Operating Systems

Lab Report

Lab 3



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Class	Operating Systems BCE-5B
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In Lab tasks

Activity 1:

- This activity is related to file permission. Perform the following tasks
- Create a new directory named test in root directory as superuser
- Make this directory public for all
- Create a file "testfile.txt" in /test directory
- Change its permissions that no boy can write the file, but the owner can read it.
- Create another user "Usama"
- Run the shell with user Usama
- Try to read the "testfile.txt"
- Logout as Usama
- Change the permission of testfile.txt so that everyone can read, write and execute it
- Run shell as Usama again
- Now, read the file

Solution:

- 1. Creating a new directory named test
- 2. Make directory public for all.

```
basim@basim-VirtualBox: ~
                                                                           File Edit View Search Terminal Help
basim@basim-VirtualBox:~$ mkdir test
basim@basim-VirtualBox:~$ chmod 777 test
basim@basim-VirtualBox:~$ ls -l
total 344
drwxr-xr-x 3 basim basim
                          4096 Oct 12 19:00 Desktop
drwxr-xr-x 3 basim basim 4096 Oct 12 18:45 Documents
drwxr-xr-x 2 basim basim
                           4096 Sep 24 23:38 Downloads
-rw-r--r-- 1 basim basim
                           8980 Sep 24 22:20 examples.desktop
drwxr-xr-x 2 basim basim
                           4096 Sep 24 23:38 Music
-rw-r--r-- 1 basim basim 297452 Oct 12 19:04 output.txt
drwxr-xr-x 3 basim basim
                           4096 Oct 12 18:45 Pictures
drwxr-xr-x 2 basim basim
                           4096 Sep 25 10:58 Public
                           4096 Oct 9 08:39 snap
drwxr-xr-x 3 basim basim
drwxr-xr-x 2 basim basim
                           4096 Sep 24 23:38 Templates
drwxrwxrwx 2 basim basim
                          4096 Oct 16 10:25
drwxr-xr-x 2 basim basim
                           4096 Sep 24 23:38 Videos
basim@basim-VirtualBox:~$
```

3. Creating a file testfile.txt in test directory

4. Setting its permission to only user can read and no one can write.

5. <u>Creating another user usama.</u>

6. Running shell as user usama.

```
usama@basim-VirtualBox: ~
 File Edit View Search Terminal Help
basim@basim-VirtualBox:~/test$ sudo adduser usama
[sudo] password for basim:
Adding user `usama' ...
Adding new group `usama' (1001) ...
Adding new user `usama' (1001) with group `usama' ...
Creating home directory `/home/usama' ...
Copying files from `/etc/skel' ...
Enter new UNIX password:
Retype new UNIX password:
passwd: password updated successfully
Changing the user information for usama
Enter the new value, or press ENTER for the default
          Full Name []:
          Room Number []:
          Work Phone []:
          Home Phone []:
          Other []:
Is the information correct? [Y/n] y
basim@basim-VirtualBox:~/test$ su - usama
Password:
usama@basim-VirtualBox:~$
```

7. Tryingto read testfile.txt as user usama.

```
usama@basim-VirtualBox: /home/basim/test

File Edit View Search Terminal Help
usama@basim-VirtualBox: ~$ cd /home/basim/test
usama@basim-VirtualBox: /home/basim/test$ cat testfile.txt
cat: testfile.txt: Permission denied
usama@basim-VirtualBox: /home/basim/test$

usama@basim-VirtualBox: /home/basim/test$
```

- 8. Logging out of user usama
- 9. Changing permission of testfile to be read, write and executed by everyone
- 10. Logging into user usama
- 11. Reading file testfile.txt

Activity 2:

Perform the following tasks

- Set the permission such that a newly created file is readable only to the owner
- Create a text file "act.txt" in /test directory crated in previous activity
- Run the shell as user "usama" (created previously)4. Access the file "act.txt"
- Logout as usama
- Now change the ownership of the file from ubuntu to usama
- Run the shell again as usama8. Read the file "act.txt" using cat command
- Logout as usama
- Now access the act.txt with user ubuntu

