

# Mix

On **Fedora 43**, you don't install "virtual drivers" the Windows way. With PipeWire (which Fedora uses by default), you create **virtual devices (nodes)** such as sinks (outputs) or sources (inputs). These act like Voicemeeter's virtual inputs/outputs.

Below are the main methods — from simple to advanced.

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## □ Method 1 — Create a Virtual Sink (most common)

This creates a **virtual output device** that applications can send audio to. You can then route it wherever you want.

### 1□ Create the virtual sink

```
pactl load-module module-null-sink sink_name=VirtualSink sink_properties=device.description=VirtualSink
```

You now have a new output device called **VirtualSink**.

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### 2□ Create a virtual microphone (optional)

If you want something like a "virtual mic" (for Discord/OBS):

```
pactl load-module module-remap-source master=VirtualSink.monitor source_name=VirtualMic  
source_properties=device.description=VirtualMic
```

Now **VirtualMic** appears as an input device in apps.

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### 3□ Make it persistent (survive reboot)

Create this file:

```
mkdir -p ~/.config/pipewire/pipewire-pulse.conf.d
nano ~/.config/pipewire/pipewire-pulse.conf.d/virtual-devices.conf
```

Add:

```
context.modules = [
  { name = libpipewire-module-null-audio-sink
    args = {
      node.name = "VirtualSink"
      node.description = "VirtualSink"
      media.class = "Audio/Sink"
    }
  }
]
```

Then restart PipeWire:

```
systemctl --user restart pipewire pipewire-pulse
```

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## ☐☐ Method 2 — Use a Patchbay (Graphical Way)

Much easier if you don't like CLI.

### ☐☐ qpwwgraph

qpwwgraph

Image

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Install:

```
sudo dnf install qpgraph
```

Launch:

```
qpgraph
```

You can visually connect:

- App → Virtual Sink
  - Virtual Sink → Hardware Output
  - Virtual Sink → OBS / Discord
- 

## Helvum (simpler UI)

Helvum

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Install:

```
sudo dnf install helvum
```

Very simple drag-and-connect interface.

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## Method 3 — PulseMeeter (Voicemeeter-style)

# interface)

PulseMeeter

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Image

This is the closest conceptual match to Voicemeeter:

- Virtual inputs
- Virtual outputs
- Routing matrix
- Volume control

Install:

```
sudo dnf install pulsemeter
```

(If not in repo, use GitHub release or COPR.)

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## ☐☐ What You Usually Want (Common Scenarios)

☐☐ Route Game + Spotify → One virtual  
device → Discord

Create:

- VirtualSink
- VirtualMic (monitor of sink)
- Set Discord mic to VirtualMic

- Route apps into VirtualSink
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## ☐☐ OBS separation (game + mic separate)

Create:

- 2 null sinks
  - Route each app separately
  - Capture each sink monitor in OBS
- 

## ☐☐ Check Existing Devices

```
pactl list short sinks  
pactl list short sources
```

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## ⚡ Important

Because Fedora uses **PipeWire**, you do *not* need:

- PulseAudio replacement
- Kernel drivers
- External sound drivers

Virtual devices are just software nodes.

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If you tell me your exact goal (streaming? mixing mic + music? dual PC? Discord routing?), I can give you the exact commands and layout for your setup.

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