Assignment: 2
Name :Yashwant Singh Rathore
Topic : Basic Linux commands
Date : 14 April 2023


```
root@DESKTOP-FIK5SPH: /home/yash/infobell                                    —   □   ×
yash@DESKTOP-FIK5SPH:~/infobell$ uname -o
GNU/Linux
yash@DESKTOP-FIK5SPH:~/infobell$ uname -r
4.4.0-19041-Microsoft
yash@DESKTOP-FIK5SPH:~/infobell$ lshw
WARNING: you should run this program as super-user.
desktop-fik5sph
    description: Computer
    width: 64 bits
    capabilities: smp
  *-core
       description: Motherboard
       physical id: 0
     *-memory
          description: System memory
          physical id: 0
          size: 11GiB
     *-cpu
          product: Intel(R) Core(TM) i3-5005U CPU @ 2.00GHz
          vendor: Intel Corp.
          physical id: 1
          bus info: cpu@0
          version: 6.61.4
          capacity: 2GHz
          width: 64 bits
          capabilities: fpu fpu_exception wp vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush acpi mmx fxsr
 sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp x86-64 pni pclmulqdq est tm2 ssse3 fma cx16 xtpr pdcm pcid sse4_1 sse4_2 movbe popcnt
 aes xsave osxsave avx f16c rdrand hypervisor lahf_lm abm 3dnowprefetch fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdseed ad
x smap ibrs ibpb stibp ssbd cpufreq
          configuration: microcode=4294967295
WARNING: output may be incomplete or inaccurate, you should run this program as super-user.
yash@DESKTOP-FIK5SPH:~/infobell$ free -h
```

```
WARNING: output may be incomplete or inaccurate, you should run this program as super-user.
yash@DESKTOP-FIK5SPH:~/infobell$ free -h
               total        used        free      shared  buff/cache   available
Mem:           11Gi        4.9Gi       6.8Gi        17Mi       223Mi       6.8Gi
Swap:          27Gi        228Mi        27Gi
yash@DESKTOP-FIK5SPH:~/infobell$ apt search python -boto
E: Command line option 'b' [from -boto] is not understood in combination with the other options.
yash@DESKTOP-FIK5SPH:~/infobell$ uname -m
x86_64
yash@DESKTOP-FIK5SPH:~/infobell$ cat /etc/os-release
PRETTY_NAME="Ubuntu 22.04.1 LTS"
NAME="Ubuntu"
VERSION_ID="22.04"
VERSION="22.04.1 LTS (Jammy Jellyfish)"
VERSION_CODENAME=jammy
ID=ubuntu
ID_LIKE=debian
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
BUG_REPORT_URL="https://bugs.launchpad.net/ubuntu/"
PRIVACY_POLICY_URL="https://www.ubuntu.com/legal/terms-and-policies/privacy-policy"
UBUNTU_CODENAME=jammy
yash@DESKTOP-FIK5SPH:~/infobell$ lscpu
Architecture:          x86_64
  CPU op-mode(s):      32-bit, 64-bit
  Address sizes:       36 bits physical, 48 bits virtual
  Byte Order:          Little Endian
CPU(s):                4
  On-line CPU(s) list: 0-3
Vendor ID:             GenuineIntel
  Model name:          Intel(R) Core(TM) i3-5005U CPU @ 2.00GHz
    CPU family:        6
```

```
              opcnt aes xsave osxsave avx f16c rdrand hypervisor lahf_lm abm 3dnowprefetch fsgsbase tsc_adjust bmi1 avx2 sm
              ep bmi2 erms invpcid rdseed adx smap ibrs ibpb stibp ssbd
Virtualization features:
  Hypervisor vendor:     Windows Subsystem for Linux
  Virtualization type:   container
yash@DESKTOP-FIK5SPH:~/infobell$ vmstat -s m
vmstat: failed to parse argument: 'm'
yash@DESKTOP-FIK5SPH:~/infobell$ vmstat -S m
procs -----------memory---------- ---swap-- -----io---- -system-- ------cpu-----
 r  b   swpd   free   buff  cache   si   so    bi    bo   in   cs us sy id wa st
Error: /proc must be mounted
  To mount /proc at boot you need an /etc/fstab line like:
      proc   /proc   proc    defaults
  In the meantime, run "mount proc /proc -t proc"
yash@DESKTOP-FIK5SPH:~/infobell$ ps aux --sort=-%mem
USER       PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
yash       297  0.0  0.0  14712  3076 lly2     S    Apr12   0:01 -bash
yash       713  0.0  0.0  15520  1864 tty2     R    13:18   0:00 ps aux --sort=-%mem
