

NETWORKING & SYSTEM ADMINISTRATION LAB

Name: ALLEN S PHILIP

Roll No: 20

Batch: RMCA A

Date: 06/05/2022

Experiment No: 10

Aim

1. Create a directory /RMCA2023A/20MCA136 and create 100 files inside this directory with name Movie1.mp4, Movie2.mp4 Movie100.mp4
2. Create a group AJCE_MCA and a user AJCE_Students with Password Ajce@2022
3. Enable password-less ssh login to the user AJCE_Students.
4. The Group ownership of /RMCA2023A/20MCA136 should go to AJCE_MCA and User ownership to AJCE_Students
5. Give read, write and access permission for all the members except other users.
6. Remove all files containing '7' with single-line command. (Movie7.mp4, Movie17.mp4, etc.)
7. Create a tar file named FiveVals.tar with the only files contains the word '5'.
8. Copy FiveVals.tar to the home path of AJCE_Students

Output Screenshot

[1, 2]

```
Parrot Terminal
File Edit View Search Terminal Help
[allensphilip@SEC-R06]~$
[allensphilip@SEC-R06]~$ mkdir -p /home/allensphilip/MCA/ACN/RMCA2023A/20MCA136
[allensphilip@SEC-R06]~$ tree MCA/ACN/
MCA/ACN/
├── RMCA2023A
│   └── 20MCA136
└── 2 directories, 0 files
[allensphilip@SEC-R06]~$ cd MCA/ACN/RMCA2023A/20MCA136
[allensphilip@SEC-R06]~/MCA/ACN/RMCA2023A/20MCA136$ pwd
/home/allensphilip/MCA/ACN/RMCA2023A/20MCA136
[allensphilip@SEC-R06]~/MCA/ACN/RMCA2023A/20MCA136$ for i in {1..100}; do touch Movie$i.mp4; done
[allensphilip@SEC-R06]~/MCA/ACN/RMCA2023A/20MCA136$ ls
Movie100.mp4  Movie21.mp4  Movie33.mp4  Movie45.mp4  Movie57.mp4  Movie69.mp4  Movie80.mp4  Movie92.mp4
Movie101.mp4  Movie22.mp4  Movie34.mp4  Movie46.mp4  Movie58.mp4  Movie70.mp4  Movie81.mp4  Movie93.mp4
Movie102.mp4  Movie23.mp4  Movie35.mp4  Movie47.mp4  Movie59.mp4  Movie71.mp4  Movie82.mp4  Movie94.mp4
Movie103.mp4  Movie24.mp4  Movie36.mp4  Movie48.mp4  Movie60.mp4  Movie72.mp4  Movie83.mp4  Movie95.mp4
Movie104.mp4  Movie25.mp4  Movie37.mp4  Movie49.mp4  Movie61.mp4  Movie73.mp4  Movie84.mp4  Movie96.mp4
Movie105.mp4  Movie26.mp4  Movie38.mp4  Movie50.mp4  Movie62.mp4  Movie74.mp4  Movie85.mp4  Movie97.mp4
Movie106.mp4  Movie27.mp4  Movie39.mp4  Movie51.mp4  Movie63.mp4  Movie75.mp4  Movie86.mp4  Movie98.mp4
Movie107.mp4  Movie28.mp4  Movie40.mp4  Movie52.mp4  Movie64.mp4  Movie76.mp4  Movie87.mp4  Movie99.mp4
Movie108.mp4  Movie29.mp4  Movie41.mp4  Movie53.mp4  Movie65.mp4  Movie77.mp4  Movie88.mp4  Movie90.mp4
Movie109.mp4  Movie30.mp4  Movie42.mp4  Movie54.mp4  Movie66.mp4  Movie78.mp4  Movie89.mp4  Movie91.mp4
Movie110.mp4  Movie31.mp4  Movie43.mp4  Movie55.mp4  Movie67.mp4  Movie79.mp4  Movie92.mp4  Movie93.mp4
Movie111.mp4  Movie32.mp4  Movie44.mp4  Movie56.mp4  Movie68.mp4  Movie80.mp4  Movie94.mp4  Movie95.mp4
[allensphilip@SEC-R06]~/MCA/ACN/RMCA2023A/20MCA136$ sudo groupadd AJCE_MCA
[allensphilip@SEC-R06]~/MCA/ACN/RMCA2023A/20MCA136$ stail -n 1 /etc/group
AJCE_MCA:x:1014:
[allensphilip@SEC-R06]~/MCA/ACN/RMCA2023A/20MCA136$ sudo useradd -m AJCE_Students
[allensphilip@SEC-R06]~/MCA/ACN/RMCA2023A/20MCA136$ sudo passwd AJCE_Students
New password:
Retype new password:
passwd: password updated successfully
[allensphilip@SEC-R06]~/MCA/ACN/RMCA2023A/20MCA136$
```

