

Bluetooth

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Tools installieren

- Updates einspielen
`sudo apt update && sudo apt upgrade -y && sudo apt install git`
- Konsole
`sudo apt install bluez bluetooth pulseaudio pulseaudio-utils pulseaudio-module-bluetooth`
- grafisch
`sudo apt install blueman pavucontrol`

Links

- Bluez github
<https://github.com/bluez/bluez.git>
- bluetooth-autoconnect
<https://github.com/jrouleau/bluetooth-autoconnect>
- <https://mcuoneclipse.com/2017/06/04/using-python-to-store-data-from-many-ble-devices/>
- Bluetooth with Arduino and Linux (BT - Seriell)
<http://denethor.wlu.ca/arduino/bluetooth.shtml>
- How to connect raspberry pi with HC-05 bluetooth module + arduino programm
<https://ivanmorenoj.medium.com/how-to-connect-raspberry-pi-with-hc-05-bluetooth-module-arduino-programm-64a3a8b407a6>
- <https://www.baeldung.com/linux/bluetooth-via-terminal#bd-overview>
- Setting up a Bluetooth Speaker from the command line on a raspberry Pi Zero W
<https://gist.github.com/actuino/9548329d1bba6663a63886067af5e4cb>
- Listen to Bluetooth Audio on Your Raspberry Pi 3, Pi Zero, or Earlier Pi
<https://plugable.com/blogs/news/listen-to-bluetooth-audio-on-your-raspberry-pi-3-pi-zero-or-earli>

er-pi

- Connecting bluetooth audio device to Raspberry Pi
<https://wiredtuts.com/connecting-bluetooth-audio-device-to-raspberry-pi>
- RetroPie (V4.2): Bluetooth Controller
<https://www.retro-programming.de/retro-welt-2/hardware/raspberry-pi-als-emulator-retropie/retropie-controller-einrichten/retropie-bluetooth-controller/>
- <https://techwiser.com/fix-bluetooth-device-doesnt-auto-connect-in-linux/>
- <https://wiki.ubuntu.com/DebuggingBluetooth>
- Pairing from Ubuntu Core
<https://ubuntu.com/core/docs/bluez/reference/pairing/outbound-pairing>

Damit am Pi einfache Controller laufen einen anderen Agent verwenden

→ ~/RetroPie-Setup/scriptmodules/supplementary/bluetooth

→ bluez-simple-agent

→ Beispiel:

17:05:16:03:35:E1 MOCUTE-032S_A03-35E1

get_script_bluetooth bluez-simple-agent) -c DisplayYesNo hci0 17:05:16:03:35:E1

sudo bluetoothctl muss dafür auf sein ??