yash        55  0.0  0.0  14120  1764 ?        S    Apr12   0:00 -bash
root        93  0.0  0.0  16844   888 ?        S    Apr12   0:00 sudo su
root        96  0.0  0.0  13084   648 pts/0    S    Apr12   0:00 bash
root        95  0.0  0.0  15624   548 pts/0    S    Apr12   0:00 su
root        94  0.0  0.0  16844   232 pts/0    Ss   Apr12   0:00 sudo su
root         1  0.0  0.0   8960   188 ?        Ssl  Apr12   0:00 /init
root       296  0.0  0.0   9312   100 tty2     Ss   Apr12   0:00 /init
yash@DESKTOP-FIK5SPH:~/infobell$ df -kh
Filesystem      Size  Used Avail Use% Mounted on
rootfs          224G   84G  141G  38% /
none            224G   84G  141G  38% /dev
none            224G   84G  141G  38% /run
none            224G   84G  141G  38% /run/lock
none            224G   84G  141G  38% /run/shm
```

```
groupadd: group 'yash' already exists
yash@DESKTOP-FIK5SPH:~/infobell$ sudo groupadd naresh
yash@DESKTOP-FIK5SPH:~/infobell$ sudo groupdel naresh
yash@DESKTOP-FIK5SPH:~/infobell$ id naresh
id: 'naresh': no such user
yash@DESKTOP-FIK5SPH:~/infobell$ id yash
uid=1000(yash) gid=1000(yash) groups=1000(yash),4(adm),20(dialout),24(cdrom),25(floppy),27(sudo),29(audio),30(dip),44(video),46(plugde
v),116(netdev)
yash@DESKTOP-FIK5SPH:~/infobell$ nslookup --help
*** Invalid option: -help
> sed --help

^C
dighost.c:1517: INSIST((uint_fast32_t) __extension__ ({ __auto_type __atomic_load_ptr = ((&recvcount)); __typeof__ ((void)0, *__atomic
_load_ptr) __atomic_load_tmp; __atomic_load (__atomic_load_ptr, &__atomic_load_tmp, (memory_order_acquire)); __atomic_load_tmp; }) ==
0) failed, back trace
/lib/x86_64-linux-gnu/libisc-9.18.1-1ubuntu1.2-Ubuntu.so(+0x32073)[0x7fd712e72073]
/lib/x86_64-linux-gnu/libisc-9.18.1-1ubuntu1.2-Ubuntu.so(isc_assertion_failed+0x10)[0x7fd712e71560]
nslookup(+0x82e9)[0x7fd7134222e9]
nslookup(+0xface)[0x7fd713429ace]
/lib/x86_64-linux-gnu/libisc-9.18.1-1ubuntu1.2-Ubuntu.so(isc__nm_async_sendcb+0x99)[0x7fd712e60eb9]
/lib/x86_64-linux-gnu/libisc-9.18.1-1ubuntu1.2-Ubuntu.so(isc__nm_sendcb+0xe5)[0x7fd712e61035]
/lib/x86_64-linux-gnu/libuv.so.1(+0x217cf)[0x7fd7128f17cf]
/lib/x86_64-linux-gnu/libuv.so.1(uv_run+0x158)[0x7fd7128de768]
/lib/x86_64-linux-gnu/libisc-9.18.1-1ubuntu1.2-Ubuntu.so(+0x25e9e)[0x7fd712e65e9e]
/lib/x86_64-linux-gnu/libisc-9.18.1-1ubuntu1.2-Ubuntu.so(isc__trampoline_run+0x1a)[0x7fd712e9586a]
/lib/x86_64-linux-gnu/libc.so.6(+0x94b43)[0x7fd7129a4b43]
/lib/x86_64-linux-gnu/libc.so.6(clone+0x44)[0x7fd712a35bb4]
Aborted (core dumped)
yash@DESKTOP-FIK5SPH:~/infobell$ ls
archive.tar.gz  pqr  xyz  yash.txt  yash1  yash3  yashw.txt  yashwant.txt
yash@DESKTOP-FIK5SPH:~/infobell$ awk -F: '{print $1}' users.txt
```

Type here to search   Game   14:45 14-04-2023

```
/lib/x86_64-linux-gnu/libisc-9.18.1-1ubuntu1.2-Ubuntu.so(+0x25e9e)[0x7fd712e65e9e]
/lib/x86_64-linux-gnu/libisc-9.18.1-1ubuntu1.2-Ubuntu.so(isc__trampoline_run+0x1a)[0x7fd712e9586a]
/lib/x86_64-linux-gnu/libc.so.6(+0x94b43)[0x7fd7129a4b43]
/lib/x86_64-linux-gnu/libc.so.6(clone+0x44)[0x7fd712a35bb4]
Aborted (core dumped)
yash@DESKTOP-FIK5SPH:~/infobell$ ls
archive.tar.gz  pqr  xyz  yash.txt  yash1  yash3  yashw.txt  yashwant.txt
yash@DESKTOP-FIK5SPH:~/infobell$ awk -F: '{print $1}' users.txt
awk: fatal: cannot open file `users.txt' for reading: No such file or directory
yash@DESKTOP-FIK5SPH:~/infobell$ awk -F: '{print $1}' yash.txt
varun
yash
tanu
yash@DESKTOP-FIK5SPH:~/infobell$ sed yash.txt
sed: -e expression #1, char 8: unterminated `y' command
yash@DESKTOP-FIK5SPH:~/infobell$ grep '192.168.1.100' logfile.txt
grep: logfile.txt: No such file or directory
yash@DESKTOP-FIK5SPH:~/infobell$ grep '192.168.1.100' yash.txt
yash@DESKTOP-FIK5SPH:~/infobell$ htop
yash@DESKTOP-FIK5SPH:~/infobell$ nslookup --help
*** Invalid option: -help
>
yash@DESKTOP-FIK5SPH:~/infobell$ lshw
WARNING: you should run this program as super-user.