[3]

```
Parrot Terminal
File Edit View Search Terminal Help
[allensphilip@SEC-R06]~$
[allensphilip@SEC-R06]~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/allensphilip/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/allensphilip/.ssh/id_rsa
Your public key has been saved in /home/allensphilip/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:gSDrLS5e5VM1Ko9SbGM8i+iODG044WW4FFWpmYVZ9H4 allensphilip@SEC-R06
The key's randomart image is:
+---[RSA 3072]-----+
| ..o.. o |
| .. 0.. o |
| .. X %..+ |
| ..oB B.O |
|..o+o+ =.SE |
|o*+o . . |
|+o= |
|o= |
|... |
+---[SHA256]-----+
[allensphilip@SEC-R06]~$ sudo ssh-copy-id -i .ssh/id_rsa.pub AJCE_Students@192.168.1.7
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: ".ssh/id_rsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompted now it is to install the new keys
AJCE_Students@192.168.1.7's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'AJCE_Students@192.168.1.7'"
and check to make sure that only the key(s) you wanted were added.
[allensphilip@SEC-R06]~$
```

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Dept. of Computer Applications

```
Parrot Terminal
File Edit View Search Terminal Help
[allensphilip@SEC-ROG]-[~]
$ sudo su AJCE_Students
$ id
uid=1002(AJCE_Students) gid=1015(AJCE_Students) groups=1015(AJCE_Students)
$
```

[4, 5]

```
Parrot Terminal
File Edit View Search Terminal Help
[allensphilip@SEC-ROG]-[~/MCA/ACN]
$ sudo chown AJCE_Students:AJCE_MCA RMCA2023A/20MCA136
[allensphilip@SEC-ROG]-[~/MCA/ACN]
$ ls -lrt RMCA2023A/
total 0
drwxr-xr-x 1 AJCE_Students AJCE_MCA 2184 Jun  5 19:41 20MCA136
[allensphilip@SEC-ROG]-[~/MCA/ACN]
$ sudo chmod 770 RMCA2023A/20MCA136/
[allensphilip@SEC-ROG]-[~/MCA/ACN]
$ ls -lrt RMCA2023A/
total 0
drwxrwx--- 1 AJCE_Students AJCE_MCA 2184 Jun  5 19:41 20MCA136
```

