

## Ex 1

## ADVANCED LINUX COMMANDS

Date: 18.08.20

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### Aim:

To study and implement the Linux commands

### Description:

Sl. No.	Command Name	Meaning	options
1.	ls	List files and/or directories.	-a, --all do not ignore entries starting with. -A, --almost-all do not list implied. and. --author with -l, print the author of each file -b, --escape print C-style escapes for nongraphic characters  --block-size=SIZE
2.	Who am i	This command reveals the user who is currently logged in.	-a, --all =same as -b -d - -login -p -r -t -T -u -b, --boot time of last system boot -d, --dead print dead processes -H, --heading print line of column headings -l, --login print system login processes --lookup attempt to canonicalize hostnames via DNS
3.	pwd	prints the absolute path to the current working directory	-L, --logical use PWD from the environment, even if it contains symlinks

			-P, --physical avoid all symlinks
4.	<b>cal</b>	Displays the calendar of the current month	<p>-1, --one Display single month output. (This is the default.)</p> <p>-3, --three Display prev/current/next month output.</p> <p>-s, --Sunday Display Sunday as the first day of the week.</p> <p>-m, --Monday Display Monday as the first day of the week.</p> <p>-j, --Julian Display Julian dates (days one-based, numbered from January 1).</p> <p>-y, --year</p>
5.	<b>echo</b>	This command will echo whatever you provide it.	<p>-n do not output the trailing newline</p> <p>-e enable interpretation of backslash escapes</p> <p>-E disable the interpretation of backslash escapes (default)</p>
6.	<b>date</b>	Displays current time and date.	<p>-d, --date=STRING display time described by STRING, not 'now'</p> <p>-f, -- file=DATEFILE</p>

			like --date once for each line of DATAFILE
7.	<b>tty</b>	Displays the current terminal.	
8.	<b>id</b>	This command prints user and groups (UID and GID) of the current user.	-a ignore, for compatibility with other versions  -Z, --context print only the security context of the current user  -g, --troupe print only the effective group ID  -G, --groups print all group IDs  -n, --name print a name instead of a number, for -ugG
9.	<b>clear</b>	This command clears the screen.	
10.	<b>man</b>	To show manual page	
11.	<b>cd</b>	Change the current working directory to the directory provided as an argument.	
12.	<b>mkdir</b>	To create a directory, the 'mkdir' command is used.	
13.	<b>touch</b>	For creating an empty file, use the touch command.	
14.	<b>cp</b>	Copy files and directories	
15.	<b>mv</b>	Move files or directories. The 'mv' command works like	

		'cp' command, except that the original file is removed. But, the mv command can be used to rename the files (or directories).	
16.	<b>rmdir</b>	the command removes any empty directories, but cannot delete a directory if a file is present in it.	
17.	<b>file</b>	The file command determines the file type of a given file.	
18.	<b>cat</b>	The 'cat' command is actually a concatenator but can be used to view the contents of a file.	
19.	<b>head</b>	Displays the first few lines of a file. By default, the 'head' command displays the first 10 lines of a file.	
20.	<b>tail</b>	the 'tail' command shows the last 10 lines by default	-c, --bytes=[-]K print the first K bytes of each file -n, --lines=[-]K print the first K lines instead of the first 10 -q, --quiet, --silent never print headers giving file names
21.	<b>wc</b>	This command counts lines, words, and letters of the input given to it.	
22.	<b>grep</b>	The 'grep' command searches for a pattern in a file (or standard input).	
23.	<b>vi</b>	Visual editor	
24.	<b>alias</b>	The 'alias' is another name for a command.	

25.	<b>history</b>	shows the commands you have entered on your terminal so far.	
26.	<b>passwd</b>	To change your password	
27.	<b>help</b>	With almost every command, '--help' option shows usage summary for that command.	
28.	<b>chmod</b>	The <i>chmod</i> command lets you change access permissions for a file.	
29.	<b>stat</b>	To check the status of a file. This provides more detailed information about a file than 'ls -l' output.	-L, --dereference follow links -f, --file-system display file system status instead of file status -c --format=FORMAT use the specified FORMAT instead of the default; output a newline after each use of FORMAT --printf=FORMAT
30.	<b>ln</b>	The ln command is used in Linux to create links.	

