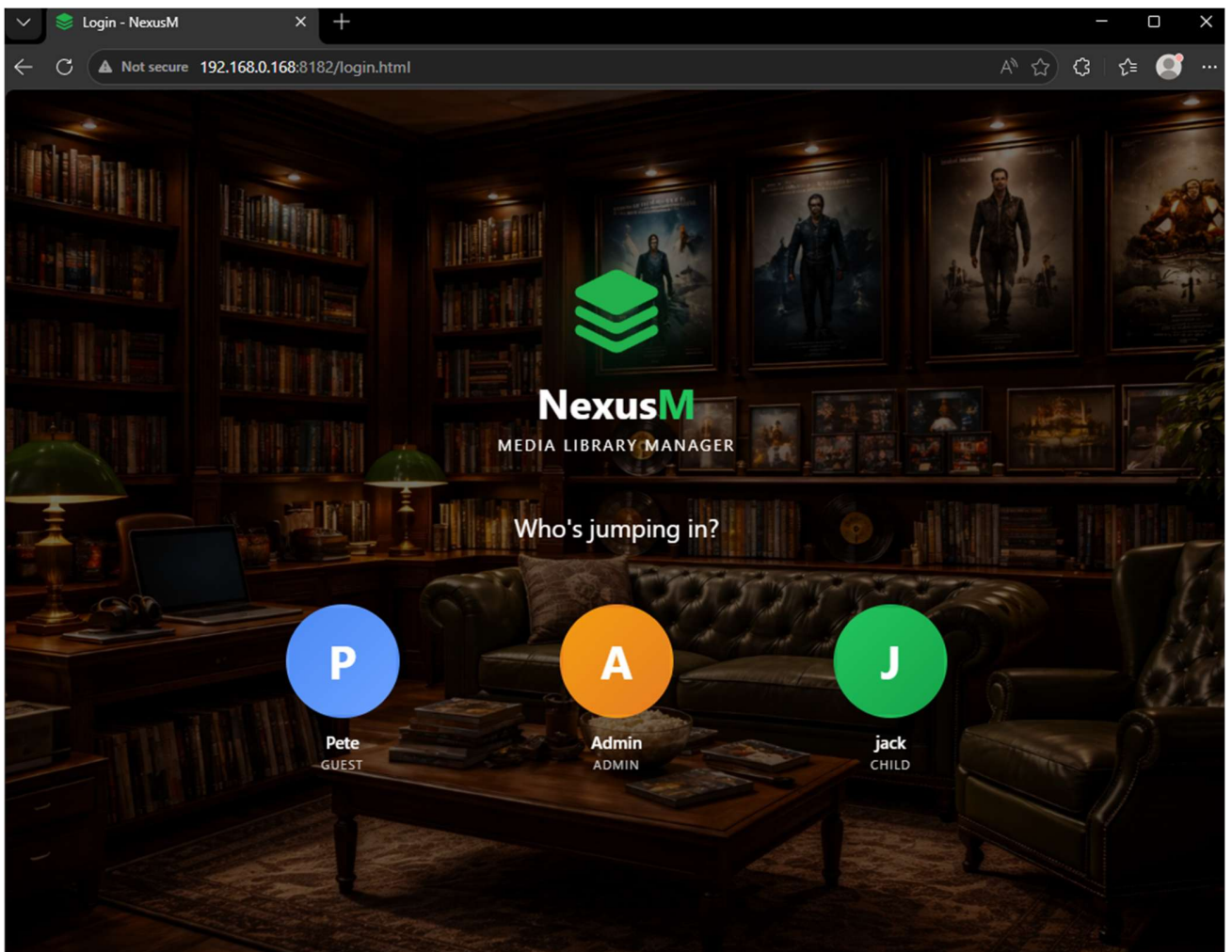


# NexusM

## User Guide

Version 2026.08 or newer



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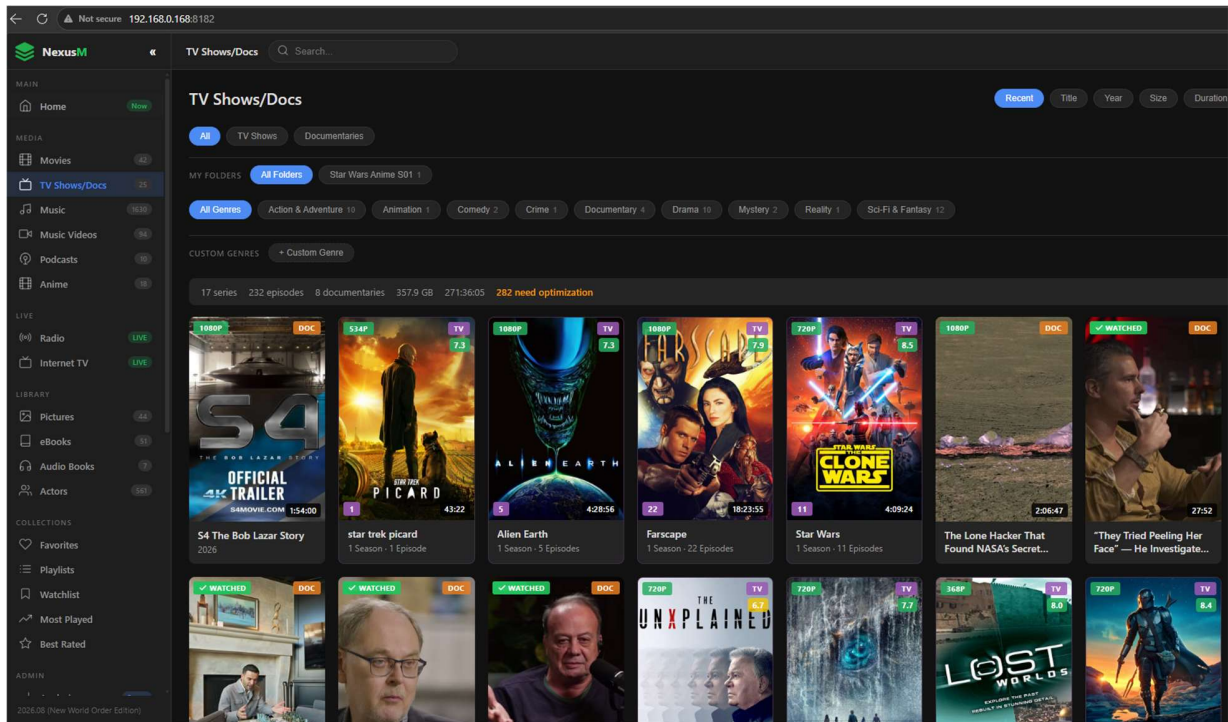
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# 1. Introduction

NexusM is a self-hosted, portable media library manager that runs as a lightweight web server on your local computer or home server. It gives you a Netflix-style experience for your own personal media collection, accessible from any browser on your network with no cloud accounts, no subscriptions, and no data leaving your home.

Key highlights of NexusM include:

- Portable single-file executable - no installation required (installer also available)
- Multi-library support: Music, Movies, TV Shows, Music Videos, Anime, Podcasts, Audiobooks, Pictures, eBooks, Radio, Internet TV
- Automatic metadata fetching from TMDB, TVMaze, and Jikan (MyAnimeList)
- Actor database with filmography, biography, and cast photos
- Built-in audio and video players with hardware-accelerated transcoding
- HDR video support with tone-mapping for SDR displays
- DLNA/UPnP media server for playback on smart TVs and media players
- Auto-Generated Playlists (decade playlists, top played, recent, favourites)
- Go Big Mode - a full-screen 10-foot TV interface with keyboard and mobile remote control
- "What's New Online?" - browse upcoming and recent movies and TV shows from TMDB
- "Where to Watch?" - streaming provider availability powered by Watchmode
- Community ratings from TMDB and Rotten Tomatoes
- Trakt integration for scrobbling and watch history synchronisation
- Subtitle download from OpenSubtitles and SubDL
- Multi-user support with PIN-based authentication
- Server Resource Monitor with real-time CPU and RAM graphs
- 19 languages supported
- 6 visual themes
- Network share support for NAS and shared drives
- Library analytics, viewing insights, and data export
- Accessible from any device on your network (PC, tablet, phone, smart TV)



## 2. System Requirements

### Recommended Requirements

- Operating System: Windows 10/11 (64-bit) with latest updates, or Linux (Debian/Ubuntu recommended).
- Memory: 8 GB RAM or more
- Browser: Any modern web browser : Chrome, Firefox, Edge (performs better), Safari.
- Google TV / Android device if you want to use the NexusM Android app.
- Disk Space: SSD recommended for database and cache. Allow several GB if using video transcoding or HLS cache.
- GPU: NVIDIA, Intel, or AMD GPU for hardware-accelerated video transcoding
- FFmpeg: Included in the portable build. Custom build with full HDR codec support is bundled.

### Optional Components

- TMDB API Key: Required for movie/TV metadata, posters, and actor photos. Free at [themoviedb.org](https://themoviedb.org).
- Watchmode API Key: Required for "Where to Watch?" streaming provider lookups. Free tier available at [api.watchmode.com](https://api.watchmode.com).
- OpenSubtitles account and API key: For subtitle downloads. Free at [opensubtitles.com](https://opensubtitles.com).
- SubDL API key: Alternative subtitle provider. Free at [subdl.com](https://subdl.com).
- Trakt account: For watch history scrobbling and cross-device tracking. Free at [trakt.tv](https://trakt.tv).

# 3. Installation

## Windows - Installer

NexusM is available as a portable package or as an Inno Setup installer. The installer creates a start menu shortcut and handles firewall prompts automatically.

Download the latest release from:

<https://nexusm.org/support.html>

Note: Windows Firewall may prompt you to allow NexusM through the firewall. Click "Allow access" to enable access from other devices on your network.

## Windows - Portable Package

1. Download the executable/binary from the support page.
2. Extract to a folder of your choice, for example C:\NexusM or D:\Apps\NexusM.
3. Run NexusM.exe. A browser window will open automatically at <http://localhost:8182>

All data files (databases, thumbnails, logs) are created in the same folder as NexusM.exe.

## Linux - Portable Package

Get the latest package from the Support page, then:

1. Create a folder:

```
mkdir /var/nexusm && cd /var/nexusm
```

2. Extract the package (replace version number as appropriate):

```
tar -xzf NexusM-Linux-2026-08.tar.gz
```

3. Run NexusM:

```
./NexusM
```

NexusM will be available on <http://YourServerIP:8182>

## Linux - GPU Transcoding (Intel VA-API)

NexusM supports hardware video transcoding on Linux via VA-API (Intel GPUs). Tested on Intel N95, N150, and Intel Arc A380.

