Before getting started.

- step: 1 Download an Ubuntu server install and set up on VMWARE.
- Step: 2 And create a file named playlist.txt on your /home/<ubuntu>/playlist.txt
- Step: 3 And create a directory named (video) on /home/<ubuntu>/video
- Step: 4 And upload a <a href="
- Step: 5 To Upload a folder on video directory use SCP
- Step: 6 ./ setup_media_server # make execute chmod +x setup_media_server
- Step: 7 ./update_ setup_media_server # make execute chmod +x

update_setup_media_server

Step: 8 ./run.sh # Make excute chmod +x run.sh

Method: Using SCP (Secure Copy)

SCP is a secure way to transfer files between your local machine and the Ubuntu server.

- 1. Ensure SSH is enabled on the Ubuntu server:
 - Log in to your Ubuntu server via the VMware console or SSH.
 - o Install and enable SSH if it's not already installed:

sudo apt update

sudo apt install openssh-server

sudo systemctl enable ssh

sudo systemctl start ssh

- 2. Find the IP address of the Ubuntu server:
 - Run the following command on the Ubuntu server:

ip a

- Note the IP address (e.g., 192.168.x.x).
- 3. Copy the file using SCP from Windows:
 - Open a terminal on Windows (e.g., Command Prompt, PowerShell, or Windows Terminal).
 - Use the scp command to transfer the file:

scp "C:\path\to\your\video.mp4" username@ubuntu_server_ip:/path/to/destination/

- Replace:
 - C:\path\to\your\video.mp4 with the full path to your video file on Windows.
 - username with your Ubuntu server username.
 - ubuntu_server_ip with the IP address of your Ubuntu server.
 - /path/to/destination/ with the directory on the Ubuntu server where you want to save the file.
- 4. Enter your Ubuntu server password when prompted.

STEP: 1

How to Use the Script

1. Save the Script:

Save the script as setup_media_server.sh on your Ubuntu server.

2. Make the Script Executable:

chmod +x setup_media_server.sh

3. Run the Script:

./setup_media_server.sh

What the Script Does

- 1. Installs Dependencies:
 - o FFmpeg, build tools, and libraries for Nginx.
- 2. Compiles and Configures Nginx:
 - o Sets up Nginx with the RTMP module and HLS support.
- 3. Creates a Web-Based HLS Player:
 - o Sets up a web page to play the HLS stream.
- 4. Sets Up FFmpeg Streaming:

o Streams a playlist of videos in a loop to the RTMP server.

5. Automates FFmpeg:

o Creates a systemd service to ensure FFmpeg runs continuously.

6. Displays Success Message:

o Provides the URL for the HLS player and the location of the playlist file.

Post-Setup Steps

1. Edit the Playlist:

o Update the /home/ubuntu/playlist.txt file with the paths to your videos.

2. Access the HLS Player:

o Open the HLS player in a browser:

http://<ubuntu_server_ip>/index.html

3. Test on Hospital TVs:

Use VLC or a web browser on the TVs to access the HLS stream.

STEP: 2

How to Use the Updated Script

Save the Script:

Save the script as update_setup_media_server.sh on your Ubuntu server.

Make the Script Executable:

chmod +x update_setup_media_server.sh

Run the Script:

./update_setup_media_server.sh

Enter Video Paths:

When prompted, enter the full paths to your video files.

Type done when you're finished.

How It Works

1. Playlist Creation:

- o The script prompts you to enter the full paths to your video files.
- o It validates each path to ensure the file exists.
- o You can type done to finish adding files.

2. Playlist File:

- The playlist file is created at /home/ubuntu/playlist.txt.
- o It contains the paths to the videos you entered.

3. FFmpeg Streaming:

o FFmpeg streams the videos in the playlist in a loop.

4. Automation:

o A systemd service is created to ensure FFmpeg runs continuously.

How to Use the Updated Script

1. Save the Script:

Save the script as setup_media_server.sh on your Ubuntu server.

2. Make the Script Executable:

chmod +x setup_media_server.sh

3. Run the Script:

./setup_media_server.sh

4. Enter Video Paths:

- When prompted, enter the full paths to your video files.
- o Type done when you're finished.

Example Interaction

Enter the full path to a video file (or type 'done' to finish):

/home/ubuntu/videos/video1.mp4

Added: /home/ubuntu/videos/video1.mp4

Enter the full path to a video file (or type 'done' to finish):

/home/ubuntu/videos/video2.mp4

Added: /home/ubuntu/videos/video2.mp4

Enter the full path to a video file (or type 'done' to finish): done

Playlist created at: /home/ubuntu/playlist.txt

Post-Setup Steps

1. Access the HLS Player:

Open the HLS player in a browser:

http://<ubuntu_server_ip>/index.html

2. Edit the Playlist:

If you need to update the playlist later, edit the file:

nano /home/ubuntu/playlist.txt

3. Restart FFmpeg:

If you update the playlist, restart the FFmpeg service:

sudo systemctl restart ffmpeg-stream.service

Steps to Use:

1. Save the script as run.sh:

nano run.sh

Paste the script and save it (CTRL + X, then Y, then Enter).

2. Make it executable:

chmod +x run.sh

3. Run the script:

./run.sh

This will continuously loop your playlist and stream it via RTMP. 🚀