desktop-fik5sph
    description: Computer
    width: 64 bits
    capabilities: smp
  *-core
      description: Motherboard
      physical id: 0
    *-memory
```

Type here to search   Game   14:46 14-04-2023

```
root@DESKTOP-FIK5SPH: /home/yash/infobell                                                    —    □    ✕
WARNING: output may be incomplete or inaccurate, you should run this program as super-user.
yash@DESKTOP-FIK5SPH:~/infobell$ uname -o
GNU/Linux
yash@DESKTOP-FIK5SPH:~/infobell$ uname -m
x86_64
yash@DESKTOP-FIK5SPH:~/infobell$ uname -r
4.4.0-19041-Microsoft
yash@DESKTOP-FIK5SPH:~/infobell$ lscpu
Architecture:            x86_64
  CPU op-mode(s):        32-bit, 64-bit
  Address sizes:         36 bits physical, 48 bits virtual
  Byte Order:            Little Endian
CPU(s):                  4
  On-line CPU(s) list:   0-3
Vendor ID:               GenuineIntel
  Model name:            Intel(R) Core(TM) i3-5005U CPU @ 2.00GHz
    CPU family:          6
    Model:               61
    Thread(s) per core:  2
    Core(s) per socket:  2
    Socket(s):           1
    Stepping:            4
    CPU max MHz:         2000.0000
    CPU min MHz:         0.0000
    BogoMIPS:            4000.00
    Flags:               fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush acpi mmx fxsr sse sse2 ss ht
                         tm pbe syscall nx pdpe1gb rdtscp lm pni pclmulqdq est tm2 ssse3 fma cx16 xtpr pdcm pcid sse4_1 sse4_2 movbe p
                         opcnt aes xsave osxsave avx f16c rdrand hypervisor lahf_lm abm 3dnowprefetch fsgsbase tsc_adjust bmi1 avx2 sm
                         ep bmi2 erms invpcid rdseed adx smap ibrs ibpb stibp ssbd
Virtualization features:
  Hypervisor vendor:     Windows Subsystem for Linux                          Activate Windows
  Virtualization type:   container                                           Go to Settings to activate Windows.
```

```
root@DESKTOP-FIK5SPH: /home/yash/infobell                                                    —    □    ✕
  Hypervisor vendor:     Windows Subsystem for Linux
  Virtualization type:   container
yash@DESKTOP-FIK5SPH:~/infobell$ free -h
               total        used        free      shared  buff/cache   available
Mem:           11Gi        5.1Gi       6.6Gi        17Mi       223Mi       6.7Gi
Swap:          27Gi        221Mi        27Gi
yash@DESKTOP-FIK5SPH:~/infobell$ apt search tree
Sorting... Done
Full Text Search... Done
389-ds-base/jammy 2.0.15-1 amd64
  389 Directory Server suite - server

aces3/jammy 3.0.8-8 amd64
  Advanced Concepts in Electronic Structure III

ack/jammy 3.5.0-1 all
  grep-like program specifically for large source trees

acpica-tools/jammy 20200925-6 amd64
  ACPICA tools for the development and debug of ACPI tables

adacontrol/jammy 1.21r6b-7 amd64
  Ada rules controller

adql-java/jammy 1.5-1 all
  Parse, manipulate and translate ADQL queries with Java

altree/jammy 1.3.2-1build2 amd64
  program to perform phylogeny-based association and localization analysis

altree-examples/jammy 1.3.2-1build2 all                                        Activate Windows
  example files for ALTree                                                    Go to Settings to activate Windows.
