

TP-Link WiFi Dongle Installation on Ubuntu 24.04

Prerequisites

- Ubuntu 24.04 LTS installed
- TP-Link dongle (RTL8812AU chipset)
- Internet via Ethernet or mobile tethering (for initial setup)

Step 1: Install Required Packages

- `sudo apt update`
- `sudo apt install -y build-essential dkms git`

Step 2: Clone the Driver Repository

- `cd ~`
- `git clone https://github.com/aircrack-ng/rtl8812au.git`
- `cd rtl8812au`

Step 3: Check Driver Version

- `grep PACKAGE_VERSION dkms.conf`
- Example output: `PACKAGE_VERSION="5.6.4.2~20230501"`

Step 4: Copy Driver Source to DKMS Directory

- `sudo cp -r . /usr/src/rtl8812au-5.6.4.2~20230501`

Step 5: Register, Build & Install the Driver

- `sudo dkms add -m rtl8812au -v 5.6.4.2~20230501`
- `sudo dkms build -m rtl8812au -v 5.6.4.2~20230501`
- `sudo dkms install -m rtl8812au -v 5.6.4.2~20230501`

Step 6: Load the Kernel Module

- `sudo modprobe 88XXau`

Step 7: Reboot the System

- sudo reboot

Step 8: Check WiFi Connection

- After reboot, run: iwconfig
- Look for a wireless interface like wlan0 or wlx*.
- Connect to WiFi from the top panel GUI.

Troubleshooting

- lsusb
- dkms status
- dmesg | grep 88