# Tutorial for Automating Your TV Show Downloads – Cut the Cord!

By Anonymous. For #DC423. On 2016-4-27.

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# Materials:

Windows Machine (the tutorial explains it for Windows, though you can set it up for Mac or Linux)	Sonarr	Two different bittorrent applications (utorrent, bittorrent, etc.)
Decent-sized hard drive	Scissorsto cut the cord	Plex Media Server
\$0 (it's free!)	Roku/PS3/etc with Plex Media Server Installed	1-2 hours setup time

### What is this tutorial?

This tutorial introduces a method for automating the download of your favorite TV episodes through the use of torrents. The time between the show airing and it being available for viewing on your media server is only about 20 minutes; all without you having to click a thing once you set it all up. Never miss a show again!

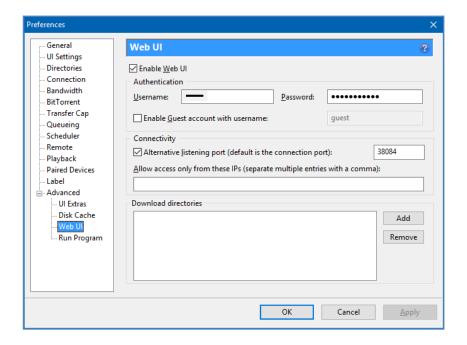
#### **Notes:**

- Plex and Sonarr are to be installed on the same PC for this tutorial.
- This tutorial assumes you have setup Plex Media Server already. If you haven't, go set that up first on the PC, throw some media into it, and verify that you can stream shows to your other devices such as a Roku or PS3 using the Plex app for those devices. In the Plex Library settings on the PC, set it to Update my library automatically. This will allow newly downloaded files to be immediately detected minimizing the time between when the show airs and when you can view it on Plex.
- **Timeline:** My shows have been known to finish downloading and be watchable on Plex anywhere from <u>3</u> minutes to <u>1 hour</u> after airing on TV. Factors:
  - Time until torrent appears on website
  - o Download time. This depends on subfactors that can be out of your control such as:
    - How soon a torrent is uploaded
    - Connection speed of your internet
    - Connection speed of seeders (uploaders)

- Size of file
- Mandatory seed/upload time: 1min
- Renaming and transfer to end folder destination: <1 second</li>
- Plex detection and TV show available to watch: <1-20 seconds</li>
- This tutorial assigns uTorrent to be your client for exclusively downloading your Sonarr TV show torrents. If you're like me and are confused easily, use another torrent application for those times where you are downloading other torrents on an individual basis. This is why I recommend installing a torrent application in addition to uTorrent
- uTorrent has ads that are very annoying because they frequently change and make noises. Follow this tutorial to learn how to disable them: <a href="http://bitsnapper.com/disable-ads-from-utorrent/">http://bitsnapper.com/disable-ads-from-utorrent/</a>
- This tutorial requires a total of three folders that all have a purpose:
  - Sonarr folder
    - Where the TV shows are first downloaded to. Once download is complete, uTorrent seeds/uploads for 1 minute and they are then transferred to the Sort folder
  - Sort folder
    - Where Sonarr renames the files to a consistent schema set by the user during this tutorial. They
      are then transferred to the final destination in the TV Shows folder
  - TV Shows folder
    - Final resting place of all the shows. This is the directory that Plex monitors for file changes so it can add any new shows to its library automatically. Shows are stored in folders by title and then by season under that.
- Some private tracker torrent websites do not have a search capability which makes automatically downloading a
  pain. Some private tracker torrent sites download .rar files too, which requires you to set up a way to
  automatically extract them. That is outside the scope of this tutorial, as I do not show how to set this up using a
  private tracker.
- Staying anonymous is important if you will be downloading any sort of torrent for any length of time. Protect yourself by using the following safeguards:
  - An install of Peerblocker that is kept up-to-date: http://www.peerblock.com/releases
  - A secure VPN
  - A proxy (there can be compatibility issues with certain torrent applications)
  - Utilize Usenet instead of torrents (would make most of this tutorial null, but Sonarr does support Usenet so you can still achieve your goals)
  - o Googling how to be safe when torrenting
  - O DO NOT USE THE PIRATEBAY. I REPEAT: DO NOT USE THE PIRATEBAY.