### Exercise

#### 1. List the contents of user's home directory including the hidden files

```
[urk17cs114@code ~]$ ls -a
.          2b.c          5c.cpp          9b.cpp          arm          .emacs          ex51.sh          exp71.sh          filefruits.txt  .sa.cpp.swp
..         2b.cpp          5.cpp           9c.cpp          a.out        employee        ex51.txt          exp71.txt          first.c          sample.txt
??         2.c            5d.cpp          a.cpp           ar           enum.c          ex52.sh          exp72            fourth.c          s.cpp
10a.cpp    2.cpp          6.1.sh          a              asc.cpp       ascending.cpp    ex53.sh          exp72.c          fourth.cy         sd
10b.cpp    35.cpp         6.2.sh          abn            asc.cpp       ascending.cpp    ex54.sh          exp72.cpp         fruit.txt         sdf
10c        36.cpp         62.sh           abn            asc.cpp       ascending.cpp    ex54.txt          exp72.sh          .k5login          second.c
10c.cpp    3a.c           67.cpp          acac           asc.cpp       ascending.cpp    ex55.sh          exp72.txt         ko                sedZytKt3
10c.cpp.save 3a.cpp         6a.c            acv            asd           ex1             ex56.sh          exp73.c          ls                server1.conf.f
iles
111.cpp    3a.cpp?        6a.cpp          ad             asdf          ex2.sh          ex5.sh           exp73.cpp         ls-error          sever1.conf.fi
les
11a1.cpp   3b.c           6A.cpp          add.cpp        ax            ex31.1          ex5.txt           .exp73.c.swp      ls-out            sortby.c
11a2.cpp   3b.cpp         6A.cpp.save     add.cpp.save  az            ex31.sh         ex6.sh            exp73.sh           .mozilla          square.c.save
11a.cpp    3b.c.save      6b.cpp          af             azx           ex32.sh         ex84.cpp           exp73.txt          myfifol23         string.c
11.c       3c.c           6b.cpp.save     ag            banking.txt    .ex32.sh.swp   exer1.lex          exp74.txt          net-config         stud.cpp
11f.cpp    3c.cpp         6.c             ak            bank.txt      ex33.sh         .exer1.lex.swp   exp81.c           rm                swap.cpp
12.c       3.l            6c.cpp          ak1            .bash_history ex34.sh         exp1.sh            exp81.cpp          rmb               tee.out
1a.c       4a.c           6c.cpp.save     ak10           .bash_logout  ex35.sh         exp31.sh           .exp81.cpp.swp    rmj               third.c
1a.cpp     4a.cpp         6.cpp           ak1.txt        .bash_profile ex36.sh         exp33.c            exp82.cpp          noel              tr
1a.cpp.save 4a.c.save      7a.cpp          ak2            .bashrc       ex3a.1          exp3a.c            exp82.cppvi       one               triangle.c
1b.c       4b.c           7b.cpp          .ak2.txt       bitwise.c     ex3b.1          exp3a.save         exp83_1.cpp        palindrome.c       two
1b.cpp     4b.cpp         7.c             ak3            bn            .ex3b.1.swp    exp3c.c            exp83.cpp          pattern.sh         tyu
1c.c       4c.cpp         7c.cpp          ak4            books.txt     ex3c.1          exp51.sh           .exp83.cpp.swo   patterns.sh        unix_commands_
used today.txt
1c.cpp     4.cpp          7.cpp           ak5            borrowed.txt  ex3d.1          exp55.sh           .exp83.cpp.swp    prdata            urk17cs114
1.cpp      4ex2.cpp       7d.cpp          ak6            b.out         ex3.l           exp61.sh           exp84.c            prdata.c          users.txt
1d.cpp     4ex.cpp        7e.cpp          ak7            condition.c   ex3.sh          .exp61.sh.swn     exp84.cpp          project           vb
1f.cpp     50             7f.cpp          ak8            .config       ex41            .exp61.sh.swo     exp91.c            project1          vbn
1f.cpp?    51.sh          7f.cpp.save     ak9            cv            ex41.sh         .exp61.sh.swp     exp91.cpp          q                wer
1f.cpp.save 52.sh          8a.cpp          aka            cvb           ex42.sh         exp61.txt          .exp91.cpp.swo    qwe              word1.txt
```

