

# Plex index's & RemIdx

This document is a **MUST READ** document **EVERY TIME YOU UPDATE** this program.

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## About Plex

Plex is, at least as the writer of this documents thinks, the best of all media centers out there, due to the following:

- It's free
- It supports streaming towards multiple devices native
- IOS
- Android
- LG Smart TV

- Google TV
- Samsung Smart devices

and lot's of others

It also allows you to share your medias to either your-self, when on the road, or friends  
Plex can be found here: <http://plex.tv/>

## What is RemIdx

- RemIdx is a free open-source program, that adds to your Plex experience.
- RemIdx can be found here: <https://github.com/ukdtom/RemIdx>
- RemIdx will take the burden of your Plex server, if indexing is a problem
- RemIdx can be stopped/started at any time, and will continue where it left off

## What is Indexes

Indexes, at least as I see it, is that Plex has implemented a new functionality, allowing you the following things:

- In your player, if the player support it, when doing a fast forward, they will see small snapshots of the movie, allowing the user to quickly determine where to go, instead of relying on movie timestamps
- In the Plex Web administration pages, when signed in to myPlex, you can see what people using your server is watching, and follow their progress via thumbnails of the movie In short, indexes is a small file, that contains snapshots of pictures in your medias at regular intervals

## The problem

If you have a large section within Plex, and decide to switch on indexing, or if you have indexing turned on, and bulk add a lot of new medias, you might end up with your Plex Server not responding, due to a heavy workload on the server, until all medias has been indexed, and this **could take days!**

Naturally the time frame of this all depends on both the amount of items in your section, as well as the duration of the individual items, and the power of your server.

(But community reports are telling about **+15 days** for the task to complete, and most people can't live without their Plex for more than 5 sec. so it's a problem)

## The program

## System Requirements

Since this is a two-headed beast, requiring both a plug-in running on your PMS, as well as a remote workstation, I'm happy to say, that PMS wise, all platforms should be supported, but currently only tested on QNAP.

It is highly recommended, that the PMS and the Remote Indexer are connected via cable, and not wireless

## Remote Indexer Workstation

This little program needs the following:

- ffmpeg must be installed on the workstation running this program
- Python 2.7 must be installed on this workstation . (And it **must** be version 2.7)
- Currently, Windows as a PMS server is **NOT** supported, but will be soon

## How it works

The program will do the following:

- When a media is refreshed, the agent bundle named RemIdx.bundle will detect this, and check if an Index exists
  - If an index already exists, it'll simply exit
  - If an index does not exists, it'll notify the Remote Indexer
- The Remote Indexer will then do the following:
  - add the media to it's Queue
  - Process the Queue one by one, and do the following:
    - Stream down the media, and generate a bunch of thumbs
    - generate a bif file of above
    - Slam the PMS RemIdx agent on the PMS about the fact, that a Bif-file is ready
- PMS agent will then do the following:
  - Query the Remote Indexer about available Bif-files for download, and then fetch them one by one
  - Add them to the library
  - Tell the Remote Indexer to remove them from it's storage
- The Remote Indexer will then do the following:
  - Remove the Bif-File

And then the story starts all over

Note:

If the Remote Indexer is not up and running, when doing a refresh on the PMS, requests will be discarded.

# Installation

## *PMS Bundle Agent*

### PMS Bundle Agent Installation

After downloading this app, you must extract it, and will end up with a directory that looks like this:



Then you must locate the correct Plug-In directory on your PMS, so follow the guide here:

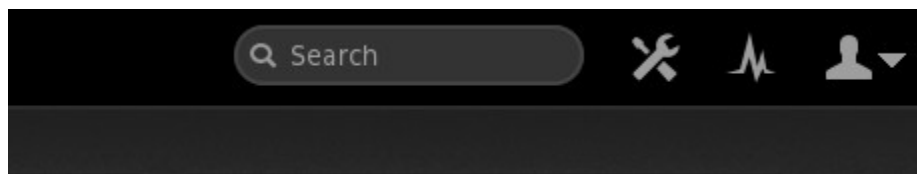
<https://plexapp.zendesk.com/hc/en-us/articles/201106098-How-do-I-find-the-Plug-Ins-folder->