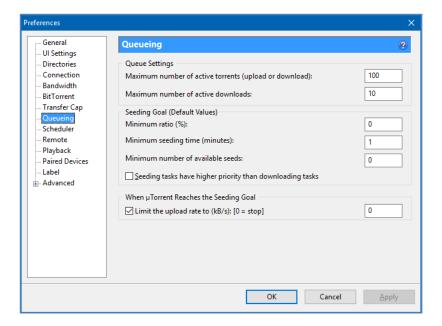
## **Tutorial:**

- 1) Download Sonarr: https://sonarr.tv/#download
- 2) Run installer and check the **Install as a Windows service** checkbox.
- 3) Download the latest stable version of a Bittorent (this will be used for downloading non-TV show torrents manually...if you already have a torrent app like this, then just use it instead; this hardly has any configuration): <a href="http://www.bittorrent.com/bittorrent-free">http://www.bittorrent.com/bittorrent-free</a>
- 4) Download the latest stable version of uTorrent (or your preferred torrent application, though we will use uTorrent for this tutorial): <a href="http://www.utorrent.com/intl/en/downloads">http://www.utorrent.com/intl/en/downloads</a>
- 5) Set uTorrent to start up automatically (important in case your machine ever loses power).
- 6) In uTorrent, go to Options -> Preferences
- 7) Set identical settings to these, but make your own secure username and password.

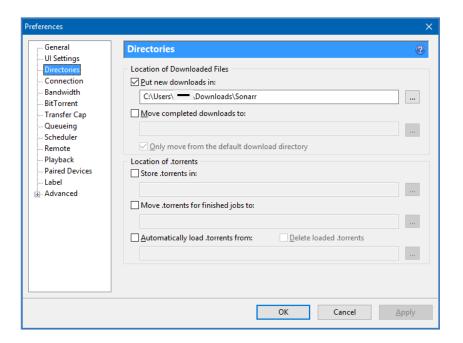


8) Duplicate these settings too.

Note: The **Minimum seeding time** here is the lowest time you can set your torrent to seed. It's set to 1 minute because if you are using *public trackers* (more on that later) you will want to *minimize* the amount of time your files are uploading to other users. Once the file download is complete, this setting requires the torrent to seed (upload) for only 1 minute. It then continues its journey and is removed from uTorrent (but not your hard drive).



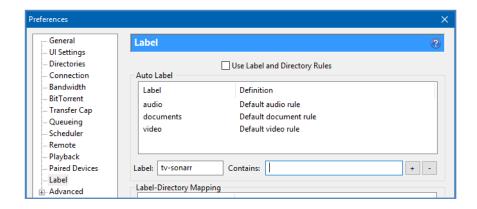
9) Create a new folder in Windows and name it what you want, in my case I called mine **Sonarr**. This is where files are initially downloaded to. They will later go into a sorting directory, then off to a final resting directory. More on that later.



10) Create a folder named **Sort** in Windows. This is where downloaded files will go to quickly be sorted before they arrive at their final destination.

Go to the **Label** section in the uTorrent preferences.

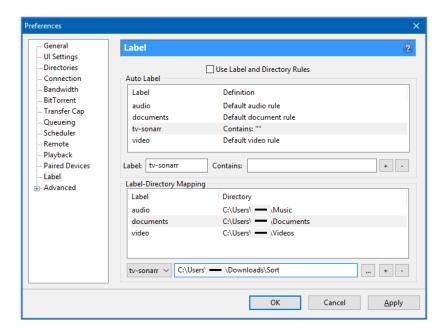
In the Label text box at the top, type tv-sonarr, leave the Contains field blank, then click the + button.



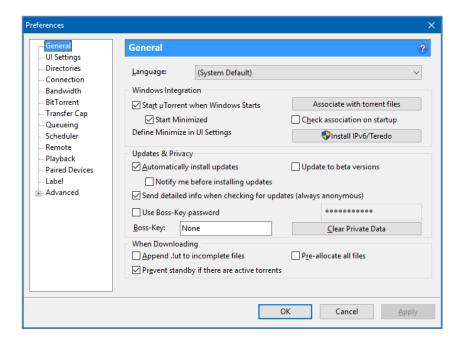
It should add that new label under the top **Auto Label** section. Click this new label so its selected, then using the drop down at the very bottom of the screen, click it and select **tv-sonarr**.

