

Pulse Audio

Some nice graphical tools:

```
sudo apt-get install paprefs pavucontrol
```

```
killall pulseaudio
```

```
pulseaudio -v
```

```
pacmd list-sinks  
pacmd list-cards
```

disable autospawn

[/etc/pulse/client.conf](#)

```
; autospawn = yes
```

```
pulseaudio --kill  
pulseaudio -v
```

mpd player

- add user mpd to pulse-access groups.
- Configure pulse to connect to existing pulseaudio server using network

```
audio_output {  
    type                "pulse"  
    name                "MPD PulseAudio Output"  
    server              "127.0.0.1"  
}
```

- Add TCP server module to pulseaudio

[/etc/pulse/default.pa](#)

```
load-module module-native-protocol-tcp auth-ip-acl=127.0.0.1
```

no alsa MIC input

Check for existence of arecord process. It can be used to sample noise and feed a kernel entropy (package **randomsound**)

<https://bugs.launchpad.net/ubuntu/+source/randomsound/+bug/590780>

randomsound has to be started AFTER pulse audio. It is hard to achieve because pulse is started as from user graphical session. As workaround it is nice to disable or remove randomsound package.

Simultaneous on HDMI and Analog

Run paprefs, go to last tab "Simultaneous Output" and enable feature. This will add new device for both HDMI and Analog output and set it as default one.

No sound

As as normal user try to start

```
pulseaudio --check
```

command:

```
E: [pulseaudio] core-util.c: Failed to create secure directory  
(/run/user/1000/pulse): Permission denied
```

```
ls -l /run/user/1000/
```

shows that pulse dir is owned by root (Probably pulseaudio was spawned when user switch to root using su or sudo)

```
rm -r /run/user/1000/pulse
```

No sound with NVidia graphic card

Only USB camera and NVIDIA HDMI outputs are visible.

```
pacmd list-cards
```

```
2 card(s) available.  
  index: 0  
  name: <alsa_card.pci-0000_01_00.1>  
  driver: <module-alsa-card.c>  
  owner module: 6
```

```

properties:
    alsa.card = "1"
    alsa.card_name = "HDA NVidia"

index: 1
name: <alsa_card.usb-046d_0825_38C54AA0-02-U0x46d0x825>
driver: <module-alsa-card.c>
owner module: 7
properties:
    alsa.card = "2"
    alsa.card_name = "USB Device 0x46d:0x825"
    device.product.name = "Webcam C270"

```

```

$ aplay -l
**** List of PLAYBACK Hardware Devices ****
card 0: PCH [HDA Intel PCH], device 0: ALC892 Analog [ALC892 Analog]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 0: PCH [HDA Intel PCH], device 1: ALC892 Digital [ALC892 Digital]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 1: NVidia [HDA NVidia], device 3: HDMI 0 [HDMI 0]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 1: NVidia [HDA NVidia], device 7: HDMI 0 [HDMI 0]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 1: NVidia [HDA NVidia], device 8: HDMI 0 [HDMI 0]
  Subdevices: 1/1
  Subdevice #0: subdevice #0
card 1: NVidia [HDA NVidia], device 9: HDMI 0 [HDMI 0]
  Subdevices: 1/1
  Subdevice #0: subdevice #0

```

Reloading UDEV detection module doesn't help.

```
pacmd unload-module module-udev-detect && pacmd load-module module-udev-detect
```

After this I got doubled USB camera and NVIDIA output :(

```

### Load audio drivers statically
### (it's probably better to not load these drivers manually, but instead
### use module-udev-detect -- see below -- for doing this automatically)
#load-module module-alsa-sink
#load-module module-alsa-source device=hw:1,0
#load-module module-oss device="/dev/dsp" sink_name=output source_name=input
#load-module module-oss-mmap device="/dev/dsp" sink_name=output
source_name=input
#load-module module-null-sink
#load-module module-pipe-sink

```

```
...  
load-module module-udev-detect  
...
```

pulseaudio -v shows lots of

```
I: [pulseaudio] alsa-util.c: Error opening PCM device front:1: No such file  
or directory  
I: [pulseaudio] (alsa-lib)pcm_hw.c: open '/dev/snd/pcmC1D0c' failed (-2)  
I: [pulseaudio] alsa-util.c: Error opening PCM device hw:1: No such file or  
directory
```

```
killall pulseaudio  
rm -r ~/.config/pulse/*  
pulseaudio -v
```

load-module module-alsa-sink device=hdmi:0 load-module module-combine-sink
sink_name=combined set-default-sink combined

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