# Jellyfin Administrator Guide

GNU/Linux Server Administration (CST8305)

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### Introduction

This guide provides comprehensive instructions on setting up, managing, and maintaining a Jellyfin Media Server via the terminal on a Red Hat Enterprise Linux 9.2 virtual machine. It includes detailed steps for installation, configuration, and client setup, ensuring a smooth user experience for both administrators and end-users.

## **Jellyfin Service Explanation & Implementation**

**Jellyfin** is an open-source media server that allows you to manage and stream your media. The implementation involves setting up Jellyfin on a RHEL 9.2 virtual machine, ensuring it can handle media libraries and stream to multiple clients.

#### **Implementation Steps:**

i. Install EPEL Repository via RHEL terminal:

```
sudo dnf install
https://dl.fedoraproject.org/pub/epel/epel-release-latest-9.noarc
h.rpm
```

ii. Install Jellyfin via RHEL terminal:

```
sudo dnf install
https://repo.jellyfin.org/archive/server/centos/stable/10.6.4/jel
lyfin-server-10.6.4-1.el7.x86_64.rpm
```

iii. Start and Enable Jellyfin Service via RHEL terminal:

```
sudo systemctl start jellyfin
sudo systemctl enable jellyfin
```

iv. Access Jellyfin Web Interface: Navigate to http://<your-server-ip>:8096 in a web browser to configure Jellyfin.

### **Description of FFmpeg Installation Method**

**FFmpeg** is a multimedia framework used by Jellyfin for video and audio processing.

#### **Installation Steps:**

1. Install FFmpeg:

```
sudo dnf install ffmpeg
```

2. Verify Installation:

```
ffmpeg -version
```

#### Maintenance

#### **Regular Maintenance Tasks:**

1. Update System Packages:

```
sudo dnf update -y
```

- 2. **Monitor System Performance:** Use tools like top, htop, and journalct1 to monitor system performance and Jellyfin logs.
- 3. **Backup Configuration and Media Data:** Regularly back up Jellyfin configuration files and media libraries.
- 4. Restart Jellyfin Service:

```
sudo systemctl restart jellyfin
```

### Recap

This guide has outlined the installation, configuration, and maintenance of the Jellyfin Media Server on a RHEL 9.2 VM. Key steps include setting up the EPEL repository, installing Jellyfin and FFmpeg, and configuring the Jellyfin service.

## **Final Thoughts**

Running a media server like Jellyfin on a RHEL 9.2 VM requires careful setup and regular maintenance. Ensuring that all dependencies are installed and that the service is properly configured will result in a stable and efficient media streaming experience.

### **Configuring Client Devices**

How to Use Jellyfin on Client Device #1 (Windows Host)

- 1. Open Web Browser:
  - Navigate to http://<your-server-ip>:8096.
- 2. **Log In:** 
  - Enter your Jellyfin credentials to access the media library.
- 3. Install Jellyfin Desktop Client (Optional):
  - Download and install the Jellyfin Desktop Client from the Jellyfin downloads page.

**How to Use Jellyfin on Client Device #2 (Mobile Device)** 

- 1. Android:
  - Download the Jellyfin app from the Google Play Store.
  - Open the app and enter the server URL: http://<your-server-ip>:8096.
  - Log in using your Jellyfin credentials.
- 2. **iOS**:
  - Download the Jellyfin app from the Apple App Store.
  - Open the app and enter the server URL: http://<your-server-ip>:8096.
  - Log in using your Jellyfin credentials.

#### Conclusion

This guide has provided detailed instructions for setting up and maintaining a Jellyfin Media Server on a RHEL 9.2 VM, including the installation of necessary dependencies, service configuration, and client setup. Following these steps ensures a reliable media streaming solution.

# **Appendix**

### **Configuration Files:**

- /etc/jellyfin/network.xml
- var/lib/jellyfin/config

#### **Useful Commands:**

- sudo systemctl status jellyfin
- sudo journalctl -u jellyfin

These commands allow you to view the status and logs for your Jellyfin service respectively. This will be useful when troubleshooting problems with your service.

### References

- [1] Jellyfin Documentation. [Online]. Available: https://jellyfin.org/docs/. [Accessed: 04-Aug-2024].
- [2] FFmpeg Documentation. [Online]. Available: https://ffmpeg.org/documentation.html. [Accessed: 04-Aug-2024].