Jellyfin Reverse Proxy Guide

Jellyfin Reverse Proxy Guide

Setting up a reverse proxy for your Jellyfin media server can significantly enhance your experience by allowing secure access from anywhere on the internet. A reverse proxy acts as an intermediary for requests from clients seeking resources from a server, providing benefits such as improved security, load balancing, and easier management of multiple services. This comprehensive guide will walk you through the steps needed to set up a reverse proxy for Jellyfin using popular web servers like Nginx and Apache.

What is Jellyfin?

Jellyfin is an open-source media server that allows you to organize, manage, and stream your personal media collection. It provides features similar to Plex and Emby but is completely free and self-hosted. With Jellyfin, you can stream videos, music, and photos to various devices, including smartphones, smart TVs, and web browsers. However, accessing Jellyfin remotely requires careful configuration, especially when it comes to security and ease of access.

Why Use a Reverse Proxy with Jellyfin?

Using a reverse proxy with your Jellyfin server comes with several advantages:

- Security: A reverse proxy can help secure your Jellyfin server by encrypting traffic with SSL/TLS certificates, preventing unauthorized access.

- Simplified Access: You can access Jellyfin through a custom domain name rather than a raw IP address, making it easier to remember.
- Load Balancing: If you have multiple Jellyfin servers, a reverse proxy can distribute the load among them.
- Unified Access Point: A reverse proxy allows you to host multiple services (like Jellyfin, Nextcloud, etc.) under the same domain.

Prerequisites

Before you start setting up a reverse proxy, ensure you have the following:

1. A Running Jellyfin Server: Ensure Jellyfin is installed and configured on your server.
2. Domain Name: You will need a domain name to access Jellyfin remotely.
3. Web Server: Choose a web server for the reverse proxy setup. Nginx and Apache are the most commonly used options.
4. SSL Certificate: For secure access, obtain an SSL certificate through Let's Encrypt or another certificate authority.

Setting Up Nginx as a Reverse Proxy for Jellyfin

Nginx is a popular choice for setting up a reverse proxy due to its simplicity and performance. Below are the steps to configure Nginx for Jellyfin.

Step 1: Install Nginx

If you haven't already installed Nginx, you can do so using your package manager. For example:

- On Ubuntu/Debian:
```bash
sudo apt update
sudo apt install nginx
```

- On CentOS/RHEL:
```bash
sudo yum install nginx
```

Step 2: Configure Nginx

Create a new configuration file for Jellyfin in the Nginx sites-available directory.

```bash
sudo nano /etc/nginx/sites-available/jellyfin
```

Add the following configuration:

```nginx
server {
listen 80;
server_name yourdomain.com; Replace with your domain name

location / {
proxy_pass http://localhost:8096; Default Jellyfin port
proxy_set_header Host $host;
proxy_set_header X-Real-IP $remote_addr;
proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
proxy_set_header X-Forwarded-Proto $scheme;
proxy_http_version 1.1;
proxy_set_header Connection "";
proxy_cache_bypass $http_upgrade;
}
}
```

Step 3: Enable the Configuration

To enable the new configuration, create a symbolic link in the sites-enabled directory:

```bash
sudo ln -s /etc/nginx/sites-available/jellyfin /etc/nginx/sites-enabled/
```

Step 4: Test the Configuration and Restart Nginx

Before restarting Nginx, test the configuration to ensure there are no syntax errors:

```bash
sudo nginx -t
```

If the test is successful, restart Nginx:

```bash
sudo systemctl restart nginx
```

Step 5: Set Up SSL with Let's Encrypt (Optional but Recommended)

For secure access, install Certbot to manage SSL certificates:

```bash
sudo apt install certbot python3-certbot-nginx
```

Run Certbot to obtain a certificate:

```bash
sudo certbot --nginx -d yourdomain.com
```

Follow the prompts to configure SSL. Certbot will automatically update your Nginx configuration to use HTTPS.