Now click the button with the three dots to choose the directory. Point this to the **Sort** folder you just made.

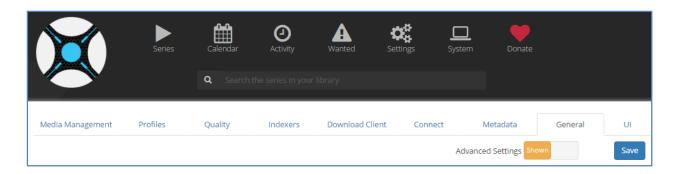
Finally, click the + button and it will add the label under the bottom **Label-Directory Mapping** section. Click Apply.



11) Set the following settings on the General tab.



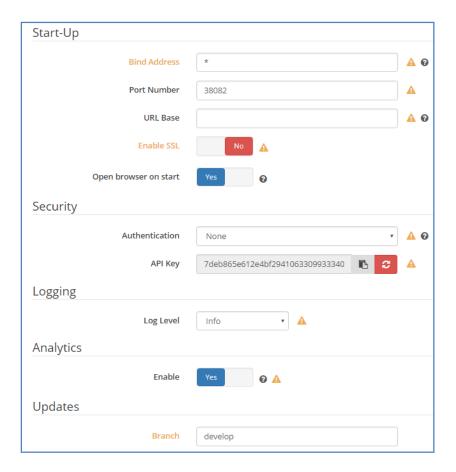
- 12) Open up Sonarr by clicking the shortcut in your start menu or desktop.
- 13) **Settings -> General** tab.
- 14) Click the sliding button next to **Advanced Settings** so that advanced settings are set to be shown (this will keep the Advanced Settings enabled regardless of what tab you go to from here on out so keep it set this way because you'll need the advanced settings).



15) Set the following settings:

Note: I set my **Authentication** to **None** because my server is only accessible from within my network. If you would like to forward the port on your router so that you can access this from anywhere on the web at anytime, then choose **Forms** (**Login page**) from the dropdown under **Authentication** and create a secure username and password.

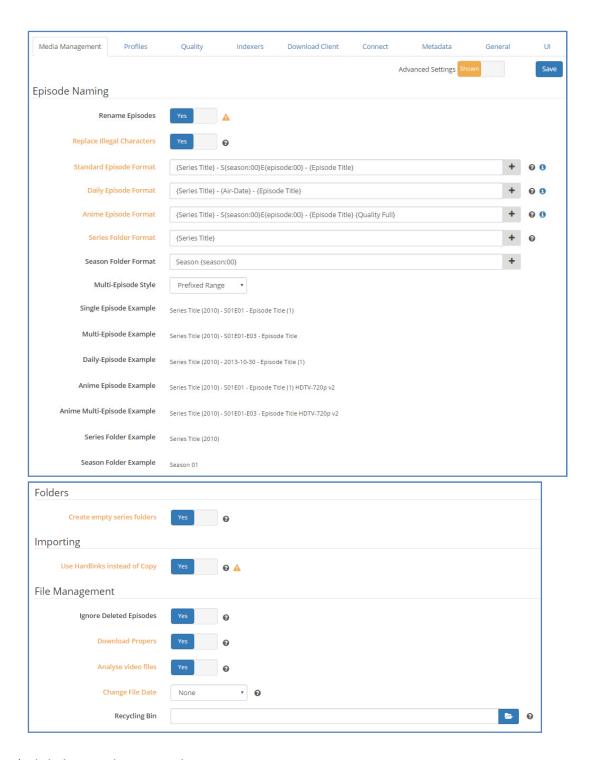
If you change the port number, don't forget what it is because you'll need it in a minute.



- 16) Now save your settings by clicking the blue **Save** button at the top right.
- 17) Reboot your host machine.
- 18) To load Sonarr again, go into a browser and type <a href="http://localhost:38082/gui">http://localhost:38082/gui</a>. I suggest you bookmark this link. If this doesn't load, look for the Nzbdrone service in Windows Services and mess around with it.
- 19) Go to **Settings -> Media Management** tab. Set the following.

