Printer Setup Guide for Unix Systems

Step 1: Install CUPS

1. **Install CUPS**:

Ensure that the Common UNIX Printing System (CUPS) is installed on your Unix machine. You can install it using your package manager:

```
sudo apt-get install cups    # For Debian/Ubuntu
sudo yum install cups        # For CentOS/RHEL
sudo pacman -S cups          # For Arch Linux
```

Start and enable the CUPS service:

```
sudo systemctl start cups
sudo systemctl enable cups
```
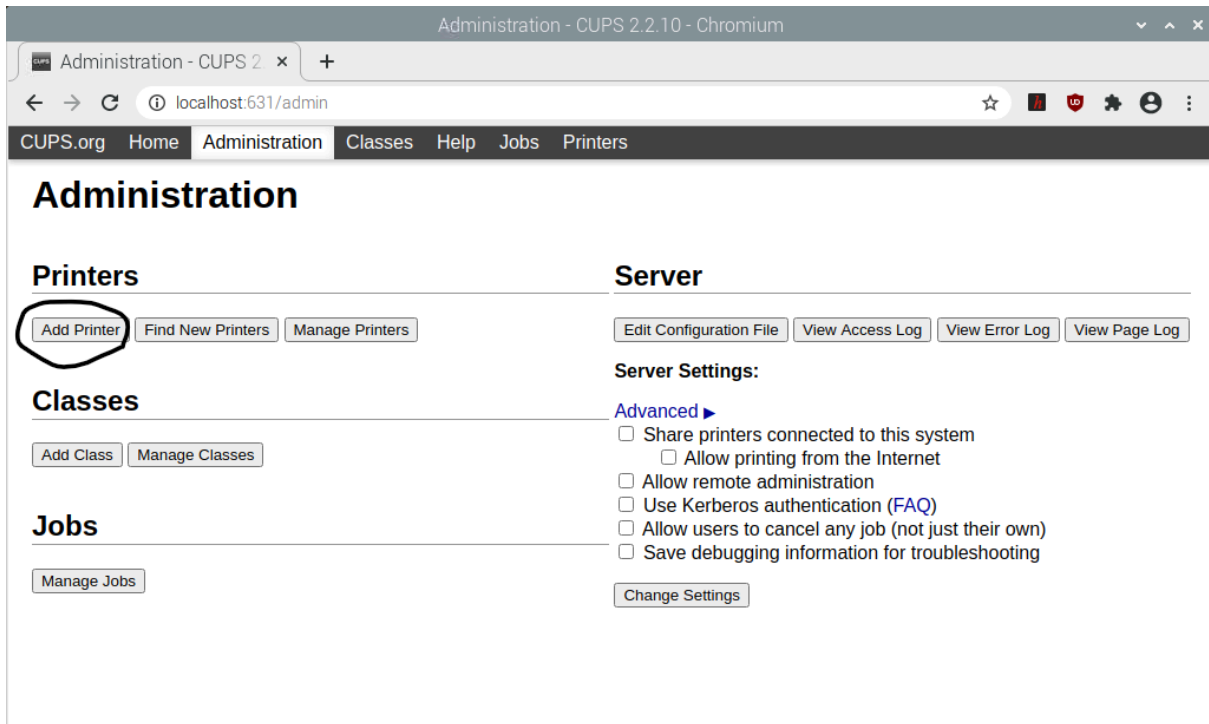
Step 2: Access the CUPS Interface
1. **Open CUPS in your browser**
   a. Navigate to `http://localhost:631` in your web browser to access the CUPS web interface.
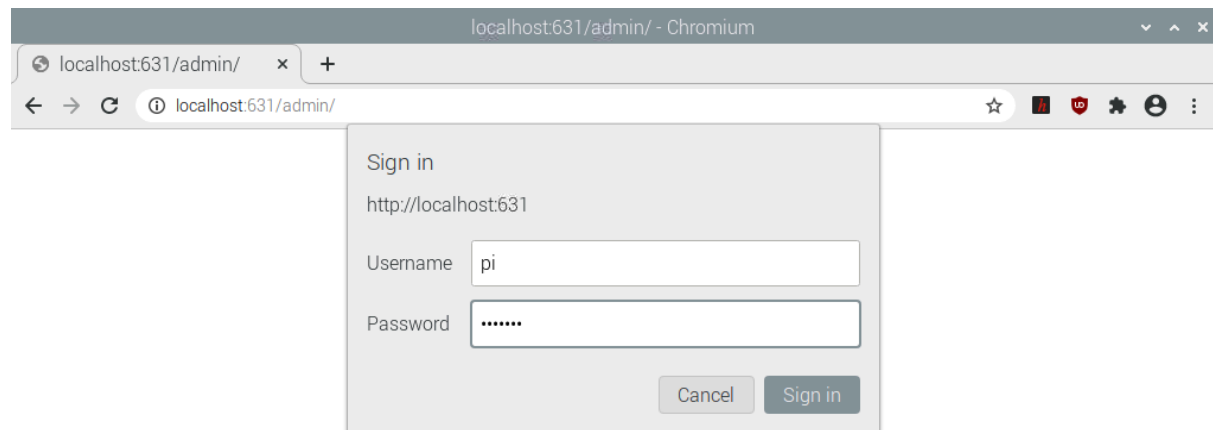
Step 3: Add a Printer
1. **Go to the Administration Tab:**
   a. Click on the "Administration" tab in the CUPS interface.
   b. Select "Add Printer".

