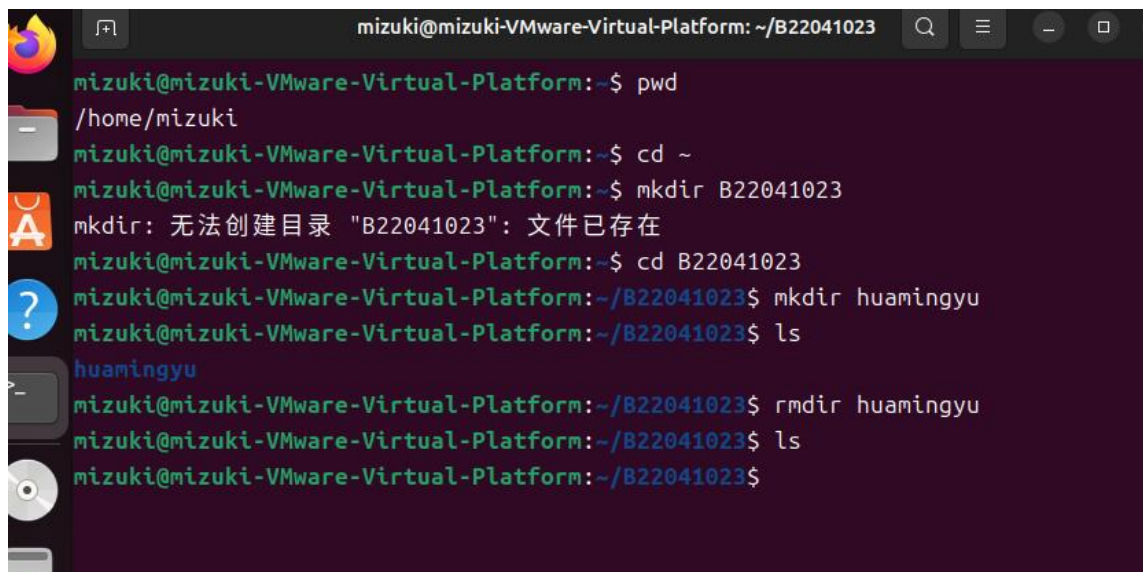


(1) Directory Operation

Enter the following commands in sequence:

```
$pwd
$cd ~
$mkdir your_studentID
$cd your_studentID
$mkdir your_name
$ls
$rmkdir your_name
$ls
```

A terminal window titled 'mizuki@mizuki-VMware-Virtual-Platform: ~/B22041023' with standard window controls. The terminal shows a sequence of commands and their outputs: 'pwd' returns '/home/mizuki'; 'cd ~' changes the directory to the home directory; 'mkdir B22041023' fails with the message 'mkdir: 无法创建目录 "B22041023": 文件已存在'; 'cd B22041023' changes the directory to '/B22041023'; 'mkdir huamingyu' successfully creates the directory; 'ls' lists the directory contents, showing 'huamingyu'; 'rmkdir huamingyu' is entered but produces no output; another 'ls' is entered but produces no output; and the session ends with a final '\$' prompt.

```
mizuki@mizuki-VMware-Virtual-Platform:~$ pwd
/home/mizuki
mizuki@mizuki-VMware-Virtual-Platform:~$ cd ~
mizuki@mizuki-VMware-Virtual-Platform:~$ mkdir B22041023
mkdir: 无法创建目录 "B22041023": 文件已存在
mizuki@mizuki-VMware-Virtual-Platform:~$ cd B22041023
mizuki@mizuki-VMware-Virtual-Platform:~/B22041023$ mkdir huamingyu
mizuki@mizuki-VMware-Virtual-Platform:~/B22041023$ ls
huamingyu
mizuki@mizuki-VMware-Virtual-Platform:~/B22041023$ rmkdir huamingyu
mizuki@mizuki-VMware-Virtual-Platform:~/B22041023$ ls
mizuki@mizuki-VMware-Virtual-Platform:~/B22041023$
```

(2) File operation

Enter the following commands in sequence:

```
$pwd
$cd ~
$mkdir your_studentID
$cd your_studentID
$mkdir your_name
$ls
$rmkdir your_name
$ls
$cd ~
$touch yourname.txt
$ls
```