[6, 7]

```
Parrot Terminal
File Edit View Search Terminal Help
[allensphilip@SEC-ROG]-[~/MCA/ACN]
$ ssh AJCE_Students@192.168.1.7
Linux SEC-ROG 5.16.0-12parrot1-amd64 #1 SMP PREEMPT Debian 5.16.12-2parrot1 (2022-03-11) x86_64

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the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/*copyright.

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permitted by applicable law.
$ ls
Desktop  Templates
$ cd ..
$ ls
AJCE_Students  allensphilip
$ cd allensphilip/MCA/ACN/RMCA2023A/20MCA136
$ pwd
/home/allensphilip/MCA/ACN/RMCA2023A/20MCA136
$ ls
Movie100.mp4  Movie17.mp4  Movie24.mp4  Movie31.mp4  Movie39.mp4  Movie46.mp4  Movie53.mp4  Movie60.mp4  Movie68.mp4  Movie75.mp4  Movie82.mp4  Movie89.mp4  Movie96.mp4  Movie97.mp4
Movie101.mp4  Movie18.mp4  Movie25.mp4  Movie32.mp4  Movie40.mp4  Movie47.mp4  Movie54.mp4  Movie61.mp4  Movie69.mp4  Movie76.mp4  Movie83.mp4  Movie90.mp4  Movie98.mp4  Movie99.mp4
Movie102.mp4  Movie19.mp4  Movie26.mp4  Movie33.mp4  Movie41.mp4  Movie48.mp4  Movie55.mp4  Movie62.mp4  Movie70.mp4  Movie77.mp4  Movie84.mp4  Movie91.mp4  Movie99.mp4  Movie99.mp4
Movie103.mp4  Movie20.mp4  Movie27.mp4  Movie34.mp4  Movie42.mp4  Movie49.mp4  Movie56.mp4  Movie63.mp4  Movie71.mp4  Movie78.mp4  Movie85.mp4  Movie92.mp4  Movie99.mp4  Movie99.mp4
Movie104.mp4  Movie21.mp4  Movie28.mp4  Movie35.mp4  Movie43.mp4  Movie50.mp4  Movie57.mp4  Movie64.mp4  Movie72.mp4  Movie79.mp4  Movie86.mp4  Movie93.mp4  Movie99.mp4  Movie99.mp4
Movie105.mp4  Movie22.mp4  Movie29.mp4  Movie36.mp4  Movie44.mp4  Movie51.mp4  Movie58.mp4  Movie65.mp4  Movie73.mp4  Movie80.mp4  Movie87.mp4  Movie94.mp4  Movie99.mp4  Movie99.mp4
Movie106.mp4  Movie23.mp4  Movie30.mp4  Movie37.mp4  Movie45.mp4  Movie52.mp4  Movie59.mp4  Movie66.mp4  Movie74.mp4  Movie81.mp4  Movie88.mp4  Movie95.mp4  Movie99.mp4  Movie99.mp4
$ find . -name "*" -exec rm -rf {} \;
$ ls
Movie100.mp4  Movie20.mp4  Movie31.mp4  Movie42.mp4  Movie53.mp4  Movie64.mp4  Movie85.mp4  Movie96.mp4
Movie101.mp4  Movie21.mp4  Movie32.mp4  Movie43.mp4  Movie54.mp4  Movie65.mp4  Movie86.mp4  Movie97.mp4
Movie102.mp4  Movie22.mp4  Movie33.mp4  Movie44.mp4  Movie55.mp4  Movie66.mp4  Movie87.mp4  Movie98.mp4
Movie103.mp4  Movie23.mp4  Movie34.mp4  Movie45.mp4  Movie56.mp4  Movie67.mp4  Movie88.mp4  Movie99.mp4
Movie104.mp4  Movie24.mp4  Movie35.mp4  Movie46.mp4  Movie57.mp4  Movie68.mp4  Movie89.mp4  Movie99.mp4
Movie105.mp4  Movie25.mp4  Movie36.mp4  Movie47.mp4  Movie58.mp4  Movie69.mp4  Movie90.mp4  Movie99.mp4
Movie106.mp4  Movie26.mp4  Movie37.mp4  Movie48.mp4  Movie59.mp4  Movie70.mp4  Movie91.mp4  Movie99.mp4
Movie107.mp4  Movie27.mp4  Movie38.mp4  Movie49.mp4  Movie60.mp4  Movie71.mp4  Movie92.mp4  Movie99.mp4
Movie108.mp4  Movie28.mp4  Movie39.mp4  Movie50.mp4  Movie61.mp4  Movie72.mp4  Movie93.mp4  Movie99.mp4
Movie109.mp4  Movie29.mp4  Movie40.mp4  Movie51.mp4  Movie62.mp4  Movie73.mp4  Movie94.mp4  Movie99.mp4
Movie110.mp4  Movie30.mp4  Movie41.mp4  Movie52.mp4  Movie63.mp4  Movie74.mp4  Movie95.mp4  Movie99.mp4
$ find . -name "*" -exec tar -cvf FiveVals.tar {} \;
$ ls
FiveVals.tar
Movie100.mp4  Movie20.mp4  Movie31.mp4  Movie42.mp4  Movie53.mp4  Movie64.mp4  Movie85.mp4  Movie96.mp4
Movie101.mp4  Movie21.mp4  Movie32.mp4  Movie43.mp4  Movie54.mp4  Movie65.mp4  Movie86.mp4  Movie97.mp4
Movie102.mp4  Movie22.mp4  Movie33.mp4  Movie44.mp4  Movie55.mp4  Movie66.mp4  Movie87.mp4  Movie98.mp4
Movie103.mp4  Movie23.mp4  Movie34.mp4  Movie45.mp4  Movie56.mp4  Movie67.mp4  Movie88.mp4  Movie99.mp4
Movie104.mp4  Movie24.mp4  Movie35.mp4  Movie46.mp4  Movie57.mp4  Movie68.mp4  Movie89.mp4  Movie99.mp4
Movie105.mp4  Movie25.mp4  Movie36.mp4  Movie47.mp4  Movie58.mp4  Movie69.mp4  Movie90.mp4  Movie99.mp4
Movie106.mp4  Movie26.mp4  Movie37.mp4  Movie48.mp4  Movie59.mp4  Movie70.mp4  Movie91.mp4  Movie99.mp4
Movie107.mp4  Movie27.mp4  Movie38.mp4  Movie49.mp4  Movie60.mp4  Movie71.mp4  Movie92.mp4  Movie99.mp4
Movie108.mp4  Movie28.mp4  Movie39.mp4  Movie50.mp4  Movie61.mp4  Movie72.mp4  Movie93.mp4  Movie99.mp4
Movie109.mp4  Movie29.mp4  Movie40.mp4  Movie51.mp4  Movie62.mp4  Movie73.mp4  Movie94.mp4  Movie99.mp4
Movie110.mp4  Movie30.mp4  Movie41.mp4  Movie52.mp4  Movie63.mp4  Movie74.mp4  Movie95.mp4  Movie99.mp4
```