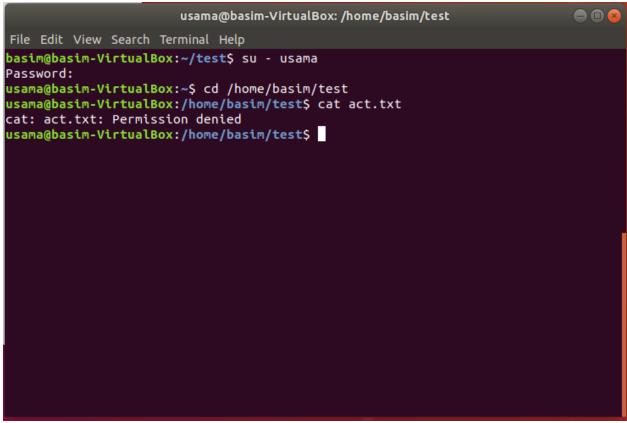
Solution:

1. Setting permission such that newly created file is readable only to owner

2. Creating a file act.txt

3. Logging in as user usama

4. Accessing file ac.txt



- 5. Logging out of user usama
- 6. Changing ownership of act.txt to user usama
- 7. Logging in of user usama
- 8. Reading act. txt using cat command

```
usama@basim-VirtualBox: /home/basim/test

File Edit View Search Terminal Help
usama@basim-VirtualBox:/home/basim/test$ exit
logout
basim@basim-VirtualBox:~/test$ sudo chown usama act.txt
basim@basim-VirtualBox:~/test$ su - usama
Password:
usama@basim-VirtualBox:~$ cd /home/basim/test
usama@basim-VirtualBox:/home/basim/test$ cat act.txt
hello!
usama@basim-VirtualBox:/home/basim/test$
```

9. Logging out of user usama

10. Trying to access act.txt from original user

```
basim@basim-VirtualBox: ~/test

File Edit View Search Terminal Help

usama@basim-VirtualBox:~$ exit

logout

bastm@basim-VirtualBox:~/test$ cat act.txt

cat: act.txt: Permission denied

basim@basim-VirtualBox:~/test$
```

Activity 3:

Perform the following tasks

- search apt repository for the chromium browser
- install the chromium browser using command line
- write the command to update and upgrade the repository
- list the software installed on your machine and write output on a file list.txt
- read the list.txt file using cat command

Solution:

1. Search apt repository for chromium browser

```
basim@basim-VirtualBox: /
                                                                                           File Edit View Search Terminal Help
basim@basim-VirtualBox:~$ cd /
basim@basim-VirtualBox:/$ apt-cache search chromium browser
chrome-gnome-shell - GNOME Shell extensions integration for web browsers
chromium-browser - Chromium web browser, open-source version of Chrome
chromium-browser-l10n - chromium-browser language packages
chromium-chromedriver - WebDriver driver for the Chromium Browser
chromium-codecs-ffmpeg - Free ffmpeg codecs for the Chromium Browser
chromium-codecs-ffmpeg-extra - Extra ffmpeg codecs for the Chromium Browser
libv8-3.14-dbg - V8 JavaScript engine - debugging symbols
libv8-3.14-dev - V8 JavaScript engine - development files for 3.14 branch
libv8-3.14.5 - V8 JavaScript engine - runtime library
libv8-dev - V8 JavaScript engine - development files for latest branch
ninja-build - small build system closest in spirit to Make
node-electron-to-chromium - Provides a list of electron-to-chromium version mappings
python-pyqt5.qtwebengine - Python 2 bindings for Qt5's WebEngine module
python-pyqt5.qtwebengine-dbg - Python 2 bindings for Qt5's WebEngine module (debug extensions)
python3-pyqt5.qtwebengine - Python 3 bindings for Qt5's WebEngine module
python3-pyqt5.qtwebengine-dbg - Python 3 bindings for Qt5's WebEngine module (debug extensions)
webext-browserpass - web extension for the password manager pass
browser-plugin-freshplayer-pepperflash - PPAPI-host NPAPI-plugin adapter for pepperflash
flashplugin-installer - Adobe Flash Player plugin installer
pepperflashplugin-nonfree - Pepper Flash Player - browser plugin
icedtea-8-plugin - web browser plugin based on OpenJDK and IcedTea to execute Java applets
icedtea-plugin - web browser plugin to execute Java applets (dependency package)
basim@basim-VirtualBox:/$
```