Install the Intel media driver:

```
apt install intel-media-va-driver i965-va-driver vainfo libva-drm2
```

Add your user to the required groups (*Also apply to NVIDIA GPU or others*)

```
usermod -aG video root  
usermod -aG render root
```

Verify the GPU device is visible:

```
ls -l /dev/dri
```

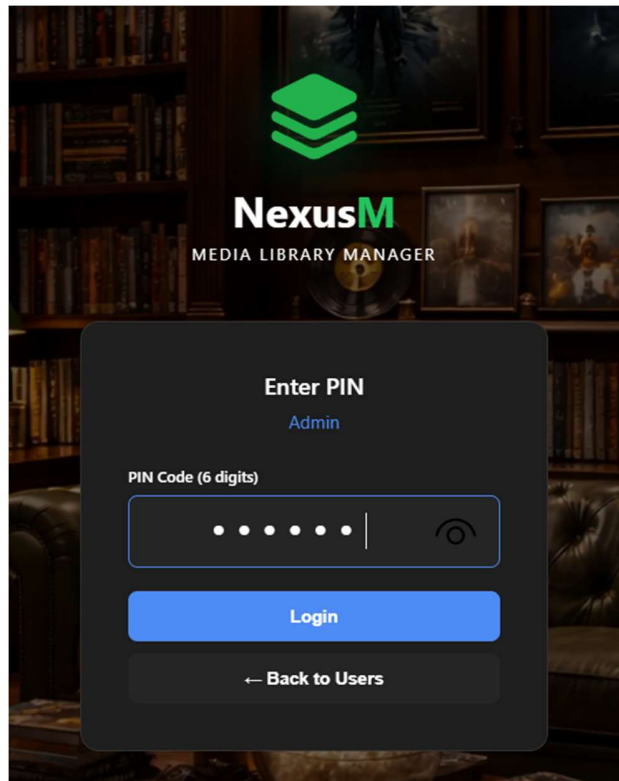
You should see output similar to:

```
crw-rw---- 1 root video 226, 0 card0  
crw-rw---- 1 root render 226, 128 renderD128
```

## First Login

When you first open NexusM in the browser, you will see the login screen.

- Default username: admin
- Default PIN: 000000
- Change your PIN immediately from Settings after first login.



## Directory Structure

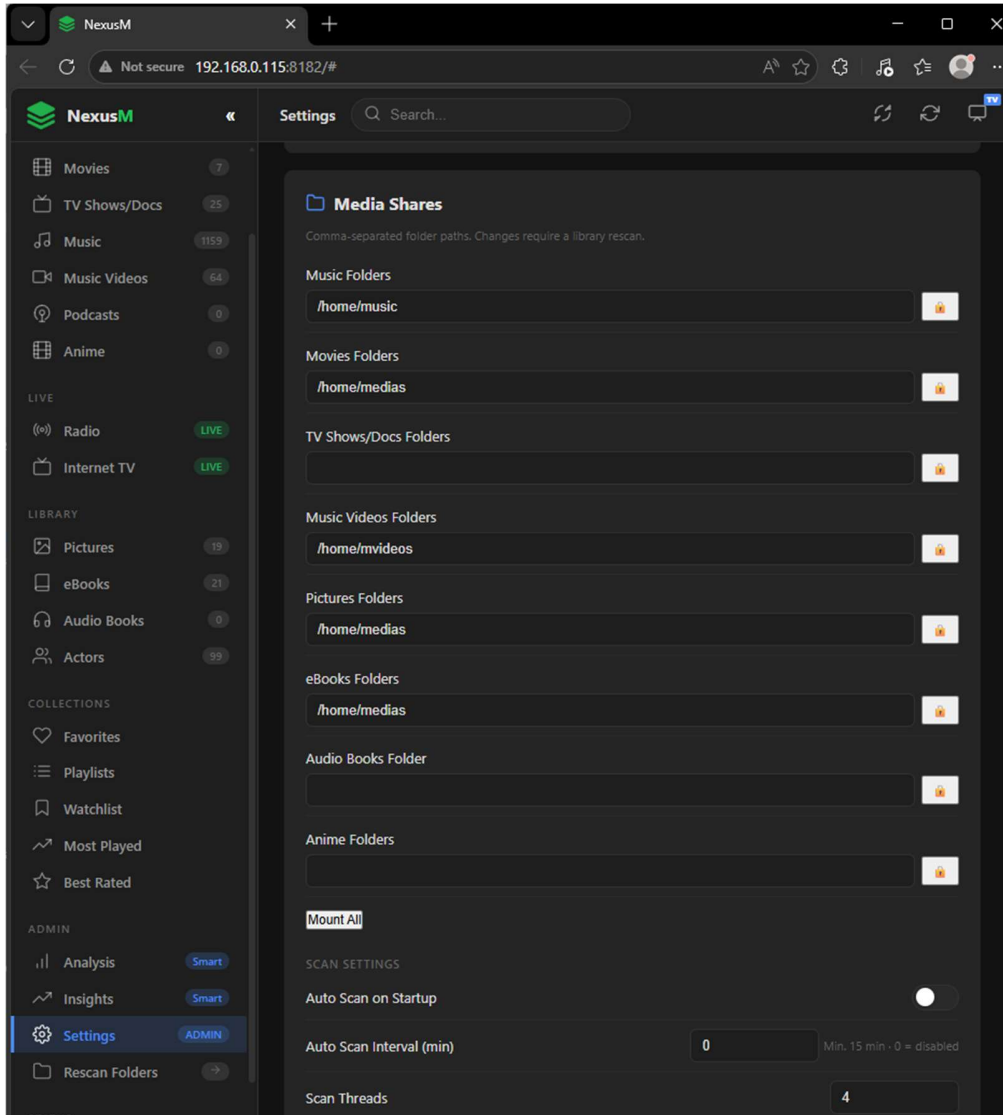
After first run, the following directories are created automatically:

- assets/videothumbs/ - Video thumbnail images
- assets/animemeta/ - Anime series artwork cache
- assets/metrics/ - Server resource metrics data
- data/ - SQLite databases (music, videos, actors, users)
- hls\_temp/ - HLS transcoding segments (temporary)
- logs/ - Application log files
- users/ - Per-user profile databases
- cache/ - Metadata and image cache

# 4. Getting Started

## Configuring Your Media Libraries

After logging in, navigate to Settings to configure the folders where your media files are stored. Each library type accepts a single folder path. NexusM will scan that folder and all its subdirectories automatically.



- Music Folder - Where your audio files (MP3, FLAC, WAV, etc.) are stored
- Movies Folder - Where your movie files are stored
- TV Shows/Docs Folder - Where your TV show and documentary files are stored
- Music Videos Folder - Where your music video files are stored
- Pictures Folder - Where your photo collections are stored
- eBooks Folder - Where your PDF and EPUB files are stored
- Audio Books Folder - Where your audiobook files are stored
- Anime Folder - Where your anime video files are stored

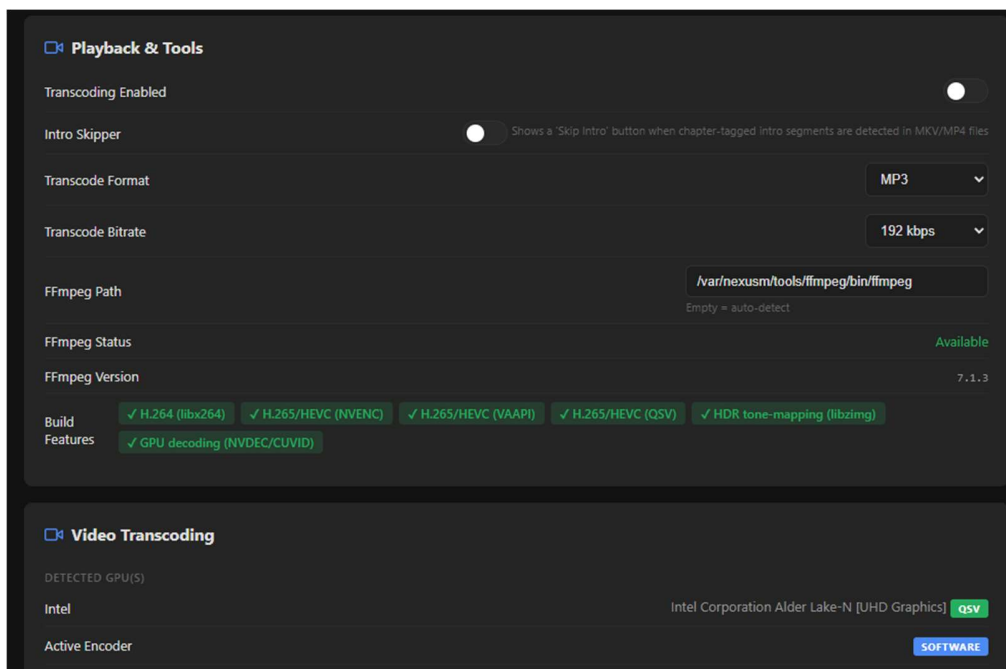
Note: Each field accepts one folder path only. NexusM scans all subfolders recursively. Use a top-level folder that contains all your media for that type. UNC network paths are supported (for example: \\NAS\Media\Movies).

Note: After changing folder paths, click Save Settings and then use "Rescan Folders" to index the new content.

## FFmpeg for Video Previews and Transcoding

FFmpeg is required for generating video thumbnails, intro detection, and video transcoding. A custom build with full HDR, H.264, H.265, AV1, and hardware encoder support is bundled with the NexusM portable package.

Go to Settings > Playback and Tools > FFmpeg Status to confirm FFmpeg is detected. The status page also shows which hardware encoders are available on your system.