Note: you can set these to your complete preference by clicking the + buttons next to them, **but** this is the **recommended settings** for using Plex so you should probably set it this way.

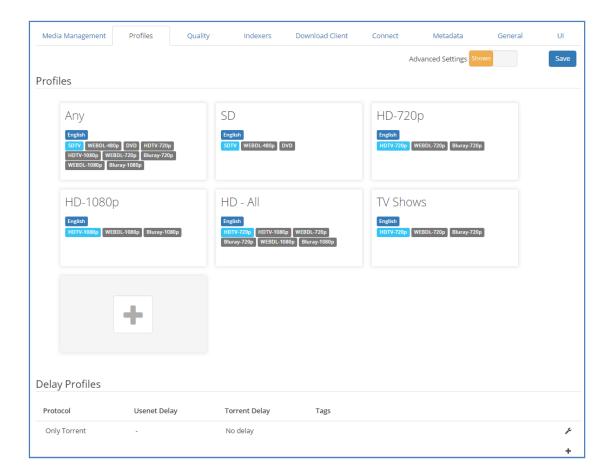
I strongly recommend that if you change anything else here, you still duplicate how I have the **Season Folder** Format because it's just cleaner for keeping those folders consistent. Change that by clicking the + button -> Season -> 01.



20) Click the **Save** button on the main page.

### 21) Now go to the **Profiles** tab.

This is where you set the *quality* of the TV show files you want to download. You can see that I added a profile boringly called **TV Shows** (I ended up putting the exact same settings in as the one named **HD-720p**, but that's beside the point).



- 22) Click the giant + button under the **Profiles**. We are going to create one.
- 23) Here is how I have my **TV Shows** one setup.

Note: By clicking the hamburger icon (the three horizontal lines) on each setting, you can drag and drop them around. This matters because Sonarr will prioritize searching for your shows depending on the order you have these in. **But**, the order is upsidedown. So set your most preferenced search at the bottom of the list.

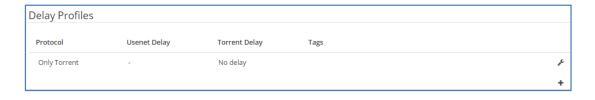
Sonarr is cool in that it will keep downloading higher and higher quality versions of the torrent and replacing it if it finds better a quality torrent. So in the **Cutoff** setting it basically means *Stop downloading better quality once I reach x quality.* 

Remember: the higher the quality, the more space the files will take up on your computer, so choose wisely.

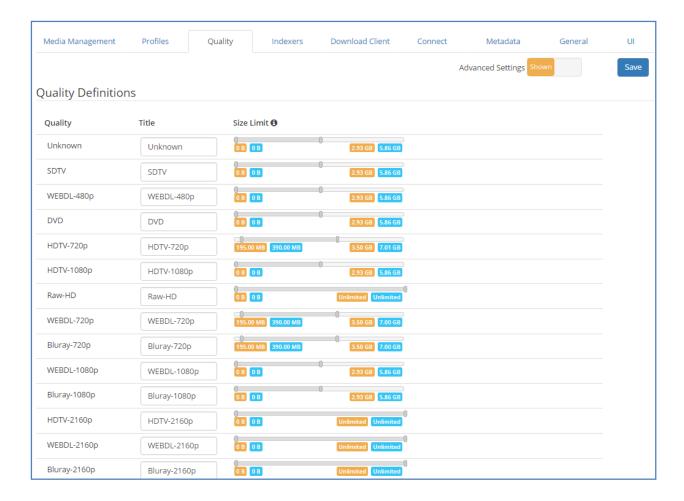


24) Back on the **Profiles** tab, set it for the following settings. This will cause Sonarr to grab a torrent as soon as it finds one matching your criteria.

You may be thinking why would it give me the option for a delay? The reason is because some people may want to wait until a higher quality torrent is available.



- 25) Click the Save button on the main page.
- 26) Go to the **Quality** tab. This is where you can set the range of file size to download. So let's say you had a profile for 1080p files and forget to set the range to a max size and suddenly you have a ton of 40GB TV shows. Oops. This is why you need to set these, especially if you are hard for space on your hard drive. If you are unsure of what to put, keep the defaults, you can always tweak this later.



