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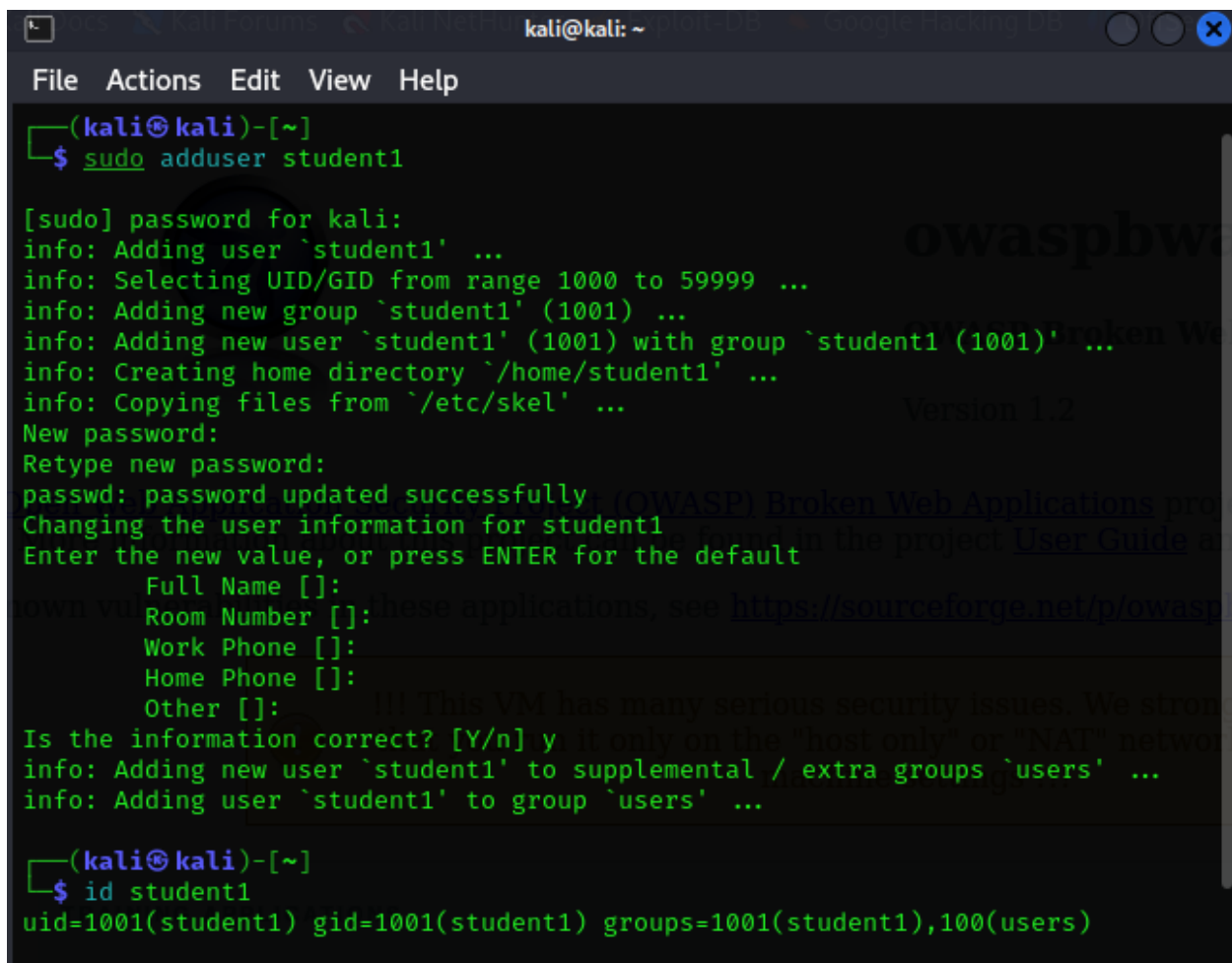
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INT305: Network Security and Protocols – Lab 1: User Management

Secure account management is critical in operating systems as it ensures the integrity, confidentiality, and availability of data and systems. Proper account management helps protect against unauthorized access, mitigates the risk of data breaches, and helps maintain user identity through effective authentication and authorization processes. This is especially important in environments where the operating system manages multiple users and applications, fostering a secure computing environment.