## 2. List the content of /var directory?

```
[urk17cs114@code ~]$ cd /var
[urk17cs114@code var]$ ls
adm  centrify  centrifydc  db  games  kerberos  local  log  nis  preserve  spool  yp
cache  centrifyda  crash  empty  gopher  lib  lock  mail  opt  run  tmp
```

## 3. Create two directories named dir1 & dir2

```
[urk17cs114@code ~]$ mkdir dir1 dir2
[urk17cs114@code ~]$
```

## 4. Create a hidden directory with your name?

```
[urk17cs114@code ~]$ mkdir .anil
[urk17cs114@code ~]$ cd .anil
```

## 5. Display the content of a hidden directory.

```
[urk17cs114@code .anil]$ ls
text1.txt  text2.txt
[urk17cs114@code .anil]$
```

## 6. Display the calendar of 2020.

```
[urk17cs114@code ~]$ cal 2020
                2020

   January           February           March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
   1  2  3  4           1           1  2  3  4  5  6  7
  5  6  7  8  9 10 11   2  3  4  5  6  7  8   8  9 10 11 12 13 14
 12 13 14 15 16 17 18   9 10 11 12 13 14 15   15 16 17 18 19 20 21
 19 20 21 22 23 24 25   16 17 18 19 20 21 22   22 23 24 25 26 27 28
 26 27 28 29 30 31     23 24 25 26 27 28 29   29 30 31

   April             May             June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
   1  2  3  4           1  2           1  2  3  4  5  6
  5  6  7  8  9 10 11   3  4  5  6  7  8  9   7  8  9 10 11 12 13
 12 13 14 15 16 17 18   10 11 12 13 14 15 16   14 15 16 17 18 19 20
 19 20 21 22 23 24 25   17 18 19 20 21 22 23   21 22 23 24 25 26 27
 26 27 28 29 30       24 25 26 27 28 29 30   28 29 30
                   31

   July             August           September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
   1  2  3  4           1           1  2  3  4  5
  5  6  7  8  9 10 11   2  3  4  5  6  7  8   6  7  8  9 10 11 12
 12 13 14 15 16 17 18   9 10 11 12 13 14 15   13 14 15 16 17 18 19
 19 20 21 22 23 24 25   16 17 18 19 20 21 22   20 21 22 23 24 25 26
 26 27 28 29 30 31     23 24 25 26 27 28 29   27 28 29 30
                   30 31

   October           November          December
```

7. Copy the file /etc/passwd file to current directory with sample.txt as the filename

```
[urk17cs114@code ~]$ cat /etc/passwd > sample.txt
[urk17cs114@code ~]$
```

8. Create a file test1.txt using Vim editor with the following contents to it

```
name      Regno    ResearchIntrest
anil      1213     Grid Computing
melvin    1214     cloud computing
shikar    1215     Image Processing
rohit     1216     networking
king k    1217     Grid Computing
raina     1217     Image Processing
yuvi      1218     machine learning
msd       1219     deep learning
```

Answer the following questions

a) Display the student names who are having Research Interest as GridComputing

```
[urk17cs114@code ~]$ grep Grid test1.txt | cut -f 1
anil
king k
[urk17cs114@code ~]$
```

b) List all the student names & RegNo in the class

```
[urk17cs114@code ~]$ cut -f 1,2 test1.txt
name      Regno
anil      1213
melvin    1214
shikar    1215
rohit     1216
king k    1217
raina     1217
yuvi      1218
msd       1219
```

c) List the count of students who have an interest as ImageProcessing and store the result in another file.

```
[urk17cs114@code ~]$ grep Image test1.txt | wc -l > test2.txt
[urk17cs114@code ~]$ cat test2.txt
2
[urk17cs114@code ~]$
```

d) Display the first two rows and last two and store them into another file.

```
[urk17cs114@code ~]$ cat anil.txt
name      Regno      ResearchIntrest
anil      1213      Grid Computing
yuvi      1218      machine learning
msd       1219      deep learning

[urk17cs114@code ~]$
```