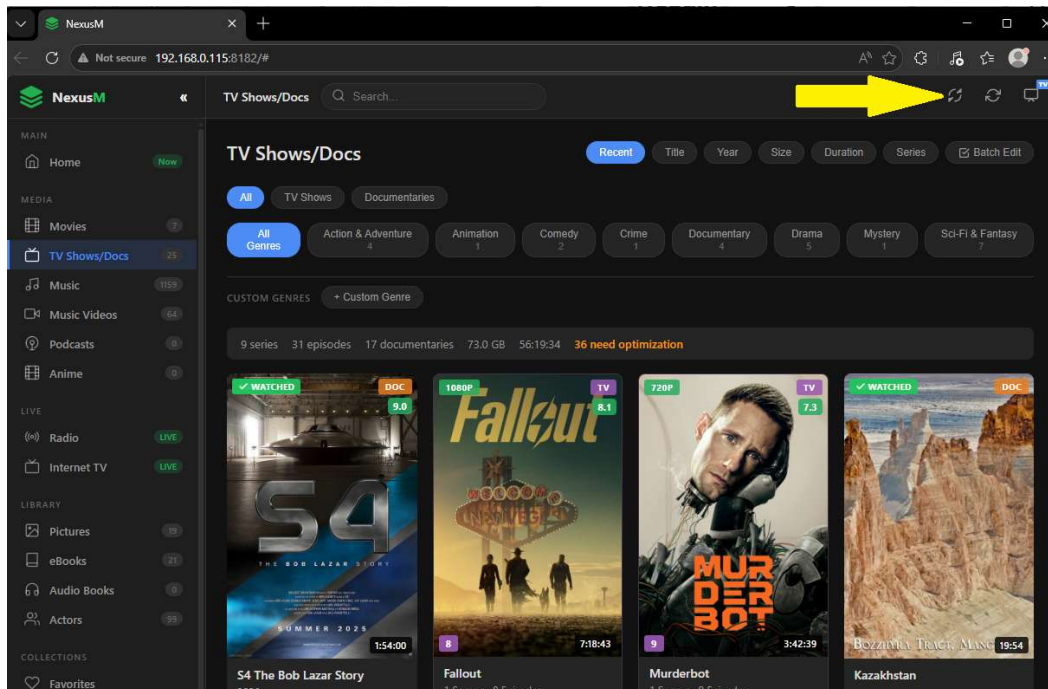


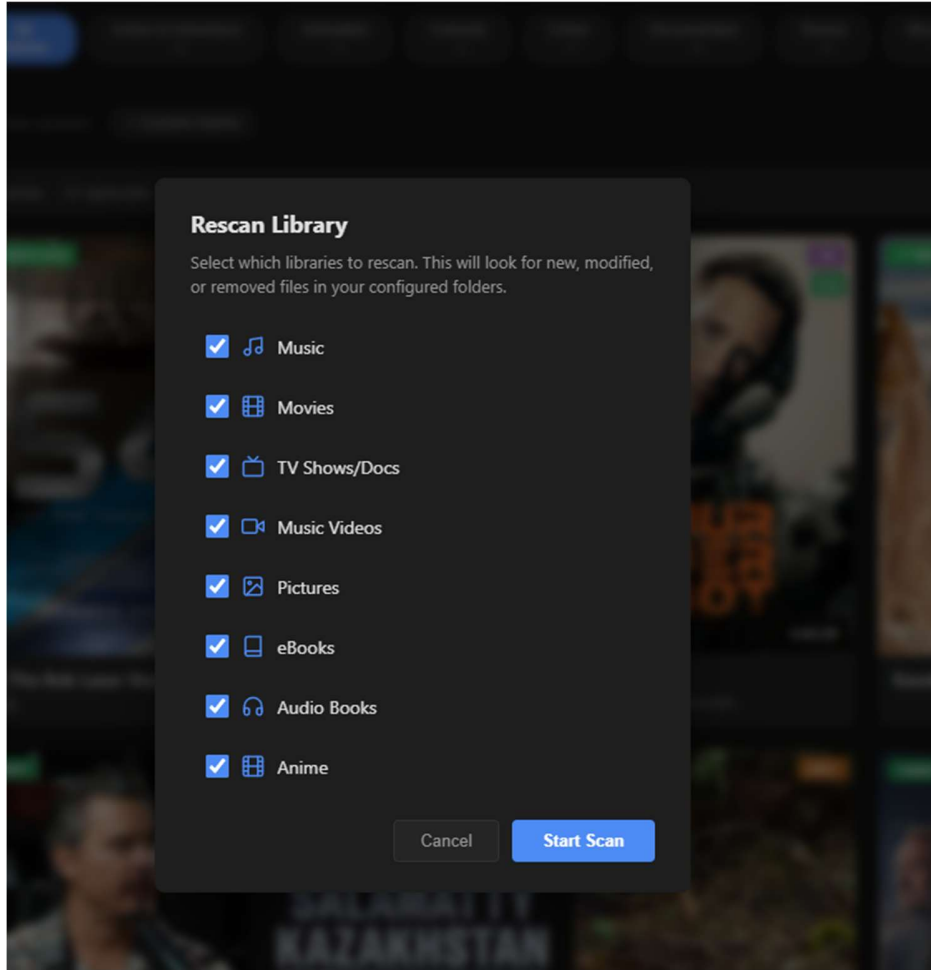
## Scanning Your Library

Once your media folders are configured, click "Rescan Folders" from the top navigation bar or from the Settings page. Scanning runs in the background and will:

- Discover all supported media files in the configured folders
- Extract metadata from audio file tags (ID3, Vorbis, etc.)
- Extract video information (resolution, codec, duration, HDR format)
- Generate thumbnail images for videos and pictures
- Fetch online metadata from TMDb, TVMaze, or Jikan (if configured)
- Download cast photos and movie/show posters

A progress indicator shows the scan status. Large libraries may take a few minutes on first scan.





## Setting Up TMDb (Recommended)

For the best experience with movies and TV shows, configure a TMDb API key. This enables automatic fetching of:

- Movie and TV show posters, backdrops, and descriptions
- Cast and crew information with photos
- Genre, rating, and year information
- Actor filmography and biography
- Streaming provider availability ("Where to Watch?")
- "What's New Online?" browse page for upcoming and recent releases

To get a free TMDb API key:

4. Visit <https://www.themoviedb.org/signup> and create a free account.
5. Go to your account Settings and request an API key (v3 auth).
6. Copy the API key and paste it in NexusM Settings under "TMDb API Key".
7. Set the Metadata Provider to "TMDb" in Settings.

## Library Scheduler

NexusM can automatically rescan your libraries on a schedule, so newly added files are picked up without manual intervention.

- Go to Settings > Library > Auto Scan Interval
- Set the interval in minutes (0 = disabled, e.g. 60 for hourly)
- Enable "Auto Scan on Startup" to trigger a scan every time NexusM starts

The scheduler runs in the background and will not interrupt active playback. You can also use "Rescan Folders" at any time to trigger an immediate scan.

# 5. Dashboard and Navigation

## Home Dashboard

The home page provides a quick overview of your entire media collection and fast access to all sections. It features:

- Recently Added rows for each media type (Movies, TV, Music, Anime, Music Videos, Audiobooks)
- New Releases row showing what is new or upcoming online (requires TMDB key)
- Smart Insights button for viewing/listening analytics
- "What's New Online?" button to browse upcoming movies and series
- Global search bar covering all media types
- Storage usage indicator in the sidebar

## Top Navigation Bar

The top navigation bar contains links to all media sections:

- Home - Dashboard
- Movies - Movie collection
- TV Shows/Docs - TV series and documentaries
- Music - Music library
- Music Videos - Music video clips
- Anime - Anime library
- Podcasts - Podcast subscriptions
- Radio - Internet radio stations
- Internet TV - IPTV channels
- Pictures - Photo collection
- eBooks - Digital books

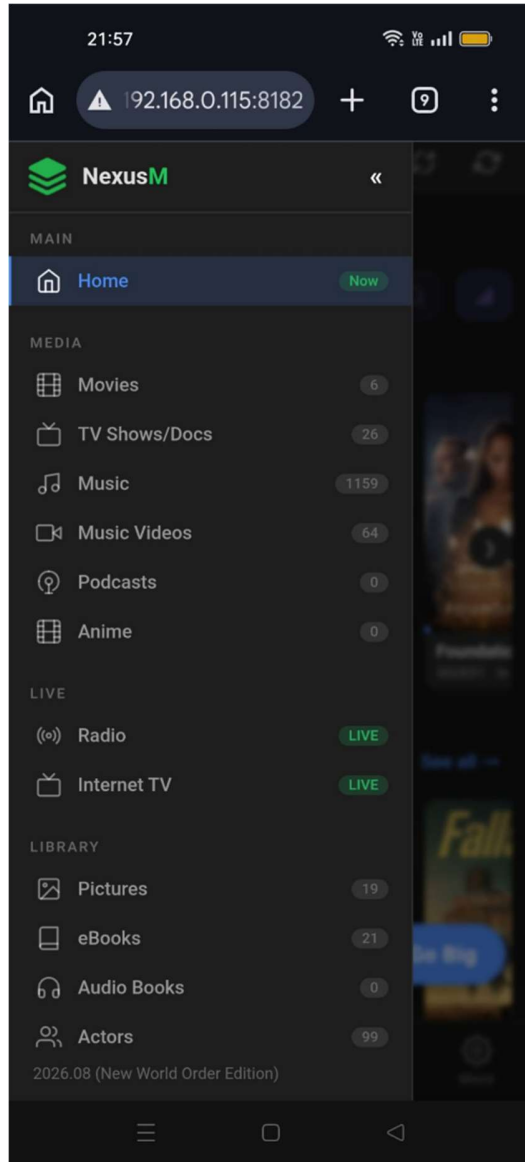
## Sub-Navigation Bar

Below the top bar, a secondary bar provides quick access to:

- Favourites - Items you have starred across all media types
- Playlists - Auto-Generated and custom music playlists
- Watchlist - Movies and TV shows you want to watch
- Most Played - Top tracks and most-watched videos
- Best Rated - Highest-rated content in your library
- Analysis - Library statistics and format charts
- Insights - Viewing and listening habits
- Settings - Application configuration
- Rescan Folders - Trigger a library rescan

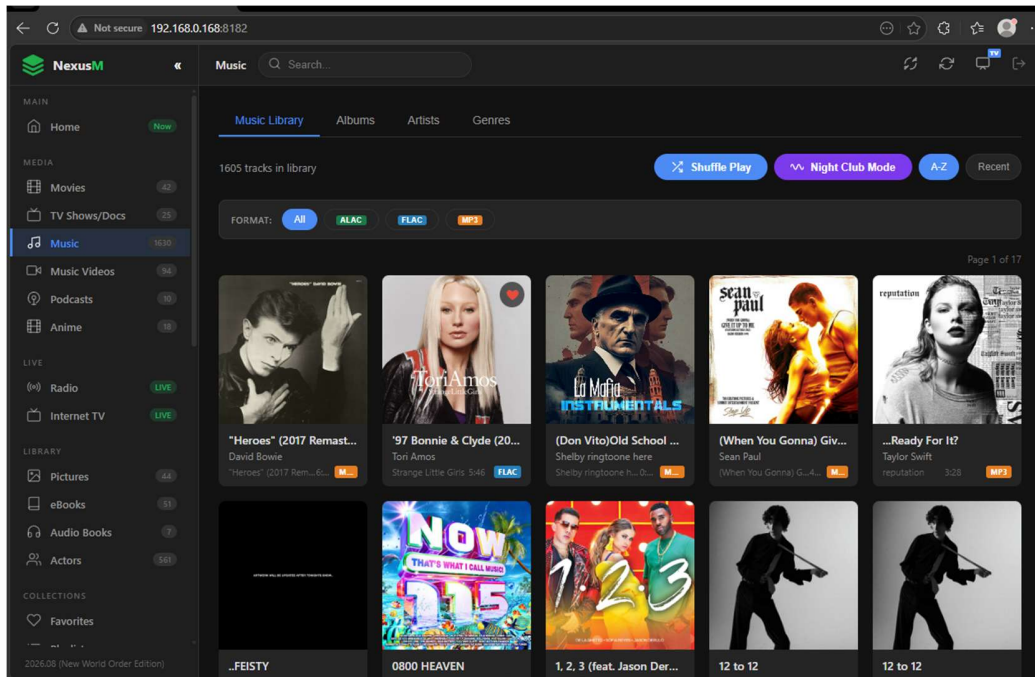
## Mobile Navigation

On mobile devices, when using a web browser, NexusM shows a compact top navigation. All sections remain accessible. The player bar adapts to a mobile-friendly layout with touch controls.



## 6. Music Library

The Music section lets you browse and play your entire music collection. NexusM reads metadata from audio file tags (ID3, Vorbis Comments, etc.) and organises your music by album, artist, genre, and decade.



