1. ls - вывод содержимого текущего каталога.
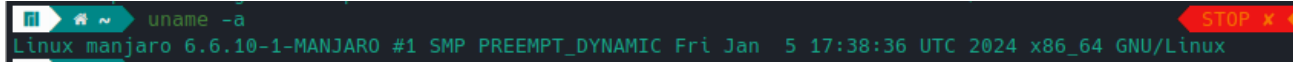

2. pwd - вывод текущего рабочего каталога.
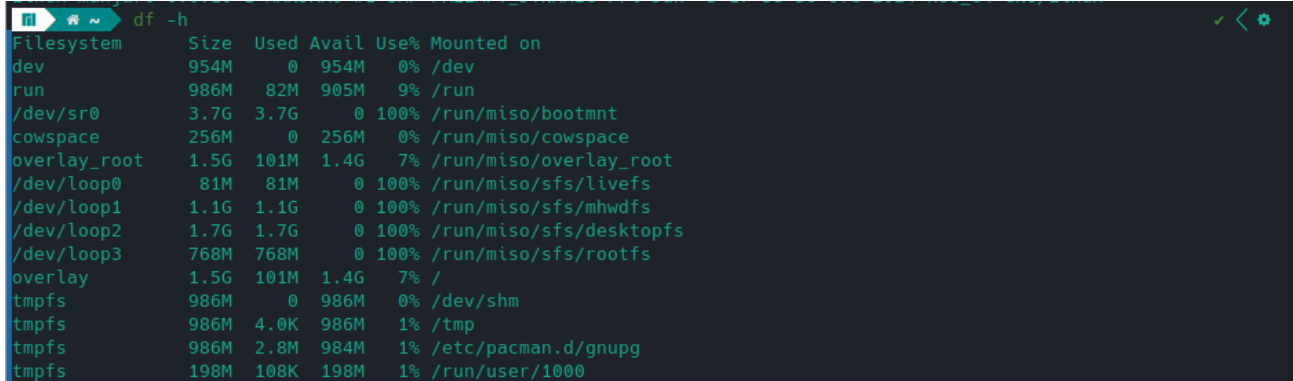
3. uname -a - вывод информации о системе (версия ядра, архитектура и т.д.).
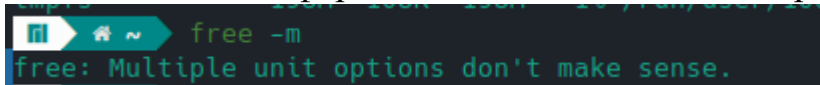
4. df -h - вывод информации о доступном месте на диске.

5. free -m - вывод информации о использовании оперативной памяти.

