@ip-172-31-21-27:~#

root@ip-172-31-21-27:~# cd /

root@ip-172-31-21-27:/# ls

bin dev home lib32 libx32 media opt root sbin srv tmp var

boot etc lib lib64 lost+found mnt proc run snap sys usr

root@ip-172-31-21-27:/# ifconfig

Command 'ifconfig' not found, but can be installed with:

apt install net-tools

root@ip-172-31-21-27:/# lsblk

NAME MAJ:MIN RM SIZE RO TYPE MOUNTPOINT

loop0 7:0 0 33.3M 1 loop /snap/amazon-ssm-agent/3552

loop1 7:1 0 55.5M 1 loop /snap/core18/1997

loop2 7:2 0 70.4M 1 loop /snap/lxd/19647

loop3 7:3 0 32.3M 1 loop /snap/snapd/11588

xvda 202:0 0 100G 0 disk

└─xvda1 202:1 0 100G 0 part /

root@ip-172-31-21-27:/#

login as: ubuntu

Authenticating with public key "imported-openssh-key"

Welcome to Ubuntu 20.04.2 LTS (GNU/Linux 5.4.0-1045-aws x86\_64)

\* Documentation: https://help.ubuntu.com

\* Management: https://landscape.canonical.com

\* Support: https://ubuntu.com/advantage

System information as of Fri Oct 22 02:17:44 UTC 2021

System load: 0.0 Processes: 104

Usage of /: 1.5% of 96.88GB Users logged in: 1

Memory usage: 23% IPv4 address for eth0: 172.31.21.27

Swap usage: 0%

139 updates can be applied immediately.

71 of these updates are standard security updates.

To see these additional updates run: apt list --upgradable

Last login: Fri Oct 22 01:51:18 2021 from 49.204.199.113

ubuntu@ip-172-31-21-27:~$ sudo -i

root@ip-172-31-21-27:~# df -h

Filesystem Size Used Avail Use% Mounted on

/dev/root 97G 1.5G 96G 2% /

devtmpfs 484M 0 484M 0% /dev

tmpfs 490M 0 490M 0% /dev/shm

tmpfs 98M 792K 98M 1% /run

tmpfs 5.0M 0 5.0M 0% /run/lock

tmpfs 490M 0 490M 0% /sys/fs/cgroup

/dev/loop0 34M 34M 0 100% /snap/amazon-ssm-agent/3552

/dev/loop1 56M 56M 0 100% /snap/core18/1997

/dev/loop2 71M 71M 0 100% /snap/lxd/19647

/dev/loop3 33M 33M 0 100% /snap/snapd/11588

tmpfs 98M 0 98M 0% /run/user/1000

root@ip-172-31-21-27:~# cd /

root@ip-172-31-21-27:/# df -h

Filesystem Size Used Avail Use% Mounted on

/dev/root 97G 1.5G 96G 2% /

devtmpfs 484M 0 484M 0% /dev

tmpfs 490M 0 490M 0% /dev/shm

tmpfs 98M 792K 98M 1% /run

tmpfs 5.0M 0 5.0M 0% /run/lock

tmpfs 490M 0 490M 0% /sys/fs/cgroup

/dev/loop0 34M 34M 0 100% /snap/amazon-ssm-agent/3552

/dev/loop1 56M 56M 0 100% /snap/core18/1997

/dev/loop2 71M 71M 0 100% /snap/lxd/19647

/dev/loop3 33M 33M 0 100% /snap/snapd/11588

tmpfs 98M 0 98M 0% /run/user/1000

root@ip-172-31-21-27:/# cd bin

root@ip-172-31-21-27:/bin# du -h

105M .

root@ip-172-31-21-27:/bin# lscpu

Architecture: x86\_64

CPU op-mode(s): 32-bit, 64-bit

Byte Order: Little Endian

Address sizes: 46 bits physical, 48 bits virtual

CPU(s): 1

On-line CPU(s) list: 0

Thread(s) per core: 1

Core(s) per socket: 1

Socket(s): 1

NUMA node(s): 1

Vendor ID: GenuineIntel

CPU family: 6

Model: 63

Model name: Intel(R) Xeon(R) CPU E5-2676 v3 @ 2.40GHz

Stepping: 2

CPU MHz: 2400.341

BogoMIPS: 4800.13

Hypervisor vendor: Xen

Virtualization type: full

L1d cache: 32 KiB

L1i cache: 32 KiB

L2 cache: 256 KiB

L3 cache: 30 MiB

NUMA node0 CPU(s): 0

Vulnerability Itlb multihit: KVM: Vulnerable

Vulnerability L1tf: Mitigation; PTE Inversion

Vulnerability Mds: Vulnerable: Clear CPU buffers attempted, no microcode; SMT Host state unknown

Vulnerability Meltdown: Mitigation; PTI

Vulnerability Spec store bypass: Vulnerable

Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and \_\_user pointer sanitization

Vulnerability Spectre v2: Mitigation; Full generic retpoline, STIBP disabled, RSB filling