### Browsing Music

The music library offers multiple views:

- All Tracks - A complete list of all tracks with sorting options
- Albums - Browse by album with cover art
- Artists - Browse by artist
- Genres - Filter by musical genre

### Supported Audio Formats

- MP3, FLAC, WAV, M4A, AAC, OGG, WMA, Opus, APE, ALAC, AIFF, DSF, DFF

## Music Features

- Sort tracks by title, artist, album, recently added, most played, or best rated
- View album artwork extracted from audio file tags
- Mark tracks as favourites
- Add tracks to custom or auto-generated playlists
- View play counts for most-played tracks
- Lyrics display with synced (time-stamped) lyrics via LRCLIB
- Built-in equaliser accessible from the player bar
- Waveform-style progress bar

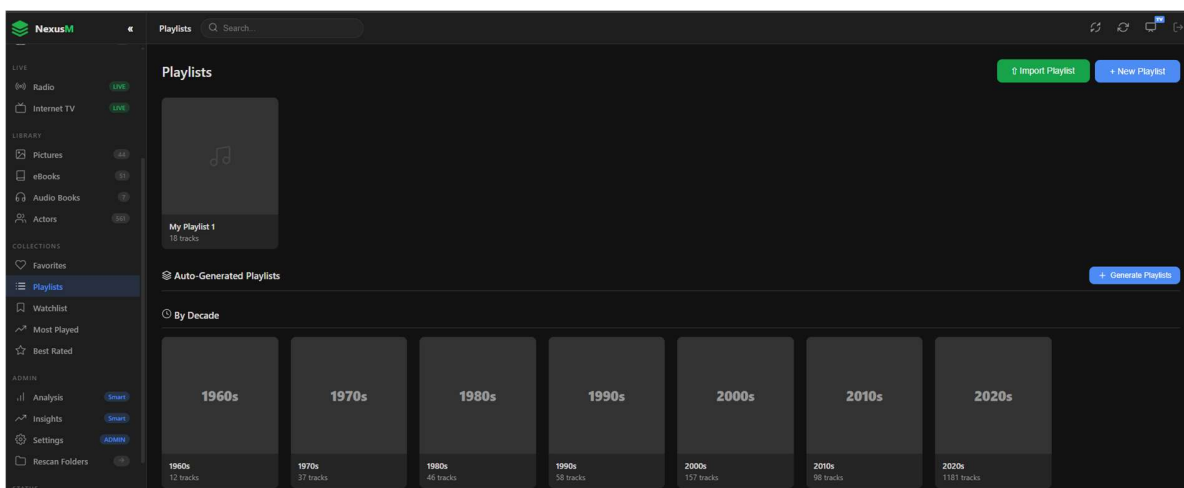
## Playlists and Auto-Generated Playlists

NexusM includes an Auto-Generated Playlist (AGP) system that automatically creates playlists from your music library. There are four types:

- Decade Playlists - One playlist per decade in your library (e.g. 1980s, 1990s, 2000s)
- Top 100 Most Played - Your 100 most-listened-to tracks
- Recently Added (100) - The 100 most recently added tracks
- Favourites - All tracks you have marked as favourites

To configure Auto-Generated Playlists, go to the Playlists page and click "Generate Playlists". You can enable or disable each type, and exclude specific decades from the decade playlists. The configuration is saved on the server so it is consistent across all your devices.

You can also create manual playlists by adding tracks from any music view using the "Add to Playlist" option on each track.



## 7. Movies and TV Shows

The Movies and TV Shows section displays your video library with rich metadata including posters, descriptions, cast information, ratings, and HDR info. Movies and TV shows are automatically identified and separated by the scanner based on filename patterns (SxxExx for TV episodes).

### Browsing

- View all movies and TV shows in a poster grid
- Filter by type: All, Movies, or TV Shows/Docs
- Sort by title, recently added, year, or rating
- Search within your collection
- Filter by genre

### Movie and Show Detail Page

Clicking on a title opens a detailed view showing:

- High-resolution poster and backdrop image
- Title, year, genre, runtime, and description
- Video file information (resolution, codec, format, HDR format, file size)
- Cast section with actor photos (click any actor to view their filmography)
- Community ratings from TMDb and Rotten Tomatoes
- "Where to Watch?" - streaming provider availability for your region
- Play button to start watching
- Add to Watchlist and Favourites
- Watched status tracking

### Community Ratings

With a TMDb API key configured, NexusM displays community ratings alongside each title. Ratings are shown as a score out of 10 for TMDb. Rotten Tomatoes scores are also shown where available. Ratings are fetched automatically during metadata enrichment.

### "Where to Watch?" - Streaming Providers

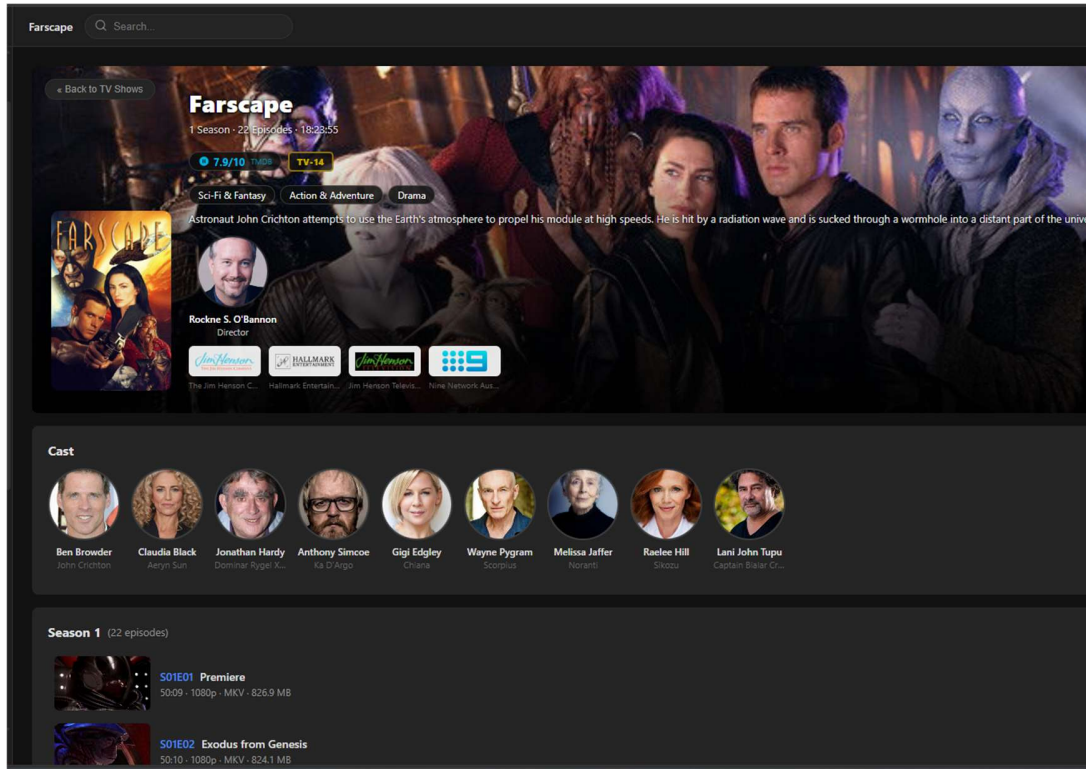
NexusM can show you which streaming services carry a movie or TV show in your region. This requires both a TMDb API key and a Watchmode API key.

- Go to Settings > Metadata > Watchmode API Key and enter your key.
- Set your country in Settings > Metadata > Country for localised results.
- On any movie or TV show detail page, a "Where to Watch?" section will appear showing available streaming services with their logos and subscription type.

Note: Watchmode offers 1,000 free API requests per month. Results are cached to minimise usage.

## TV Series View

TV shows are grouped by series. Clicking on a TV show opens the series view where you can browse all seasons and episodes, track which episodes you have watched, and resume from where you left off.



## Supported Video Formats

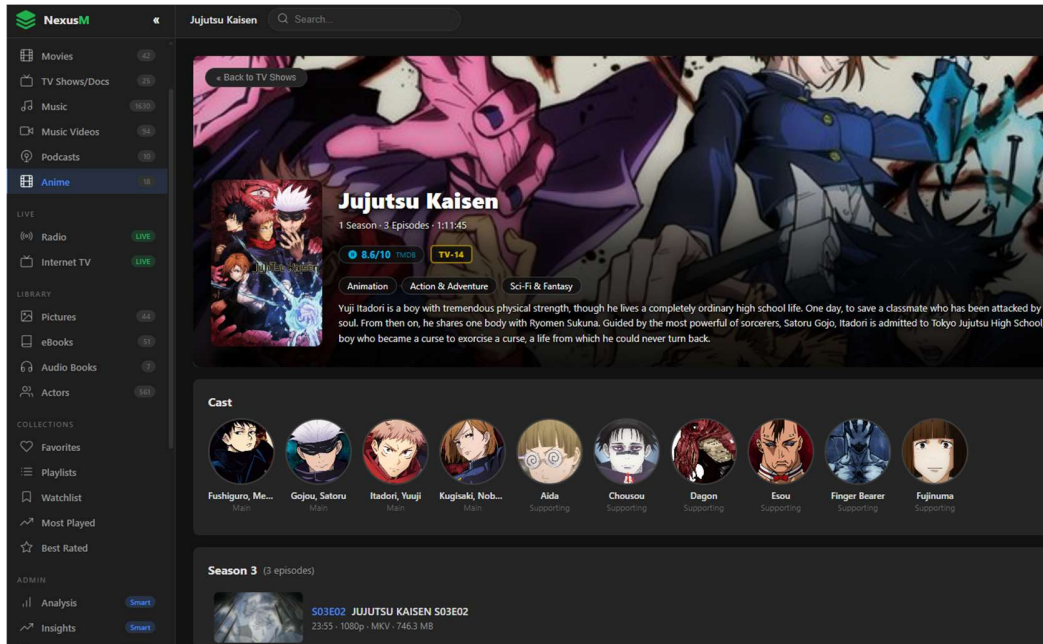
- MP4, MKV, AVI, MOV, FLV, WebM, M4V, WMV, TS

## Metadata

With a TMDb API key configured, NexusM automatically fetches rich metadata. You can also manually trigger metadata fetching for individual titles from their detail page, or for the entire library from Settings > Metadata > Fetch Missing / Re-fetch All.

## 8. Anime

The Anime section provides a dedicated library for your anime video collection, with metadata sourced from MyAnimeList via the Jikan API (free, no key required). Anime files are scanned and stored separately from regular movies and TV shows.



### Setting Up Anime

8. Configure your Anime Folder in Settings > Media Shares > Anime Folder.
9. Click "Rescan Folders" and select "Anime Scan".
10. NexusM will parse filenames, match series to MyAnimeList, and download artwork.

### Filename Formats Supported

The scanner recognises the following anime filename patterns:

- [Group] Series Name - 01 [720p].mkv
- Series Name S01E01.mkv
- Series Name EP01.mkv
- Series Name - Episode 01.mkv

If the filename cannot be parsed, the scanner falls back to the parent folder name as the series name.

