

```
cttc@cttc-desktop:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
qlen 1
    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
        valid_lft forever preferred_lft forever
2: dummy0: <BROADCAST,NOARP> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether 8a:85:ad:db:65:a2 brd ff:ff:ff:ff:ff:ff
3: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group
default qlen 1000
    link/ether 00:04:4b:ec:20:81 brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.45/24 brd 192.168.1.255 scope global dynamic noprefixroute eth0
        valid_lft 43164sec preferred_lft 43164sec
    inet6 fe80::fc6e:ca78:a7ef:969/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
4: l4tbr0: <BROADCAST,MULTICAST> mtu 1500 qdisc noop state DOWN group default qlen 1000
    link/ether a2:83:44:92:e2:c9 brd ff:ff:ff:ff:ff:ff
5: wlan0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc mq state DOWN group
default qlen 1000
    link/ether b4:74:9f:b4:7e:96 brd ff:ff:ff:ff:ff:ff
6: rndis0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast master l4tbr0
state DOWN group default qlen 1000
    link/ether a2:83:44:92:e2:c9 brd ff:ff:ff:ff:ff:ff
7: usb0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast master l4tbr0
state DOWN group default qlen 1000
    link/ether a2:83:44:92:e2:cb brd ff:ff:ff:ff:ff:ff
8: docker0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN
group default
    link/ether 02:42:6f:6a:fd:ba brd ff:ff:ff:ff:ff:ff
    inet 172.17.0.1/16 brd 172.17.255.255 scope global docker0
        valid_lft forever preferred_lft forever
cttc@cttc-desktop:~$ cat /etc/lsb-release
DISTRIB_ID=Ubuntu
DISTRIB_RELEASE=18.04
DISTRIB_CODENAME=bionic
DISTRIB_DESCRIPTION="Ubuntu 18.04.5 LTS"
cttc@cttc-desktop:~$ cat /etc/nv_tegra-release
cat: /etc/nv_tegra-release: No such file or directory
cttc@cttc-desktop:~$ cat /etc/nv_tegra_release
# R32 (release), REVISION: 5.1, GCID: 27362550, BOARD: t210ref, EABI: aarch64, DATE: Wed
May 19 18:07:59 UTC 2021
cttc@cttc-desktop:~$ uname -a
Linux cttc-desktop 4.9.201-tegra #1 SMP PREEMPT Wed May 5 09:31:36 PDT 2021 aarch64 aarch64
aarch64 GNU/Linux
cttc@cttc-desktop:~$ lscpu
Architecture:      aarch64
Byte Order:        Little Endian
```

CPU(s): 4  
On-line CPU(s) list: 0,1  
Off-line CPU(s) list: 2,3  
Thread(s) per core: 1  
Core(s) per socket: 2  
Socket(s): 1  
Vendor ID: ARM  
Model: 1  
Model name: Cortex-A57  
Stepping: r1p1  
CPU max MHz: 1479,0000  
CPU min MHz: 102,0000  
BogoMIPS: 38.40  
L1d cache: 32K  
L1i cache: 48K  
L2 cache: 2048K  
Flags: fp asimd evtstrm aes pmull sha1 sha2 crc32  
cttc@cttc-desktop:~\$ sudo lshw  
[sudo] password for cttc:  
cttc-desktop  
description: Computer  
product: NVIDIA Jetson Nano Developer Kit  
serial: 1423219059335  
width: 64 bits  
capabilities: smp cp15\_barrier setend swp  
\*-core  
description: Motherboard  
physical id: 0  
\*-cpu:0  
description: CPU  
product: cpu  
physical id: 0  
bus info: cpu@0  
size: 921MHz  
capacity: 1479MHz  
capabilities: fp asimd evtstrm aes pmull sha1 sha2 crc32 cpufreq  
\*-cpu:1  
description: CPU  
product: cpu  
physical id: 3  
bus info: cpu@1  
size: 921MHz  
capacity: 1479MHz  
capabilities: fp asimd evtstrm aes pmull sha1 sha2 crc32 cpufreq  
\*-cpu:2 DISABLED  
description: CPU  
product: cpu  
physical id: 4  
bus info: cpu@2

size: 921MHz  
capacity: 1479MHz  
capabilities: cpufreq  
\*-cpu:3 DISABLED  
description: CPU  
product: cpu  
physical id: 5  
bus info: cpu@3  
size: 921MHz  
capacity: 1479MHz  
capabilities: cpufreq  
\*-cpu:4 DISABLED  
description: CPU  
product: idle-states  
physical id: 6  
bus info: cpu@4  
\*-cpu:5 DISABLED  
description: CPU  
product: l2-cache  
physical id: 7  
bus info: cpu@5  
\*-memory  
description: System memory  
physical id: 8  
size: 3956MiB  
\*-pci:0  
description: PCI bridge  
product: NVIDIA Corporation  
vendor: NVIDIA Corporation  
physical id: 1  
bus info: pci@0000:00:01.0  
version: a1  
width: 32 bits  
clock: 33MHz  
capabilities: pci pm msi ht pciexpress normal\_decode bus\_master cap\_list  
configuration: driver=pcieport  
resources: irq:84 memory:13000000-130fffff  
\*-network  
description: Wireless interface  
product: AR928X Wireless Network Adapter (PCI-Express)  
vendor: Qualcomm Atheros  
physical id: 0  
bus info: pci@0000:01:00.0  
logical name: wlan0  
version: 01  
serial: b4:74:9f:b4:7e:96  
width: 64 bits  
clock: 33MHz  
capabilities: pm msi pciexpress msix bus\_master cap\_list ethernet physical wireless

