

Jeremy Morgan

Mostly Coherent Ramblings of a Silicon Forest Tech Geek.



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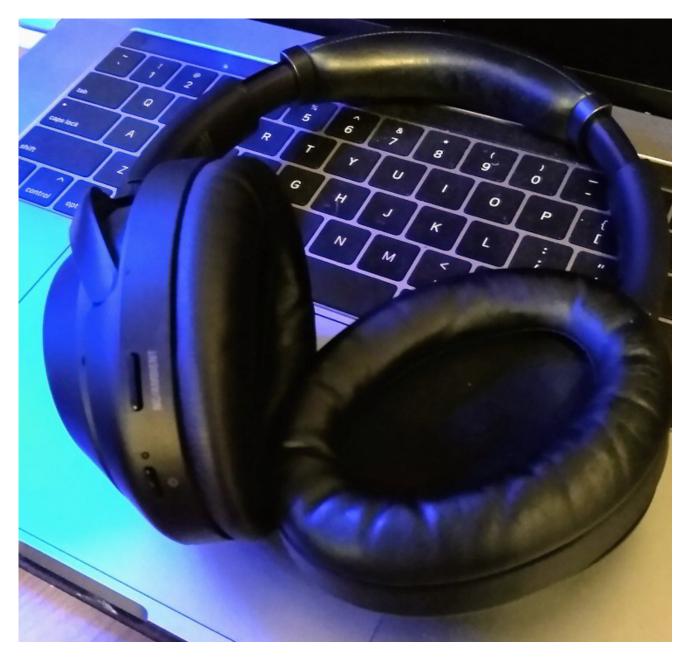
How to Set up Bluetooth in Arch Linux

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https://www.jeremymorgan.com/tutorials/linux/how-to-bluetooth-arch-linux/

I installed Arch Linux on my new laptop a couple of months ago, and strangely enough, never used Bluetooth on it yet. Bluetooth in Arch Linux can be fun and interesting at times.

I wanted to use my favorite Sony headphones on my laptop (It only has Arch Linux on it, no Windows!), so I thought I'd document the process.



Step 1: Install Bluez and Blueman

The first step is to install some utilities.

I will install:

- Bluez
- Bluez Utils
- Blueman

sudo	pacman	- S	bluez
sudo	pacman	- S	bluez-utils
sudo	pacman	- S	blueman

These should install without a problem. You'll see a neat icon here:



Next, make sure the btusb Kernel module is loaded:

lsmod | grep btusb

Ç.	jeremy@devlaptop:~	- • ×
File Edit Tabs Help		
btrtl 24576 btbcm 20480 btintel 32768	grep btusb 0 1 btusb 1 btusb 1 btusb 44 btrtl,btintel,btbcm,bnep,btusb,rfcomm	

Here's a trick to help it find adapters, even if you plug one in:

sudo vim /etc/bluetooth/main.conf

Search for autoenable:

AutoEnable defines option to enable all controllers when they are found. # This includes adapters present on start as well as adapters that are plugged # in later on. Defaults to 'false'. AutoEnable=true

Save the file.

2. Enable the Service

Next, we want to try starting up the service:

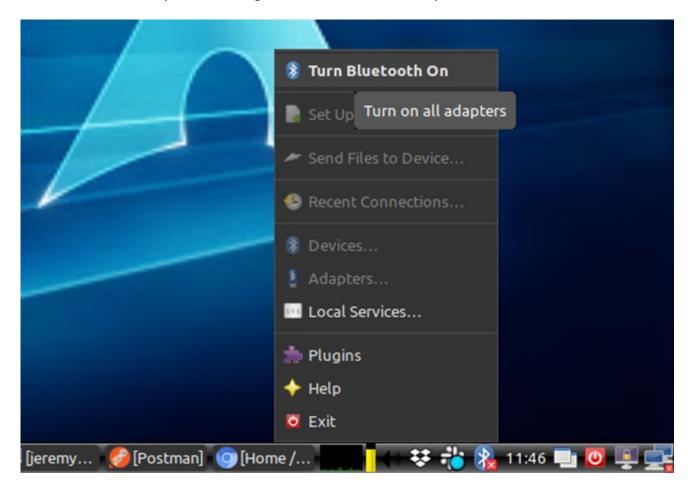
sudo systemctl start bluetooth.service

If you want it to start up automatically, enable it:

sudo systemctl enable bluetooth.service

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Now we should be up and running. You can turn on all adapters with Blueman:



Now you should be ready to connect and pair.

