

UNIX-LAB

WEEK-07

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SECTION:A

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1. Write shell script for commands : more,nl,nice,passwd,pr,rlogin,rcp,rsh,talk,telnet,tput,tty,uname,wc,who,write
2. Write a shell script that list the memory usage and cpu usage of multiple machines.

More:

```
root@JOSHUASTEPHEN:~# echo "more -d sample.txt"
more -d sample.txt
root@JOSHUASTEPHEN:~# more -d sample.txt
joshua
shiny
stephen
matthew
thomas
root@JOSHUASTEPHEN:~# more -f sample.txt
joshua
shiny
stephen
matthew
thomas
root@JOSHUASTEPHEN:~# more -u sample.txt
joshua
shiny
stephen
matthew
thomas
root@JOSHUASTEPHEN:~# more -s sample.txt
joshua
shiny
stephen
matthew
thomas
root@JOSHUASTEPHEN:~# more +5 sample.txt
thomas
```

```
root@JOSHUASTEPHEN:~# more +/file1.txt sample.txt
Pattern not foundjoshua
shiny
stephen
matthew
thomas
root@JOSHUASTEPHEN:~# |
```

NL:

```
root@JOSHUASTEPHEN:~# nl sample.txt
 1 joshua
 2 shiny
 3 stephen
 4 matthew
 5 thomas
root@JOSHUASTEPHEN:~# nl -b a sample.txt
 1 joshua
 2 shiny
 3 stephen
 4 matthew
 5 thomas
root@JOSHUASTEPHEN:~# nl -l 1 sample.txt
 1 joshua
 2 shiny
 3 stephen
 4 matthew
 5 thomas
root@JOSHUASTEPHEN:~# nl -i3 sample.txt
 1 joshua
 4 shiny
 7 stephen
10 matthew
13 thomas
root@JOSHUASTEPHEN:~# nl -v4 sample.txt
 4 joshua
 5 shiny
 6 stephen
 7 matthew
 8 thomas
root@JOSHUASTEPHEN:~# nl -s sample.txt
^C
root@JOSHUASTEPHEN:~# nl -w2 sample.txt
 1 joshua
 2 shiny
 3 stephen
 4 matthew
```

Nice:

```
root@JOSHUASTEPHEN:~# nl -n sample.txt
nl: invalid line numbering format: 'sample.txt'
Try 'nl --help' for more information.
root@JOSHUASTEPHEN:~# ps -el |grep joishua
root@JOSHUASTEPHEN:~# nice -10 gnome-joshua
nice: 'gnome-joshua': No such file or directory
root@JOSHUASTEPHEN:~# nice -10 joshua.txt
nice: 'joshua.txt': No such file or directory
root@JOSHUASTEPHEN:~# nice -10 sample.txt
nice: 'sample.txt': No such file or directory
root@JOSHUASTEPHEN:~# nice -10 joishua
nice: 'joishua': No such file or directory
root@JOSHUASTEPHEN:~# sudo renice -n 15 -p 2732
renice: failed to get priority for 2732 (process ID): No such process
root@JOSHUASTEPHEN:~# sudo renice -n 10 -u 1
renice: failed to get priority for 1 (user ID): No such process
root@JOSHUASTEPHEN:~# sudo renice -n 10 -g 1
1 (process group ID) old priority 0, new priority 10
root@JOSHUASTEPHEN:~# |
```

Passwd:

```
root@JOSHUASTEPHEN:~# sudo passwd root
New password:
Retype new password:
passwd: password updated successfully
root@JOSHUASTEPHEN:~# passwd 1234
passwd: user '1234' does not exist
root@JOSHUASTEPHEN:~# passwd@JOSHUASTEPHEN
passwd@JOSHUASTEPHEN: command not found
root@JOSHUASTEPHEN:~# passwd @JOSHUASTEPHEN
passwd: user '@JOSHUASTEPHEN' does not exist
root@JOSHUASTEPHEN:~# passwd root@JOSHUASTEPHEN
passwd: user 'root@JOSHUASTEPHEN' does not exist
root@JOSHUASTEPHEN:~# passwd root
New password:
Retype new password:
passwd: password updated successfully
root@JOSHUASTEPHEN:~# passwd JOSHUASTEPHEN
passwd: user 'JOSHUASTEPHEN' does not exist
```

Pr:

```
root@JOSHUASTEPHEN:~# pr -h "header" file2.txt
```

```
2024-04-04 22:20
```

```
header
```

```
Page 1
```

```
virat  
rohit  
dhoni  
pandya
```

```
root@JOSHUASTEPHEN:~# pr -n file2.txt
```

```
2024-04-04 22:20
```

```
file2.txt
```

```
Page 1
```

```
1 virat  
2 rohit  
3 dhoni  
4 pandya
```

```
root@JOSHUASTEPHEN:~# pr -t file2.txt
```

```
virat  
rohit  
dhoni  
pandya
```

```
root@JOSHUASTEPHEN:~# pr -d file2.txt
```

```
2024-04-04 22:20
```

```
file2.txt
```

```
Page 1
```

```
virat
```

```
rohit
```

```
dhoni
```

```
pandya
```

```
root@JOSHUASTEPHEN:~# pr -3 file2.txt
```

```
2024-04-04 22:20
```

```
file2.txt
```

```
Page 1
```

```
virat  
rohit
```

```
dhoni
```

```
pandya
```

```
root@JOSHUASTEPHEN:~# pr --version
```

```
pr (GNU coreutils) 8.32
```

```
Copyright (C) 2020 Free Software Foundation, Inc.
```

```
License GPLv3+: GNU GPL version 3 or later <https://gnu.org/licenses/gpl.html>.
```

```
This is free software: you are free to change and redistribute it.
```

```
There is NO WARRANTY, to the extent permitted by law.
```

```
Written by Pete TerMaat and Roland Huebner.
```

```
root@JOSHUASTEPHEN:~# |
```