6. top - отображение списка активных процессов с динамическим обновлением.

```
top - 09:01:50 up 9 min,  1 user,  load average: 0.31, 0.51, 0.37
Tasks: 148 total,   1 running, 147 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.2 us,  0.9 sy,  0.0 ni, 99.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :   1971.5 total,    119.2 free,   1258.0 used,    960.3 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.    713.5 avail Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
 1011 root      20   0  359112  93936  62996 S   1.3   4.7   0:20.48 Xorg
 1308 manjaro   20   0 2026320 408952 175308 S   0.7  20.3   0:13.94 plasmashell
 1665 manjaro   20   0  215908   2656   2176 S   0.7   0.1   0:01.66 VBoxClient
   12 root      20   0       0      0      0 I   0.3   0.0   0:05.44 kworker/u4:1-events_unbound
   54 root      20   0       0      0      0 I   0.3   0.0   0:00.87 kworker/u4:3-events_unbound
 1129 manjaro   20   0 1663000 285468 153612 S   0.3  14.1   0:20.35 kwin_x11
 1655 manjaro   20   0  215392   2912   2304 S   0.3   0.1   0:00.72 VBoxClient
    1 root      20   0   22560  13936  10488 S   0.0   0.7   0:01.40 systemd
    2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
    3 root      20   0       0      0      0 S   0.0   0.0   0:00.00 pool_workqueue_release
    4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-rcu_g
    5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-rcu_p
    6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-slub_
    7 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-netns
    8 root      20   0       0      0      0 I   0.0   0.0   0:00.34 kworker/0:0-events
    9 root      20   0       0      0      0 I   0.0   0.0   0:00.06 kworker/0:1-cgroup_destroy
   10 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/0:0H-events_highpri
   11 root      20   0       0      0      0 I   0.0   0.0   0:00.96 kworker/u4:0-events_power_efficient
   13 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-mm_pe
   14 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_kthread
   15 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_rude_kthread
   16 root      20   0       0      0      0 I   0.0   0.0   0:00.00 rcu_tasks_trace_kthread
   17 root      20   0       0      0      0 S   0.0   0.0   0:00.44 ksoftirqd/0
   18 root      -2   0       0      0      0 I   0.0   0.0   0:00.46 rcu_preempt
   19 root      -2   0       0      0      0 S   0.0   0.0   0:00.00 rcub/0
   20 root      rt   0       0      0      0 S   0.0   0.0   0:00.00 migration/0
   21 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/0
   22 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/0
   23 root      20   0       0      0      0 S   0.0   0.0   0:00.00 cpuhp/1
   24 root     -51   0       0      0      0 S   0.0   0.0   0:00.00 idle_inject/1
   25 root      rt   0       0      0      0 S   0.0   0.0   0:00.19 migration/1
   26 root      20   0       0      0      0 S   0.0   0.0   0:00.49 ksoftirqd/1
   27 root      20   0       0      0      0 I   0.0   0.0   0:01.58 kworker/1:0-events
   29 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kdevtmpfs
   30 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-inet_
   31 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kauditd
   32 root      20   0       0      0      0 S   0.0   0.0   0:00.00 khungtaskd
   34 root      20   0       0      0      0 S   0.0   0.0   0:00.00 oom_reaper
   35 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-write
   36 root      20   0       0      0      0 S   0.0   0.0   0:00.23 kcompactd0
   37 root      25   5       0      0      0 S   0.0   0.0   0:00.00 ksmd
   38 root      39  19       0      0      0 S   0.0   0.0   0:00.10 khugepaged
   39 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-kinte
zsh: suspended (signal)  top       0      0      0 I   0.0   0.0   0:00.00 kworker/R-kbloc
```