## **Metadata and Artwork**

- Series title, synopsis, genre, and episode count from MyAnimeList
- Cover artwork for each series (up to 10 character images cached per series)
- Episode titles and air dates where available
- Series MAL rating displayed on detail pages

## **Browsing and Playback**

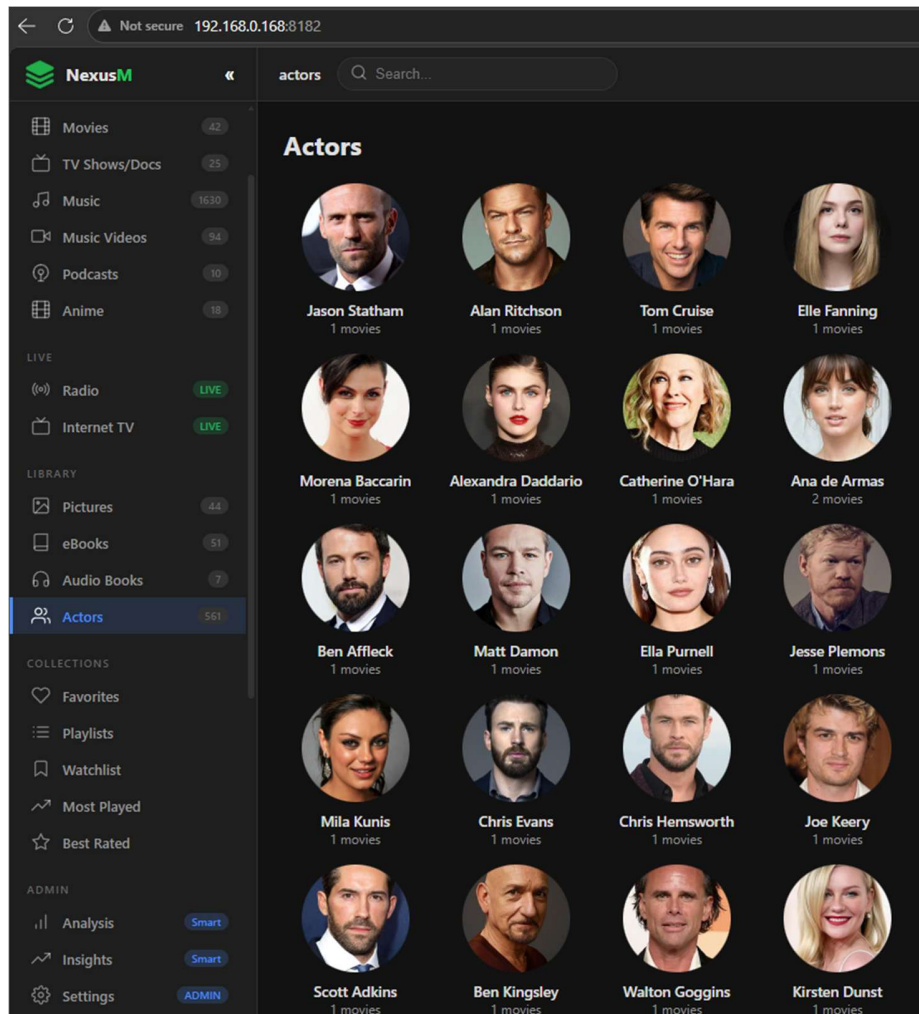
- Grid view with series artwork
- Series detail page with episode list and synopsis
- Full video transcoding and HLS playback support (same as Movies/TV)
- Favourites and watched tracking per episode
- Anime titles appear in Go Big Mode under the Anime tab

## **Anime in Go Big Mode**

Anime is available as its own tab in Go Big Mode, making it easy to browse and play anime from your sofa using a TV remote or keyboard.

## 9. Actors

The Actors section lets you browse all cast members found in your movie and TV show library. Actor data is automatically captured during metadata fetching with TMDB.



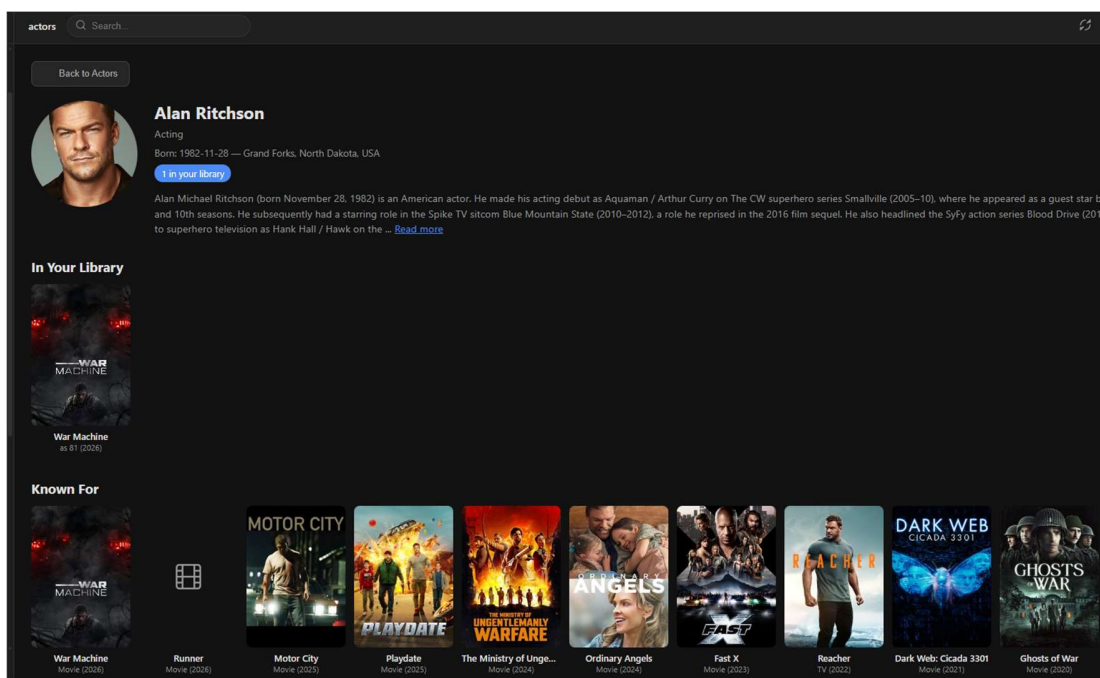
### Actors Grid

The main Actors page displays a grid of all actors with their photos and the number of titles from your library they appear in. Search for actors by name using the search bar.

## Actor Detail Page

Clicking on an actor opens their detail page showing:

- Actor photo and name
- Department (e.g. Acting, Directing)
- Birth and death dates (if available)
- Biography (fetched from TMDB on first view)
- "In Your Library" - movies and TV shows from your local collection featuring this actor
- "Known For" - the actor's most notable credits from TMDB (not limited to your library)



## Populating the Actors Database

The actors database is populated automatically when you scan your library with TMDB metadata enabled. If you had existing metadata already fetched, click "Populate Actors Database" on the Actors page to backfill from existing data.

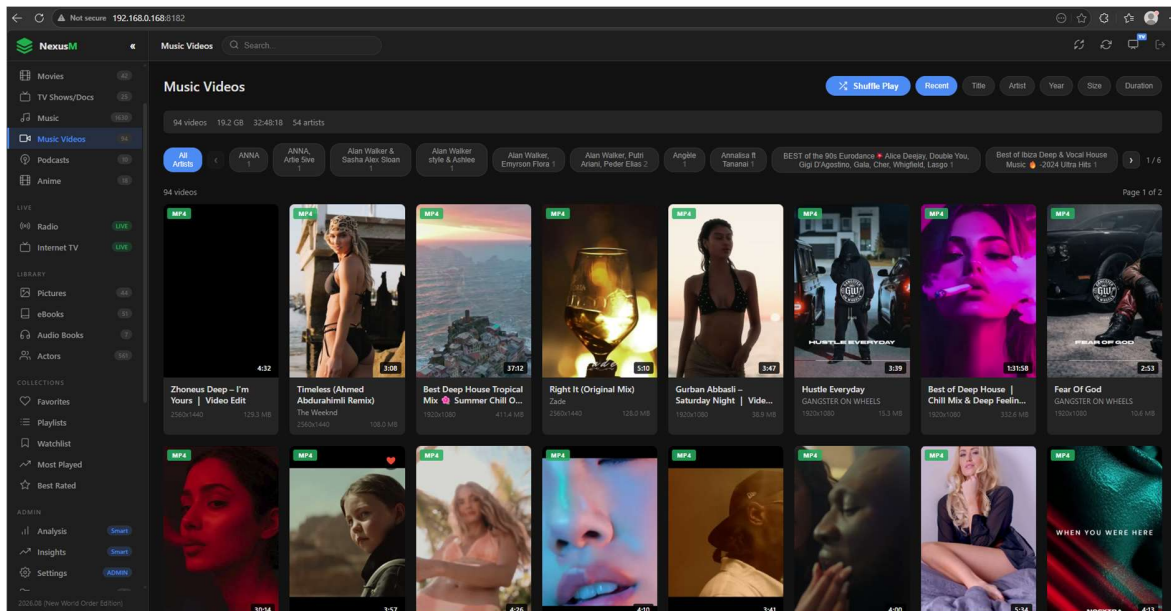
# 10. Music Videos

The Music Videos section lets you browse and play your music video collection. Videos are organised by artist with auto-generated thumbnails.

- Browse all music videos in a grid with thumbnails
- Filter by artist
- Sort by title, artist, or recently added
- Mark music videos as favourites
- Track play counts

## Supported Formats

- MP4, MKV, AVI, MOV, FLV, WebM, M4V



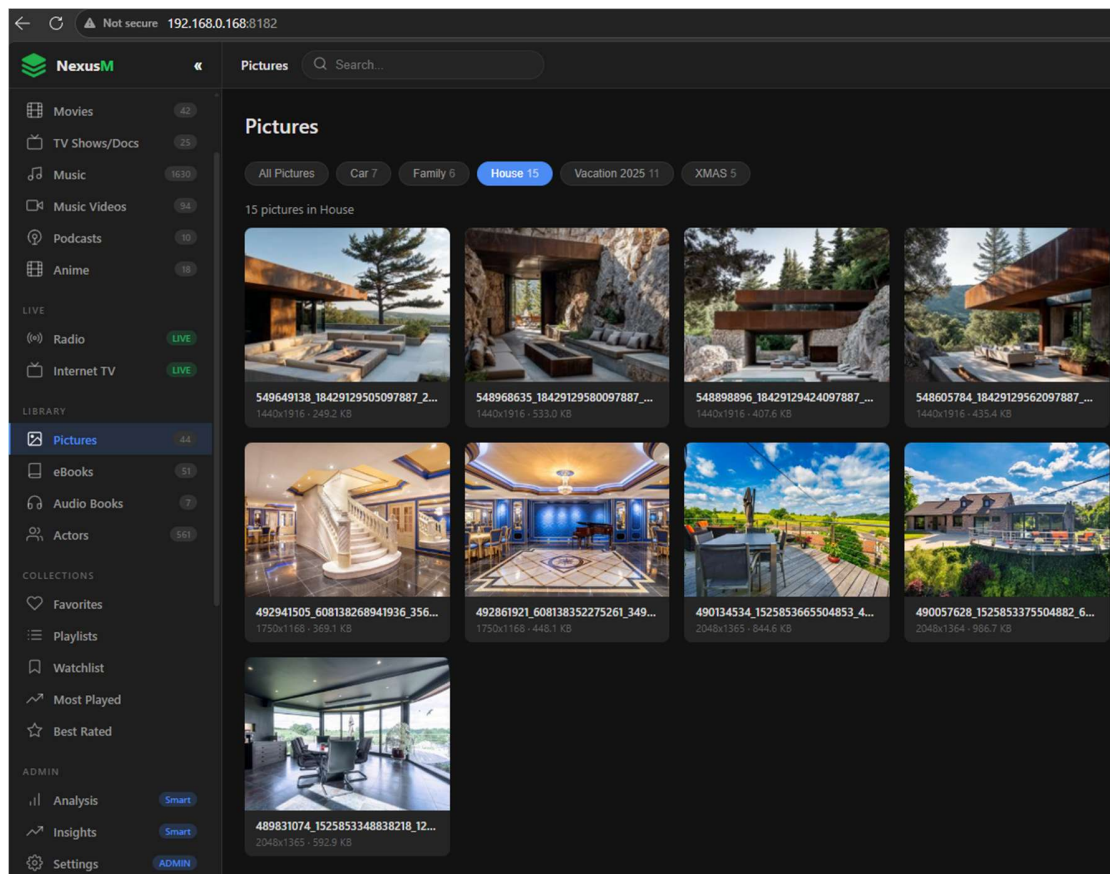
# 11. Pictures

The Pictures section lets you browse your photo collection with auto-generated thumbnails. Photos are organised by category (based on subfolder names).