After locating it, copy the folder named RemIdx.bundle to that folder, and restart your PMS

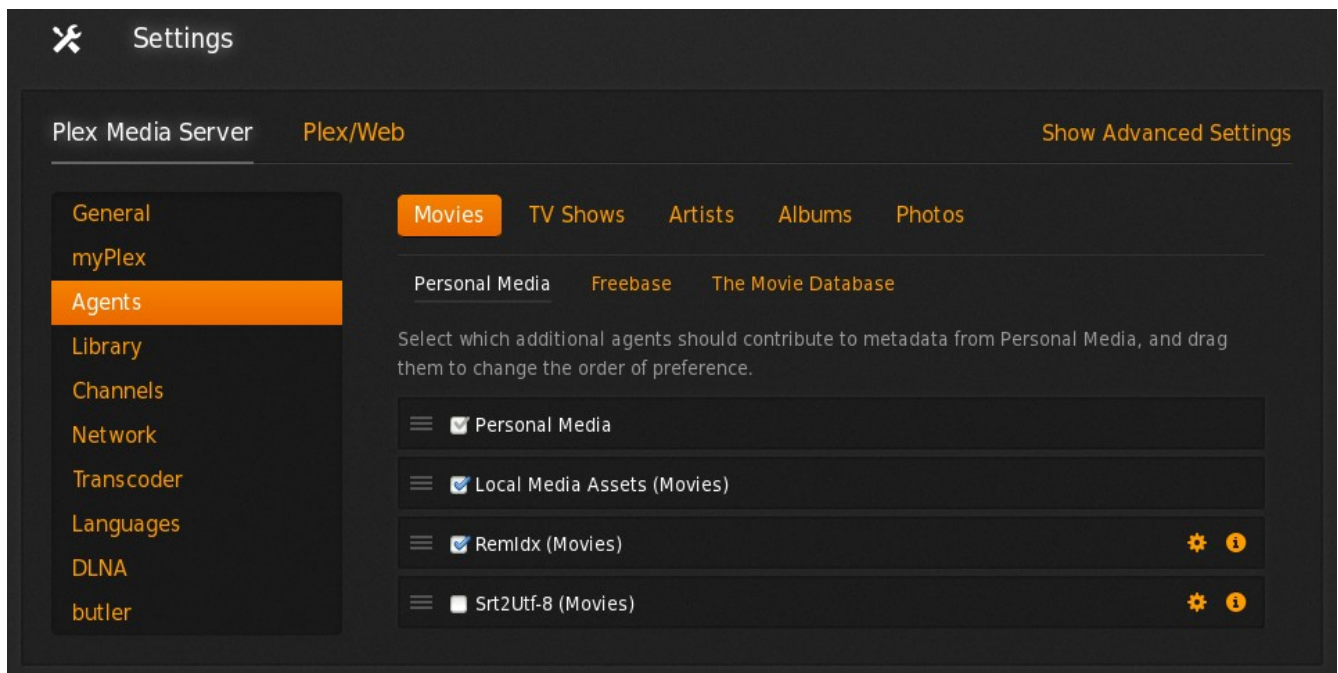
### PMS Bundle Agent configuration

After the agent has been installed, and your PMS has been restarted, the agent must be configured, and to do so, you must access the Web Administration of PMS, and there select Settings(the tools icon) on the top right:

<http://<IP address of your PMS>:32400/web/index.html#!/settings>



Then make sure, that you on the top left selected “Plex Media Server”, and then the “Agents”



Now under the “Personal Media” for the Movies, you should find an entry named RemIdx. Make sure it's enabled, and at the bottom. Then click on the little gear icon for it, and in the dialog that opens, fill out the missing gaps.

