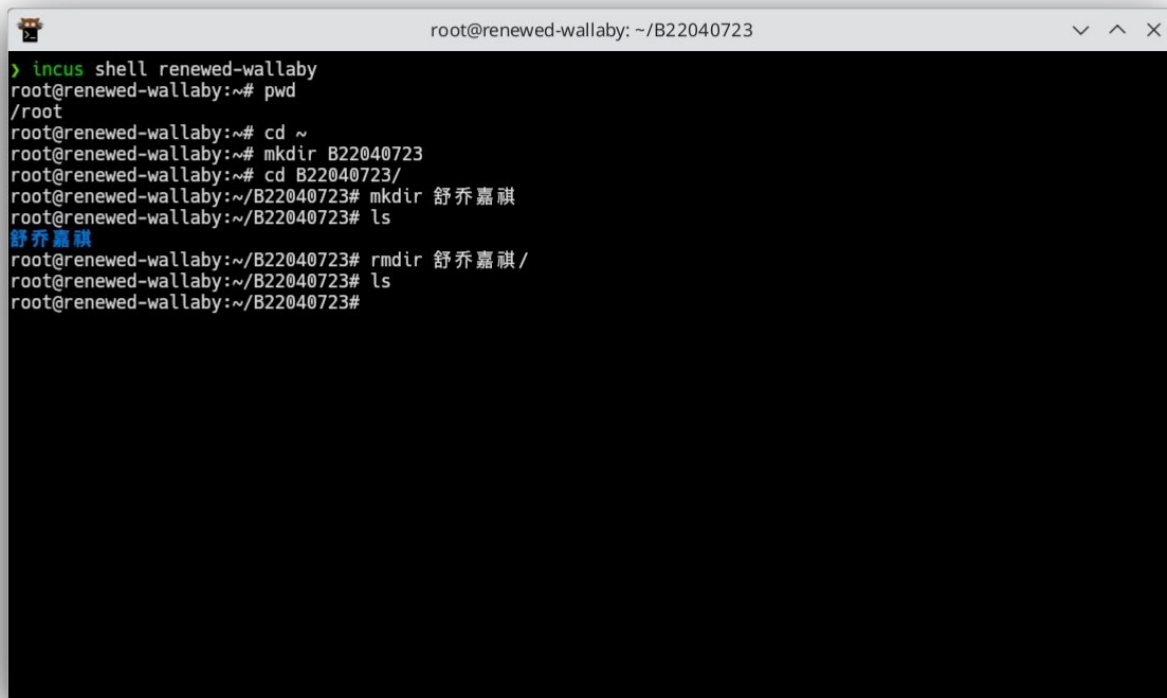


(1) Directory Operation

A terminal window titled 'root@renewed-wallaby: ~/B22040723' with standard window controls. The terminal shows a series of commands and their outputs. The prompt changes from 'root@renewed-wallaby:~#' to 'root@renewed-wallaby:~/B22040723#' after navigating into the directory. The directory '舒乔嘉祺' is created and then removed. The prompt returns to 'root@renewed-wallaby:~/B22040723#'.

```
> incus shell renewed-wallaby
root@renewed-wallaby:~# pwd
/root
root@renewed-wallaby:~# cd ~
root@renewed-wallaby:~# mkdir B22040723
root@renewed-wallaby:~# cd B22040723/
root@renewed-wallaby:~/B22040723# mkdir 舒乔嘉祺
root@renewed-wallaby:~/B22040723# ls
舒乔嘉祺
root@renewed-wallaby:~/B22040723# rmdir 舒乔嘉祺/
root@renewed-wallaby:~/B22040723# ls
root@renewed-wallaby:~/B22040723#
```

(2) File operation

```
root@renewed-wallaby: ~  
root@renewed-wallaby:~/B22040723# cd ~  
root@renewed-wallaby:~# touch 舒乔嘉祺.txt  
root@renewed-wallaby:~# ls  
B22040723 舒乔嘉祺.txt  
root@renewed-wallaby:~# echo "hello world" > 舒乔嘉祺.txt  
root@renewed-wallaby:~# cat  
B22040723/ .bash_history .bashrc .profile .ssh/ 舒乔嘉祺.txt  
root@renewed-wallaby:~# cat  
B22040723/ .bash_history .bashrc .profile .ssh/ 舒乔嘉祺.txt  
root@renewed-wallaby:~# cat 舒乔嘉祺.txt  
hello world  
root@renewed-wallaby:~# mv  
B22040723/ .bash_history .bashrc .profile .ssh/ 舒乔嘉祺.txt  
root@renewed-wallaby:~# cp 舒乔嘉祺.txt 舒乔嘉祺.txt  
cp: '舒乔嘉祺.txt' and '舒乔嘉祺.txt' are the same file  
root@renewed-wallaby:~# cp 舒乔嘉祺.txt 舒乔嘉祺2.txt  
root@renewed-wallaby:~# mv 舒乔嘉祺.txt B22040723.txt  
root@renewed-wallaby:~# ls  
B22040723 B22040723.txt 舒乔嘉祺2.txt  
root@renewed-wallaby:~#
```