Log

```
1 cat /etc/os-release
2 sudo systemctl status bluetooth.service
3 sudo bluetoothctl
4 sudo btmon
5 sudo btmon
6 git clone https://github.com/bluez/bluez.git
7 sudo apt install git
8 git clone https://github.com/bluez/bluez.git
9 sudo apt-get build-dep bluez
10 cd bluez/
11 ./bootstrap
12 sudo apt install aclocal
13 apt search aclocal
14 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git
15 ./bootstrap
16 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake
17 ./bootstrap
18 apt search libtoolsize
19 apt search libtoolize
20 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool
21 ./bootstrap
22 ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
23 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
```

```
libdbus-1-dev git automake libtool libudev
24 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev
25 sudo apt update
26 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev
27 ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
28 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev libical-dev
29 ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
30 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev libical-dev libreadline-dev
31 ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
32 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev libical-dev libreadline-dev
33 sudo apt install build-essential libbluetooth-dev libglib2.0-dev
libdbus-1-dev git automake libtool libudev-dev libical-dev libreadline-dev
python3-docutils
34 ./configure --prefix=/usr --mandir=/usr/share/man --sysconfdir=/etc --
localstatedir=/var
35 make -j4
36 sudo make install
37 btmon -v
38 sudo systemctl restart bluetooth.service
39 sudo systemctl daemon-reload
40 sudo systemctl restart bluetooth.service
41 sudo systemctl status bluetooth.service
42 sudo vluetoothc
43 sudo bluetoothctl
44 sudo reboot
45 sudo bluetoothctl
46 arecord
47 arecord -l
48 arecord -L
49 pactl list cards short
50 sudo apt install pulseaudio
51 pacmd list-source
52 nano ~/.config/pulse/client.conf
53 sudo raspi-config
54 sudo apt-get install pulseaudio pulseaudio-utils pulseaudio-module-
bluetooth
55 sudo usermod -a -G lp pi
56 groups
57 usermod --help
58 id pi
59 groups --help
60 groups pi
61 sudo reboot
```

```
62 pulseaudio --start
63 htop
64 ps -ef |grep pulse
65 sudo bluetoothctl
66 pactl list cards short
67 pactl list cards
68 paplay -p --device=1 /usr/share/sounds/alsa/Front_Center.wav
69 pactl list short modules
70 pactl list cards
71 sudo bluetoothctl
72 sudo bluetoothctl
73 wget blob:https://github.com/c5685084-4f9f-4e57-8748-e6d4b9467837
74 wget https://github.com/c5685084-4f9f-4e57-8748-e6d4b9467837
75 wget
https://raw.githubusercontent.com/RetroPie/RetroPie-Setup/master/scriptmodules/supplementary/bluetooth/bluezutils.py
76 wget
https://raw.githubusercontent.com/RetroPie/RetroPie-Setup/master/scriptmodules/supplementary/bluetooth/bluez-simple-agent
77 ls
78 python bluez-simple-agent
79 pip3 install dbus
80 sudo apt install pip3
81 sudo apt install python3-pip
82 pip3 install dbus
83 pip install dbus-python
84 python bluez-simple-agent
85 pip install glib
86 python bluez-simple-agent
87 mv bluez-simple-agent bluez-simple-agent.py
88 cat bluez-simple-agent.py
89 pip install python3-gi
90 sudo apt install python3-gi
91 cat bluez-simple-agent.py
92 python bluez-simple-agent
93 python bluez-simple-agent.py
94 sudo python bluez-simple-agent.py
95 sudo apt install python3-dbus
96 sudo python bluez-simple-agent.py
97 cat /etc/group | grep blue
98 git clone https://github.com/jrouleau/bluetooth-autoconnect.git
99 sudo cp bluetooth-autoconnect/bluetooth-autoconnect.service
/etc/systemd/system/
100 sudo cp '/home/pratik/bluetooth-autoconnect/bluetooth-autoconnect'
/usr/bin/
101 sudo cp ~/bluetooth-autoconnect/bluetooth-autoconnect /usr/bin/
102 sudo systemctl enable bluetooth-autoconnect.service
