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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_<br>sudo dpkg -i google-chrome-stable_current_amd64.deb<br>sudo apt --fix-broken install -y # if there are dependency errors
```

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

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

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:

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

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
```

>

Config Reference

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

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.

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