3. Pairing

Blueman makes pairing pretty easy:

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8	Introduction	- • ×
Introduction		
Device		
Pairing		
Connect		
Connecting	Welcome to the Bluetooth device setup assistant.	
Finished		
	It will walk you through the process of configuring and connecting to your Bluetooth enabled devices.	
	Cancel No	ext

Select a device:

8	Device	- • ×
Introduction	8 LE_WH-1000XM3	
Device Pairing Connect Connecting Finished	 7B-7A-DF-13-25-48 Charge 2 SmartLockByBle Versa 2 	
	T Cancel Bac	k Next

Start pairing:

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	······································		
8	Pairing		_ = ×
Introduction			
Device			
Pairing			
Connect			
Connecting	Select pairing method to use:		
Finished	O Pair Device		
	O Proceed Without Pairing		
		Cancel E	Back Next

And you're done connecting!

8	Finished	- • ×
Introduction		
Device		
Pairing		
Connect		
Connecting		
Finished	Congratulations, device successfully added	
		Close

If you're connecting headphones like I am, there are a few more steps.

Connecting Audio

First off, I'll install pulseaudio and the Bluetooth extension.

```
sudo pacman -S pulseaudio
sudo pacman -S pulseaudio-bluetooth
```

Start up pulseaudio:

sudo systemctl pulseaudio start

If you want it to start up automatically:

sudo systemctl start pulseaudio

One utility I like to use to control audio (point it towards my speakers or the headphones) is Pavucontrol.

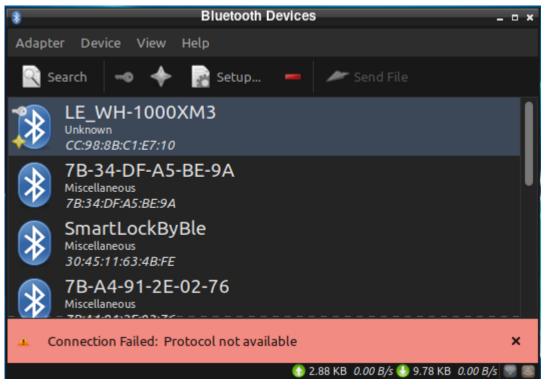
```
sudo pacman -S pavucontrol
pavucontrol
```

This is a great way to switch back and forth:

		Volur	ne Control	_ = ×
•	Playback	Recording	Output Devices	Input Devices
10 E	Built-in Audio	Analog Stereo		* 🔒 📀
Port	: Speakers			
_	Headphon	es (unplugged)		
Siler	ice		100% (0 dB)	
►A	dvanced			
		Show: All O	utput Devices	•

Note: If You Have a2dp

If your audio devices uses a2dp (Advanced Audio Distribution Profile), you may get the following error:



Connection Failed: Protocol not available

Here's how to fix it. There's a gdm fix, so it connects upon login (if you're using GDM)

```
cd ~/src
git clone https://aur.archlinux.org/pulseaudio-bluetooth-a2dp-gdm-fix.git
makepkg -i
```

You'll also need to do this:

Here's a hotfix that I found that worked. Check out this gist.

Use this content for your bt-autoenable-a2dp.sh file:

mkdir -p ~/.config/scripts/xorg vim ~/.config/scripts/xorg/bt-auto-enable-a2dp.sh sh ~/.config/scripts/xorg/bt-auto-enable-a2dp.sh

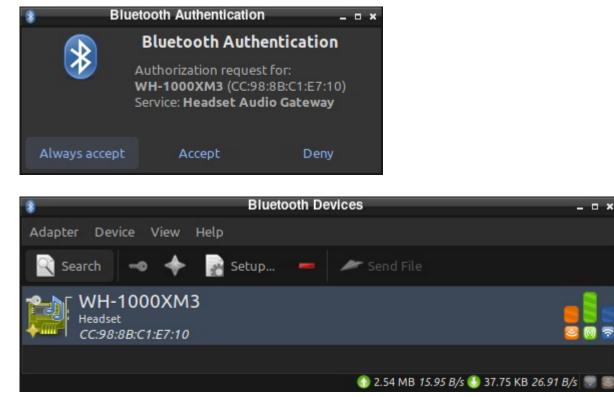
Create a udev rules file and add this content

sudo vim /etc/udev/rules.d/20-bt-auto-enable-a2dp.rules

Now you should be up and running and listening to audio! It worked for my WH-1000MX3 headphones.

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Questions, comments? Let me know!

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