103 sudo systemctl start bluetooth-autoconnect.service
104 sudo systemctl status bluetooth-autoconnect.service
105 journalctl -u bluetooth-autoconnect.service
106 journalctl -u bluetooth-autoconnect.service -b
```

```
107 journalctl -xefu bluetooth-autoconnect.service
108 cd bluetooth-autoconnect/
109 ls
110 cat bluetooth-autoconnect
111 sudo nano /usr/bin/bluetooth-autoconnect
112 sudo systemctl restart bluetooth-autoconnect.service
113 journalctl -xefu bluetooth-autoconnect.service
114 sudo nano /usr/bin/bluetooth-autoconnect
115 sudo systemctl restart bluetooth-autoconnect.service
116 journalctl -xefu bluetooth-autoconnect.service
117 sudo systemctl restart bluetooth-autoconnect.service
118 journalctl -xefu bluetooth-autoconnect.service
119 sudo systemctl stop bluetooth-autoconnect.service
120 sudo apt install vlc
121 vlc
122 pavucontrol
123 sudo apt install pavucontrol
124 pavucontrol
125 pulseaudio --start
126 vlc
127 cat /home/pi/.asoundrc
128 cd ~
129 nano .asoundrc
130 ls -lah
131 sudo nano .asoundrc
132 vlc
133 cat /etc/asound.conf
134 cvlc --aout=alsa --alsa-audio-device=default --verbose=-1
http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
135 sudo reboot
136 sudo btmon
137 plu
138 pulseaudio --start
139 cvlc --aout=alsa --alsa-audio-device=default --verbose=-1
http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
140 vlc
141 sudo apt install blueman
142 blueman-manager
143 blueman-applet
144 blueman-assistant
145 blueman-applet
146 blueman-adapters
147 blueman-applet
148 blueman-applet &
149 blueman-manager
150 pavucontrol
151 alsamixer
152 ls -al /dev/snd
153 ip pi
154 id pi
155 sudo service bluealsa status
```

```
156 sudo apt-get install pulseaudio pulseaudio-module-bluetooth
157 id pi
158 sudo usermod -G bluetooth -a pi
159 id pi
160 sudo reboot
161 pulseaudio --start
162 sudo bluetoothctl
163 cat /etc/pulse/default.pa
164 cd /etc/pulse/
165 ls
166 ls -lah
167 sudo nano default.pa
168 cd ..
169 cd bluetooth/
170 ls
171 ls -lah
172 sudo nano main.conf
173 bluetoothctl -a
174 sudo reboot
175 vlc
176 sudo nano /boot/config.txt
177 sudo reboot
178 vlc
179 aplay
180 aplay
181 pulseaudio --start
182 cvlc --verbose=-1 http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
183 cvlc --verbose=1 http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
184 find / -name *.wav
185 alsa /usr/share/sounds/alsa/Front_Center.wav
186 aplay /usr/share/sounds/alsa/Front_Center.wav
187 paplay -p --device=1 /usr/share/sounds/alsa/Front_Center.wav
188 pulseaudio --start
189 pactl list cards short
190 sudo bluetoothctl
191 pactl list cards
192 sudo bluetoothctl
193 pactl list cards
194 vlc
195 sudo nano /etc/bluetooth/main.conf
196 sudo systemctl restart bluetooth
197 pactl list sinks short
198 pactl list cards
199 sudo reboot
200 pactl list cards
201 sudo -H pactl load-module module-bluetooth-discover
202 pactl list cards
203 sudo --help
204 pacmd list-cards
205 sudo bluetoothctl
206 pacmd list-cards
```

```
207 sudo bluetoothctl
208 sudo reboot
209 pacmd list-cards
210 sudo apt install omxplayer
211 apt search omx
212 cvlc --verbose=1 http://st01.dlf.de/dlf/01/128/mp3/stream.mp3
213 pavucontrol
214 sudo apt update
215 sudo apt upgrade
216 sudo nano /etc/bluetooth/main.conf
217 sudo systemctl restart bluetooth
218 sudo python bluez-simple-agent.py
219 dmesg | grep Bluetooth
220 sudo nano /etc/bluetooth/main.conf
221 ls /dev/tty*
222 sudo rfcomm bind rfcomm0 00:13:AA:00:0D:AC
223 ls /dev/tty*
224 ls /dev/rf*
225 sudo rfcomm unbind rfcomm0 00:13:AA:00:0D:AC
226 ls /dev/rf*
227 sudo rfcomm bind rfcomm0 00:13:AA:00:0D:AC
228 sudo rfcomm bind rfcomm0 20:14:04:14:27:92
229 sudo rfcomm unbind rfcomm0 00:13:AA:00:0D:AC
230 sudo rfcomm bind rfcomm0 20:14:04:14:27:92
231 ls /dev/rf*
232 cat /dev/rfcomm0
233 sudo rfcomm bind rfcomm0 20:14:04:14:27:92
234 cat /dev/rfcomm0
```

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