7. ps aux - вывод списка всех запущенных процессов с подробной информацией.

```
 > ps aux
USER        PID %CPU %MEM    VSZ   RSS TTY      STAT START   TIME COMMAND
root          1  0.1  0.6  22560 13936 ?        Ss   08:52   0:01 /sbin/init splash
root          2  0.0  0.0      0     0 ?        S    08:52   0:00 [kthreadd]
root          3  0.0  0.0      0     0 ?        S    08:52   0:00 [pool_workqueue_release]
root          4  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-rcu_g]
root          5  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-rcu_p]
root          6  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-slub_]
root          7  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-netns]
root          8  0.0  0.0      0     0 ?        I    08:52   0:00 [kworker/0:0-events]
root          9  0.0  0.0      0     0 ?        I    08:52   0:00 [kworker/0:1-cgroup_destroy]
root         10  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/0:0H-events_highpri]
root         11  0.1  0.0      0     0 ?        I    08:52   0:00 [kworker/u4:0-events_power_efficient]
root         12  0.7  0.0      0     0 ?        I    08:52   0:05 [kworker/u4:1-events_power_efficient]
root         13  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-mm_pe]
root         14  0.0  0.0      0     0 ?        I    08:52   0:00 [rcu_tasks_kthread]
root         15  0.0  0.0      0     0 ?        I    08:52   0:00 [rcu_tasks_rude_kthread]
root         16  0.0  0.0      0     0 ?        I    08:52   0:00 [rcu_tasks_trace_kthread]
root         17  0.0  0.0      0     0 ?        S    08:52   0:00 [ksoftirqd/0]
root         18  0.0  0.0      0     0 ?        I    08:52   0:00 [rcu_preempt]
root         19  0.0  0.0      0     0 ?        S    08:52   0:00 [rcub/0]
root         20  0.0  0.0      0     0 ?        S    08:52   0:00 [migration/0]
root         21  0.0  0.0      0     0 ?        S    08:52   0:00 [idle_inject/0]
root         22  0.0  0.0      0     0 ?        S    08:52   0:00 [cpuhp/0]
root         23  0.0  0.0      0     0 ?        S    08:52   0:00 [cpuhp/1]
root         24  0.0  0.0      0     0 ?        S    08:52   0:00 [idle_inject/1]
root         25  0.0  0.0      0     0 ?        S    08:52   0:00 [migration/1]
root         26  0.0  0.0      0     0 ?        S    08:52   0:00 [ksoftirqd/1]
root         27  0.2  0.0      0     0 ?        I    08:52   0:01 [kworker/1:0-ata_sff]
root         29  0.0  0.0      0     0 ?        S    08:52   0:00 [kdevtmpfs]
root         30  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-inet_]
root         31  0.0  0.0      0     0 ?        S    08:52   0:00 [kauditd]
root         32  0.0  0.0      0     0 ?        S    08:52   0:00 [khungtaskd]
root         34  0.0  0.0      0     0 ?        S    08:52   0:00 [oom_reaper]
root         35  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-write]
root         36  0.0  0.0      0     0 ?        S    08:52   0:00 [kcompactd0]
root         37  0.0  0.0      0     0 ?        SN   08:52   0:00 [ksmd]
root         38  0.0  0.0      0     0 ?        SN   08:52   0:00 [khugepaged]
root         39  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-kinte]
root         40  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-kbloc]
root         41  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-blkcg]
root         42  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-tpm_d]
root         43  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-ata_s]
root         44  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-edac-]
root         45  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-devfr]
root         46  0.0  0.0      0     0 ?        S    08:52   0:00 [watchdogd]
root         47  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/0:1H-kblockd]
root         49  0.0  0.0      0     0 ?        S    08:52   0:00 [kswapd0]
root         50  0.0  0.0      0     0 ?        I<   08:52   0:00 [kworker/R-kthro]
```
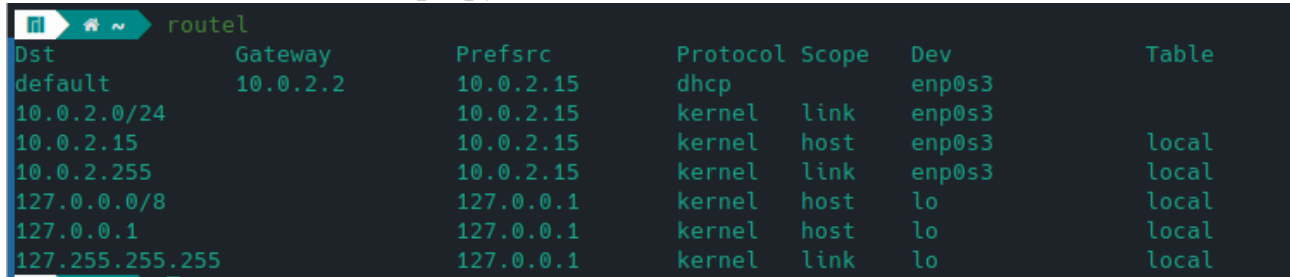
8. _ifconfig - вывод информации о сетевых интерфейсах.

```
 > _ifconfig
_arguments:comparguments:327: can only be called from completion function
```

