



## Browser

# Browser Troubleshooting

## Problem: “Failed to start Chrome CDP on port 18800”

OpenClaw’s browser control server fails to launch Chrome/Brave/Edge/Chromium with the error:

```
{"error": "Error: Failed to start Chrome CDP on port 18800 for profile
```

## Root Cause

On Ubuntu (and many Linux distros), the default Chromium installation is a **snap package**. Snap’s AppArmor confinement interferes with how OpenClaw spawns and monitors the browser process.

The `apt install chromium` command installs a stub package that redirects to snap:

```
Note, selecting 'chromium-browser' instead of 'chromium'  
chromium-browser is already the newest version (2:1snap1-0ubuntu2).
```

This is NOT a real browser – it’s just a wrapper.

## Solution 1: Install Google Chrome (Recommended)

Install the official Google Chrome .deb package, which is not sandboxed by snap:

```
> wget https://dl.google.com/linux/direct/google-chrome-stable_current_amd64.deb  
sudo dpkg -i google-chrome-stable_current_amd64.deb  
sudo apt --fix-broken install -y # if there are dependency errors
```

Then update your OpenClaw config (~/.openclaw/openclaw.json):

```
{  
  "browser": {  
    "enabled": true,  
    "executablePath": "/usr/bin/google-chrome-stable",  
    "headless": true,  
    "noSandbox": true  
  }  
}
```

## Solution 2: Use Snap Chromium with Attach-Only Mode

If you must use snap Chromium, configure OpenClaw to attach to a manually-started browser:

1. Update config:

```
{  
  "browser": {  
    "enabled": true,  
    "attachOnly": true,  
    "headless": true,  
    "noSandbox": true  
  }  
}
```

## 2. Start Chromium manually:



```
chromium-browser --headless --no-sandbox --disable-gpu \
--remote-debugging-port=18800 \
--user-data-dir=$HOME/.openclaw/browser/openclaw/user-data \
about:blank &
```

## 3. Optionally create a systemd user service to auto-start Chrome:

```
# ~/.config/systemd/user/openclaw-browser.service
[Unit]
Description=OpenClaw Browser (Chrome CDP)
After=network.target

[Service]
ExecStart=/snap/bin/chromium --headless --no-sandbox --disable-gpu --remote-debugging-port=18800
Restart=on-failure
RestartSec=5

[Install]
WantedBy=default.target
```

Enable with: `systemctl --user enable --now openclaw-browser.service`

## Verifying the Browser Works

Check status:

```
curl -s http://127.0.0.1:18791/ | jq '{running, pid, chosenBrowser}'
```

Test browsing:

```
 curl -s -X POST http://127.0.0.1:18791/start
curl -s http://127.0.0.1:18791/tabs
```

&gt;

## Config Reference

Option	Description	Default
browser.enabled	Enable browser control	true
browser.executablePath	Path to a Chromium-based browser binary (Chrome/Brave/Edge/Chromium)	auto-detected (prefers default browser when Chromium-based)
browser.headless	Run without GUI	false
browser.noSandbox	Add --no-sandbox flag (needed for some Linux setups)	false
browser.attachOnly	Don't launch browser, only attach to existing	false
browser.cdpPort	Chrome DevTools Protocol port	18800

## Problem: “Chrome extension relay is running, but no tab is connected”

You’re using the chrome profile (extension relay). It expects the OpenClaw browser extension to be attached to a live tab.

Fix options:

1. **Use the managed browser:** openclaw browser start --browser-profile openclaw (or set browser.defaultProfile: "openclaw" ).
2. **Use the extension relay:** install the extension, open a tab, and click the OpenClaw extension icon to attach it.

Notes:



The chrome profile uses your **system default Chromium browser** when possible.

Local `openclaw` profiles auto-assign `cdpPort / cdpUrl` ; only set those for remote CDP.

[← Chrome Extension](#)

[Agent Send >](#)

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