Rcp:

```
JOSHUASTEPHEN:~# rcp JOSHUASTEPHEN:FILE2.TXT
```

```
o [-346ABCOpqRrsTv] [-c cipher] [-D sftp_server_path] [-F ssh_config]
```

```
[-i identity_file] [-J destination] [-l limit]
```

```
[-o ssh_option] [-P port] [-S program] source ... target
```

```
JOSHUASTEPHEN:~# rcp -p JOSHUASTEPHEN:one/file2.txt
```

```
o [-346ABCOpqRrsTv] [-c cipher] [-D sftp_server_path] [-F ssh_config]
```

```
[-i identity_file] [-J destination] [-l limit]
```

```
[-o ssh_option] [-P port] [-S program] source ... target
```

```
JOSHUASTEPHEN:~# |
```

telnet:

```
root@JOSHUASTEPHEN:~# telnet localhost
```

```
Trying 127.0.0.1...
```

```
telnet: Unable to connect to remote host: Connection refused
```

```
root@JOSHUASTEPHEN:~# |
```

Tput:

```

root@JOSHUASTEPHEN:~# tput init
root@JOSHUASTEPHEN:~# tput longname
xterm with 256 colorsroot@JOSHUASTEPHEN:~# tput -v
tput: invalid option -- 'v'
Usage: tput [options] [command]

Options:
  -S <<      read commands from standard input
  -T TERM     use this instead of $TERM
  -V          print curses-version
  -x          do not try to clear scrollbar

Commands:
  clear       clear the screen
  init        initialize the terminal
  reset       reinitialize the terminal
  capname     unlike clear/init/reset, print value for capability "capname"
root@JOSHUASTEPHEN:~# tput -v
tput: invalid option -- 'v'
Usage: tput [options] [command]

Options:
  -S <<      read commands from standard input
  -T TERM     use this instead of $TERM
  -V          print curses-version
  -x          do not try to clear scrollbar

Commands:
  clear       clear the screen
  init        initialize the terminal
  reset       reinitialize the terminal
  capname     unlike clear/init/reset, print value for capability "capname"
root@JOSHUASTEPHEN:~# tty -s
root@JOSHUASTEPHEN:~# tty -version
tty: invalid option -- 'v'
Try 'tty --help' for more information.
root@JOSHUASTEPHEN:~# tty --version

```

Uname:

```

root@JOSHUASTEPHEN:~# uname -a
Linux JOSHUASTEPHEN 5.15.146.1-microsoft-standard-WSL2 #1 SMP Thu Jan 11 04:09:03 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
root@JOSHUASTEPHEN:~# uname -s
Linux
root@JOSHUASTEPHEN:~# uname -n
JOSHUASTEPHEN
root@JOSHUASTEPHEN:~# uname -r
5.15.146.1-microsoft-standard-WSL2
root@JOSHUASTEPHEN:~# uname -v
#1 SMP Thu Jan 11 04:09:03 UTC 2024
root@JOSHUASTEPHEN:~# uname -m
x86_64
root@JOSHUASTEPHEN:~# uname -p
x86_64
root@JOSHUASTEPHEN:~# uname -i
x86_64
root@JOSHUASTEPHEN:~# uname -o
GNU/Linux
root@JOSHUASTEPHEN:~#

```

Wc:

```
root@JOSHUASTEPHEN:~# wc sample.txt
 5  5 36 sample.txt
root@JOSHUASTEPHEN:~# wc joshua.txt
 6  6 42 joshua.txt
root@JOSHUASTEPHEN:~# wc -l file2.txt
4 file2.txt
root@JOSHUASTEPHEN:~# wc -w file2.txt
4 file2.txt
root@JOSHUASTEPHEN:~# wc -c joshua.txt
42 joshua.txt
root@JOSHUASTEPHEN:~# wc -l joshua.txt
6 joshua.txt
root@JOSHUASTEPHEN:~# wc -l file2.txt
4 file2.txt
```

Who:

```
root@JOSHUASTEPHEN:~# wc sample.txt
 5  5 36 sample.txt
root@JOSHUASTEPHEN:~# wc joshua.txt
 6  6 42 joshua.txt
root@JOSHUASTEPHEN:~# wc -l file2.txt
4 file2.txt
root@JOSHUASTEPHEN:~# wc -w file2.txt
4 file2.txt
root@JOSHUASTEPHEN:~# wc -c joshua.txt
42 joshua.txt
root@JOSHUASTEPHEN:~# wc -l joshua.txt
6 joshua.txt
root@JOSHUASTEPHEN:~# wc -l file2.txt
4 file2.txt
```

Write:

```
root@JOSHUASTEPHEN:~# write --v
write from util-linux 2.37.2
root@JOSHUASTEPHEN:~# |
```