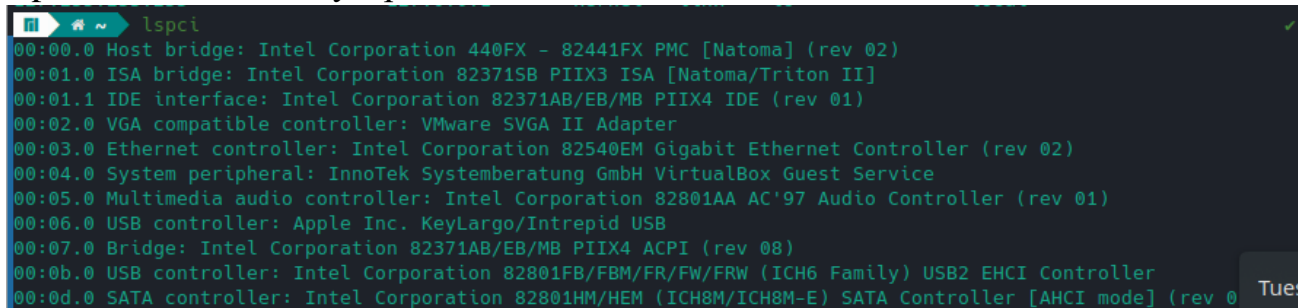9. ip addr show - альтернативная команда для отображения информации о сетевых интерфейсах.

```
 > ip addr show
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 noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:cb:a9:7c brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
       valid_lft 85535sec preferred_lft 85535sec
    inet6 fe80::943a:21b2:c9d4:13a3/64 scope link noprefixroute
       valid_lft forever preferred_lft forever
```

10.routel - вывод таблицы маршрутизации.

```
routel
Dst                 Gateway         Prefsrc         Protocol Scope   Dev             Table
default             10.0.2.2        10.0.2.15       dhcp             enp0s3
10.0.2.0/24                         10.0.2.15       kernel   link    enp0s3
10.0.2.15                           10.0.2.15       kernel   host    enp0s3          local
10.0.2.255                          10.0.2.15       kernel   link    enp0s3          local
127.0.0.0/8                         127.0.0.1       kernel   host    lo              local
127.0.0.1                           127.0.0.1       kernel   host    lo              local
127.255.255.255                     127.0.0.1       kernel   link    lo              local
```
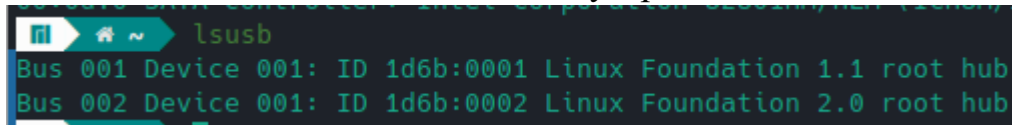
11.lspci - вывод списка устройств, подключенных к шине PCI.

```
lspci
00:00.0 Host bridge: Intel Corporation 440FX - 82441FX PMC [Natoma] (rev 02)
00:01.0 ISA bridge: Intel Corporation 82371SB PIIX3 ISA [Natoma/Triton II]
00:01.1 IDE interface: Intel Corporation 82371AB/EB/MB PIIX4 IDE (rev 01)
00:02.0 VGA compatible controller: VMware SVGA II Adapter
00:03.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controller (rev 02)
00:04.0 System peripheral: InnoTek Systemberatung GmbH VirtualBox Guest Service
00:05.0 Multimedia audio controller: Intel Corporation 82801AA AC'97 Audio Controller (rev 01)
00:06.0 USB controller: Apple Inc. KeyLargo/Intrepid USB
00:07.0 Bridge: Intel Corporation 82371AB/EB/MB PIIX4 ACPI (rev 08)
00:0b.0 USB controller: Intel Corporation 82801FB/FBM/FR/FW/FRW (ICH6 Family) USB2 EHCI Controller
00:0d.0 SATA controller: Intel Corporation 82801HM/HEM (ICH8M/ICH8M-E) SATA Controller [AHCI mode] (rev 0
```

12.lsusb - вывод списка подключенных устройств USB.

```
lsusb
Bus 001 Device 001: ID 1d6b:0001 Linux Foundation 1.1 root hub
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

13.cat /proc/cpuinfo - вывод информации о процессоре.

