@ubuntu22: /home/vboxuser
root@ubuntu22:/home/vboxuser# systemctl status nginx
● nginx.service - A high performance web server and a reverse proxy server
   Loaded: loaded (/lib/systemd/system/nginx.service; enabled; vendor preset: enabled)
   Active: active (running) since Tue 2024-04-30 00:48:22 EEST; 1min 8s ago
     Docs: man:nginx(8)
   Process: 24154 ExecStartPre=/usr/sbin/nginx -t -q -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
   Process: 24155 ExecStart=/usr/sbin/nginx -g daemon on; master_process on; (code=exited, status=0/SUCCESS)
  Main PID: 24251 (nginx)
    Tasks: 7 (limit: 28447)
   Memory: 7.0M
      CPU: 38ms
   CGroup: /system.slice/nginx.service
           └─24251 "nginx: master process /usr/sbin/nginx -g daemon on; master_process on;"
             └─24253 "nginx: worker process"
               └─24254 "nginx: worker process"
                 └─24255 "nginx: worker process"
                   └─24256 "nginx: worker process"
                     └─24257 "nginx: worker process"
                       └─24258 "nginx: worker process"

кві 30 00:48:22 ubuntu22 systemd[1]: Starting A high performance web server and a reverse proxy server...
кві 30 00:48:22 ubuntu22 systemd[1]: Started A high performance web server and a reverse proxy server.
root@ubuntu22:/home/vboxuser#
```

Перевірка відкритих портів за допомогою netstat:

```
Firefox Web Browser
root@ubuntu22: /home/vboxuser/Downloads
root@ubuntu22:/home/vboxuser/Downloads# netstat -tuln
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 127.0.0.1:631            0.0.0.0:*               LISTEN
tcp        0      0 127.0.0.53:53            0.0.0.0:*               LISTEN
tcp        0      0 0.0.0.0:80               0.0.0.0:*               LISTEN
tcp6       0      0 :::1:631                  :::*                    LISTEN
tcp6       0      0 :::80                     :::*                    LISTEN
udp        0      0 127.0.0.53:53            0.0.0.0:*               LISTEN
udp        0      0 0.0.0.0:631              0.0.0.0:*               LISTEN
udp        0      0 0.0.0.0:5353              0.0.0.0:*               LISTEN
udp        0      0 0.0.0.0:55910             0.0.0.0:*               LISTEN
udp6       0      0 :::5353                   :::*                    LISTEN
udp6       0      0 :::54632                   :::*                    LISTEN
root@ubuntu22:/home/vboxuser/Downloads#
```