

# Djinn

## Soulseek + MusicBrainz.

2023-05-29

Djinn downloads albums from Soulseek using metadata from MusicBrainz and Last.fm.

### Features

- Uses TagLib, eyeD3, and metaflac to tag MP3 and FLAC files.
- Automatically downloads cover art from MusicBrainz and Last.fm.
- Configurable directory and file names.

### Usage

```
$ djinn download --help
```

Description:

Download one or more releases

Usage:

`djinn download [options]`

Options:

<code>--release-id &lt;release-id&gt;</code>	Release ID
<code>--release-title &lt;release-title&gt;</code>	Release title
<code>--artist-id &lt;artist-id&gt;</code>	Artist ID
<code>--artist-name &lt;artist-name&gt;</code>	Artist name
<code>--replace</code>	Replace existing album(s)
<code>--file-types &lt;file-types&gt;</code>	File types to download [default: .flac .mp3]
<code>--verbose</code>	Verbose output
<code>--no-progress</code>	Disable realtime download progress
<code>--year &lt;year&gt;</code>	Release year
<code>--strip-existing-metadata</code>	Strip existing metadata from downloaded files [default: True]
<code>?, -h, --help</code>	Show help and usage information

```
$ djinn upgrade --help
```

Description:

Scan library and replace mp3 albums with flac versions

Usage:

`djinn upgrade [options]`

Options:

```
--randomize      Randomize download order
--verbose        Verbose output
-?, -h, --help   Show help and usage information
```

## Examples

Download a single release by ID:

```
$ djinn download --release-id "1b022e8e-4da6-4f9a-8f3d-3d3f2f0f3b6f"
```

Download a single release by title:

```
$ djinn download --release-title "Abyssal Hymns"
```

Please select the correct release group for Abyssal Hymns:

Hymns from the Abyss	Morgoth Vardamir, Thorgil Frostbane	2016
Abyssal Hymns	Various Artists	2012
> Abyssal Hymns	Nocturnal Serenade	1969
Abyssal Hymns Live	Astaroth Nightwhisper	2000
Beneath Abyssal Hymns	The Raven Mourners	2018
Off Abyssal Hymns	The Dark Minstrels	1989
Plays Abyssal Hymns	The Eldritch Band, Gustav Wöhler	1995

Download an artist's discography by ID:

```
$ djinn download --artist-id "1b022e8e-4da6-4f9a-8f3d-3d3f2f0f3b6f"
```

Download an artist's discography by name:

```
$ djinn download --artist-name "Kuolonkutsu"
```

Please select the correct artist for Kuolonkutsu:

> Kuolonkutsu	Finnish black metal band, "Masters of the Eternal Night"
Kuolonkutsu Ensemble	Experimental group; fusing black metal with orchestral elements.
Kuolonkutsu Ritual	Atmospheric black metal project, inspired by Nordic folklore.
Kuolonkutsu Symphony	Symphonic black metal; known for epic compositions and dark themes.
Echoes of Kuolonkutsu	Tribute band dedicated to the Finnish black metal legends Kuolonkutsu
Kuolonkutsu's Wrath	Side project of Kuolonkutsu members, focusing on more aggressive met

Download a single release, limiting downloads to .mp3 files, and replacing existing files:

```
$ djinn download --release-title "Cryptic Writings" --file-types .mp3 --replace
```

Scan your music library for albums in mp3 format and attempt to download replacements in flac format:

```
$ djinn upgrade
```

## Music Library Organization

Djinn assumes that your music library follows a simple Artist / Album / Track hierarchy.

You should set the `LibraryPath`, `ArtistFormat`, `AlbumFormat`, and `TrackFormat` strings in your configuration file to correspond with the way you organize your music.

For example, given this configuration:

```
"LibraryPath": "/home/kyle/Music",
"ArtistFormat": "%S",
"AlbumFormat": "%Y %T",
"TrackFormat": "%n %t"
```

Djinn would expect your music to be organized as e.g.:

```
/home/kyle/Music/Beatles, The/1969 Abbey Road/01 Come Together.flac
```

## Configuration

Djinn loads its configuration from DJINN\_CONFIG or, if that isn't set, from ~/.config/djinn/djinn.json.

### Configuration File Example

Here is an example of what the configuration file might look like:

```
{
  "LibraryPath": "/home/kyle/Music",

  "LastFmApiKey": "XXX",
  "LastFmApiSecret": "XXX",

  "SoulseekUsername": "XXX",
  "SoulseekPassword": "XXX",

  "ArtistFormat": "%S",
  "AlbumFormat": "%Y %T",
  "TrackFormat": "%n %t",

  "Watchdog": {
    "TimeoutMinutes": 30,
    "DelaySeconds": 10,
    "MinimumSpeedBytes": 50000,
    "QueuedRemotely": false
  }
}
```

### Format Tokens

The configuration includes format tokens that define how artist, album, and track information should be displayed. The available tokens are as follows:

#### Artist Format Tokens

Token	Description	Example
%A	Artist Name	The Beatles
%S	Artist Sort Name	Beatles, The
%%	Literal '%' character	%

#### Album Format Tokens

All artist tokens, plus:

Token	Description	Example
%T	Album Title	Yesterday
%Y	Album Year	1965

## Track Format Tokens

All artist and album tokens, plus:

Token	Description	Example
%t	Track Title	Yesterday
%n	Track Number (formatted as two digits)	01
%N	Total number of tracks in the album	14

## Watchdog

TODO

## Viewing Configuration with `djinn config`

You can view the path of the loaded config file and the parsed values by running:

```
$ djinn config

Configuration loaded from /home/kyle/.config/djinn/djinn.json
Library path:          /home/kyle/Music
Last.fm API key:       XXX
Last.fm API secret:    XXX
Soulseek username:     XXX
Soulseek password:     XXX
...
```

## Source

The source code for Djinn is available on GitHub.

## License

Djinn uses the Zero-Clause BSD license.