```
cat /proc/cpuinfo
processor       : 0
vendor_id       : AuthenticAMD
cpu family      : 25
model           : 80
model name      : AMD Ryzen 5 5600H with Radeon Graphics
stepping        : 0
microcode       : 0xffffffff
cpu MHz         : 3293.732
cache size      : 512 KB
physical id     : 0
siblings        : 2
core id         : 0
cpu cores       : 2
apicid          : 0
initial apicid  : 0
fpu             : yes
fpu_exception   : yes
cpuid level     : 13
wp              : yes
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 mmext fxsr_opt rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid tsc_known_freq pni
pclmulqdq ssse3 cx16 sse4_1 sse4_2 movbe popcnt aes rdrand hypervisor lahf_lm cmp_legacy cr8_legacy abm sse4a misali
gnsse 3dnowprefetch vmmcall fsgsbase bmi1 bmi2 invpcid rdseed clflushopt arat
bugs            : fxsave_leak sysret_ss_attrs null_seg spectre_v1 spectre_v2 srso
bogomips        : 6590.94
TLB size        : 2560 4K pages
clflush size    : 64
cache_alignment : 64
address sizes   : 48 bits physical, 48 bits virtual
power management:

processor       : 1
vendor_id       : AuthenticAMD
cpu family      : 25
model           : 80
model name      : AMD Ryzen 5 5600H with Radeon Graphics
stepping        : 0
microcode       : 0xffffffff
cpu MHz         : 3293.732
cache size      : 512 KB
physical id     : 0
siblings        : 2
core id         : 1
cpu cores       : 2
apicid          : 1
```

14.cat /proc/meminfo - вывод информации о памяти.

```
cat /proc/meminfo
MemTotal:         2018848 kB
MemFree:           100556 kB
MemAvailable:      647940 kB
Buffers:              112 kB
Cached:            873532 kB
SwapCached:             0 kB
Active:            833252 kB
Inactive:          911108 kB
Active(anon):      681032 kB
Inactive(anon):    408676 kB
Active(file):      152220 kB
Inactive(file):    502432 kB
Unevictable:           68 kB
Mlocked:               68 kB
SwapTotal:              0 kB
SwapFree:               0 kB
Zswap:                  0 kB
Zswapped:               0 kB
Dirty:                  0 kB
Writeback:              0 kB
AnonPages:         862980 kB
Mapped:            288292 kB
Shmem:             218992 kB
KReclaimable:       48620 kB
Slab:               97752 kB
SReclaimable:       48620 kB
SUnreclaim:         49132 kB
KernelStack:         5952 kB
PageTables:         15272 kB
SecPageTables:          0 kB
NFS_Unstable:           0 kB
Bounce:                 0 kB
WritebackTmp:           0 kB
CommitLimit:      1009424 kB
Committed_AS:     4298848 kB
VmallocTotal:   34359738367 kB
VmallocUsed:        28792 kB
VmallocChunk:           0 kB
Percpu:              1016 kB
```

15. uptime - вывод времени работы системы и текущей нагрузки.

```
uptime
 09:11:13 up 19 min,  1 user,  load average: 0.17, 0.30, 0.32
```

16. date - вывод текущей даты и времени.

```
date
Tue Mar  5 09:11:40 AM UTC 2024
```

17. who - вывод информации о текущих пользователях системы.

18. dmesg - вывод системных сообщений.

19. journalctl - просмотр журналов системы.

20. lsblk - вывод информации о блочных устройствах (дисках и их разделах).

```
 ▛ ⚒ ~   lsblk
NAME    MAJ:MIN RM   SIZE RO TYPE MOUNTPOINTS
loop0     7:0    0  80.7M  1 loop /run/miso/sfs/livefs
loop1     7:1    0   1.1G  1 loop /run/miso/sfs/mhwdfs
loop2     7:2    0   1.7G  1 loop /run/miso/sfs/desktopfs
loop3     7:3    0 767.4M  1 loop /run/miso/sfs/rootfs
sda       8:0    0   30G   0 disk
└─sda1    8:1    0   30G   0 part
sr0      11:0    1   3.7G  0 rom  /run/miso/bootmnt
```