- 27) Click the **Save** button on the main page.
- 28) Go to the Indexers tab. This is where you set the websites that Sonarr will actually search for your torrents.

You can change the RSS Sync interval to something like 1 minute instead of 10. At the time of this tutorial I was lazy and kept it default. Depends how quick you want your shows.

I only have two Indexers added and they are both **public** trackers. And to be honest, so far they have been able to find all the shows that I watch. So start with these two sites and maybe add some more later if they aren't finding your shows. See difference between public and private trackers below.

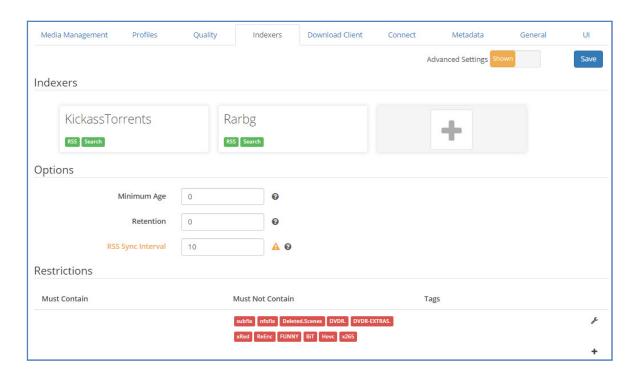
#### **Public Tracker**

- -No accounts/logs
- -No requirement for seeding, so we can stop seeding immediately after downloading the torrent to reduce the risk of getting caught by some corporation watching the downloads
- --No .rar files to figure out how to extract (at least with the two sites you will add below, Kickass Torrents and Rarbg despite the name)
- -The general public can see your IP when you download if you are not protecting yourself
- -May have slightly slower download speeds than private trackers

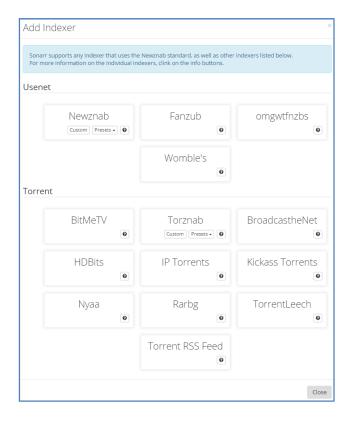
### **Private Tracker:**

- -Built around exclusive invite-only accounts
- -Privacy (invite-only accounts lowers the chance that law enforcement or copyright lawyers are watching your downloads)

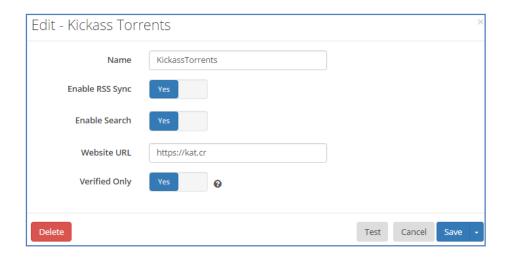
- -Most require a minimum seeding (uploading) ratio which requires you to keep torrents in your torrent application longer)
- -Frequently downloads the shows in .rar files which are a pain to extract automatically and is past the scope of this tutorial



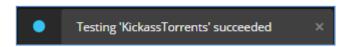
29) Click the giant + button and we will set a couple of them up.



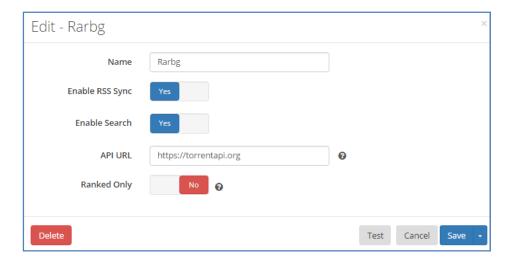
30) Click the Kickass Torrents tile.



31) Click the **Test** button. When it completes, you should see this notification on the bottom right corner of your browser:



- 32) Now don't just click Save, click the arrow on that button and select Save and Add.
- 33) Click the giant + button again.
- 34) This time, add Rarbg.