[8]

```
Parrot Terminal
File Edit View Search Terminal Help
$ cp FiveVals.tar ~
$ ls
FiveVals.tar  Movie15.mp4  Movie22.mp4  Movie2.mp4  Movie36.mp4  Movie43.mp4  Movie50.mp4  Movie58.mp4  Movie64.mp4  Movie81.mp4  Movie89.mp4  Movie95.mp4
Movie100.mp4  Movie16.mp4  Movie23.mp4  Movie30.mp4  Movie38.mp4  Movie44.mp4  Movie51.mp4  Movie59.mp4  Movie65.mp4  Movie82.mp4  Movie88.mp4  Movie96.mp4
Movie10.mp4   Movie18.mp4  Movie24.mp4  Movie31.mp4  Movie39.mp4  Movie45.mp4  Movie52.mp4  Movie5.mp4   Movie66.mp4  Movie83.mp4  Movie90.mp4  Movie98.mp4
Movie11.mp4   Movie19.mp4  Movie25.mp4  Movie32.mp4  Movie3.mp4   Movie46.mp4  Movie53.mp4  Movie60.mp4  Movie68.mp4  Movie84.mp4  Movie91.mp4  Movie99.mp4
Movie12.mp4   Movie1.mp4   Movie26.mp4  Movie33.mp4  Movie40.mp4  Movie48.mp4  Movie54.mp4  Movie61.mp4  Movie69.mp4  Movie85.mp4  Movie92.mp4  Movie99.mp4
Movie13.mp4   Movie20.mp4  Movie28.mp4  Movie34.mp4  Movie41.mp4  Movie49.mp4  Movie55.mp4  Movie62.mp4  Movie6.mp4   Movie86.mp4  Movie93.mp4
Movie14.mp4   Movie21.mp4  Movie29.mp4  Movie35.mp4  Movie42.mp4  Movie4.mp4   Movie56.mp4  Movie63.mp4  Movie80.mp4  Movie88.mp4  Movie94.mp4
$ cd
$ ls
Desktop  FiveVals.tar  Templates
$ pwd
/home/AJCE_Students
$ ls
Desktop  FiveVals.tar  Templates
$
```