

1. ohne Netzkabel, nur interner WiFi

```
familie@LT-Lenovo-G70-35:~$ iwconfig
```

```
enp2s0    no wireless extensions.
```

```
wlp1s0    IEEE 802.11  ESSID:"German House"
          Mode:Managed  Frequency:2.472 GHz  Access Point: 44:FF:BA:0B:FA:C0
          Bit Rate=135 Mb/s   Tx-Power=20 dBm
          Retry short limit:7   RTS thr=2347 B   Fragment thr:off
          Power Management:on
          Link Quality=70/70  Signal level=-30 dBm
          Rx invalid nwid:0  Rx invalid crypt:0  Rx invalid frag:0
          Tx excessive retries:0  Invalid misc:3  Missed beacon:0
```

```
lo        no wireless extensions.
```

```
familie@LT-Lenovo-G70-35:~$ ifconfig
```

```
enp2s0: flags=4099<UP,BROADCAST,MULTICAST>  mtu 1500
        ether 50:7b:9d:0f:cc:44  txqueuelen 1000  (Ethernet)
        RX packets 22991  bytes 12776204 (12.7 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 13446  bytes 3608707 (3.6 MB)
        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  (Lokale Schleife)
        RX packets 1480  bytes 140405 (140.4 KB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 1480  bytes 140405 (140.4 KB)
        TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0
```

```
wlp1s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
        inet 192.168.1.12  netmask 255.255.255.0  broadcast 192.168.1.255
        inet6 fe80::4cf0:5917:ad01:3044  prefixlen 64  scopeid 0x20<link>
        ether 60:6d:c7:4f:eb:b1  txqueuelen 1000  (Ethernet)
        RX packets 3248  bytes 1151019 (1.1 MB)
        RX errors 0  dropped 0  overruns 0  frame 0
        TX packets 4589  bytes 812719 (812.7 KB)
        TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0
```

```
familie@LT-Lenovo-G70-35:~$ sudo lsusb
```

```
[sudo] Passwort für familie:
Bus 002 Device 003: ID 5986:055d Acer, Inc
Bus 002 Device 002: ID 0438:7900 Advanced Micro Devices, Inc.
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 004: ID 0951:16a1 Kingston Technology
Bus 001 Device 003: ID 0bda:0129 Realtek Semiconductor Corp. RTS5129 Card Reader Controller
Bus 001 Device 002: ID 0438:7900 Advanced Micro Devices, Inc.
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 003 Device 002: ID 046d:c00e Logitech, Inc. M-BJ58/M-BJ69 Optical Wheel Mouse
Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

```
familie@LT-Lenovo-G70-35:~$ sudo lspci -nn
```

```
[sudo] Passwort für familie:
00:00.0 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1566]
00:01.0 VGA compatible controller [0300]: Advanced Micro Devices, Inc. [AMD/ATI] Mullins [Radeon R4/R5 Graphics] [1002:9851]
00:01.1 Audio device [0403]: Advanced Micro Devices, Inc. [AMD/ATI] Kabini HDMI/DP Audio [1002:9840]
00:02.0 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:156b]
00:02.3 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] Family 16h Processor Functions 5:1 [1022:1439]
```

```

00:02.4 PCI bridge [0604]: Advanced Micro Devices, Inc. [AMD] Family 16h Processor Functions 5:1
[1022:1439]
00:08.0 Encryption controller [1080]: Advanced Micro Devices, Inc. [AMD] Device [1022:1537]
00:10.0 USB controller [0c03]: Advanced Micro Devices, Inc. [AMD] FCH USB XHCI Controller
[1022:7814] (rev 11)
00:11.0 SATA controller [0106]: Advanced Micro Devices, Inc. [AMD] FCH SATA Controller [AHCI mode]
[1022:7801]
00:12.0 USB controller [0c03]: Advanced Micro Devices, Inc. [AMD] FCH USB EHCI Controller
[1022:7808] (rev 39)
00:13.0 USB controller [0c03]: Advanced Micro Devices, Inc. [AMD] FCH USB EHCI Controller
[1022:7808] (rev 39)
00:14.0 SMBus [0c05]: Advanced Micro Devices, Inc. [AMD] FCH SMBus Controller [1022:780b] (rev 42)
00:14.2 Audio device [0403]: Advanced Micro Devices, Inc. [AMD] FCH Azalia Controller [1022:780d]
(rev 02)
00:14.3 ISA bridge [0601]: Advanced Micro Devices, Inc. [AMD] FCH LPC Bridge [1022:780e] (rev 11)
00:14.7 SD Host controller [0805]: Advanced Micro Devices, Inc. [AMD] FCH SD Flash Controller
[1022:7813] (rev 01)
00:18.0 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1580]
00:18.1 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1581]
00:18.2 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1582]
00:18.3 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1583]
00:18.4 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1584]
00:18.5 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1585]
01:00.0 Network controller [0280]: Realtek Semiconductor Co., Ltd. RTL8723BE PCIe Wireless Network
Adapter [10ec:b723]
02:00.0 Ethernet controller [0200]: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express
Gigabit Ethernet Controller [10ec:8168] (rev 10)
familie@LT-Lenovo-G70-35:~$

```

2. ohne Netzkabel, nur externer WiFi

```

familie@LT-Lenovo-G70-35:~$ iwconfig
wlan0 IEEE 802.11 ESSID:"German House"
    Mode:Managed Frequency:2.472 GHz Access Point: 44:FF:BA:0B:FA:C0
    Bit Rate=54 Mb/s Tx-Power=20 dBm
    Retry short limit:7 RTS thr:off Fragment thr:off
    Power Management:on
    Link Quality=68/70 Signal level=-42 dBm
    Rx invalid nwid:0 Rx invalid crypt:0 Rx invalid frag:0
    Tx excessive retries:0 Invalid misc:99 Missed beacon:0

enp2s0 no wireless extensions.

