

南京邮电大学

# 实验报告

( 2024 / 2025 学年 第 一 学期 )

课程名称	Linux 编程
实验名称	实验一
实验时间	2024 年 10 月 18 日
指导单位	计算机学院、软件学院、网络空间安全学院
指导教师	王磊

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学院(系)	计算机学院	专 业	信息安全

# 实验报告

## 1. 目录操作

```
mzb@mzb-virtual-machine: ~/b22041007
mzb@mzb-virtual-machine:~$ pwd
/home/mzb
mzb@mzb-virtual-machine:~$ cd ~
mzb@mzb-virtual-machine:~$ mkdir b22041007
mzb@mzb-virtual-machine:~$ cd b22041007
mzb@mzb-virtual-machine:~/b22041007$ mkdir MaoZengBo
mzb@mzb-virtual-machine:~/b22041007$ ls
MaoZengBo
mzb@mzb-virtual-machine:~/b22041007$ rmdir MaoZengBo
mzb@mzb-virtual-machine:~/b22041007$
```

## 2. 文件操作

```
mzb@mzb-virtual-machine:~$ echo "Hello World">MaoZengBo.txt
mzb@mzb-virtual-machine:~$ cat MaoZengBo.txt
Hello World
mzb@mzb-virtual-machine:~$ cp MaoZengBo.txt MaoZengBo2.txt
mzb@mzb-virtual-machine:~$ mv MaoZengBo.txt b22041007.txt
mzb@mzb-virtual-machine:~$ ls
4-13.sh  4-4.sh  b22041007  Desktop  exp2      Pictures  Templates
4-17.sh  4-6.sh  b22041007.txt  Documents  MaoZengBo2.txt  Public    Videos
4-1.sh   4-8.sh  demo        Downloads  Music        snap
```

## 3. 用户管理

```
mzb@mzb-virtual-machine:~$ whoami
mzb
mzb@mzb-virtual-machine:~$ # groupadd studenty
mzb@mzb-virtual-machine:~$ whoami
mzb
mzb@mzb-virtual-machine:~$ # add user b222041007
mzb@mzb-virtual-machine:~$
```

## 4. 权限管理

```
mzb@mzb-virtual-machine:~$ touch demo
mzb@mzb-virtual-machine:~$ chmod 777 demo
mzb@mzb-virtual-machine:~$ ls -l demo
total 80
-rwxrwxr-x 1 mzb mzb 16136 10月 21 13:51 childProcess
-rwxrwxr-x 1 mzb mzb 16136 10月 21 13:52 childProcess2
-rw-rw-r-- 1 mzb mzb 427 10月 21 13:49 childProcess2.c
-rw-rw-r-- 1 mzb mzb 220 10月 18 16:42 childProcess.c
-rwxrwxr-x 1 mzb mzb 16112 10月 18 16:17 helloProcess
-rw-rw-r-- 1 mzb mzb 172 10月 18 16:16 helloProcess.c
-rwxrwxr-x 1 mzb mzb 16152 10月 23 16:47 helloThread
-rw-rw-r-- 1 mzb mzb 282 10月 23 16:46 helloThread.c
```

## 5. 其他操作

```
[b22040926@VM-4-11-centos others]$ tar -czvf backup.tar.gz others
others/
others/backup.tar.gz
others/1.txt
others/2.txt
[b22040926@VM-4-11-centos others]$ ls -l
total 12
-rw-r--r-- 1 b22040926 student 45 Oct 18 08:32 1.tar.gz
-rwxrwxrwx 1 b22040926 student 0 Oct 18 08:31 1.txt
-rwxrwxrwx 1 b22040926 student 0 Oct 18 08:31 2.txt
-rw-r--r-- 1 b22040926 student 256 Oct 18 08:39 backup.tar.gz
drwxr-xr-x 2 root root 4096 Oct 18 08:37 others
[b22040926@VM-4-11-centos others]$ tar -xzvf backup.tar.gz
others/
others/backup.tar.gz
tar: others/backup.tar.gz: Cannot open: File exists
others/1.txt
tar: others/1.txt: Cannot open: File exists
others/2.txt
tar: others/2.txt: Cannot open: File exists
tar: others: Cannot utime: Operation not permitted
tar: Exiting with failure status due to previous errors
[b22040926@VM-4-11-centos others]$ ls -l
total 12
-rw-r--r-- 1 b22040926 student 45 Oct 18 08:32 1.tar.gz
-rwxrwxrwx 1 b22040926 student 0 Oct 18 08:31 1.txt
-rwxrwxrwx 1 b22040926 student 0 Oct 18 08:31 2.txt
-rw-r--r-- 1 b22040926 student 256 Oct 18 08:39 backup.tar.gz
drwxr-xr-x 2 root root 4096 Oct 18 08:37 others
[b22040926@VM-4-11-centos others]$
```