The image shows a dialog box titled 'RemIdx (Movies) Settings' with a close button (X) in the top right corner. It contains four input fields with labels: 'Remote Indexer IP address or DNS name' (value: 192.168.1.150), 'Port number of remote indexer' (value: 32405), 'Local IP Address of this PMS' (value: 192.168.1.12), and 'Local port of this PMS' (value: 32400). At the bottom right, there are two buttons: 'Save' (orange) and 'Cancel' (gray).

It is important, that you for the entry named “Local IP Address of this PMS” **not** use the loopback address, but the actual LAN address of your PMS. In my case it was 192.168.1.12

Click save, and you're done with the PMS configuration

## ***Remote Indexer***

### **Dependencies**

Before starting the Remote Indexer, you'll need the following:

Python 2.7.x found here: <http://www.python.org/downloads/>

FFMPEG, found here: <http://www.ffmpeg.org/download.html>

After downloading and installing above, you'll have to find the exact path to the FFMPEG executable, including it's name

In my case, running OpenSuse, it's : /usr/bin/ffmpeg

### **Configuration**

Now open the file from the extracted directory named Remote\_Indexer/RemIdx.py with an editor like notepad or siml.

Locate line 23, that will look like: `PATH_TO_FFMPEG = "/usr/bin/ffmpeg"`

Change that to match the path to FFMPEG for your workstation

Locate line 28, that will look like: `LOCAL_PORT = "32405"`

Change that, if you changed the defaults when you configured the PMS

Save the file again

Depending on your OS, you must now make sure, that any local firewall allows outside access to the LOCAL\_PORT for http. (Defaults to 32405)

### **Directory layout**

After starting the Remote Indexer, some directories will be created when they are needed, in the same directory as the Remote Indexer.

1. Queue : This directory holds information about medias waiting to be indexed
2. Work : This directory holds information about the media that is currently been indexed
3. Tmp : This directory contains temporary screen shots from the media
4. Out : This directory holds the created index file, while waiting for the PMS to pick it up

### **Using it**

On the remote workstation, open up a terminal/command prompt, and navigate to the extracted directory/Remote\_Indexer

Run either RemIdx.sh (Linux and Mac) or RemIdx.cmd (Windows)

You should now see a picture looking like this:

```
*****
* Welcome to the RemIdx Remote Indexer version 0.0.0.5
*
* Made by dane22, a Plex community member
*
* If you have not yet customized me, you need to do so now!
* Press <ENTER>, and edit lines 23 and 28 before starting me again
*****
* Path to ffmpeg is: /usr/bin/ffmpeg
*****
* http daemon init okay
* Starting httpd daemon
* Serving HTTP on 0.0.0.0 port 32405 ...
*****
*****
* Currently working on item:
* ***** Idle, waiting for work *****
* Press <ENTER> to quit
*****
Press <ENTER> to stop
█
```

Your Remote Indexer is now ready to work, and all you have to do now, is in PMS WebAdmin to refresh either a section, or an individual movie.

If you decide to close down the Remote Indexer, it'll continue where it left off next time you power it on again.

If you refresh items on your PMS, while the Remote Indexer is not running, those items will not be added to the Queue

## More than one

If you have more than one PMS running, you can install the bundle agent on them all, and one Remote Indexer will serve them all.

More than one Remote Indexer for a single PMS is however not supported

## Known issues

### Version 0.0.0.5:

- **Not working with the remote indexer running on windows**
- When doing a refresh of a single TV episode, all episodes in that TV-Serie will be queued, if



they are missing an index

- If this program has finished creating an index for a media, and uploaded it to your PMS, Automatic Index Generation on the PMS will be switched back on. It will be on for about 1 sec. If you happen to add a new media during that exact second, then the new media might be indexed by the PMS :-)

## **General Issue:**

When the RemIdx.bundle is launched on your PMS, it'll disable the Automatic Index generation, since it's now taken over.

This is not a bug, but working as intended

## **Uninstall**

If you decide not to use RemIdx anymore, then delete the RemIdx.bundle directory on your PMS, and restart PMS.

On the local workstation, delete the Remote\_Indexer directory