

Hệ Điều Hành Lab 1

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1)

```
(kali㉿kali)-[~/Desktop/HDH]
$ cd ~

(kali㉿kali)-[~]
$ cd /bin

(kali㉿kali)-[/bin]
$ cd /usr
```

2)

```
(kali㉿kali)-[~/Desktop/HDH]
$ mkdir Myweb

(kali㉿kali)-[~/Desktop/HDH]
$ cd Myweb

(kali㉿kali)-[~/Desktop/HDH/Myweb]
$ mkdir images databases scripts java

(kali㉿kali)-[~/Desktop/HDH/Myweb]
$ cd images

(kali㉿kali)-[~/Desktop/HDH/Myweb/images]
$ mkdir icon background animation
```

```
(kali㉿kali)-[~/Desktop/HDH]
└─$ tree
.
├─ Myweb
│   ├── databases
│   ├── images
│   │   ├── animation
│   │   ├── background
│   │   └── icon
│   ├── java
│   └── scripts
└─ 9 directories, 0 files
```

3)

```
└─$ find -name *.html
./Desktop/pico/2019/dont-use-client-side/index.html
```

```
(kali㉿kali)-[~]
└─$ cp ./Desktop/pico/2019/dont-use-client-side/index.html /home/kali/Desktop/HDH/Myweb

(kali㉿kali)-[~]
└─$ cd /home/kali/Desktop/HDH/Myweb

(kali㉿kali)-[~/Desktop/HDH/Myweb]
└─$ ls
databases  images  index.html  java  scripts
```

4)

```
(kali㉿kali)-[~/Desktop/HDH/Myweb]  
$ mv index.html java/index.html  
  
(kali㉿kali)-[~/Desktop/HDH/Myweb]  
$ ls java  
index.html
```

5)

```
(kali㉿kali)-[~/Desktop/HDH/Myweb]  
$ rmdir scripts  
  
(kali㉿kali)-[~/Desktop/HDH/Myweb]  
$ ls  
databases  images  java
```

6)

```
(kali㉿kali)-[~/Desktop/HDH/Myweb]  
$ chmod 700 databases  
  
(kali㉿kali)-[~/Desktop/HDH/Myweb]  
$ ls -l  
total 12  
drwx----- 2 kali kali 4096 Sep 16 04:15 databases  
drwxrwxr-x 5 kali kali 4096 Sep 16 04:16 images  
drwxrwxr-x 2 kali kali 4096 Sep 16 04:23 java
```

7)

```
└─$ sudo adduser it007
[sudo] password for kali:
info: Adding user `it007' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `it007' (1001) ...
info: Adding new user `it007' (1001) with group `it007 (1001)' ...
info: Creating home directory `/home/it007' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for it007
Enter the new value, or press ENTER for the default
    Full Name []:
    Room Number []:
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] Y
info: Adding new user `it007' to supplemental / extra groups `users' ...
info: Adding user `it007' to group `users' ...
```

```
└─(kali㉿kali)-[~]
└─$ sudo passwd it007
New password:
Retype new password:
passwd: password updated successfully
```

```
└─(kali㉿kali)-[~]
└─$ sudo groupadd HDH
```

```
└─(kali㉿kali)-[~]
└─$ sudo usermod -aG HDH it007
```