Setting Up Apache as a Reverse Proxy for Jellyfin

If you prefer using Apache, here are the steps to configure it as a reverse proxy for Jellyfin.

Step 1: Install Apache

You can install Apache using your package manager. For example:

- On Ubuntu/Debian:
```bash
sudo apt update
sudo apt install apache2
```

- On CentOS/RHEL:
```bash
sudo yum install httpd
```

Step 2: Enable Required Modules

Enable the necessary modules for proxying:

```bash
sudo a2enmod proxy
sudo a2enmod proxy_http
```

Step 3: Configure Apache

Create a new configuration file for Jellyfin:

```bash
sudo nano /etc/apache2/sites-available/jellyfin.conf
```

Add the following configuration:

```apache

ServerName yourdomain.com Replace with your domain name

ProxyRequests Off
ProxyPass / http://localhost:8096/ Default Jellyfin port
ProxyPassReverse / http://localhost:8096/


Order deny,allow
Allow from all


```

Step 4: Enable the Configuration

Enable the new site configuration:

```bash
sudo a2ensite jellyfin.conf
```

Step 5: Test the Configuration and Restart Apache

Test the configuration:

```bash
sudo apachectl configtest
```

If successful, restart Apache:

```bash
sudo systemctl restart apache2
```

Step 6: Set Up SSL with Let's Encrypt (Optional but Recommended)

You can use Certbot with Apache to obtain an SSL certificate:

```bash
sudo certbot --apache -d yourdomain.com
```

Follow the prompts to configure SSL.

Testing Your Reverse Proxy

After configuring your reverse proxy, you can test it by visiting your domain in a web browser. You should see the Jellyfin login page. If you configured SSL, ensure the URL starts with `https://`.

Troubleshooting Common Issues

1. Connection Refused: Ensure that your Jellyfin server is running and listening on the correct port (default: 8096).
2. 502 Bad Gateway: Check the proxy configuration and ensure that the Jellyfin server is accessible from the web server.
3. Mixed Content Warnings: If using SSL, ensure that all resources are being requested over HTTPS.

Conclusion

Setting up a reverse proxy for Jellyfin can greatly enhance your media server's accessibility and security. Whether you choose Nginx or Apache, the process is straightforward and can be accomplished with just a few commands. By following this guide, you can enjoy seamless access to your media library

from anywhere, ensuring that your Jellyfin experience is both enjoyable and secure.

Frequently Asked Questions

What is Jellyfin and why would I need a reverse proxy for it?

Jellyfin is an open-source media server that allows you to organize and stream your media content. A reverse proxy can enhance security, manage traffic, and enable SSL encryption, making it easier to access your Jellyfin server from outside your local network.

Which reverse proxy servers are commonly used with Jellyfin?

Commonly used reverse proxy servers with Jellyfin include Nginx, Apache, and Caddy. Each has its own configuration steps but serves the purpose of routing traffic to your Jellyfin server.

How do I set up a basic Nginx configuration for Jellyfin?

A basic Nginx configuration for Jellyfin includes setting the server block to listen on your desired port (e.g., 80 or 443) and proxying requests to the Jellyfin server's local address. You'll typically define the proxy_pass directive to point to http://localhost:8096.

What are the benefits of using SSL with my Jellyfin reverse proxy?

Using SSL with your Jellyfin reverse proxy encrypts the data transmitted between the client and the server, protecting your media content and personal information from eavesdroppers and ensuring secure connections.

How can I configure LetsEncrypt for SSL on my Jellyfin reverse proxy?

To configure LetsEncrypt for SSL, you can use Certbot to automatically obtain and install SSL certificates. You need to set up your reverse proxy server (like Nginx) to redirect HTTP traffic to HTTPS and specify the certificate files in your server block configuration.

What URL paths should I include in my Jellyfin

reverse proxy configuration?

In your reverse proxy configuration, you should include paths such as /jellyfin/ for accessing Jellyfin and ensure that WebSocket connections are also properly proxied to handle real-time features like playback.

Is it necessary to use a reverse proxy for remote Jellyfin access?

