

```
jfang15@DESKTOP-N8ULKTN:~$ hostname
DESKTOP-N8ULKTN
```

[illegible]

```
jfang15@DESKTOP-N8ULKTN:~$ ps
```

PID	TTY	TIME	CMD
45	tty1	00:00:00	bash
188	tty1	00:00:00	ps

```
jfang15@DESKTOP-N8ULKTN:~$ pwd
/home/jfang15
```

```
jfang15@DESKTOP-N8ULKTN:~$ git clone https://github.com/kevinwlu/iot.git
Cloning into 'iot'...
remote: Enumerating objects: 12808, done.
remote: Counting objects: 100% (2701/2701), done.
remote: Compressing objects: 100% (1663/1663), done.
remote: Total 12808 (delta 1836), reused 1444 (delta 955), pack-reused 10107
Receiving objects: 100% (12808/12808), 14.51 MiB | 12.44 MiB/s, done.
Resolving deltas: 100% (8616/8616), done.
```

```
jtfang15@DESKTOP-N8ULKTN:~$ cd iot
jtfang15@DESKTOP-N8ULKTN:~/iot$ ls
README.md  lesson1  lesson10 lesson2  lesson3  lesson4  lesson5  lesson6  lesson7  lesson8  lesson9  projects  special_problems  standards
jtfang15@DESKTOP-N8ULKTN:~/iot$ cd
```

```
jfang15@DESKTOP-N8ULKTN:~$ df
Filesystem      1K-blocks      Used Available Use% Mounted on
rootfs          499004412 385642120 113362292   78% /
none            499004412 385642120 113362292   78% /dev
none            499004412 385642120 113362292   78% /run
none            499004412 385642120 113362292   78% /run/lock
none            499004412 385642120 113362292   78% /run/shm
none            499004412 385642120 113362292   78% /run/user
tmpfs           499004412 385642120 113362292   78% /sys/fs/cgroup
C:\             499004412 385642120 113362292   78% /mnt/c
```

```
jfang15@DESKTOP-N8ULKTN:~$ mkdir demo
jfang15@DESKTOP-N8ULKTN:~$ cd demo
jfang15@DESKTOP-N8ULKTN:~/demo$ nano file
```

```
GNU nano 4.8      file      Modified
new file_

^G Get Help      ^O Write Out     ^W Where Is      ^K Cut Text      ^J Justify       ^C Cur Pos      M-U Undo        M-A Mark Text
^X Exit          ^R Read File     ^\ Replace       ^U Paste Text    ^T To Spell     ^_ Go To Line   M-E Redo        M-G Copy Text
```

```
jfang15@DESKTOP-N8ULKTN:~/demo$ cat file
new file
```

```
jfang15@DESKTOP-N8ULKTN:~/demo$ cp file file1
jfang15@DESKTOP-N8ULKTN:~/demo$ ls
file  file1
```

```
jfang15@DESKTOP-N8ULKTN:~/demo$ mv file file2
jfang15@DESKTOP-N8ULKTN:~/demo$ ls
file1  file2
jfang15@DESKTOP-N8ULKTN:~/demo$ cat file2
new file
```

```
jfang15@DESKTOP-N8ULKTN:~/demo$ rm file2
jfang15@DESKTOP-N8ULKTN:~/demo$ ls
file1
```

clear: all previous lines cleared

```
jfang15@DESKTOP-N8ULKTN:~/demo$
```

```

UNAME(1)                                     User Commands                                     UNAME(1)

NAME
    uname - print system information

SYNOPSIS
    uname [OPTION]...

DESCRIPTION
    Print certain system information.  With no OPTION, same as -s.

    -a, --all
        print all information, in the following order, except omit -p and -i if unknown:

    -s, --kernel-name
        print the kernel name

    -n, --nodename
        print the network node hostname

    -r, --kernel-release
        print the kernel release

    -v, --kernel-version
        print the kernel version

    -m, --machine
        print the machine hardware name

Manual page uname(1) line 1 (press h for help or q to quit)

```

```

jfang15@DESKTOP-N8ULKTN:~/demo$ uname -a
Linux DESKTOP-N8ULKTN 4.4.0-19041-Microsoft #1237-Microsoft Sat Sep 11 14:32:00 PST 2021 x86_64 x86_64 x86_64 GNU/Linux

```

```

jfang15@DESKTOP-N8ULKTN:~/demo$ ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 1500
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0xfe<compat,link,site,host>
    loop (Local Loopback)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wifi0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.157 netmask 255.255.255.0 broadcast 192.168.1.255
    ether 40:a3:cc:83:44:c9 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

```

jfang15@DESKTOP-N8ULKTN:~/demo$ ping localhost
PING localhost (127.0.0.1) 56(84) bytes of data.
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=128 time=0.508 ms
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=128 time=0.653 ms
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=128 time=0.261 ms
64 bytes from localhost (127.0.0.1): icmp_seq=4 ttl=128 time=0.290 ms
64 bytes from localhost (127.0.0.1): icmp_seq=5 ttl=128 time=0.608 ms
64 bytes from localhost (127.0.0.1): icmp_seq=6 ttl=128 time=0.265 ms
64 bytes from localhost (127.0.0.1): icmp_seq=7 ttl=128 time=0.555 ms
64 bytes from localhost (127.0.0.1): icmp_seq=8 ttl=128 time=0.720 ms
64 bytes from localhost (127.0.0.1): icmp_seq=9 ttl=128 time=0.224 ms
64 bytes from localhost (127.0.0.1): icmp_seq=10 ttl=128 time=0.727 ms
64 bytes from localhost (127.0.0.1): icmp_seq=11 ttl=128 time=0.729 ms
64 bytes from localhost (127.0.0.1): icmp_seq=12 ttl=128 time=0.724 ms
64 bytes from localhost (127.0.0.1): icmp_seq=13 ttl=128 time=0.741 ms
^C
--- localhost ping statistics ---
13 packets transmitted, 13 received, 0% packet loss, time 12014ms
rtt min/avg/max/mdev = 0.224/0.538/0.741/0.198 ms

```

```

jfang15@DESKTOP-N8ULKTN:~/demo$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags               Type                   State                  I-Node    Path

```