9. Display the contents of the file test1.txt without any blank lines

```
[urk17cs114@code ~]$ grep -v '^$' test1.txt
name      Regno      ResearchIntrest
anil      1213      Grid Computing
melvin    1214      cloud computing
shikar    1215      Image Processing
rohit     1216      networking
king k    1217      Grid Computing
raina     1217      Image Processing
yuvi      1218      machine learning
msd       1219      deep learning

[urk17cs114@code ~]$
```

10. Move the file sample.txt from dir1 directory to dir2 directory

```
[urk17cs114@code ~]$ mv sample.txt dir2
[urk17cs114@code ~]$ cd dir2
[urk17cs114@code dir2]$
```

11. Change directory into dir2 directory



```
[urk17cs114@code ~]$ mv sample.txt dir2  
[urk17cs114@code ~]$ cd dir2  
[urk17cs114@code dir2]$
```

## 12. Check whether the file sample.txt is present their

```
[urk17cs114@code dir2]$ ls  
sample.txt
```

## 13. Rename the file sample.txt to new.txt and check whether sample.txt is there or not?

```
[urk17cs114@code dir2]$ mv sample.txt new.txt  
[urk17cs114@code dir2]$ ls  
new.txt  
[urk17cs114@code dir2]$
```

## 14. Remove the directory dir1

```
[urk17cs114@code ~]$ rm -r dir1  
[urk17cs114@code ~]$
```

## 15. Display last 3 lines of the file test1.txt

```
[urk17cs114@code ~]$ tail -3 test1.txt  
yuvi 1218 machine learning  
msd 1219 deep learning  
[urk17cs114@code ~]$
```

## 16. Display all the commands you have executed so far and save the list into a file named todayshistory.txt

```
[urk17cs114@code ~]$ history > todayhistory.txt
[urk17cs114@code ~]$ cat todayhistory.txt
 72  g++ exp81.cpp
 73  ./a.out
 74  vi exp82.cpp
 75  g++ exp82.cpp
 76  ./a.out
 77  vi exp82.cpp
 78  g++ exp82.cpp
 79  ./a.out
 80  g++ exp83.cpp
 81  ./a.out
 82  vi exp83.cpp
 83  vi exp84.cpp
 84  vi ex84.cpp
 85  g++ ex84.cpp
```

**17. How many files are present under your home directory?**

```
[urk17cs114@code ~]$ ls -A | wc -l
341
[urk17cs114@code ~]$
```

**18. Perform the sorting of three files and store the sorted file in the fourth file.**

```
[urk17cs114@code ~]$ sort file1.txt file2.txt file3.txt > file4.txt
[urk17cs114@code ~]$ cat file4.txt
first
second
third
[urk17cs114@code ~]$
```

**19. Change the permission of your newly created file such that the group users and others don't access any type of access.**

```
[urk17cs114@code ~]$ chmod 700 file5.txt
[urk17cs114@code ~]$ ls -l file5.txt
-rwx----- 1 urk17cs114 urk17cs114 0 Aug 22 12:18 file5.txt
[urk17cs114@code ~]$
```