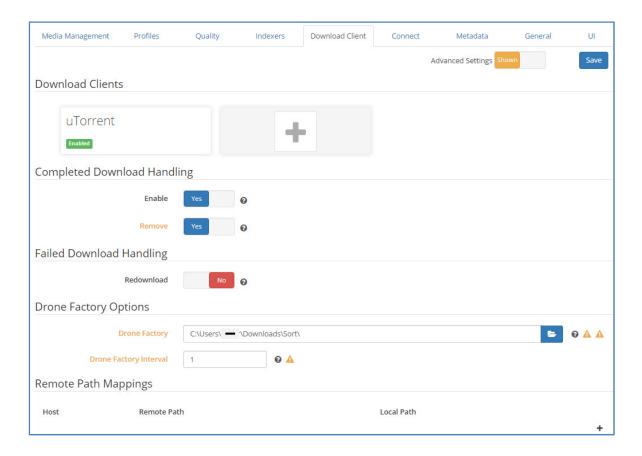


- 35) **Test** it before you click the arrow next to **Save** and select **Save and Add**.
- 36) Back under the **Indexers** tab, add the following keywords to avoid getting crappy torrents. Feel free to customize this if you've had bad experiences in the past. **Hevc** and **x265** are important because **Plex** doesn't support them anyway.

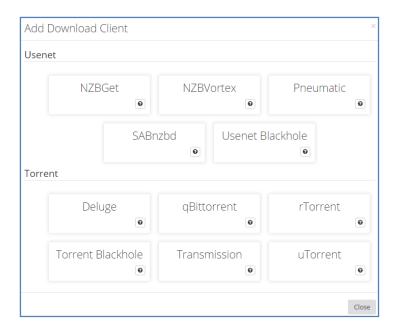


- 37) Click the **Save** button on the main page.
- 38) Go to the Download Client tab.

The **Drone Factory** setting here is the second step in the torrent process. The first was a folder you set up earlier called **Sonarr** (or whatever you called it) which is where the initial files are downloaded. Once they are finished downloading they stop by this **Sort** folder (can be named anything you want, same with that earlier **Sonarr** folder but whatever it is, make sure it is identical to the Sort folder location you created in uTorrent under the **Labels** section) where the filenames are changed to abide by the naming rules you set earlier. Make sure you create this folder before you assign its location.



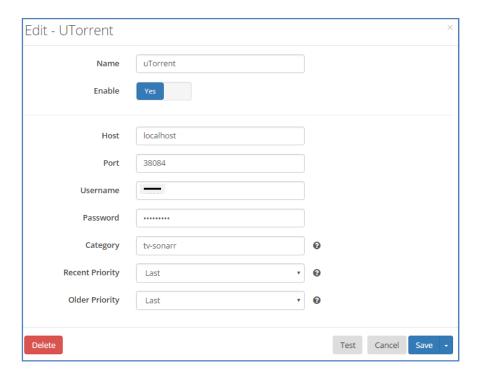
39) We are going to add uTorrent so click the giant + button.



40) Set the following settings.

Make sure the **Port** is set to the same port you set up in uTorrent earlier under the **WebUI** settings.

Make sure the **Username** and **Password** match what you set in uTorrent earlier under its Web UI settings.



- 41) Click the **Test** button, wait till you see the successful notification in the bottom-right of your browser, then click **Save**.
- 42) Click **Save** on the main page.
- 43) Go to the Connections tab.

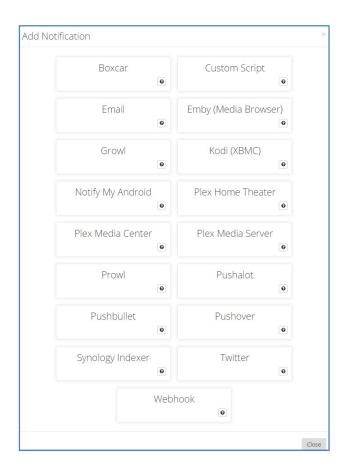
Now I don't have anything set here so feel free to skip these few steps, but this is where different stages of your

downloads will trigger a notification to a service of your choice.



44) The following are services you can set up to be notified on. I figured this might get annoying so I don't have it on, but you may find it plenty useful!

Note #1: you do **not** have to add Plex in here for Plex to update with your new downloads. That is separate.

