

# Experiment 1

B22041026 刘宇凡

## (1) Directory Operation

```
ubuntu@VM-12-13-ubuntu: ~/B22041026

ubuntu@VM-12-13-ubuntu:~$ ls
glibc-all-in-one go local_proxy.sh Pentest Pwn pwndbg Pwngdb script Service www
ubuntu@VM-12-13-ubuntu:~$ pwd
/home/ubuntu
ubuntu@VM-12-13-ubuntu:~$ cd ~
ubuntu@VM-12-13-ubuntu:~$ ls
glibc-all-in-one go local_proxy.sh Pentest Pwn pwndbg Pwngdb script Service www
ubuntu@VM-12-13-ubuntu:~$ mkdir B22041026
ubuntu@VM-12-13-ubuntu:~$ cd B22041026/
ubuntu@VM-12-13-ubuntu:~/B22041026$ mkdir 刘宇凡
ubuntu@VM-12-13-ubuntu:~/B22041026$ ls
刘宇凡
ubuntu@VM-12-13-ubuntu:~/B22041026$ rmdir 刘宇凡
ubuntu@VM-12-13-ubuntu:~/B22041026$ ls
ubuntu@VM-12-13-ubuntu:~/B22041026$ _
```

## (2) File Operation

```
ubuntu@VM-12-13-ubuntu: ~  
ubuntu@VM-12-13-ubuntu:~$ cd ~  
ubuntu@VM-12-13-ubuntu:~$ touch 刘宇凡.txt  
ubuntu@VM-12-13-ubuntu:~$ ls  
glibc-all-in-one go local_proxy.sh Pentest Pwn pwndbg Pwngdb script Service www 刘宇凡.txt  
ubuntu@VM-12-13-ubuntu:~$ echo "hello world" > 刘宇凡.txt  
ubuntu@VM-12-13-ubuntu:~$ cat 刘宇凡.txt  
hello world  
ubuntu@VM-12-13-ubuntu:~$ cp 刘宇凡.txt 刘宇凡2.txt  
ubuntu@VM-12-13-ubuntu:~$ mv 刘宇凡.txt B22041026.txt  
ubuntu@VM-12-13-ubuntu:~$ ls  
B22041026.txt go Pentest pwndbg script www  
glibc-all-in-one local_proxy.sh Pwn Pwngdb Service 刘宇凡2.txt  
ubuntu@VM-12-13-ubuntu:~$ _
```

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### (3) User Management

```

B22041026@VM-12-13-ubuntu: ~

ubuntu@VM-12-13-ubuntu:~$ whoami
ubuntu
ubuntu@VM-12-13-ubuntu:~$ sudo su root
root@VM-12-13-ubuntu:/home/ubuntu# groupadd student
root@VM-12-13-ubuntu:/home/ubuntu# whoami
root
root@VM-12-13-ubuntu:/home/ubuntu# adduser B22041026
adduser: Please enter a username matching the regular expression configured
via the NAME_REGEX[_SYSTEM] configuration variable. Use the '--force-badname'
option to relax this check or reconfigure NAME_REGEX.
root@VM-12-13-ubuntu:/home/ubuntu# adduser B22041026 --force-badname
Allowing use of questionable username.
Adding user `B22041026' ...
Adding new group `B22041026' (1003) ...
Adding new user `B22041026' (1002) with group `B22041026' ...
Creating home directory `/home/B22041026' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for B22041026
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]
root@VM-12-13-ubuntu:/home/ubuntu# usermod -g student B22041026
root@VM-12-13-ubuntu:/home/ubuntu# su B22041026
B22041026@VM-12-13-ubuntu:/home/ubuntu$ cd ~
B22041026@VM-12-13-ubuntu:~$ touch 刘宇凡.txt
B22041026@VM-12-13-ubuntu:~$ ls -l
total 0
-rw-r--r-- 1 B22041026 student 0 Dec 13 11:48 刘宇凡.txt
B22041026@VM-12-13-ubuntu:~$
```

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## (4) Permission Management

```
ubuntu@VM-12-13-ubuntu: ~  
ubuntu@VM-12-13-ubuntu:~$ touch demo  
ubuntu@VM-12-13-ubuntu:~$ chmod 777 demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
-rwxrwxrwx 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$ chmod a-x demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
-rw-rw-rw- 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$ chmod go-w demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
-rw-r--r-- 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$ chmod g+w demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
-rw-rw-r-- 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$ chmod a= demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
----- 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$ chmod +t demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
-----T 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$ chmod u+s demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
---S-----T 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$ chmod u+rx demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
-r-s-----T 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$ chmod g+rws demo  
ubuntu@VM-12-13-ubuntu:~$ ls -l demo  
-r-srws--T 1 ubuntu ubuntu 0 Dec 13 11:49 demo  
ubuntu@VM-12-13-ubuntu:~$
```

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## (5) Other Management

```
ubuntu@VM-12-13-ubuntu: ~  
ubuntu@VM-12-13-ubuntu:~$ mkdir others  
ubuntu@VM-12-13-ubuntu:~$ cd others/  
ubuntu@VM-12-13-ubuntu:~/others$ echo a > a.txt  
ubuntu@VM-12-13-ubuntu:~/others$ echo b > b.txt  
ubuntu@VM-12-13-ubuntu:~/others$ cd ..  
ubuntu@VM-12-13-ubuntu:~$ tar -czvf backup.tar.gz others/  
others/  
others/b.txt  
others/a.txt  
ubuntu@VM-12-13-ubuntu:~$ ls -l backup.tar.gz  
-rw-rw-r-- 1 ubuntu ubuntu 171 Dec 13 11:51 backup.tar.gz  
ubuntu@VM-12-13-ubuntu:~$ tar -zxvf backup.tar.gz  
others/  
others/b.txt  
others/a.txt  
ubuntu@VM-12-13-ubuntu:~$ ls -l others/  
total 8  
-rw-rw-r-- 1 ubuntu ubuntu 2 Dec 13 11:50 a.txt  
-rw-rw-r-- 1 ubuntu ubuntu 2 Dec 13 11:50 b.txt  
ubuntu@VM-12-13-ubuntu:~$
```

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```
ubuntu@VM-12-13-ubuntu: ~  
ubuntu@VM-12-13-ubuntu:~$ cat > textfile <<EOF  
> no, I study in njupt.  
this line ends with 00  
this line ends with .00  
I am 25 years old.  
He is 15. It is 16.00  
wy is the short of my name  
> EOF  
ubuntu@VM-12-13-ubuntu:~$ cat textfile  
no, I study in njupt.  
this line ends with 00  
this line ends with .00  
I am 25 years old.  
He is 15. It is 16.00  
wy is the short of my name  
ubuntu@VM-12-13-ubuntu:~$ grep '^n' textfile  
no, I study in njupt.  
ubuntu@VM-12-13-ubuntu:~$ grep '.00$' textfile  
this line ends with 00  
this line ends with .00  
He is 15. It is 16.00  
ubuntu@VM-12-13-ubuntu:~$ grep '5\.. ' textfile  
He is 15. It is 16.00  
ubuntu@VM-12-13-ubuntu:~$ grep '^[wy]' textfile  
wy is the short of my name  
ubuntu@VM-12-13-ubuntu:~$ _
```

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