configuration: broadcast=yes driver=ath9k driverversion=4.9.201-tegra firmware=N/A  
latency=0 link=no multicast=yes wireless=IEEE 802.11  
resources: irq:84 memory:13000000-1300ffff

\*-pci:1

description: PCI bridge  
product: NVIDIA Corporation  
vendor: NVIDIA Corporation  
physical id: 2  
bus info: pci@0000:00:02.0  
version: a1  
width: 32 bits  
clock: 33MHz  
capabilities: pci pm msi ht pciexpress normal\_decode bus\_master cap\_list  
configuration: driver=pcieport  
resources: irq:84 ioport:1000(size=4096) memory:13100000-131fffff

\*-network

description: Ethernet interface  
product: RTL8111/8168/8411 PCI Express Gigabit Ethernet Controller  
vendor: Realtek Semiconductor Co., Ltd.  
physical id: 0  
bus info: pci@0000:02:00.0  
logical name: eth0  
version: 15  
serial: 00:04:4b:ec:20:81  
size: 1Gbit/s  
capacity: 1Gbit/s  
width: 64 bits  
clock: 33MHz  
capabilities: pm msi pciexpress msix vpd bus\_master cap\_list ethernet physical tp 10bt 10bt-fd 100bt 100bt-fd 1000bt-fd autonegotiation  
configuration: autonegotiation=on broadcast=yes driver=r8168 driverversion=8.045.08-NAPI  
duplex=full ip=192.168.1.45 latency=0 link=yes multicast=yes port=twisted pair speed=1Gbit/s  
resources: irq:406 ioport:1000(size=256) memory:13104000-13104fff memory:13100000-13103fff

\*-usbhost:0

product: xHCI Host Controller  
vendor: Linux 4.9.201-tegra xhci-hcd  
physical id: 1  
bus info: usb@1  
logical name: usb1  
version: 4.09  
capabilities: usb-2.00  
configuration: driver=hub slots=5 speed=480Mbit/s

\*-usb

description: USB hub  
product: 4-Port USB 2.1 Hub  
vendor: Generic  
physical id: 2  
bus info: usb@1:2

version: 1.01  
capabilities: usb-2.10  
configuration: driver=hub slots=4 speed=480Mbit/s  
\*-usb:0  
  description: Mouse  
  product: USB Optical Mouse  
  vendor: Logitech  
  physical id: 1  
  bus info: usb@1:2.1  
  version: 72.00  
  capabilities: usb-2.00  
  configuration: driver=usbhid maxpower=100mA speed=1Mbit/s  
\*-usb:1  
  description: Keyboard  
  product: USB Multimedia Keyboard  
  vendor: LITEON Technology  
  physical id: 2  
  bus info: usb@1:2.2  
  version: 1.01  
  capabilities: usb-1.10  
  configuration: driver=usbhid maxpower=70mA speed=1Mbit/s  
\*-usbhost:1  
  product: xHCI Host Controller  
  vendor: Linux 4.9.201-tegra xhci-hcd  
  physical id: 2  
  bus info: usb@2  
  logical name: usb2  
  version: 4.09  
  capabilities: usb-3.00  
  configuration: driver=hub slots=4 speed=5000Mbit/s  
\*-usb  
  description: USB hub  
  product: 4-Port USB 3.1 Hub  
  vendor: Generic  
  physical id: 1  
  bus info: usb@2:1  
  version: 1.01  
  capabilities: usb-3.10  
  configuration: driver=hub slots=4 speed=5000Mbit/s  
\*-network:0  
  description: Ethernet interface  
  physical id: 3  
  logical name: usb0  
  serial: a2:83:44:92:e2:cb  
  capabilities: ethernet physical  
  configuration: broadcast=yes driver=g\_ether driverversion=29-May-2008 firmware=tegra-xudc  
link=no multicast=yes  
\*-network:1  
  description: Ethernet interface

physical id: 4  
logical name: rndis0  
serial: a2:83:44:92:e2:c9  
capabilities: ethernet physical  
configuration: broadcast=yes driver=g\_ether driverversion=29-May-2008 firmware=tegra-xudc  
link=no multicast=yes  
\*-network:2 DISABLED  
description: Ethernet interface  
physical id: 5  
logical name: dummy0  
serial: 8a:85:ad:db:65:a2  
capabilities: ethernet physical  
configuration: broadcast=yes driver=dummy driverversion=1.0  
cttc@cttc-desktop:~\$