Vulnerability Srbds: Not affected

Vulnerability Tsx async abort: Not affected

Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx rdtscp lm constant\_tsc rep\_good nopl xtopolo

gy cpuid pni pclmulqdq ssse3 fma cx16 pcid sse4\_1 sse4\_2 x2apic movbe popcnt tsc\_deadline\_timer aes xsave avx f16c rdrand hypervisor lahf\_lm abm cpuid\_fault

invpcid\_single pti fsgsbase bmi1 avx2 smep bmi2 erms invpcid xsaveopt

root@ip-172-31-21-27:/bin# top

top - 02:23:50 up 34 min, 2 users, load average: 0.00, 0.00, 0.00

Tasks: 95 total, 1 running, 94 sleeping, 0 stopped, 0 zombie

%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st

MiB Mem : 978.6 total, 189.3 free, 173.2 used, 616.1 buff/cache

MiB Swap: 0.0 total, 0.0 free, 0.0 used. 652.9 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND

4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu\_par\_gp

6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-kblockd

9 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm\_percpu\_wq

10 root 20 0 0 0 0 S 0.0 0.0 0:00.08 ksoftirqd/0

11 root 20 0 0 0 0 I 0.0 0.0 0:00.48 rcu\_sched

12 root rt 0 0 0 0 S 0.0 0.0 0:00.01 migration/0

13 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0

14 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs

15 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns

16 root 20 0 0 0 0 S 0.0 0.0 0:00.00 rcu\_tasks\_kthre

17 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd

18 root 20 0 0 0 0 S 0.0 0.0 0:00.00 khungtaskd

19 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom\_reaper

20 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback

21 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kcompactd0

22 root 25 5 0 0 0 S 0.0 0.0 0:00.00 ksmd

23 root 39 19 0 0 0 S 0.0 0.0 0:00.00 khugepaged

69 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kintegrityd

70 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kblockd

71 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 blkcg\_punt\_bio

72 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 tpm\_dev\_wq

73 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 ata\_sff

74 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 md

75 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 edac-poller

76 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 devfreq\_wq

77 root rt 0 0 0 0 S 0.0 0.0 0:00.00 watchdogd

78 root 20 0 0 0 0 I 0.0 0.0 0:00.04 kworker/u30:1-events\_power\_efficient

80 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kswapd0

81 root 20 0 0 0 0 S 0.0 0.0 0:00.00 ecryptfs-kthrea

83 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kthrotld

84 root 20 0 0 0 0 S 0.0 0.0 0:00.00 xenbus

85 root 20 0 0 0 0 S 0.0 0.0 0:00.01 xenwatch

86 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 nvme-wq

87 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 nvme-reset-wq

88 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 nvme-delete-wq

89 root 20 0 0 0 0 S 0.0 0.0 0:00.00 scsi\_eh\_0

90 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 scsi\_tmf\_0

91 root 20 0 0 0 0 S 0.0 0.0 0:00.00 scsi\_eh\_1

92 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 scsi\_tmf\_1

94 root 0 -20 0 0 0 I 0.0 0.0 0:00.04 kworker/0:1H-kblockd

95 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 ipv6\_addrconf

104 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kstrp

107 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/u31:0

root@ip-172-31-21-27:/bin# free -h

total used free shared buff/cache available

Mem: 978Mi 171Mi 190Mi 0.0Ki 616Mi 654Mi

Swap: 0B 0B 0B

root@ip-172-31-21-27:/bin# cd ..

root@ip-172-31-21-27:/# netstat -plunt

Command 'netstat' not found, but can be installed with:

apt install net-tools

root@ip-172-31-21-27:/# apt

apt 2.0.5 (amd64)

Usage: apt [options] command

apt is a commandline package manager and provides commands for

searching and managing as well as querying information about packages.

It provides the same functionality as the specialized APT tools,

like apt-get and apt-cache, but enables options more suitable for

interactive use by default.

Most used commands:

list - list packages based on package names

search - search in package descriptions

show - show package details

install - install packages

reinstall - reinstall packages

remove - remove packages

autoremove - Remove automatically all unused packages

update - update list of available packages

upgrade - upgrade the system by installing/upgrading packages

full-upgrade - upgrade the system by removing/installing/upgrading packages

edit-sources - edit the source information file

satisfy - satisfy dependency strings

See apt(8) for more information about the available commands.

Configuration options and syntax is detailed in apt.conf(5).

Information about how to configure sources can be found in sources.list(5).

Package and version choices can be expressed via apt\_preferences(5).

Security details are available in apt-secure(8).

This APT has Super Cow Powers.

root@ip-172-31-21-27:/# apt install net-tools

Reading package lists... Done

Building dependency tree

Reading state information... Done

The following NEW packages will be installed:

net-tools

0 upgraded, 1 newly installed, 0 to remove and 118 not upgraded.

Need to get 196 kB of archives.

After this operation, 864 kB of additional disk space will be used.

Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ubuntu1 [196 kB]

Fetched 196 kB in 0s (9241 kB/s)

Selecting previously unselected package net-tools.

(Reading database ... 60149 files and directories currently installed.)

Preparing to unpack .../net-tools\_1.60+git20180626.aebd88e-1ubuntu1\_amd64.deb .. .

Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...

Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...

Processing triggers for man-db (2.9.1-1) ...

root@ip-172-31-21-27:/# apt install net-tools

Reading package lists... Done

Building dependency tree

Reading state information... Done

net-tools is already the newest version (1.60+git20180626.aebd88e-1ubuntu1).

0 upgraded, 0 newly installed, 0 to remove and 118 not upgraded.

root@ip-172-31-21-27:/# netstat -plunt

Active Internet connections (only servers)

Proto Recv-Q Send-Q Local Address Foreign Address State PID/Program name

tcp 0 0 127.0.0.53:53 0.0.0.0:\* LISTEN 380/systemd-resolve

tcp 0 0 0.0.0.0:22 0.0.0.0:\* LISTEN 659/sshd: /usr/sbin

tcp6 0 0 :::22 :::\* LISTEN 659/sshd: /usr/sbin

udp 0 0 127.0.0.53:53 0.0.0.0:\* 380/systemd-resolve

udp 0 0 172.31.21.27:68 0.0.0.0:\* 377/systemd-network

root@ip-172-31-21-27:/# ifconfig

eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 9001

inet 172.31.21.27 netmask 255.255.240.0 broadcast 172.31.31.255

inet6 fe80::48d:6dff:fe08:b154 prefixlen 64 scopeid 0x20<link>

ether 06:8d:6d:08:b1:54 txqueuelen 1000 (Ethernet)

RX packets 16519 bytes 21571888 (21.5 MB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 4799 bytes 897242 (897.2 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536

inet 127.0.0.1 netmask 255.0.0.0

inet6 ::1 prefixlen 128 scopeid 0x10<host>

loop txqueuelen 1000 (Local Loopback)

RX packets 198 bytes 17030 (17.0 KB)

RX errors 0 dropped 0 overruns 0 frame 0

TX packets 198 bytes 17030 (17.0 KB)

TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@ip-172-31-21-27:/# cat /etc/host

cat: /etc/host: No such file or directory

root@ip-172-31-21-27:/# hosts

Command 'hosts' not found, but can be installed with:

apt install golang-github-vmware-govmomi-dev

root@ip-172-31-21-27:/# cat /etc/hosts

127.0.0.1 localhost

# The following lines are desirable for IPv6 capable hosts

::1 ip6-localhost ip6-loopback

fe00::0 ip6-localnet

ff00::0 ip6-mcastprefix

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters

ff02::3 ip6-allhosts

root@ip-172-31-21-27:/# cd

root@ip-172-31-21-27:~# cd /

root@ip-172-31-21-27:/# opt

Command 'opt' not found, but can be installed with:

apt install llvm

root@ip-172-31-21-27:/# cd opt

root@ip-172-31-21-27:/opt# ls

root@ip-172-31-21-27:/opt# touch dummy.txt

root@ip-172-31-21-27:/opt# vi dummy.txt

root@ip-172-31-21-27:/opt# cat dummy.txt

hjiuhhghdgihieiughhghg

hbberjjbnjkgjrngjasdasdffg ;lkjh asasasdfg ;lkjj asdfg ;lkjh hasddasdfg ;lkjh

root@ip-172-31-21-27:/opt# vi dummy.txt

root@ip-172-31-21-27:/opt# cat dummy.txt

hjiuhhghdgihieiughhghg

hbberjjbnjkgjrngjasdasdffg ;lkjh asasasdfg ;lkjj asdfg ;lkjh hasddasdfg ;lkjh

root@ip-172-31-21-27:/opt# mv dummy.txt mumy.txt

root@ip-172-31-21-27:/opt# ls

mumy.txt

root@ip-172-31-21-27:/opt# mv mumy.txt /root

root@ip-172-31-21-27:/opt# ls

root@ip-172-31-21-27:/opt# ls /root

mumy.txt snap

root@ip-172-31-21-27:/opt# cd /

root@ip-172-31-21-27:/# cd /root

root@ip-172-31-21-27:~# ls

mumy.txt snap

root@ip-172-31-21-27:~# cp mumy.txt /opt

root@ip-172-31-21-27:~# ls /opt

mumy.txt

root@ip-172-31-21-27:~# rm -rf mumy.txt

root@ip-172-31-21-27:~# ls

snap

root@ip-172-31-21-27:~# history

1 df -h

2 cd /

3 df -h

4 cd bin

5 du -h

6 lscpu

7 top

8 free -h

9 cd ..

10 netstat -plunt

11 apt

12 apt install net-tools

13 netstat -plunt

14 ifconfig

15 cat /etc/host

16 hosts

17 cat /etc/hosts

18 cd

19 cd /

20 opt

21 cd opt

22 ls

23 touch dummy.txt

24 vi dummy.txt

25 cat dummy.txt

26 vi dummy.txt

27 cat dummy.txt

28 mv dummy.txt mumy.txt

29 ls

30 mv mumy.txt /root

31 ls

32 ls /root

33 cd /

34 cd /root

35 ls

36 cp mumy.txt /opt

37 ls /opt

38 rm -rf mumy.txt

39 ls

40 history

root@ip-172-31-21-27:~# ^C