- Grid view with thumbnails
- Filter by category (subfolder)
- Sort by name or recently added
- Full-size photo viewer with navigation
- EXIF metadata reading (date, camera, GPS if available)

## Supported Image Formats

- JPG, JPEG, PNG, GIF, BMP, WebP, TIFF



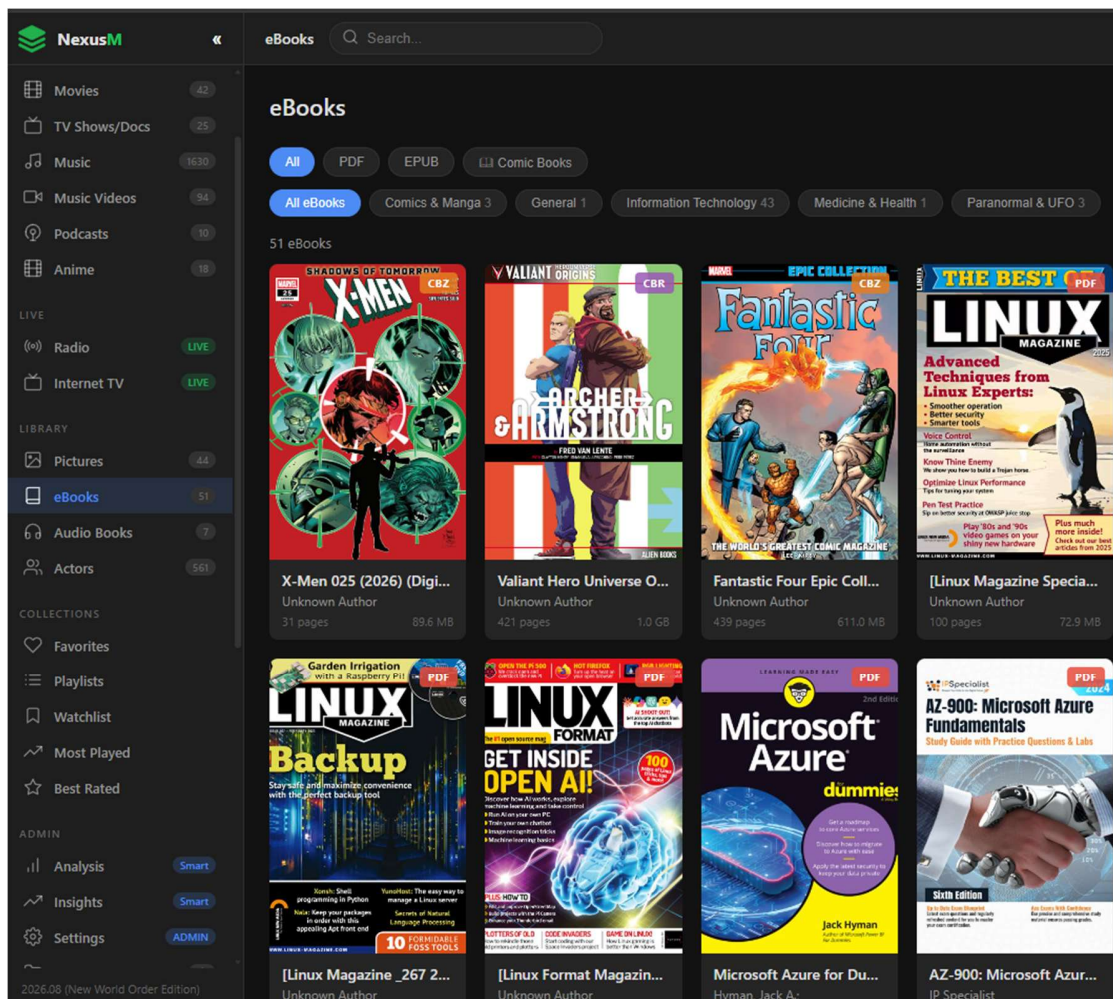
# 12. eBooks

The eBooks section lets you browse and read your digital book collection directly in the browser. NexusM automatically extracts cover images, author, and title metadata from files.

- Browse eBooks by title, author, or category
- Cover image extraction and display
- In-browser PDF reader
- EPUB and Comic Book (CBZ/CBR) viewer
- Sort by title, author, category, or recently added

## Supported Formats

- PDF, EPUB, CBZ, CBR



## 13. Radio

The Radio section provides access to internet radio stations powered by the RadioBrowser community database. You can browse by country and genre, search for stations, and mark favourites.

- Browse radio stations with logos
- Filter by country and genre
- Search stations by name
- Mark favourite stations
- Automatic logo fetching
- Play count tracking
- Live streaming playback in the browser

### Live Stream Metadata (ICY/Icecast)

When playing a radio stream that supports ICY metadata (Icecast/Shoutcast), NexusM automatically fetches and displays the currently playing track title and artist in the player bar. The metadata updates every 15 seconds while the stream is playing.

- Station name, genre, and bitrate are shown from the stream headers
- Currently playing track title scrolls in the player bar
- Falls back to the station name if no track metadata is available

## 14. Internet TV

The Internet TV section lets you watch IPTV channels by importing M3U or M3U8 playlists. You can import playlists from a URL or upload a file.

- M3U/M3U8 playlist import via URL or file upload
- Channel management with logos
- Automatic logo fetching
- Favourite channels
- Live TV streaming in the browser

### Adding Channels

To add Internet TV channels, click the import button on the Internet TV page and provide the URL of an M3U playlist or upload an M3U file from your computer. Channels are grouped by category if the playlist includes group-title tags.

# 15. Podcasts

NexusM includes a full Podcasts manager supporting both audio and video podcast feeds from any RSS source.

## Subscribing to Podcasts

- Add by RSS URL - paste any RSS or Atom podcast feed URL directly
- Import OPML - import your existing subscriptions from any podcast app by uploading an .opml or .xml file

## Feed Support

- Standard RSS podcast feeds (audio and video episodes)
- Atom feeds including YouTube channel feeds (episodes play as embedded video)
- Artwork for each podcast is downloaded and cached locally
- Episodes are deduplicated by GUID so refreshing never creates duplicates

## Discover Panel

The Podcasts page includes a built-in Discover section with curated recommendations split into two categories:

- Audio Podcasts - a selection of popular audio shows
- Video Podcasts and YouTube Channels - a selection of video feeds

Click any Discover card to preview the feed and its latest episodes, then subscribe with one click.

## Managing Subscriptions

- Your subscribed podcasts appear as a card grid with artwork, episode count, and unplayed badge
- Search and filter your subscriptions by title, author, or category
- Manually refresh all feeds with the Refresh button
- All feeds are also automatically refreshed when NexusM starts
- Mark podcasts as Favourites
- Unsubscribe from a podcast from its card menu

## Playback

- Audio episodes play directly in the NexusM player bar
- Video episodes (including YouTube) open in the built-in video player

# 16. Audiobooks

NexusM includes a dedicated Audiobooks library that scans and indexes your audiobook collection for in-app playback.

## Supported Formats

- MP3 and M4B files

## Library Scanning

- Configure your Audio Books Folder in Settings > Media Shares
- Scanning is launched from "Rescan Folders" > Audio Books Scan
- The scanner runs in the background with multi-threaded processing and real-time progress
- Removed or missing files are detected on rescan

## Metadata

The scanner reads embedded tags automatically:

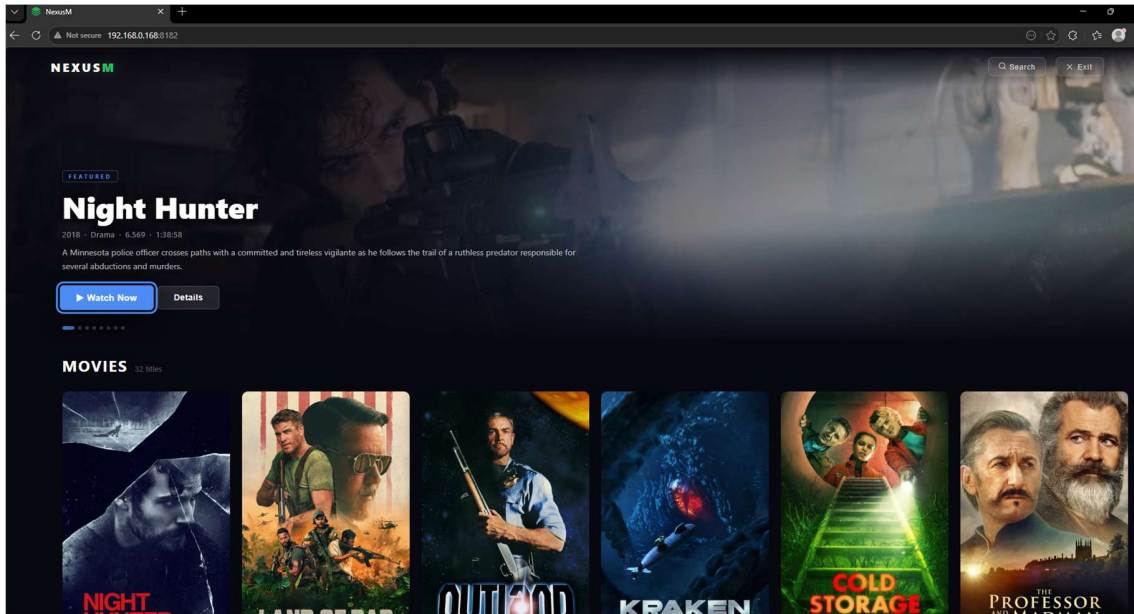
- Title - from the Title tag, falls back to filename
- Author - from the AlbumArtist tag
- Narrator - from the Artist/Performer tag
- Series - from the Album tag
- Description - from the Comment tag
- Year, Publisher, Language - from their respective tags
- Cover Art - extracted from embedded artwork and saved as a local thumbnail

## Browsing and Playback

- Card grid view with cover art
- Filter by Category (derived from the first subfolder under your configured root)
- Sort by Recently Added, Title, or Author
- Click a card to open the detail view, then press Play to start playback in the NexusM player bar
- Audiobooks can be added to Favourites
- Recent audiobooks appear on the Home page

# 17. Go Big Mode (TV Interface)

Go Big Mode is a full-screen, 10-foot TV interface designed for playback on a large television. It provides a clean, distraction-free browsing experience navigable entirely by keyboard, TV remote, or a secondary device acting as a mobile remote.



## Activating Go Big Mode

- Click the "Go Big" button on the Home page, or press the Go Big shortcut in the navigation bar.
- To enter Go Big Mode automatically on startup, enable "Go Big on Start" in Settings > UI Preferences.

## Keyboard Navigation

All navigation in Go Big Mode is keyboard-driven:

- Arrow keys - Move between rows (up/down) and cards (left/right)
- Enter - Select the focused item or play a video
- Backspace / Escape - Go back or close a panel
- F - Toggle fullscreen
- Space - Pause or resume the video player

## Content Rows

Go Big Mode displays rows for each media type enabled in your settings:

- Movies
- TV Shows
- Documentaries
- Anime
- Music Videos

Rows show the most recently added content. Select a title to open a detail overlay with play button and info.

