Pair Bluetooth Controllers - manual setup

You need to establish a SSH connection or a terminal windows with keyboard to accomblish this further. You can connect your bluetooth controller manually by doing some commands step by step.

Get started by typing `bluetoothctl` and hitting [Enter].

Now you are in the Bluetooth control unit. Type following commands and confirm every single one with [Enter]

```
agent on
default-agent
power on
scan on
```

Now set the controller in pairing mode! This strongly depends from your controller type.

An example of the output you would see from running all the commands successfully:

```
[root@BATOCERA /userdata/system]# bluetoothctl
Agent registered
[bluetooth]# agent on
Agent is already registered
[bluetooth]# default-agent
Default agent request successful
[bluetooth]# power on
Changing power on succeeded
[bluetooth]# scan on
Discovery started
[CHG] Controller 43:45:C0:00:1F:AC Discovering: yes
[NEW] Device E4:17:D8:C2:0B:0E 8BitDo M30 Modkit
```

> 💡 If you're having trouble detecting devices, check out the Bluetooth section on the troubleshooting page.

Now we want to connect to our controller. So we type following commands to connect to discovered controller with MAC address E4:17:D8:C2:0B:0E properly. Wait a few seconds after entering the commands in order to ensure they are processed successfully.

```
pair E4:17:D8:C2:0B:0E
connect E4:17:D8:C2:0B:0E
trust E4:17:D8:C2:0B:0E
```

This would be the output from our example:

```
[bluetooth]# pair E4:17:D8:C2:0B:0E
```

```
Attempting to pair with E4:17:D8:C2:0B:0E
[CHG] Device E4:17:D8:C2:0B:0E Connected: yes
[CHG] Device E4:17:D8:C2:0B:0E Modalias: usb:v2DC8p5101d0100
[CHG] Device E4:17:D8:C2:0B:0E UUIDs: 00001124-0000-1000-8000-00805f9b34fb
[CHG] Device E4:17:D8:C2:0B:0E UUIDs: 00001200-0000-1000-8000-00805f9b34fb
[CHG] Device E4:17:D8:C2:0B:0E ServicesResolved: yes
[CHG] Device E4:17:D8:C2:0B:0E Paired: yes
Pairing successful

[bluetooth]# connect E4:17:D8:C2:0B:0E
Attempting to connect to E4:17:D8:C2:0B:0E
Failed to connect: org.bluez.Error.Failed
[CHG] Device E4:17:D8:C2:0B:0E Connected: yes
Authorize service (yes/no): yes

Authorize service 00001124-0000-1000-8000-00805f9b34fb
[8BitDo M30 Modkit]# trust E4:17:D8:C2:0B:0E
[CHG] Device E4:17:D8:C2:0B:0E Trusted: yes
Changing E4:17:D8:C2:0B:0E trust succeeded
```

Type `devices` to see a list of devices configurated in your BT setup.
Type `remove MAC-ADRESS` to remove single devices
Type `yes` if you are asked for authorization progress or enter PIN

If you have multiple Bluetooth adapters on your machine and you want to tell which one is used, you can use the command `hcitool dev` to list them all. On my setup, `hci0` is the internal BT on my Pi4, and `hci1` is an additional USB BT module:

```
# hcitool dev
Devices:
    hci1    90:80:62:00:88:00
    hci0    DC:A6:32:04:10:7F
# bluetoothctl
Agent registered
[bluetooth]# scan on
Discovery started
[CHG] Controller 90:80:62:00:88:00 Discovering: yes
```

Using batocera-bluetooth

Still needs further investigation/testing.

```
batocera-bluetooth list                         Print the list of currently
trusted and saved Bluetooth devices.
batocera-bluetooth trust                         Trust a new, randomly(?)
selected device. Good luck!
```

```
batocera-bluetooth remove <device address>   Removes (untrusts) specified
Bluetooth device from the list and removes its connection from memory.
batocera-bluetooth save                       Saves the newly trusted device
to memory.
batocera-bluetooth restore                    Undoes any trusted but not
currently saved device and restores from memory.
```

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