2. <u>Installing chromium browser using command line</u>

```
basim@basim-VirtualBox: /
                                                                                                  File Edit View Search Terminal Help
basim@basim-VirtualBox:/$ sudo apt-get install chromium-bsu
[sudo] password for basim:
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-4.15.0-29 linux-headers-4.15.0-29-generic linux-image-4.15.0-29-generic
  linux-modules-4.15.0-29-generic linux-modules-extra-4.15.0-29-generic
Use 'sudo apt autoremove' to remove them.
The following additional packages will be installed:
  chromium-bsu-data fonts-uralic libalut0 libglc0 libglewmx1.13 libopenal-data libopenal1
  libsdl2-2.0-0 libsdl2-image-2.0-0 libsndio6.1
Suggested packages:
  libportaudio2 sndiod
The following NEW packages will be installed:
  chromium-bsu chromium-bsu-data fonts-uralic libalut0 libglc0 libglewmx1.13 libopenal-data
  libopenal1 libsdl2-2.0-0 libsdl2-image-2.0-0 libsndio6.1
0 upgraded, 11 newly installed, 0 to remove and 8 not upgraded.
Need to get 2,793 kB of archives.
After this operation, 6,671 kB of additional disk space will be used.
Do you want to continue? [Y/n] y
Get:1 http://pk.archive.ubuntu.com/ubuntu bionic/universe amd64 libopenal-data all 1:1.18.2-2 [1
Get:2 http://pk.archive.ubuntu.com/ubuntu bionic/universe amd64 libsndio6.1 amd64 1.1.0-3 [23.4
kB]
                                         basim@basim-VirtualBox:/
                                                                                                  File Edit View Search Terminal Help
Selecting previously unselected package libsdl2-image-2.0-0:amd64.
Preparing to unpack .../09-libsdl2-image-2.0-0_2.0.3+dfsg1-1_amd64.deb ...
Unpacking libsdl2-image-2.0-0:amd64 (2.0.3+dfsg1-1) ...
Selecting previously unselected package chromium-bsu.
Preparing to unpack .../10-chromium-bsu_0.9.16.1-1_amd64.deb ...
Unpacking chromium-bsu (0.9.16.1-1) ...
Setting up chromium-bsu-data (0.9.16.1-1) ...
Setting up libglewmx1.13:amd64 (1.13.0-4ubuntu0.18.04.1) ...
Setting up libopenal-data (1:1.18.2-2) ...
Setting up fonts-uralic (0.0.20040829-6) ...
Setting up libsndio6.1:amd64 (1.1.0-3) ...
Setting up libglc0 (0.7.2-5ubuntu4) ..
Setting up libsdl2-2.0-0:amd64 (2.0.8+dfsg1-1ubuntu1.18.04.4) ...
Setting up libsdl2-image-2.0-0:amd64 (2.0.3+dfsg1-1) ...
Setting up libopenal1:amd64 (1:1.18.2-2) ...
Setting up libalut0:amd64 (1.1.0-5) ...
Setting up chromium-bsu (0.9.16.1-1) ...
Processing triggers for gnome-menus (3.13.3-11ubuntu1.1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for fontconfig (2.12.6-0ubuntu2) ...
Processing triggers for mime-support (3.60ubuntu1) ...
Processing triggers for desktop-file-utils (0.23-1ubuntu3.18.04.2) ...
Processing triggers for libc-bin (2.27-3ubuntu1.2) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
basim@basim-VirtualBox:/$
```