**20. Display the network status on the shell.**

```
[urk17cs114@code ~]$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp    0      0 code.karunya.edu:nfs    192.168.0.32:ftps-data  ESTABLISHED
tcp    0      0 code.karunya.edu:58124  192.168.2.27:msft-gc    ESTABLISHED
tcp    0      0 code.karunya.edu:nfs    192.168.0.34:790        ESTABLISHED
tcp    0      0 code.karunya.edu:39984  192.168.2.27:ldap       ESTABLISHED
tcp    0      0 code.karunya.edu:52066  code.karunya.edu:hbc_i  ESTABLISHED
tcp    0      0 code.karunya.edu:hbc_i  code.karunya.edu:52212  ESTABLISHED
tcp    0      0 code.karunya.edu:https  162.158.50.196:46918    ESTABLISHED
tcp    0      48 code.karunya.edu:https  162.158.166.87:22784    ESTABLISHED
tcp    0      0 code.karunya.edu:52308  code.karunya.edu:hbc_i  ESTABLISHED
tcp    0      0 code.karunya.edu:https  162.158.31.133:37022    ESTABLISHED
tcp    0      0 code.karunya.edu:https  162.158.50.221:49642    ESTABLISHED
tcp    0      0 code.karunya.edu:52212  code.karunya.edu:hbc_i  ESTABLISHED
tcp    0      0 code.karunya.edu:52048  code.karunya.edu:hbc_i  ESTABLISHED
tcp    0      0 code.karunya.edu:hbc_i  code.karunya.edu:52066  ESTABLISHED
tcp    0      0 code.karunya.edu:hbc_i  code.karunya.edu:52048  ESTABLISHED
tcp    0      0 code.karunya.edu:hbc_i  code.karunya.edu:52428  ESTABLISHED
tcp    0      0 code.karunya.edu:nfs    192.168.0.33:814        ESTABLISHED
tcp    0      0 code.karunya.edu:52428  code.karunya.edu:hbc_i  ESTABLISHED
tcp    0      0 code.karunya.edu:hbc_i  code.karunya.edu:52308  ESTABLISHED
tcp    0      0 code.karunya.edu:nfs    192.168.0.owamp-control ESTABLISHED
tcp    0      46 code.karunya.edu:https  162.158.31.162:32884    ESTABLISHED
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags       Type       State       I-Node      Path
unix   3      [ ]         DGRAM      36          /run/systemd/notify
```

## 21. Compares any two files and search for both common and exclusive features

```
[urk17cs114@code ~]$ diff first.txt second.txt
1c1
< anil
---
> ak
[urk17cs114@code ~]$
```

## 22. Display the user ID, process ID, and parent process ID.

```
[urk17cs114@code ~]$ ps -f
UID          PID  PPID  C  TIME TTY          TIME CMD
urk17cs+    3516   3506  0  11:06 pts/0    00:00:00 -bash
urk17cs+    6768   3516  0  11:49 pts/0    00:00:00 tail -3
urk17cs+    6828   3516  0  11:51 pts/0    00:00:00 tail -3
urk17cs+    6860   3516  0  11:51 pts/0    00:00:00 tail -3
urk17cs+    7140   3516  0  11:54 pts/0    00:00:00 tail -3
urk17cs+    7228   3516  0  11:56 pts/0    00:00:00 tail -3
urk17cs+    8518   3516  0  12:14 pts/0    00:00:00 cat
urk17cs+    8530   3516  0  12:14 pts/0    00:00:00 cat
urk17cs+    8538   3516  0  12:14 pts/0    00:00:00 cat
urk17cs+    8591   3516  0  12:15 pts/0    00:00:00 cat
urk17cs+    8644   3516  0  12:16 pts/0    00:00:00 cat
urk17cs+    8734   3516  0  12:18 pts/0    00:00:00 cat
urk17cs+    8924   3516  0  12:21 pts/0    00:00:00 cat
urk17cs+    8935   3516  0  12:21 pts/0    00:00:00 cat
urk17cs+    8947   3516  0  12:21 pts/0    00:00:00 cat
urk17cs+    9035   3516  0  12:22 pts/0    00:00:00 cat
urk17cs+    9130   3516  0  12:22 pts/0    00:00:00 ps -f
```

## 23. Report disk usages of the file system.

```
urk17cs114@code ~]$ du -h
0      ./mozilla/plugins
0      ./mozilla/extensions
0      ./mozilla
16K    ./config/neofetch
16K    ./config
0      ./akpkvk
0      ./urk17cs114
0      ./anil
0      ./dir3
24K    ./employee
0      ./project
0      ./project1
0      ./one
0      ./two
0      ./anilkr
4.0K   ./dir2
1.4M   .
[urk17cs114@code ~]$
```

