Linux 第一次实验报告

一、实验环境

腾讯云服务器 CentOS 系统、PuTTY。

二、实验内容

(一) 文件目录操作

文件目录操作的实验截图如图 1 所示。

```
[root@VM-0-2-opencloudos ~]# pwd
/root
[root@VM-0-2-opencloudos ~]# cd ~
[root@VM-0-2-opencloudos ~]# ls
ComputerLab cosfs.sh dnspod.sh install_panel.sh install.sh linux2024 txcdn.sh
[root@VM-0-2-opencloudos ~]# cd B22040815
-bash: cd: B22040815: No such file or directory
[root@VM-0-2-opencloudos ~]# mkdir 陈文浩
[root@VM-0-2-opencloudos ~]# ls
ComputerLab cosfs.sh dnspod.sh install_panel.sh install.sh linux2024 txcdn.sh 陈文浩
[root@VM-0-2-opencloudos ~]# rmdir 陈文治/
[root@VM-0-2-opencloudos ~]# ls
ComputerLab cosfs.sh dnspod_sh install_panel.sh install.sh linux2024 txcdn.sh
```

图 1 文件目录操作实验截图

(二) 文件操作

文件操作的实验截图如图 2 所示。

```
[root@VM-0-2-opencloudos ~]# cd ~
[root@VM-0-2-opencloudos ~]# is

ComputerLab cosfs.sh dnspod.sh install_panel.sh install.sh linux2024 txcdn.sh
[root@VM-0-2-opencloudos ~]# touch 陈文浩.txt
[root@VM-0-2-opencloudos ~]# is

ComputerLab cosfs.sh dnspod.sh install_panel.sh install.sh linux2024 txcdn.sh 陈文浩.txt
[root@VM-0-2-opencloudos ~]# echo "hello world" > 陈文浩.txt
[root@VM-0-2-opencloudos ~]# cat 陈文浩.txt
hello world
[root@VM-0-2-opencloudos ~]# cp 陈文浩.txt ChenWenHao.txt
[root@VM-0-2-opencloudos ~]# is
ChenWenHao.txt ComputerLab cosfs.sh dnspod.sh install_panel.sh install.sh linux2024 txcdn.sh 陈文浩.txt
[root@VM-0-2-opencloudos ~]# mv 陈文浩.txt B22040815陈文浩.txt
[root@VM-0-2-opencloudos ~]# is
B22040815陈文浩.txt ChenWenHao.txt ComputerLab cosfs.sh dnspod.sh install_panel.sh install_panel.sh install.sh linux2024 txcdn.sh
```

图 2 文件操作实验截图

(三) 用户管理

用户管理的实验截图如图 3 所示。

```
[root@VM-0-2-opencloudos ~]# whoami
root
[root@VM-0-2-opencloudos ~]# sudo su root
[root@VM-0-2-opencloudos ~]# groupadd student
[root@VM-0-2-opencloudos ~]# whoami
root
[root@VM-0-2-opencloudos ~]# adduser B22040815
[root@VM-0-2-opencloudos ~]# usermod -g student B22040815
[root@VM-0-2-opencloudos ~]# su B22040815
[B22040815@VM-0-2-opencloudos root]$ cd ~
[B22040815@VM-0-2-opencloudos ~]$ touch ChenWenHao.txt
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
total 0
-rw-r--r- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
[B22040815@VM-0-2-opencloudos ~]$
```

图 3 用户管理操作实验截图

(四) 权限管理

权限管理的实验截图如图 4 所示。

```
[B22040815@VM-0-2-opencloudos \sim]$ touch ChenWenHao.txt [B22040815@VM-0-2-opencloudos \sim]$ 1s -1
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
[B22040815@VM-0-2-opencloudos ~]$ touch demo
[B22040815@VM-0-2-opencloudos ~]$ chmod 777 demo
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
-rwxrwxrwx 1 B22040815 student 0 Dec 9 10:31 de
[B22040815@VM-0-2-opencloudos ~]$ chmod a-x demo
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
-rw-r--- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
-rw-rw-rw- 1 B22040815 student 0 Dec 9 10:31 demo
[B22040815@VM-0-2-opencloudos ~]$ chmod go-w demo
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
total 0
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:31 demo
[B22040815@VM-0-2-opencloudos \sim]$ chmod g+w demo
[B22040815@VM-0-2-opencloudos \sim]$ 1s -1
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
-rw-rw-r-- 1 B22040815 student 0 Dec 9 10:31 demo
[B22040815@VM-0-2-opencloudos ~]$ chmod a= demo
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
[B22040815@VM-0-2-opencloudos ~]$ chmod +t demo
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
-rw-r--r- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
[B22040815@VM-0-2-opencloudos ~]$ chmod u+s demo
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
total 0
[B22040815@VM-0-2-opencloudos ~]$ chmod u+rx demo
B22040815@VM-0-2-opencloudos ~]$ ls -1
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
-r-s----T 1 B22040815 student 0 Dec 9 10:31 demo

[B22040815@VM-0-2-opencloudos ~]$ chmod g+rws demo

[B22040815@VM-0-2-opencloudos ~]$ 1s -1
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
-r-srwS--T 1 B22040815 student 0 Dec 9 10:31 demo
```

图 4 权限管理操作实验截图

(五) 其他管理

其他管理的实验截图如图 5 所示。

```
[B22040815@VM-0-2-opencloudos ~]$ tar -czvf backup.tar.gz others
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
total 8
-rw-r--r-- 1 B22040815 student 124 Dec 9 10:37 backup.tar,gz
-rw-r--r-- 1 B22040815 student 124 Dec 9 10:37 backup.tar.gz
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
-r-srwS--T 1 B22040815 student 0 Dec 9 10:31 demo
drwxr-xr-x 2 B22040815 student 6 Dec 9 10:36 others
[B22040815@VM-0-2-opencloudos ~]$ tar -xzvf backup.tar.gz
others/
[B22040815@VM-0-2-opencloudos ~]$ 1s -1
total 8
-rw-r--r-- 1 B22040815 student 124 Dec 9 10:37 backup.tar,gz
-rw-r--r-- 1 B22040815 student 124 Dec 9 10:37 backup.tar.gz
-rw-r--r-- 1 B22040815 student 0 Dec 9 10:30 ChenWenHao.txt
-r-srwS--T 1 B22040815 student 0 Dec 9 10:31 demo
drwxr-xr-x 2 B22040815 student 6 Dec 9 10:36 others
[B22040815@VM-0-2-opencloudos ~]$ vim demo
[No write since last change]
/bin/bash: line 1: wq: command not found
shell returned 127
Press ENTER or type command to continue
[B22040815@VM-0-2-opencloudos ~]$ vim demo.txt
[B22040815@VM-0-2-opencloudos ~]$ grep '^n' demo.txt
no, I study in njupt.
```

图 5 其他管理操作实验截图

计算机科学与技术 B22040815 陈文浩 2024 年 12 月 9 日