2. **Authenticate**:
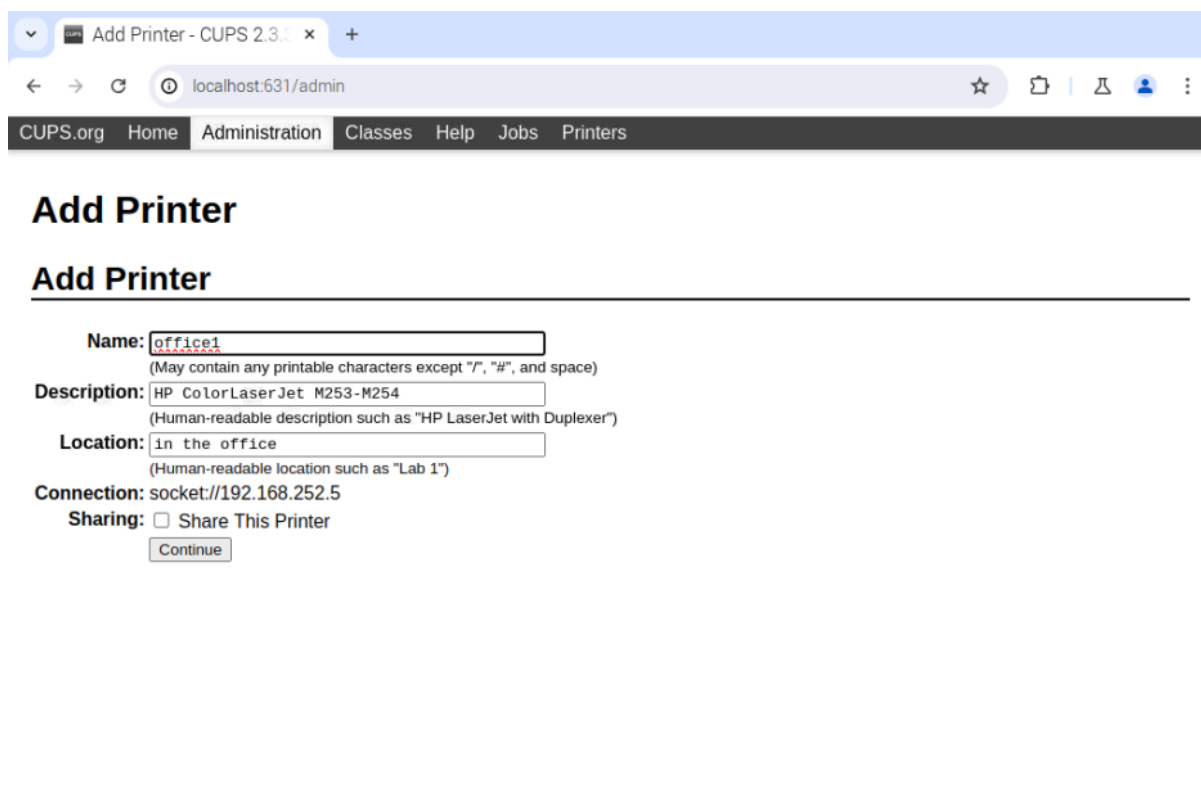   a. You will be prompted to enter your computer's username and password.