A new user named student1 was Create using **sudo adduser student1** and this was verified to know whether the user account was created successfully using command **id student1**. This shows the user id



```
kali@kali: ~  
File Actions Edit View Help  
(kali@kali)-[~]  
$ sudo adduser student1  
[sudo] password for kali:  
info: Adding user `student1' ...  
info: Selecting UID/GID from range 1000 to 59999 ...  
info: Adding new group `student1' (1001) ...  
info: Adding new user `student1' (1001) with group `student1' (1001) ...  
info: Creating home directory `/home/student1' ...  
info: Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for student1  
Enter the new value, or press ENTER for the default  
Full Name []:  
Room Number []:  
Work Phone []:  
Home Phone []:  
Other []:  
!!! This VM has many serious security issues. We strongly recommend you only use it on the "host only" or "NAT" network.  
Is the information correct? [Y/n] y  
info: Adding new user `student1' to supplemental / extra groups `users' ...  
info: Adding user `student1' to group `users' ...  
(kali@kali)-[~]  
$ id student1  
uid=1001(student1) gid=1001(student1) groups=1001(student1),100(users)
```

```
(kali㉿kali)-[~]
$ sudo passwd student1
New password:
Retype new password:
passwd: password updated successfully

(kali㉿kali)-[~]
$ sudo groupadd students

(kali㉿kali)-[~]
$ sudo usermod -aG students student1

(kali㉿kali)-[~]
$ ps -u student1
PID TTY          TIME CMD

(kali㉿kali)-[~]
$ sudo pkill -u student1

(kali㉿kali)-[~]
$ sudo usermod -L student1

(kali㉿kali)-[~]
$
```

```
(kali㉿kali)-[~]
$ sudo usermod -U student1

(kali㉿kali)-[~]
$ su student1
Password:
(student1㉿kali)-[/home/kali]
$ cd
```

```
(kali㉿kali)-[~]
$ sudo usermod -U student1

(kali㉿kali)-[~]
$ su student1
Password:
(student1㉿kali)-[/home/kali]
$ cd
```

INT305: Lab 2: File and Directory Permissions

A file was created and name manage.txt, ls -l command is used to list the permission of the file and chmod was used to change the file permissions to 755 which gave user read, write and execute, group to read and execute, while others also have read and execute permission on the file.

```
(kali㉿kali)-[~]
$ echo "This is cybersecurity and Digital Forensics">> manage.txt

(kali㉿kali)-[~]
$ ls -l manage.txt
-rw-rw-r-- 1 kali kali 44 Dec 23 15:58 manage.txt

(kali㉿kali)-[~]
$ chmod 755 manage.txt

(kali㉿kali)-[~]
$ ls -l manage.txt
-rwxr-xr-x 1 kali kali 44 Dec 23 15:58 manage.txt

(kali㉿kali)-[~]
$ chmod u+x manage.txt

(kali㉿kali)-[~]
$ ls -l manage.txt
-rwxr-xr-x 1 kali kali 44 Dec 23 15:58 manage.txt

(kali㉿kali)-[~]
$
```

Sudo chown owner: group group-name directory name, was used to change owner and group of a folder called project to student1 and students.

Example: sudo chown student: students project

```
(kali㉿kali)-[~]  
$ sudo chown student1:students project
```

```
(kali㉿kali)-[~]oat  
$ ls -l
```

```
total 44  
drwxr-xr-x 2 kali      kali      4096 Dec 23 09:38 Desktop  
drwxr-xr-x 2 kali      kali      4096 Dec 23 09:38 Documents  
drwxr-xr-x 2 kali      kali      4096 Dec 23 09:38 Downloads  
-rwxr-xr-x 1 kali      kali        44 Dec 23 15:58 manage.txt  
drwxr-xr-x 2 kali      kali      4096 Dec 23 09:38 Music  
drwxrwxr-x 2 kali      kali      4096 Dec 23 16:14 myfolder  
drwxr-xr-x 2 kali      kali      4096 Dec 23 09:38 Pictures  
drwxr-xr-x 2 student1 students 4096 Dec 23 16:16 project  
drwxr-xr-x 2 kali      kali      4096 Dec 23 09:38 Public  
drwxr-xr-x 2 kali      kali      4096 Dec 23 09:38 Templates  
drwxr-xr-x 2 kali      kali      4096 Dec 23 09:38 Videos
```

```
(kali㉿kali)-[~]  
$ █
```