3. Writing command to update and upgrade the repository

```
basim@basim-VirtualBox:/
                                                                                                   File Edit View Search Terminal Help
basim@basim-VirtualBox:/$ sudo apt-get update
Hit:1 http://pk.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:3 http://pk.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Err:1 http://pk.archive.ubuntu.com/ubuntu bionic InRelease
 Unknown error executing apt-key
Err:2 http://security.ubuntu.com/ubuntu bionic-security InRelease
 Unknown error executing apt-key
Err:3 http://pk.archive.ubuntu.com/ubuntu bionic-updates InRelease
 Unknown error executing apt-key
Get:4 http://pk.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Err:4 http://pk.archive.ubuntu.com/ubuntu bionic-backports InRelease
 Unknown error executing apt-key
Fetched 252 kB in 3s (81.7 kB/s)
Reading package lists... Done
W: An error occurred during the signature verification. The repository is not updated and the previou
s index files will be used. GPG error: http://pk.archive.ubuntu.com/ubuntu bionic InRelease: Unknown
error executing apt-key
W: An error occurred during the signature verification. The repository is not updated and the previou
s index files will be used. GPG error: http://security.ubuntu.com/ubuntu bionic-security InRelease: U
nknown error executing apt-key
W: An error occurred during the signature verification. The repository is not updated and the previou
s index files will be used. GPG error: http://pk.archive.ubuntu.com/ubuntu bionic-updates InRelease:
Unknown error executing apt-key
W: An error occurred during the signature verification. The repository is not updated and the previou
s index files will be used. GPG error: http://pk.archive.ubuntu.com/ubuntu bionic-backports InRelease
: Unknown error executing apt-key
W: Failed to fetch http://pk.archive.ubuntu.com/ubuntu/dists/bionic/InRelease Unknown error executin
g apt-key
W: Failed to fetch http://pk.archive.ubuntu.com/ubuntu/dists/bionic-updates/InRelease Unknown error
executing apt-key
W: Failed to fetch http://pk.archive.ubuntu.com/ubuntu/dists/bionic-backports/InRelease Unknown erro
r executing apt-key
W: Failed to fetch http://security.ubuntu.com/ubuntu/dists/bionic-security/InRelease Unknown error e
xecuting apt-key
W: Some index files failed to download. They have been ignored, or old ones used instead.
basim@basim-VirtualBox:/$
```

4. Listing all the software installed on the machine in an outputfile

```
basim@basim-VirtualBox:/

File Edit View Search Terminal Help

basim@basim-VirtualBox:/$ dpkg --list > /home/basim/test/output.txt

basim@basim-VirtualBox:/$
```

5. Reading outputfile using cat command

```
singbasin-VirtualBox:/S cat /home/basin/test/output.txt
stred=uhknown/Install/Memove/burge/blold
status=hox/Inst/trof-fless/impacked/half-conf/Half-inst/trig-aWalt/Trig-pend
Erria-(nome)/Belmst-required (Status,Err: uppercase-bad)
/ Hame
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Access control list utilities
scripts for handling many ACP events
Access control list utilities
scripts for handling many ACP events
Add and renove users and groups
Add un message style for Ubuntu
default toon theme of Cokong (snall subset)
CMOME solitaire card game collection
ALSA driver configuration files
Utilities for configuring and using ALSA
Processor incrocode firmmer for AMD CUB
AUTOMATIC ACT OF AMD CUB
AUTOMATI
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3.28.0-1ubuntu4
1.3.28.0-1ubuntu1
1.3.22.5-1
1.0.25-4fsg-odubuntu5
1.1.3-1ubuntu1
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1.1.1-bzr982-0ubuntu19.4
0.5.2ubuntu14.2
0.60.7-20110707-4ubuntu0.1
2.7.3 1.5.44-0-0.1
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0.7.3 1.5.44-0-1
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12.30-2 iubuntul-18.04.4
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valBox:/

Tools for manipulating Linux Wireless Extensions
Citent support for WPA and WPA2 (IEEE 802.111)

x applications (X.Org) infrastructure
X session utilities
X11 xXB utilities
X11 xXB utilities
X12 xXB utilities
X13 xXB utilities
X surhentication utility
Base X bitmaps
Access offund portal backed for xdg-desktop-portal
desktop integration portal for Flatpak and Snap
GfK*/GNOME portal backed for xdg-desktop-portal
tool to namage well known user directories
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tool to portal backed for xdg-desktop-portal
tool to namage well known user directories
(Keyboard Extension utility programs
X server integration utility programs
X server intitalisation tool
Runtime configuration and test of Xinput devices
X Keyboard Extension (XXB) configuration data
X.Org X window System
Common files used by various X servers
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