(3) User Management

```
B22040723@renewed-wallaby: ~
[--conf file] [--extrausers] [--quiet] [--verbose] [--debug]
group
Add a system group

adduser [--extrausers] USER GROUP
Add an existing user to an existing group
root@renewed-wallaby:~# adduser --gecos B22040723 --allow-bad-names
fatal: Only one or two names allowed.
root@renewed-wallaby:~# adduser --gecos "" B22040723 --allow-bad-names
info: Allowing use of questionable username.
info: Adding user `B22040723' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `B22040723' (1002) ...
info: Adding new user `B22040723' (1002) with group `B22040723 (1002)' ...
warn: The home directory `/home/B22040723' already exists. Not touching this directory.
New password:
Retype new password:
No password has been supplied.
New password:
Retype new password:
passwd: password updated successfully
info: Adding new user `B22040723' to supplemental / extra groups `users' ...
info: Adding user `B22040723' to group `users' ...
root@renewed-wallaby:~# su B22040723
B22040723@renewed-wallaby:/root$ cd ~
B22040723@renewed-wallaby:~$ touch 舒乔嘉祺.txt
B22040723@renewed-wallaby:~$ ls -l
total 0
-rw-rw-r-- 1 B22040723 B22040723 0 Oct 14 02:04 舒乔嘉祺.txt
B22040723@renewed-wallaby:~$
```

(4)Permission management

```
B22040723@renewed-wallaby: ~
B22040723@renewed-wallaby:~$ ./run.sh
chmod 777 demo
-rwxrwxrwx 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod a-x demo
-rw-rw-rw- 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod go-w demo
-rw-r--r-- 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod g+w demo
-rw-rw-r-- 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod a= demo
----- 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod +t demo
-----T 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod u+s demo
---S-----T 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod u+rx demo
-r-s-----T 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod g+rws demo
-r-srws--T 1 B22040723 B22040723 0 Oct 14 02:05 demo
B22040723@renewed-wallaby:~$
```

(5) Other management

```
B22040723@renewed-wallaby: ~
-r-s-----T 1 B22040723 B22040723 0 Oct 14 02:05 demo
chmod g+rws demo
-r-srws--T 1 B22040723 B22040723 0 Oct 14 02:05 demo
B22040723@renewed-wallaby:~$ mkdir others
B22040723@renewed-wallaby:~$ cd others/
B22040723@renewed-wallaby:~/others$ touch a
B22040723@renewed-wallaby:~/others$ touch b
B22040723@renewed-wallaby:~/others$ cd ..
B22040723@renewed-wallaby:~$ tar -czvf backup.tar.gz others/
others/
others/a
others/b
B22040723@renewed-wallaby:~$ ls -l
total 8
-rw-rw-r-- 1 B22040723 B22040723 158 Oct 14 02:10 backup.tar.gz
-r-srws--T 1 B22040723 B22040723 0 Oct 14 02:05 demo
drwxrwxr-x 1 B22040723 B22040723 4 Oct 14 02:10 others
-rwxrwxr-x 1 B22040723 B22040723 144 Oct 14 02:08 run.sh
-rw-rw-r-- 1 B22040723 B22040723 0 Oct 14 02:04 舒乔嘉祺.txt
B22040723@renewed-wallaby:~$ tar -xzvf backup.tar.gz
others/
others/a
others/b
B22040723@renewed-wallaby:~$ ls -l
total 8
-rw-rw-r-- 1 B22040723 B22040723 158 Oct 14 02:10 backup.tar.gz
-r-srws--T 1 B22040723 B22040723 0 Oct 14 02:05 demo
drwxrwxr-x 1 B22040723 B22040723 4 Oct 14 02:10 others
-rwxrwxr-x 1 B22040723 B22040723 144 Oct 14 02:08 run.sh
-rw-rw-r-- 1 B22040723 B22040723 0 Oct 14 02:04 舒乔嘉祺.txt
```

```
B22040723@renewed-wallaby: ~
B22040723@renewed-wallaby:~$ ./run2.sh
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.
$ grep ^n textfile
no, I study in njupt.
$ grep \.00$ textfile
this line ends with .00 He is 15. It is 16.00
$ grep 5\.. textfile
He is 15. It is 16.00
$ grep ^[wy] textfile
wy is the short of my name.
B22040723@renewed-wallaby:~$
```