## Mobile Remote Control

When Go Big Mode is active on a desktop or TV, you can use a second device (phone or tablet) as a remote control. The mobile device automatically detects that a Go Big session is running and shows the remote overlay.

- Pause/Resume button
- Fullscreen toggle
- Back button
- Exit Go Big mode
- Media tabs (Movies, TV, Docs, Anime, Music Videos) - tap a title to play it on the main screen

The remote communicates with the main screen over your local network. No internet connection or external service is required.

# 18. What's New Online

"What's New Online?" is a discovery page that shows upcoming and recently released movies, TV series, anime, documentaries, and cartoons from TMDB. It requires a TMDB API key.

## Accessing the Page

Click the "What's New Online?" button on the Home dashboard. If no TMDB key is configured, the button is greyed out with a tooltip explaining how to set one up.

## Categories

- Movies - Recent and upcoming theatrical and streaming releases
- TV Shows - Recent and upcoming TV series
- Anime - Recent and upcoming anime from Japan
- Documentaries - Recent documentary films
- Cartoons - Recent animated films

## Filters and Modes

- Mode: "Recently Released" shows titles from the past 90 days sorted by popularity
- Mode: "Coming Soon" shows titles releasing in the next 90 days sorted by date
- Country filter: Select your country to bias results towards local release dates and local-language titles
- Genre filter: Filter movies and TV shows by genre (Action, Comedy, Drama, etc.)
- Pagination: Navigate through multiple pages of results

## Streaming Provider Badges

Each title card shows coloured badges for the streaming services that carry it in your selected region. Badges use the provider's brand colours (Netflix, Prime Video, Disney+, etc.).

## "Find in Library" Button

Each title has a "Find in Library" button that searches your local NexusM collection for a matching title. If found, you are taken directly to the local title page. This is useful for checking whether you already own something before streaming it.

## "View on TMDB" Button

Each title also has a direct link to its TMDB page for full details, trailers, and reviews.

# 19. DLNA / UPnP Media Server

NexusM includes a built-in DLNA/UPnP media server that makes your library accessible to any DLNA-compatible device on your network, such as smart TVs, Blu-ray players, games consoles, VLC, Kodi, and DLNA renderer apps.

## Enabling DLNA

11. Go to Settings > DLNA.
12. Enable DLNA and set a Friendly Name (this is what your TV will see).
13. Click Save Settings. NexusM will start advertising itself on the network via SSDP.

Note: DLNA runs only when enabled. It can be toggled at any time without restarting NexusM.

## Library Tree

The DLNA library is organised as follows:

- Music - All Tracks, Albums, Artists
- Videos - Movies, TV Shows (grouped by series), Music Videos
- Anime

Most media types are served directly to the DLNA renderer without transcoding, ensuring maximum compatibility and quality. Files are sent with byte-range support so the renderer can seek within the file.

## Compatibility Notes

- Video files are served as-is (no transcoding) for maximum compatibility
- MKV files are served as video/x-matroska, MP4 as video/mp4
- Audio tracks are always served directly
- DLNA is LAN-only - access is restricted to devices on your local network

## 20. Subtitles

NexusM can automatically download subtitles for your movies and TV shows from two providers: OpenSubtitles and SubDL.

### Setting Up Subtitle Providers

#### OpenSubtitles

14. Create a free account at <https://www.opensubtitles.com>
15. Go to your account settings and generate a Consumer API key.
16. In NexusM Settings > Subtitles, enter your OpenSubtitles API Key, Username, and Password.

#### SubDL

17. Create a free account at <https://subdl.com> and get an API key.
18. In NexusM Settings > Subtitles, enter your SubDL API Key.

### Downloading Subtitles

- Open any movie or TV show detail page.
- Click the "Download Subtitles" button.
- Select your preferred language from the list.
- NexusM will search both configured providers and download the best match.
- Downloaded subtitles are stored alongside the video file.

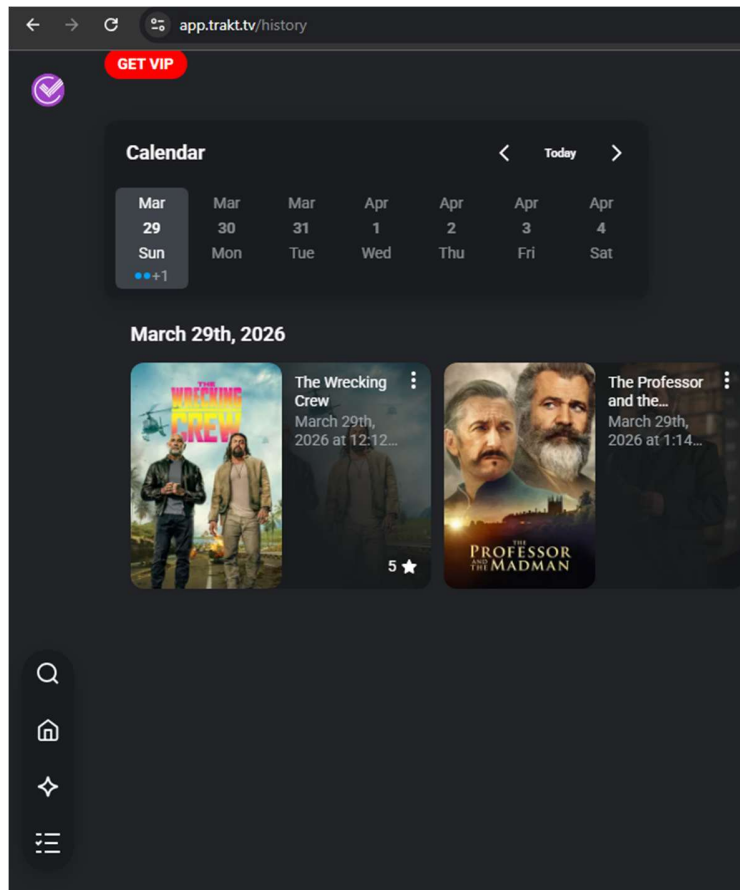
Subtitles already embedded in MKV files are available directly without downloading.

### Subtitle Playback

- During video playback, click the subtitle track button in the player controls.
- Select from available subtitle tracks (embedded or downloaded SRT files).
- Subtitles are rendered by the browser and support basic styling.

# 21. Trakt Integration

NexusM integrates with Trakt (trakt.tv) to automatically record your viewing activity. When you watch a movie or TV episode in NexusM, it is scrobbled to your Trakt account so your watch history stays in sync across all your apps and devices.



## Setting Up Trakt

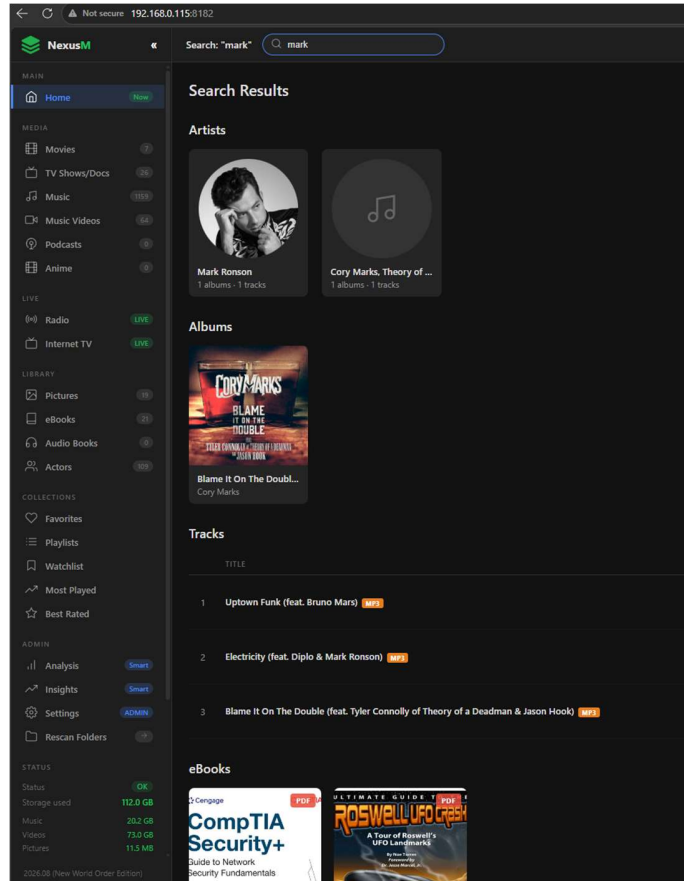
19. Create a free account at <https://trakt.tv> if you do not already have one.
20. Go to <https://trakt.tv/oauth/applications> and create a new application to get a Client ID and Client Secret.
21. In NexusM Settings > Trakt, enter your Client ID and Client Secret.
22. Click "Authorise Trakt" and follow the on-screen instructions to grant access.
23. Enable "Scrobble to Trakt" to activate automatic scrobbling.

## What Gets Scrobbled

- Movies: scrobbled when you finish watching (or when you reach 80% of the runtime)
- TV episodes: scrobbled on completion
- Watch history is linked to TMDb IDs for accurate matching

## 22. Search

NexusM provides a powerful global search feature accessible from the home page. The search bar covers all media types simultaneously.



### Search Scope

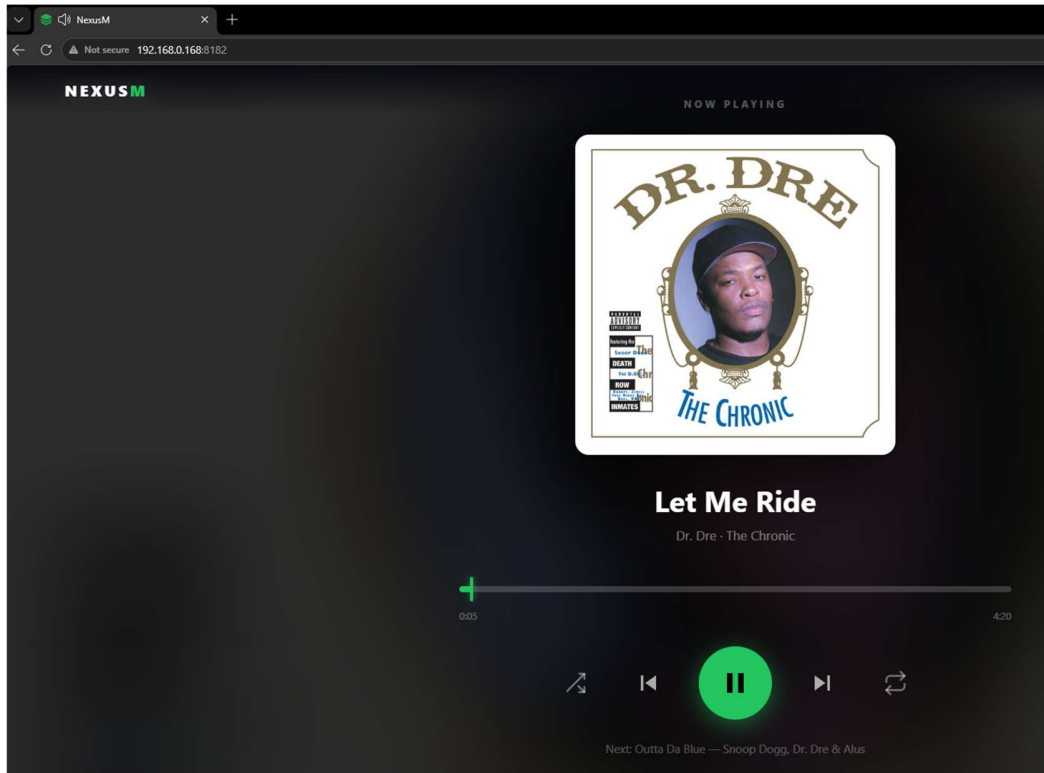
The global search covers:

- Music tracks (by title, artist, album)
- Movies and TV shows (by title, genre, description)
- Music videos (by title, artist)
- Anime (by title)
- Pictures (by category, filename)
- eBooks (by title, author)
- Actors (by name)
- Albums (by name)

Each library section also has its own dedicated search and filter bar for more focused searching within that media type.