## 24. Display the statistics of all ports connected to a network.

```
[urk17cs114@code ~]$ netstat -l
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp    0      0 0.0.0.0:nfs              0.0.0.0:*               LISTEN
tcp    0      0 0.0.0.0:46053            0.0.0.0:*               LISTEN
tcp    0      0 0.0.0.0:sunrpc           0.0.0.0:*               LISTEN
tcp    0      0 0.0.0.0:http             0.0.0.0:*               LISTEN
tcp    0      0 0.0.0.0:mountd            0.0.0.0:*               LISTEN
tcp    0      0 0.0.0.0:34067             0.0.0.0:*               LISTEN
tcp    0      0 0.0.0.0:ssh               0.0.0.0:*               LISTEN
tcp    0      0 0.0.0.0:hbcid             0.0.0.0:*               LISTEN
tcp    0      0 localhost:smtp           0.0.0.0:*               LISTEN
tcp    0      0 0.0.0.0:https             0.0.0.0:*               LISTEN
tcp6   0      0 [::]:nfs                 [::]:*                  LISTEN
tcp6   0      0 [::]:sunrpc              [::]:*                  LISTEN
tcp6   0      0 [::]:http                [::]:*                  LISTEN
tcp6   0      0 [::]:mountd              [::]:*                  LISTEN
tcp6   0      0 [::]:ssh                 [::]:*                  LISTEN
tcp6   0      0 [::]:57431               [::]:*                  LISTEN
tcp6   0      0 localhost:smtp           [::]:*                  LISTEN
tcp6   0      0 [::]:https               [::]:*                  LISTEN
tcp6   0      0 [::]:39228               [::]:*                  LISTEN
udp    0      0 0.0.0.0:39547            0.0.0.0:*               LISTEN
udp    0      0 0.0.0.0:mountd            0.0.0.0:*               LISTEN
udp    0      0 0.0.0.0:sunrpc           0.0.0.0:*               LISTEN
udp    0      0 0.0.0.0:49440            0.0.0.0:*               LISTEN
```

## 25. Display the uptime of the system.

```
[urk17cs114@code ~]$ uptime
12:24:31 up 10 days, 44 min, 140 users, load average: 0.01, 0.02, 0.05
[urk17cs114@code ~]$
```

## 26. Julian day.

```
[urk17cs114@code ~]$ date +%j
235
[urk17cs114@code ~]$
```

## 27. IP information.

```
[urk17cs114@code ~]$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens32: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:50:56:93:66:93 brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.29/24 brd 192.168.0.255 scope global noprefixroute ens32
        valid_lft forever preferred_lft forever
    inet6 fe80::1450:18ba:187f:1f02/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[urk17cs114@code ~]$
```

## 28. Display only the free space in the system.

```
[urk17cs114@code ~]$ df
Filesystem            1K-blocks      Used Available Use% Mounted on
devtmpfs               3992636         0   3992636   0% /dev
tmpfs                  4004520         0   4004520   0% /dev/shm
tmpfs                  4004520    402584   3601936  11% /run
tmpfs                  4004520         0   4004520   0% /sys/fs/cgroup
/dev/mapper/centos_kitscode-root 68066844 3014188 65052656   5% /
/dev/sda1              1942528    334256  1608272  18% /boot
/dev/mapper/centos_kitscode-home 24404336     32992  24371344   1% /home
/dev/mapper/centos_kitscode-data 97609148 26097344 71511804  27% /data
/dev/mapper/centos_kitscode-var 10004480 9316320   688160  94% /var
tmpfs                   800908         0    800908   0% /run/user/1010875317
tmpfs                   800908         0    800908   0% /run/user/1010875240
tmpfs                   800908         0    800908   0% /run/user/1010883183
tmpfs                   800908         0    800908   0% /run/user/1010883450
tmpfs                   800908         0    800908   0% /run/user/1010875237
[urk17cs114@code ~]$
```

## 29. Linux platform is infected over the network.

## 30. Display the configuration information of your network.

```
[urk17cs114@code ~]$ netstat -nr
Kernel IP routing table
Destination    Gateway         Genmask         Flags   MSS Window  irtt Iface
0.0.0.0        192.168.0.254  0.0.0.0         UG        0 0          0 ens32
192.168.0.0    0.0.0.0        255.255.255.0   U        0 0          0 ens32
[urk17cs114@code ~]$
```

**Video Link :** <https://youtu.be/AoLAFwlMRJg>

## Results:

The Linux commands are studied and executed.