```

```
ytree/jammy 1.99pl1-2 amd64
  File manager for terminals

yash@DESKTOP-FIK5SPH:~/infobell$ df -kh
Filesystem     Size  Used Avail Use% Mounted on
rootfs         224G   84G  141G  38% /
none           224G   84G  141G  38% /dev
none           224G   84G  141G  38% /run
none           224G   84G  141G  38% /run/lock
none           224G   84G  141G  38% /run/shm
none           224G   84G  141G  38% /run/user
tmpfs          224G   84G  141G  38% /sys/fs/cgroup
C:\            224G   84G  141G  38% /mnt/c
D:\            184G   95G   90G  52% /mnt/d
E:\            196G  588M  195G   1% /mnt/e
F:\            293G   18G  276G   7% /mnt/f
G:\            245G  3.4G  241G   2% /mnt/g
H:\             15G   13G  1.8G  88% /mnt/h
yash@DESKTOP-FIK5SPH:~/infobell$ find -name yash.txt
./yash.txt
yash@DESKTOP-FIK5SPH:~/infobell$ getent group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,yash
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
```

```
H:\             15G   13G  1.8G  88% /mnt/h
yash@DESKTOP-FIK5SPH:~/infobell$ find -name yash.txt
./yash.txt
yash@DESKTOP-FIK5SPH:~/infobell$ getent group
root:x:0:
daemon:x:1:
bin:x:2:
sys:x:3:
adm:x:4:syslog,yash
tty:x:5:
disk:x:6:
lp:x:7:
mail:x:8:
news:x:9:
uucp:x:10:
man:x:12:
proxy:x:13:
kmem:x:15:
dialout:x:20:yash
fax:x:21:
voice:x:22:
cdrom:x:24:yash
floppy:x:25:yash
tape:x:26:
sudo:x:27:yash
audio:x:29:yash
dip:x:30:yash
www-data:x:33:
backup:x:34:
operator:x:37:
list:x:38:
irc:x:39:
```

```
netdev:x:116:yash
yash:x:1000:
yash@DESKTOP-FIK5SPH:~/infobell$ sudo adduser yashwant
[sudo] password for yash:
Adding user `yashwant' ...
Adding new group `yashwant' (1001) ...
Adding new user `yashwant' (1001) with group `yashwant' ...
Creating home directory `/home/yashwant' ...
Copying files from `/etc/skel' ...
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for yashwant
Enter the new value, or press ENTER for the default
        Full Name []: yashwant
        Room Number []: 52
        Work Phone []: 12255122
        Home Phone []: 525665
        Other []: ^Cadduser: `/bin/chfn yashwant' exited from signal 2. Exiting.
yash@DESKTOP-FIK5SPH:~/infobell$ sudo su yashwant
yashwant@DESKTOP-FIK5SPH:/home/yash/infobell$ hostname
DESKTOP-FIK5SPH
yashwant@DESKTOP-FIK5SPH:/home/yash/infobell$ whoami
yashwant
yashwant@DESKTOP-FIK5SPH:/home/yash/infobell$ sudo su yashwant
[sudo] password for yashwant:
yashwant is not in the sudoers file.  This incident will be reported.
yashwant@DESKTOP-FIK5SPH:/home/yash/infobell$ yashwant
yashwant: command not found
yashwant@DESKTOP-FIK5SPH:/home/yash/infobell$ exit
exit
yash@DESKTOP-FIK5SPH:~/infobell$ sudo su
```

```
exit
yash@DESKTOP-FIK5SPH:~/infobell$ sudo su
root@DESKTOP-FIK5SPH:/home/yash/infobell# echo "yashwant" |awk '{printtolower($0)}'
awk: cmd. line:1: (FILENAME=- FNR=1) fatal: function `printtolower' not defined
root@DESKTOP-FIK5SPH:/home/yash/infobell# echo "yashwant" |awk '{print tolower($0)}'
yashwant
root@DESKTOP-FIK5SPH:/home/yash/infobell# echo "Yashwant" |awk '{print tolower($0)}'
yashwant
root@DESKTOP-FIK5SPH:/home/yash/infobell# echo $((2+5))
7
root@DESKTOP-FIK5SPH:/home/yash/infobell# sort yash.txt
tanu
varun
yash
root@DESKTOP-FIK5SPH:/home/yash/infobell# sudo ufw status
ERROR: Couldn't determine iptables version
root@DESKTOP-FIK5SPH:/home/yash/infobell# sudo hostname
DESKTOP-FIK5SPH
root@DESKTOP-FIK5SPH:/home/yash/infobell# sudo ufw enable
ERROR: Couldn't determine iptables version
root@DESKTOP-FIK5SPH:/home/yash/infobell# bye
Command 'bye' not found, did you mean:
  command 'eye' from deb ruby-eye (0.7-5)
  command 'xye' from deb xye (0.12.2+dfsg-11)
  command 'bbe' from deb bbe (0.2.2-4)
Try: apt install <deb name>
root@DESKTOP-FIK5SPH:/home/yash/infobell#
```