

# Linux 实验一

## 一、实验目的

Get familiar with the Linux operating system environment through experiments and master the use of basic Linux commands.

## 二、实验要求

Master the permission management of Linux files

Master basic file and directory operations

Linux user management

File compression and archiving

## 三、实验截图

### 1. 直接操作

```
hjk1@hjk1-virtual-machine:~/桌面$ pwd
/home/hjk1/桌面
hjk1@hjk1-virtual-machine:~/桌面$ cd ~
hjk1@hjk1-virtual-machine:~$ mkdir B22040823
hjk1@hjk1-virtual-machine:~$ cd B22040823
hjk1@hjk1-virtual-machine:~/B22040823$ mkdir 胡俊坤
hjk1@hjk1-virtual-machine:~/B22040823$ ls
胡俊坤
hjk1@hjk1-virtual-machine:~/B22040823$ rmdir 胡俊坤
hjk1@hjk1-virtual-machine:~/B22040823$ ls
hjk1@hjk1-virtual-machine:~/B22040823$ ~
```

### 2. 文件操作

```
hjk1@hjk1-virtual-machine:~/桌面$ pwd
/home/hjk1/桌面
hjk1@hjk1-virtual-machine:~/桌面$ cd ~
hjk1@hjk1-virtual-machine:~$ mkdir B22040823
hjk1@hjk1-virtual-machine:~$ cd B22040823
hjk1@hjk1-virtual-machine:~/B22040823$ mkdir 胡俊坤
hjk1@hjk1-virtual-machine:~/B22040823$ ls
胡俊坤
hjk1@hjk1-virtual-machine:~/B22040823$ rmdir 胡俊坤
hjk1@hjk1-virtual-machine:~/B22040823$ ls
hjk1@hjk1-virtual-machine:~/B22040823$ cd ~
hjk1@hjk1-virtual-machine:~$ touch 胡俊坤.txt
hjk1@hjk1-virtual-machine:~$ ls
公共的 胡俊坤.txt 模板 视频 图片 文档 下载 音乐 桌面 B22040823 snap
hjk1@hjk1-virtual-machine:~$ echo "hello world" > 胡俊坤.txt
hjk1@hjk1-virtual-machine:~$ cat 胡俊坤.txt
hello world
hjk1@hjk1-virtual-machine:~$ cp 胡俊坤.txt 胡俊坤2.txt
hjk1@hjk1-virtual-machine:~$ mv 胡俊坤.txt B22040823.txt
hjk1@hjk1-virtual-machine:~$ ls
公共的 胡俊坤2.txt 模板 视频 图片 文档 下载 音乐 桌面 B22040823 B22040823.txt snap
hjk1@hjk1-virtual-machine:~$
```

### 3. 用户管理

```
b22040823@hjk1-virtual-machine:~$ ls -l demo
-rw-rw-rw- 1 b22040823 b22040823 0 10月 14 10:33 demo
b22040823@hjk1-virtual-machine:~$ chmod go-w demo
b22040823@hjk1-virtual-machine:~$ ls -l demo
-rw-r--r-- 1 b22040823 b22040823 0 10月 14 10:33 demo
b22040823@hjk1-virtual-machine:~$ chmod g+w demo
b22040823@hjk1-virtual-machine:~$ ls -l demo
-rw-rw-r-- 1 b22040823 b22040823 0 10月 14 10:33 demo
b22040823@hjk1-virtual-machine:~$ a= demo
找不到命令“demo”，您的意思是：
“deno” 命令来自 Snap 软件包 deno (v1.44.1)
“idemo” 命令来自 Debian 软件包 ivtools-bin (2.0.11d.a1-1build1)
“nemo” 命令来自 Debian 软件包 nemo (5.2.4-1)
“memo” 命令来自 Debian 软件包 memo (1.7.1-4)
输入“snap info <snapname>”以查看更多版本。
b22040823@hjk1-virtual-machine:~$ chmod a= demo
b22040823@hjk1-virtual-machine:~$ ls -l demo
----- 1 b22040823 b22040823 0 10月 14 10:33 demo
b22040823@hjk1-virtual-machine:~$ chmod +t demo
b22040823@hjk1-virtual-machine:~$ ls -l demo
-----T 1 b22040823 b22040823 0 10月 14 10:33 demo
b22040823@hjk1-virtual-machine:~$ chmod u+s demo
b22040823@hjk1-virtual-machine:~$ ls -l demo
---S-----T 1 b22040823 b22040823 0 10月 14 10:33 demo
b22040823@hjk1-virtual-machine:~$ chmod u+rx demo
b22040823@hjk1-virtual-machine:~$ ls -l demo
-r-s-----T 1 b22040823 b22040823 0 10月 14 10:33 demo
b22040823@hjk1-virtual-machine:~$ chmod g+rws demo
b22040823@hjk1-virtual-machine:~$ ls -l demo
-r-srwS--T 1 b22040823 b22040823 0 10月 14 10:33 demo
b22040823@hjk1-virtual-machine:~$
```

### 4. 权限管理

```
others/111/
b22040823@hjk1-virtual-machine:~$ ls -l
总计 8
-rw-rw-r-- 1 b22040823 b22040823 0 10月 14 10:29 胡俊坤.txt
-rw-rw-r-- 1 b22040823 b22040823 147 10月 14 10:48 backup.tar.gz
-r-srwS--T 1 b22040823 b22040823 0 10月 14 10:33 demo
drwxrwxr-x 4 b22040823 b22040823 4096 10月 14 10:47 others
b22040823@hjk1-virtual-machine:~$ tar -xzvf backup.tar.gz
others/
others/222/
others/111/
b22040823@hjk1-virtual-machine:~$ ls -l
总计 8
-rw-rw-r-- 1 b22040823 b22040823 0 10月 14 10:29 胡俊坤.txt
-rw-rw-r-- 1 b22040823 b22040823 147 10月 14 10:48 backup.tar.gz
-r-srwS--T 1 b22040823 b22040823 0 10月 14 10:33 demo
drwxrwxr-x 4 b22040823 b22040823 4096 10月 14 10:47 others
b22040823@hjk1-virtual-machine:~$ mkdir text.txt
b22040823@hjk1-virtual-machine:~$ vim text.txt
b22040823@hjk1-virtual-machine:~$ ls
胡俊坤.txt backup.tar.gz demo others text.txt
b22040823@hjk1-virtual-machine:~$ touch 111.txt
b22040823@hjk1-virtual-machine:~$ ls
111.txt 胡俊坤.txt backup.tar.gz demo others text.txt
b22040823@hjk1-virtual-machine:~$ vim 111.txt
b22040823@hjk1-virtual-machine:~$ cd 111.txt
bash: cd: 111.txt: 不是目录
b22040823@hjk1-virtual-machine:~$ touch 111.txt
b22040823@hjk1-virtual-machine:~$ ls
111.txt 胡俊坤.txt backup.tar.gz demo others text.txt
b22040823@hjk1-virtual-machine:~$ grep '^n' textfile
```