\$echo "hello world" > yourname.txt

\$cat yourname.txt

\$cp yourname.txt yourname2.txt

\$mv yourname.txt yourstudentid.txt

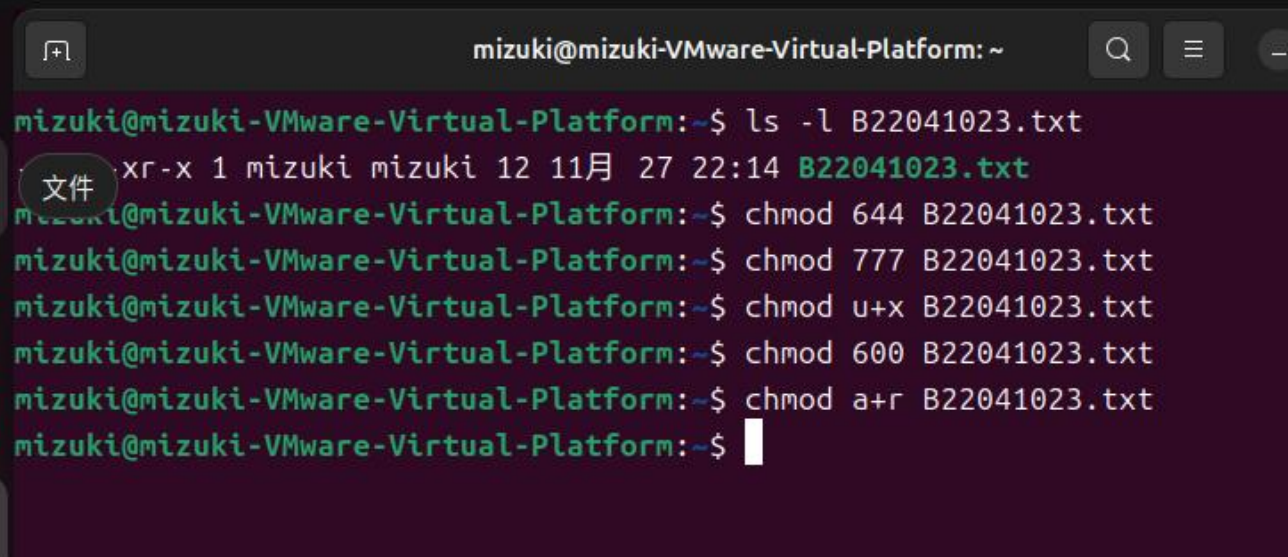
\$ls

```
mizuki@mizuki-VMware-Virtual-Platform: ~  
mizuki@mizuki-VMware-Virtual-Platform:~$ cd ~  
mizuki@mizuki-VMware-Virtual-Platform:~$ touch huamingyu.txt  
mizuki@mizuki-VMware-Virtual-Platform:~$ ls  
2      B22041023      huamingyu.txt      rsa_1024_private.pem  
4_1    B22041023.txt      lincoln.txt        rsa_1024_public.pem  
4_1.c  cbc_no_base64.bin  modified_cipher.txt rsa_2048_private.pem  
公共   cbc_with_base64.txt plainte             rsa_2048_public.pem  
模板   cipher_modified.txt plaintext.txt       signature.sha256  
视频   cipher.txt         plaintext.txt~     snap  
图片   command_injection_demo private_key_1024.pem sql_injection  
文档   decrypted_lincoln.txt private_key.pem    sql_injection.cpp  
下载   ecb_no_base64.bin  process_image     test.db  
音乐   ecb_with_base64.txt process_image.c   your  
桌面   hello.cpp         public_key.pem    your_studentID  
mizuki@mizuki-VMware-Virtual-Platform:~$ echo "hello world" > huamingyu.txt  
mizuki@mizuki-VMware-Virtual-Platform:~$ cat huamingyu.txt  
hello world  
mizuki@mizuki-VMware-Virtual-Platform:~$ cp huamingyu.txt hmy2.txt  
mizuki@mizuki-VMware-Virtual-Platform:~$ mv huamingyu.txt 1023.txt  
mizuki@mizuki-VMware-Virtual-Platform:~$ ls  
1023.txt B22041023      lincoln.txt      rsa_2048_private.pem  
2      B22041023.txt      modified_cipher.txt rsa_2048_public.pem  
4_1    cbc_no_base64.bin  plainte          signature.sha256  
4_1.c  cbc_with_base64.txt plaintext.txt     snap  
公共   cipher_modified.txt plaintext.txt~    sql_injection  
模板   cipher.txt         private_key_1024.pem sql_injection.cpp  
视频   command_injection_demo private_key.pem  test.db  
图片   decrypted_lincoln.txt process_image     your  
文档   ecb_no_base64.bin  process_image.c  your_studentID  
下载   ecb_with_base64.txt public_key.pem  
音乐   hello.cpp         rsa_1024_private.pem
```

(3)User Management

```
mizuki
mizuki@mizuki-VMware-Virtual-Platform:~$ sudo su root
[sudo] mizuki 的密码:
root@mizuki-VMware-Virtual-Platform:/home/mizuki# groupadd stu
root@mizuki-VMware-Virtual-Platform:/home/mizuki# whoami
root
root@mizuki-VMware-Virtual-Platform:/home/mizuki# sudo adduser aa
info: 正在添加用户"aa"...
info: 从 1000 到 59999 中选择 UID/GID...
info: 正在添加新组"aa" (1002)...
info: 正在添加新用户"aa" (1002) 到组"aa (1002)"...
info: 创建主目录"/home/aa"...
info: 正在从"/etc/skel"复制文件...
新的密码:
重新输入新的密码:
passwd: 已成功更新密码
正在改变 aa 的用户信息
请输入新值, 或直接敲回车键以使用默认值
    全名 [: www
    房间号码 [: 111
    工作电话 [: 123
    家庭电话 [: 12345
    其它 [: 11
这些信息是否正确? [Y/n] y
info: 正在添加新用户"aa"到附加组"users" ...
info: 正在添加用户"aa"到"users"组...
root@mizuki-VMware-Virtual-Platform:/home/mizuki#
```

(4) Permission management



A terminal window titled "mizuki@mizuki-VMware-Virtual-Platform: ~" with a search icon and a menu icon in the top right. The terminal shows the following commands and output:

```
mizuki@mizuki-VMware-Virtual-Platform:~$ ls -l B22041023.txt
-r-x 1 mizuki mizuki 12 11月 27 22:14 B22041023.txt
mizuki@mizuki-VMware-Virtual-Platform:~$ chmod 644 B22041023.txt
mizuki@mizuki-VMware-Virtual-Platform:~$ chmod 777 B22041023.txt
mizuki@mizuki-VMware-Virtual-Platform:~$ chmod u+x B22041023.txt
mizuki@mizuki-VMware-Virtual-Platform:~$ chmod 600 B22041023.txt
mizuki@mizuki-VMware-Virtual-Platform:~$ chmod a+r B22041023.txt
mizuki@mizuki-VMware-Virtual-Platform:~$
```

A mouse cursor is hovering over the first line of the output, and a tooltip with the text "文件" (File) is visible.