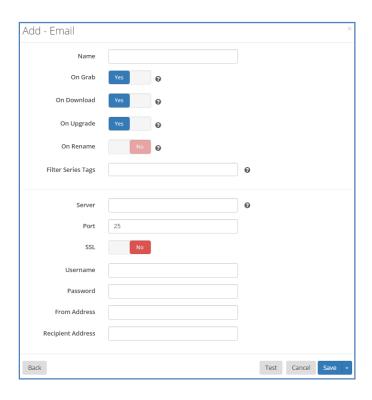


45) If you click on one of those tiles, such as **Email**, you can see the options.

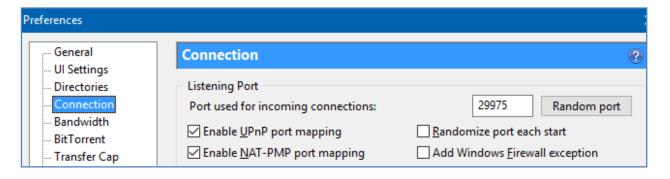
A cool use case for Email that I hadn't thought of until now is to inevitably receive a text every time a download finishes.

You can do this by sending an email to your number <u>55555555@vzwpix.com</u> or the equivalent on your cell network. You see, if you want to send a text to someone on Verizon but don't have a phone on you (???) then anyone use this method. But in this case, you could have it send a notification every time it **Downloads** a new file. Because then you know that you are only <5 minutes from it showing up on your Plex server and be ready

to watch (depending on how frequent you have Plex check for new media).

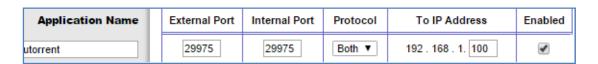


- 46) Skip the Metadata tab. This content is auto-populated from other steps you did.
- 47) Briefly check out the **UI** tab, but you probably don't need to change anything here.
- 48) Now we have to open the ports on your router so torrents will actually download. Open uTorrent again. Go to **Options -> Preferences -> Connection**. Copy that port number down.



49) Logon to your router and go to the firewall/port settings. Add an exception for your media servers internal IP for uTorrent and the port number you just copied down from uTorrent.

Note: If you want to allow remote management for uTorrent or Sonarr you can add those ports here too.



50) Go back to Sonarr and click Series.



51) IMPORTANT: If you already have shows download on your machine that you want to import into this whole process, you need to stop and set them up now before you add new shows.

All you need to do in order to prepare your current TV shows to be imported is create a nice folder schema in Windows that Plex likes, such as the following. Below is an example from mine:

C:\Users\----\Downloads\TV Shows\The Blacklist\Season 03\

And then I have all of my raw TV show files in that root directory for that season of that show.

Take your time manually putting your current media into that folder schema. You can ignore the file names, they are less important than getting stuff in their designated folders.

Don't forget to point Plex to the TV Shows folder once you this step or it will never see your shows no matter what you do.

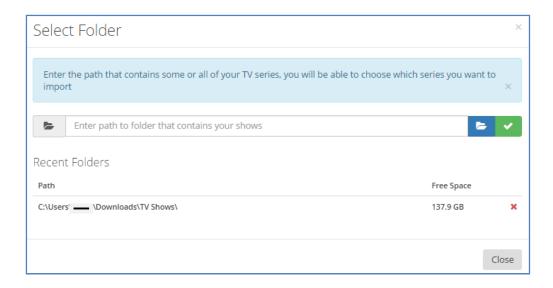
- 52) Once you have your old media in their proper Windows folders, go back to Sonarr to the Series section.
- 53) Click Add Series.



54) If you just spent time organizing your current media into folders, go ahead and click **Import Existing Series on Disk**.



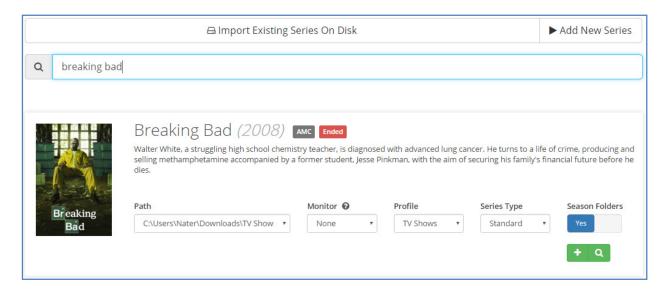
55) Select the folder you named **TV Shows** that is at the root of where all your newly organized media files are.