wlan1 IEEE 802.11 ESSID:off/any
    Mode:Managed Access Point: Not-Associated Tx-Power=20 dBm
    Retry short limit:7 RTS thr=2347 B Fragment thr:off
    Power Management:on

lo no wireless extensions.

```

```

familie@LT-Lenovo-G70-35:~$ ifconfig
enp2s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 50:7b:9d:0f:cc:44 txqueuelen 1000 (Ethernet)
    RX packets 22991 bytes 12776204 (12.7 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 13446 bytes 3608707 (3.6 MB)
    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 (Lokale Schleife)
    RX packets 1710 bytes 159726 (159.7 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 1710 bytes 159726 (159.7 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

```

```
wlp1s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 60:6d:c7:4f:eb:b1 txqueuelen 1000 (Ethernet)
    RX packets 3417 bytes 1189051 (1.1 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 4791 bytes 863681 (863.6 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlx002127c3ae30: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.1.13 netmask 255.255.255.0 broadcast 192.168.1.255
    inet6 fe80::3b9c:f829:4a8b:a000 prefixlen 64 scopeid 0x20<link>
    ether 00:21:27:c3:ae:30 txqueuelen 1000 (Ethernet)
    RX packets 273 bytes 46627 (46.6 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 280 bytes 61474 (61.4 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
```

familie@LT-Lenovo-G70-35:~\$ **sudo lsusb**

```
[sudo] Passwort für familie:
Bus 002 Device 003: ID 5986:055d Acer, Inc
Bus 002 Device 002: ID 0438:7900 Advanced Micro Devices, Inc.
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 001 Device 004: ID 0951:16a1 Kingston Technology
Bus 001 Device 003: ID 0bda:0129 Realtek Semiconductor Corp. RTS5129 Card Reader Controller
Bus 001 Device 005: ID 148f:2573 Ralink Technology, Corp. RT2501/RT2573 Wireless Adapter
Bus 001 Device 002: ID 0438:7900 Advanced Micro Devices, Inc.
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
Bus 004 Device 001: ID 1d6b:0003 Linux Foundation 3.0 root hub
Bus 003 Device 002: ID 046d:c00e Logitech, Inc. M-BJ58/M-BJ69 Optical Wheel Mouse
Bus 003 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

familie@LT-Lenovo-G70-35:~\$ **sudo lspci -nn**

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00:01.0 VGA compatible controller [0300]: Advanced Micro Devices, Inc. [AMD/ATI] Mullins [Radeon R4/
R5 Graphics] [1002:9851]
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(rev 02)
00:14.3 ISA bridge [0601]: Advanced Micro Devices, Inc. [AMD] FCH LPC Bridge [1022:780e] (rev 11)
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00:18.0 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1580]
00:18.1 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1581]
00:18.2 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1582]
00:18.3 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1583]
00:18.4 Host bridge [0600]: Advanced Micro Devices, Inc. [AMD] Device [1022:1584]
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01:00.0 Network controller [0280]: Realtek Semiconductor Co., Ltd. RTL8723BE PCIe Wireless Network
Adapter [10ec:b723]
02:00.0 Ethernet controller [0200]: Realtek Semiconductor Co., Ltd. RTL8111/8168/8411 PCI Express
Gigabit Ethernet Controller [10ec:8168] (rev 10)
```

familie@LT-Lenovo-G70-35:~\$

3. beide angeschlossen und eingerichtet (eine Variante)

familie@LT-Lenovo-G70-35:~\$ iwconfig

wlx002127c3ae30 IEEE 802.11 ESSID:"German House"
Mode:Managed Frequency:2.472 GHz Access Point: 44:FF:BA:0B:FA:C0
Bit Rate=54 Mb/s Tx-Power=20 dBm
Retry short limit:7 RTS thr:off Fragment thr:off
Power Management:on
Link Quality=70/70 Signal level=-36 dBm
Rx invalid nwid:0 Rx invalid crypt:0 Rx invalid frag:0
Tx excessive retries:0 Invalid misc:130 Missed beacon:0

enp2s0 no wireless extensions.

wlp1s0 IEEE 802.11 ESSID:"Hotspot"
Mode:Ad-Hoc Frequency:2.412 GHz Cell: BA:84:51:ED:6E:2E
Tx-Power=20 dBm
Retry short limit:7 RTS thr=2347 B Fragment thr:off
Power Management:on

lo no wireless extensions.

familie@LT-Lenovo-G70-35:~\$ ifconfig

enp2s0: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
ether 50:7b:9d:0f:cc:44 txqueuelen 1000 (Ethernet)
RX packets 22991 bytes 12776204 (12.7 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 13446 bytes 3608707 (3.6 MB)
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 (Lokale Schleife)
RX packets 1802 bytes 166958 (166.9 KB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 1802 bytes 166958 (166.9 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlp1s0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 10.42.0.1 netmask 255.255.255.0 broadcast 10.42.0.255
inet6 fe80::498f:9383:f2f2:207b prefixlen 64 scopeid 0x20<link>
ether 60:6d:c7:4f:eb:b1 txqueuelen 1000 (Ethernet)
RX packets 3433 bytes 1191997 (1.1 MB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 4943 bytes 897338 (897.3 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlx002127c3ae30: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.1.13 netmask 255.255.255.0 broadcast 192.168.1.255
inet6 fe80::3b9c:f829:4a8b:a000 prefixlen 64 scopeid 0x20<link>
ether 00:21:27:c3:ae:30 txqueuelen 1000 (Ethernet)
RX packets 500 bytes 88371 (88.3 KB)
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 471 bytes 105498 (105.4 KB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

familie@LT-Lenovo-G70-35:~\$