While it's not strictly necessary, using a reverse proxy makes remote access easier and more secure. It allows for better handling of SSL certificates, improves security measures, and can help manage multiple services on the same server.

What troubleshooting steps can I take if Jellyfin is not accessible through my reverse proxy?

If Jellyfin is not accessible through your reverse proxy, check the proxy configuration for errors, ensure that the Jellyfin service is running, confirm that firewall settings allow traffic on the necessary ports, and review logs from both Jellyfin and the reverse proxy for any indications of issues.

Find other PDF article:

https://soc.up.edu.ph/10-plan/files?dataid=OFg17-2211&title=blue-bloods-season-4-episode-guide.pdf

Jellyfin Reverse Proxy Guide

The Free Software Media System | Jellyfin
What is Jellyfin? Jellyfin enables you to collect, manage, and stream your media. Run the Jellyfin server on your system and gain access to the leading free-software entertainment …

jellyfin/jellyfin: The Free Software Media System - GitHub
Jellyfin is a Free Software Media System that puts you in control of managing and streaming your media. It is an alternative to the proprietary Emby and Plex, to provide media from a …

Plex vs. Jellyfin: Which Media Server Solution Is the Best for You?
Jul 22, 2025 · Plex charges for features Jellyfin offers for free, but requires more setup. Jellyfin offers free hardware transcoding, while Plex requires a paid subscription. Plex is …

Jellyfin Forum
Jul 17, 2025 · We have 10713 topics being discussed. Our newest member is delhi__37. No online staff.

Jellyfin - Download
Apr 6, 2025 · Jellyfin is a media center that allows its users to gather, control and stream multimedia files from a single place. Unlike other such programs like Plex, Jellyfin guarantees that …

The Free Software Media System | Jellyfin
What is Jellyfin? Jellyfin enables you to collect, manage, and stream your media. Run the Jellyfin server on your system and gain access to the leading free-software entertainment system, …

jellyfin/jellyfin: The Free Software Media System - GitHub
Jellyfin is a Free Software Media System that puts you in control of managing and streaming your media. It is an alternative to the proprietary Emby and Plex, to provide media from a dedicated …

Plex vs. Jellyfin: Which Media Server Solution Is the Best for You?
Jul 22, 2025 · Plex charges for features Jellyfin offers for free, but requires more setup. Jellyfin offers free hardware transcoding, while Plex requires a paid subscription. Plex is more …

Jellyfin Forum
Jul 17, 2025 · We have 10713 topics being discussed. Our newest member is delhi__37. No online staff.

Jellyfin - Download
Apr 6, 2025 · Jellyfin is a media center that allows its users to gather, control and stream multimedia files from a single place. Unlike other such programs like Plex, Jellyfin guarantees …

Jellyfin - Wikipedia
Jellyfin is a free and open-source media server and suite of multimedia applications designed to organize, manage, and share digital media files to networked devices.

Downloads - Jellyfin
Install Jellyfin via our APT repository or via manual archives (.deb). Linux self-contained binary TAR archives (.tar.gz) are provided. Install Jellyfin via Arch-Extra Repository. Install Jellyfin via …

I finally found a way to watch YouTube on Jellyfin — and it's …
6 days ago · It acts as a brilliant bridge, allowing Jellyfin to intelligently integrate and display the videos managed by TubeArchivist, turning my media server into a powerful YouTube hub.

Your guide to Jellyfin, an alternative to Plex | Popular Science
Apr 20, 2023 · If you're weighing Jellyfin vs. Plex, use this guide to learn how to use Jellyfin, an open-source program that turns your computer into a media server.

jellyfin/jellyfin - Docker Hub
Jellyfin is a Free Software Media System that puts you in control of managing and streaming your media. It is an alternative to the proprietary Emby and Plex, to provide media from a dedicated …

Unlock the full potential of Jellyfin with our comprehensive reverse proxy guide. Learn how to set it up for seamless streaming. Discover how today!

[Back to Home](#)