Bài tập ôn tập

1)

```
└─$ sudo adduser --allow-bad-names User1
info: Allowing use of questionable username.
info: Adding user `User1' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `User1' (1003) ...
info: Adding new user `User1' (1003) with group `User1 (1003)' ...
info: Creating home directory `/home/User1' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for User1
Enter the new value, or press ENTER for the default
    Full Name []: User1
    Room Number []: User1
    Work Phone []: User1
    Home Phone []: User1
    Other []: User1
Is the information correct? [Y/n] Y
info: Adding new user `User1' to supplemental / extra groups `users' ...
info: Adding user `User1' to group `users' ...
```

```
└─$ sudo adduser --allow-bad-names User2
info: Allowing use of questionable username.
info: Adding user `User2' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `User2' (1004) ...
info: Adding new user `User2' (1004) with group `User2 (1004)' ...
info: Creating home directory `/home/User2' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for User2
Enter the new value, or press ENTER for the default
    Full Name []: User2
    Room Number []: User2
    Work Phone []: User2
    Home Phone []: User2
    Other []: User2
Is the information correct? [Y/n] Y
info: Adding new user `User2' to supplemental / extra groups `users' ...
info: Adding user `User2' to group `users' ...
```

```
└─$ sudo adduser --allow-bad-names User3
info: Allowing use of questionable username.
info: Adding user `User3' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `User3' (1005) ...
info: Adding new user `User3' (1005) with group `User3 (1005)' ...
info: Creating home directory `/home/User3' ...
info: Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for User3
Enter the new value, or press ENTER for the default
    Full Name []: User3
    Room Number []: User3
    Work Phone []: User3
    Home Phone []: User3
    Other []: User3
Is the information correct? [Y/n] Y
info: Adding new user `User3' to supplemental / extra groups `users' ...
info: Adding user `User3' to group `users' ...
```

a. Khái niệm chuyển user:

- Trong hệ điều hành Linux/Ubuntu, chuyển user nghĩa là thay đổi từ tài khoản người dùng hiện tại sang tài khoản người dùng khác mà không cần đăng xuất hoàn toàn khỏi hệ thống.
- Lệnh su (substitute user) hoặc sudo cho phép bạn thực hiện quyền của một user khác hoặc chuyển sang tài khoản của một user khác mà không cần đăng xuất.

b.

```
(kali㉿kali)-[~]
└─$ su - User1
Password:
(User1㉿kali)-[~]
└─$ █
```

```
(User1@kali)-[/tmp]  
$ chmod 700 /tmp/test_permission.txt
```

```
(User1@kali)-[/tmp]  
$ ls -la | grep test_permission.txt  
-rwx----- 1 User1 User1 31 Sep 29 09:53 test_permission.txt
```

```
(User1@kali)-[~]  
$ setfacl -m u:User2:r-- /tmp/test_permission.txt
```

```
(User1@kali)-[~]  
$ setfacl -m u:User3:--- /tmp/test_permission.txt
```

```
(User1@kali)-[~]  
$ su - User2  
Password:
```

```
(User2@kali)-[~]
```

C.

```
(User2@kali)-[/tmp]
$ ls -la | grep test_permission.txt
-rwxr-----+ 1 User1 User1 31 Sep 29 09:53 test_permission.txt

(User2@kali)-[/tmp]
$ su - User3
Password:
(User3@kali)-[~]
$ cd /tmp

(User3@kali)-[/tmp]
$ ls -la | grep test_permission.txt
-rwxr-----+ 1 User1 User1 31 Sep 29 09:53 test_permission.txt
```

```
(User3@kali)-[/tmp]
$ su - User2
Password:
(User2@kali)-[~]
$ cd /tmp

(User2@kali)-[/tmp]
$ cat test_permission.txt
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(User2@kali)-[/tmp]
$ echo 'hello world' > test_permission.txt
-bash: test_permission.txt: Permission denied

(User2@kali)-[/tmp]
$ █
```



```
(User2@kali)-[/tmp]
```

```
$ su - User3
```

```
Password:
```

```
(User3@kali)-[~]
```

```
$ cd /tmp
```

```
(User3@kali)-[/tmp]
```

```
$ cat test_permission.txt
```

```
cat: test_permission.txt: Permission denied
```

```
(User3@kali)-[/tmp]
```

```
$ echo 'hello world' > test_permission.txt
```

```
-bash: test_permission.txt: Permission denied
```

```
(User3@kali)-[/tmp]
```

```
$ █
```