3. **Select Your Printer**:
    a. Under "Discovered Network Printers," a list of available printers will appear.
    b. If the list is blank, check that your printer is properly connected to the network and that it is on the same network as your computer.
    c. Choose the appropriate printer from the list. If there are multiple instances of your printer, select the one labeled "driverless" (if available) and click "Continue".
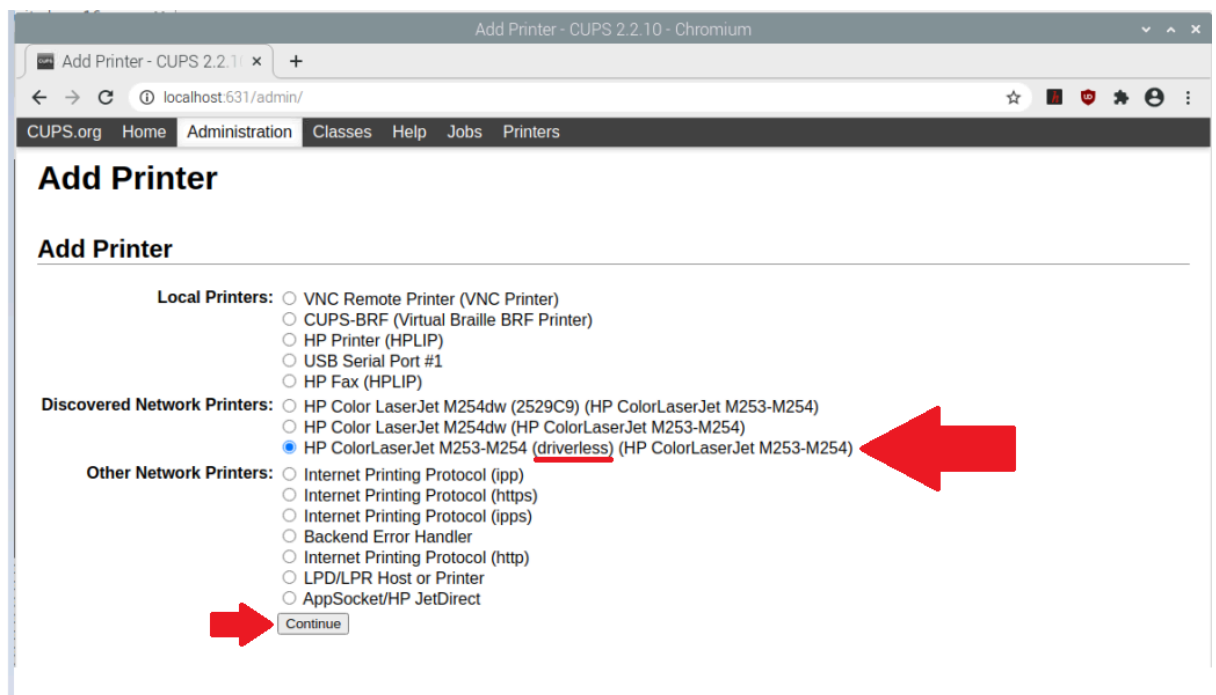
4. Name Your Printer

  a. Change the printer's name to exactly match the name you entered in the Printability Company Dashboard. This ensures consistency across systems.

  b. Click "Continue" to proceed.
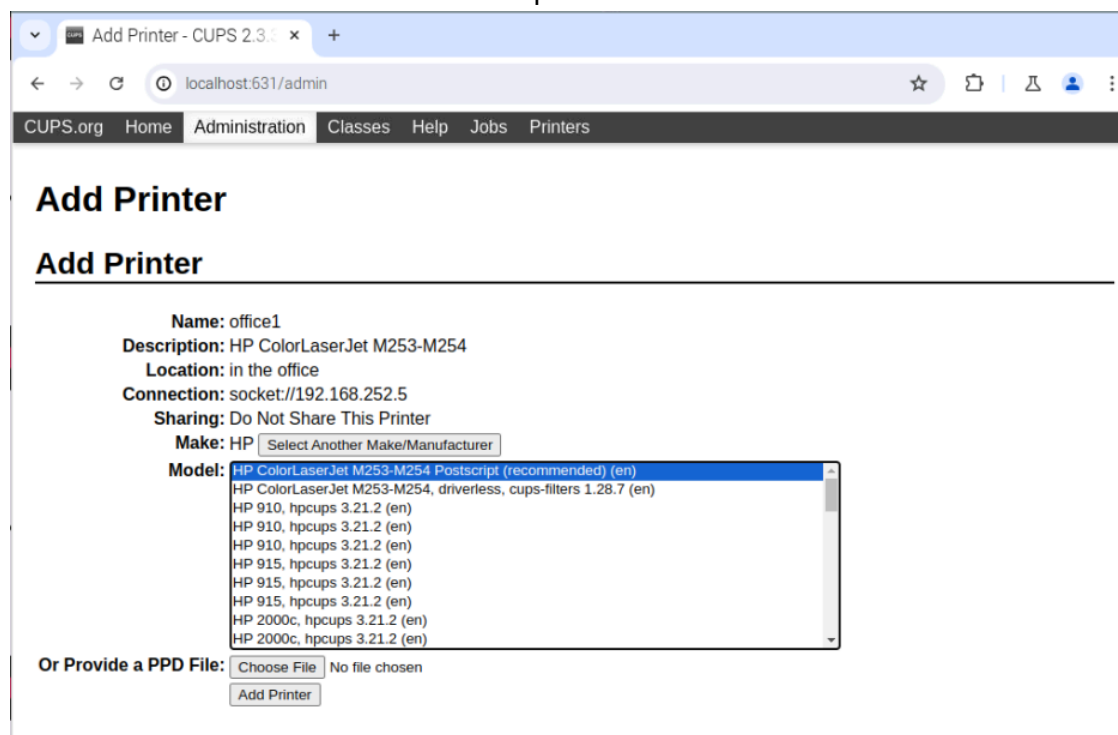
5. Select Printer Model:

  a. Choose the recommended printer model from the list and click "Continue".
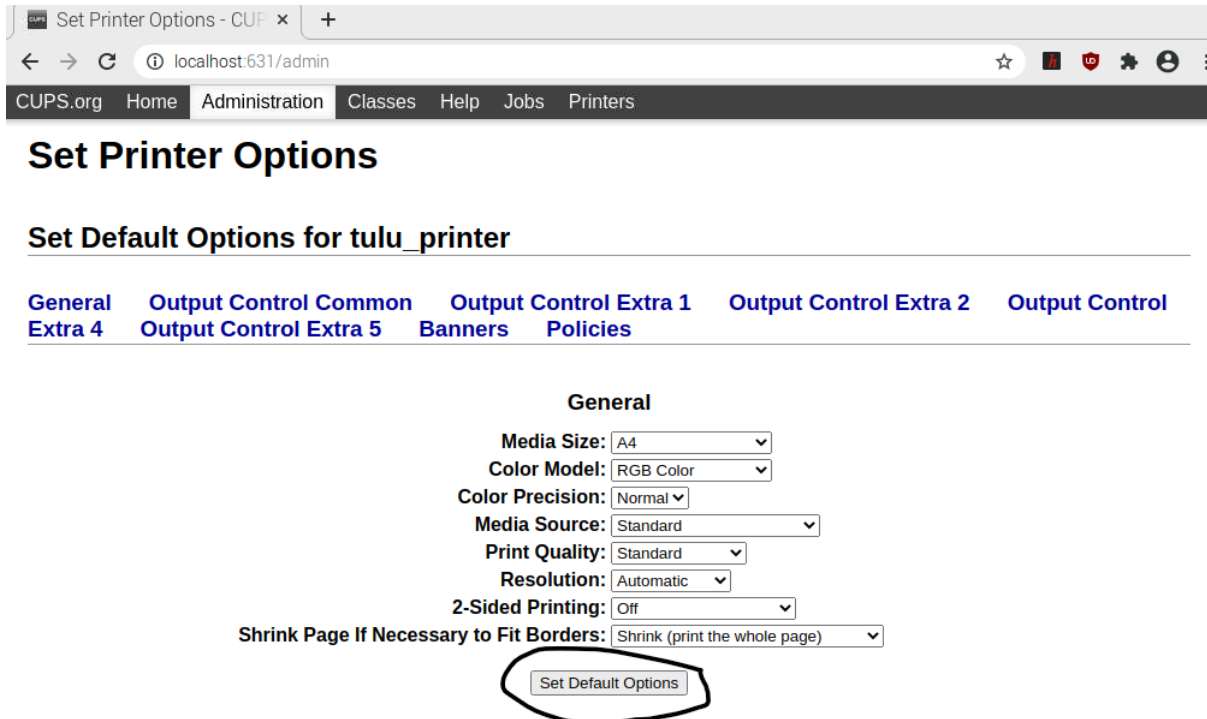
6. **Set Default Printing Options**:
   a. Customize your default printing options as needed and click "Set Default Options".

7. **Repeat**:
   a. If you have multiple printers, repeat the above steps for each one.

Step 4: Run the Print Server

1. **Start the Print Server**:
   a. Run the `print_server` script attached to the email you received after registration.
   b. At first run, you will be required to enter your company ID which you can get from your dashboard after login

```
idan@idan-VirtualBox:~/Documents/printabilty/CUPS server/dist$ ./print_server
--- request header ---
GET / HTTP/1.1
Upgrade: websocket
Host: printabilty-backend.up.railway.app
Origin: https://printabilty-backend.up.railway.app
Sec-WebSocket-Key: x72OaQIxYVtZRSBFISoRJg==
Sec-WebSocket-Version: 13
Connection: Upgrade


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--- response header ---
HTTP/1.1 101 Switching Protocols
Connection: Upgrade
Sec-Websocket-Accept: xiJEuSme/yHoVquaJYIKHDb0FBs=
Server: railway-edge
Upgrade: websocket
X-Railway-Request-Id: LN0afVDVQquvNlcHEi289A_499424464
----------------------
Websocket connected
Connection opened
Enter your company ID: █
```

   c. Once completed you are ready to go
   d. Ensure that this script runs on your computer at startup, so your printers are always available. You can do this by adding it to your system's startup applications or configuring a cron job.