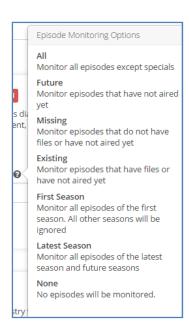
- 56) Wait for everything to import. Once imported, you can go back to the **Series** page and you *should* see your TV shows in there. This may take a few minutes and you should see sonarr working in the bottom right corner of your browser.
- 57) Now we are going to add a brand new TV series. Click **Add Series** again but this time just starting typing in the field instead of clicking **Import Existing Series on Disk**.



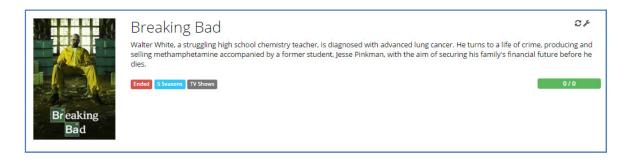
58) Type a show name in here such as Breaking Bad.



- 59) The Path should auto populate to your TV Shows folder (or whatever you named it).
- 60) The Monitor setting is pretty important. Now pay attention.



- 61) This is where you choose what episodes/seasons you want to begin searching for with the season. For example, if you're already caught up on a show then select **Future**. Don't worry though you can tweak these later and at any given time and you will likely do that when you first add shows until you get it to your liking.
- 62) The **Profile** should be set to that **Profile** you made earlier that designated the quality of downloads you wanted (720p, 1080p, etc.).
- 63) Once set correctly, click the green + button.
- 64) Go back to Series.
- 65) You should now see this show in your list of TV shows. For this tutorial I set **Monitor** to none so it wouldn't start auto-downloading any episodes. You will see the green bar that indicates how many episodes have downloaded that are available within your Monitor settings. If you had 5 episodes downloaded out of a total of 10 it would be red instead of green and show 5/10.



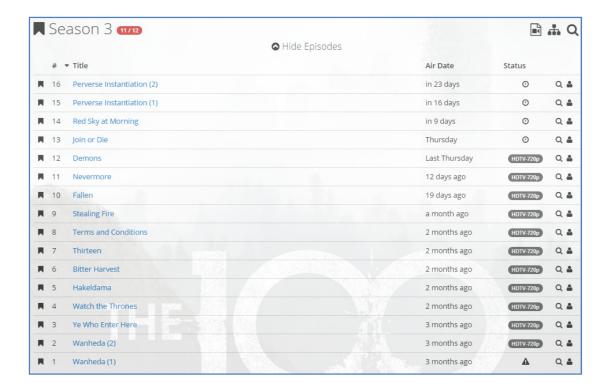
66) Click on the title of the show and it will bring you to a screen like this:



67) On one of the seasons, click **Show Episodes**. You will get a full list of episodes from that season. Breaking Bad is a bad example since it was over when I wrote this tutorial. The below screenshot is from a show called **The 100** and this is all autopopulated.

Under the Status column, the clock indicates that the episode has not aired yet.

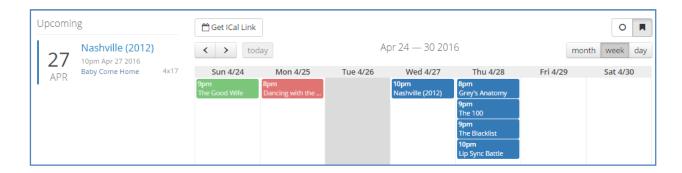
The **HDTV-720p** label indicates that it successfully downloaded that episode with that specific quality of a file. At the bottom you'll notice I don't have the first episode downloaded, indicated by the triangle icon with the exclamation symbol in it. (note – if you mouse over any of these icons it tells you what they mean). Let's say I want to download the missing file. It's as **easy as clicking the magnifying glass**. Within seconds sonarr will begin searching for the episode. Once it finds it using one of your torrent sites, the triangle icon will change into a loading bar showing the progress of the download.



68) Play around with the other buttons in Sonarr.



69) The most handy feature is the Calendar which is populated automatically.



70) Use the color key at the bottom to easily distinguish between the status of your episodes.

