

# Local Tv Share Setup Overview Guide

## Introduction

Join the movement to bring free, legal, over-the-air (OTA) TV to your community. Follow these steps to get started:

## Requirements Checklist

Before you begin, make sure you have the following:

- Raspberry Pi (recommended: Pi 4 or Pi 3B+)
- Over-the-Air (OTA) TV tuner (e.g., Hauppauge, HDHomeRun USB tuners)
- TV antenna (indoor or outdoor depending on signal)
- MicroSD card (16GB+, Raspberry Pi OS installed)
- Internet connection
- Local Tv Share account (sign up at <https://localtvshare.org>)

## Step 1: Prepare Your Raspberry Pi

1. Install Raspberry Pi OS using the Raspberry Pi Imager.
2. Boot and connect to the internet.
3. Run: `sudo apt update && sudo apt upgrade -y`

## Step 2: Connect Your OTA Tuner and Antenna

1. Plug OTA TV tuner into the Pi's USB port.
2. Connect your TV antenna to the tuner.
3. Run 'lsusb' to confirm it's detected.

## Step 3: Install TVHeadend

### 1. Run the following commands:

*# 1. Install prerequisites*

```
sudo apt update
```

```
sudo apt install -y gnupg curl apt-transport-https software-properties-common
```

*# 2. Add the GPG key*

```
curl -fsSL https://apt.tvheadend.org/stable/tvheadend-release.gpg.key | sudo gpg --dearmor -o /usr/share/keyrings/tvheadend.gpg
```

*# 3. Add the TVHeadend repository securely using the keyring*

```
echo "deb [signed-by=/usr/share/keyrings/tvheadend.gpg] https://apt.tvheadend.org/stable $(lsb_release -sc) main" | sudo tee /etc/apt/sources.list.d/tvheadend.list
```

*# 4. Update package list*

```
sudo apt update
```

*# 5. Install TVHeadend*

```
sudo apt install -y tvheadend
```

**2. During installation, you'll be prompted to set an admin username and password. Make note of these—they will be used to access the web interface.**

#### **Step 4: Access TVHeadend Web Interface**

1. Go to `http://<Your-RaspberryPi-Internal-IP>:9981` in your local browser.  
If you're not sure of your internal IP, run `hostname -I` on the Pi.
2. Log in using credentials.
3. Complete the setup wizard:
  - Select country, language, tuner
  - Map channels (DVB-T for OTA)
  - Save config

#### **Step 5: Join Local Tv Share**

1. Visit <https://localtvshare.org>
2. Sign up and verify your email
3. Log in and go to "Tv Server" to add your server

#### **Step 6: Enter Server Information**

1. Input the following details on the Local Tv Share website:
  - TVHeadend External IP Address (e.g., `http://123.45.67.89:9981`)
    - This is the IP address others will use to connect to your server.
    - Do not use your internal IP (e.g., `192.168.x.x`) here.
  - TVHeadend Username and Password set during setup
  - Your State and ZIP Code
2. Ensure Port 9981 is Open
  - You must configure your router to forward or trigger port 9981 to your Raspberry Pi's internal IP (e.g., `192.168.1.100`).
  - This allows outside users to reach your TVHeadend server via the external IP.
3. (Optional but helpful) Keep note of your internal IP address, as it's needed to configure port forwarding in your router settings.

## **Step 7: Confirm Server is Reachable**

- Local Tv Share will test your connection.
  - You can also test access manually by visiting your external IP from a mobile device on cellular data: <http://your-external-ip:9981>
- If online, your server is marked 'active'.
- You'll begin sharing local OTA TV channels.

## **What Happens Next?**

- EPG data is imported hourly.
- Your server status is monitored.
- Offline alerts are sent to your email.
- You're helping others access legal, free TV!

## **Need Help?**

Email [support@localtvshare.org](mailto:support@localtvshare.org) for assistance. When possible, please include screenshots to help us troubleshoot more effectively.