## 23. Audio Player

NexusM includes a built-in web audio player that appears at the bottom of the screen or in full screen when using the Go Big mode. The same player is used for music, radio, and podcasts.



### Player Controls

- Play / Pause
- Previous / Next track
- Progress bar with seek (click to jump to any position)
- Volume control with slider and mute toggle
- Shuffle mode (randomise playback order)
- Repeat modes: Off, Repeat One, Repeat All

## Additional Features

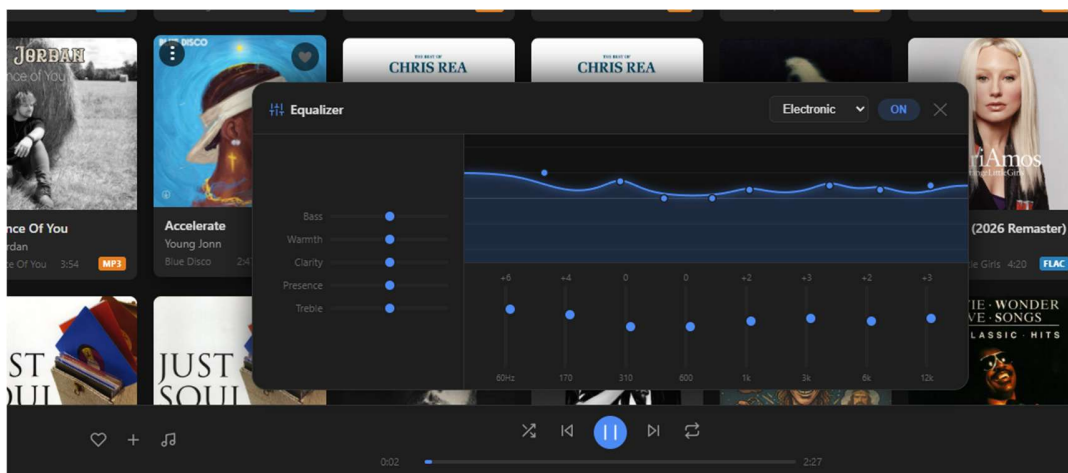
- Album artwork display
- Track information (title, artist, album)
- Add to Favourites directly from the player
- Add to Playlist directly from the player
- Queue management - view and manage upcoming tracks

## Radio Mode

When playing a radio stream, the player switches to radio mode. Shuffle, repeat, previous, next, and progress bar controls are hidden. The currently playing track title (from ICY stream metadata) is shown in the artist field and updates automatically every 15 seconds.

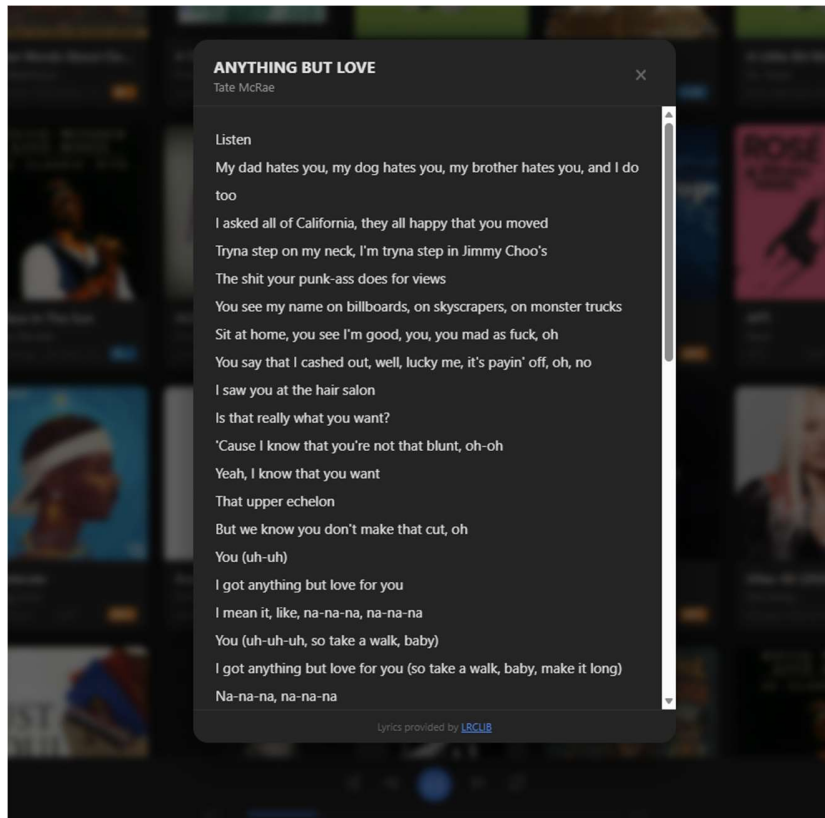
## Built-in Equaliser

NexusM includes a 10-band equaliser accessible from the player bar (EQ icon on the right). Adjustments are applied in real time and remembered between sessions.



## Lyrics

NexusM can display song lyrics while a track is playing. Lyrics are fetched from the LRCLIB service. Synced (time-stamped) lyrics scroll automatically in time with the music. Click the lyrics icon in the player bar to open the lyrics panel.

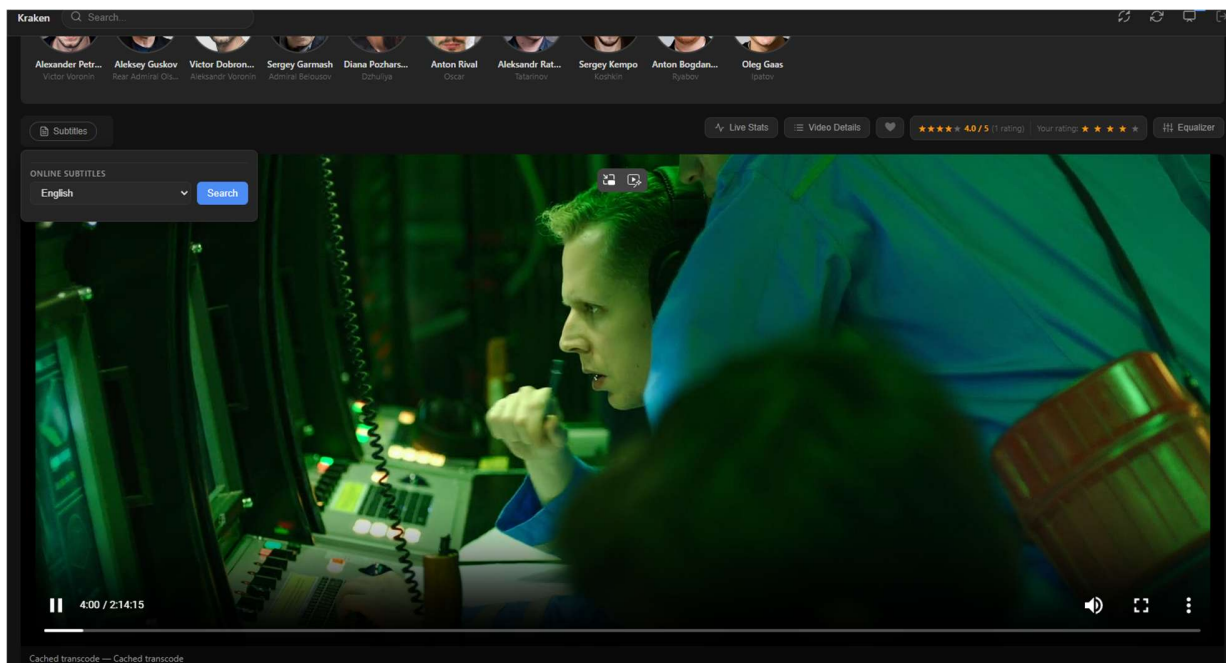


# 24. Video Player and Transcoding

## Video Player

NexusM includes a built-in video player that streams video directly in the browser. For compatible formats (MP4 with H.264/AAC), video plays directly without any server processing. For other formats, NexusM transcodes the video on the fly using FFmpeg and delivers it via HLS (HTTP Live Streaming).

- Direct playback for browser-compatible formats (zero server load)
- HLS adaptive streaming for transcoded content
- Fullscreen support
- Resume playback from where you left off
- Watched status tracking per title and episode
- Intro skip support (automatically detects and skips intro sequences)
- Subtitle track selector (embedded tracks and downloaded SRT files)



## Transcoding

Video transcoding converts incompatible video formats into a format web browsers can play. NexusM uses FFmpeg for transcoding and automatically chooses the best available encoder based on your hardware.

## Hardware Acceleration

NexusM automatically detects your GPU and uses hardware-accelerated encoding where available:

- NVIDIA NVENC: NVIDIA GeForce and Quadro GPUs (Windows and Linux)
- Intel Quick Sync (QSV): Intel integrated graphics (Windows)
- AMD AMF: AMD Radeon GPUs (Windows)
- Intel VA-API: Intel integrated and discrete GPUs (Linux)
- Software encoding: CPU-based fallback, always available on all platforms

## HDR Video

NexusM supports HDR video playback with tone-mapping to SDR for devices that do not support HDR displays. The HDR playback mode can be configured in Settings > Playback > HDR Mode:

- SDR (default): All HDR content is tone-mapped to SDR during transcoding. Works on all displays and browsers.
- Auto (dual-track): For supported formats, NexusM generates both a native HDR track and an SDR track. HDR-capable browsers and devices can select the HDR version.

HDR formats supported: HDR10, HDR10+, HLG, and Dolby Vision.

Note: The tone-mapping engine uses zscale (libzimg) for colour-accurate conversion. Hardware-assisted tone-mapping is used on platforms where the GPU driver supports it.

## Transcoding Settings

You can configure transcoding behaviour in Settings > Playback and Tools:

- Enable/disable transcoding
- Preferred audio codec and bitrate (MP3, AAC, Opus)
- FFmpeg path (leave blank for auto-detection)
- HLS cache size and retention
- CPU thread limit for software encoding

## Remuxing

For some formats (such as MKV with H.264 video and AAC audio), NexusM can "remux" the file - changing the container to MP4 without re-encoding the video stream. This is much faster than full transcoding and preserves the original quality.

## Intro Skipper

NexusM includes a basic intro skipper that detects intro and credit sequences in TV episodes using chapter markers in the video file. When an intro is detected, a "Skip Intro" button appears on screen during playback.

- Enable or disable the intro skipper in Settings > Playback > Intro Skipper
- Works with MKV files that include chapter metadata

# 25. Server Resource Monitor

NexusM includes a built-in Server Resource Monitor that shows real-time CPU and RAM usage graphs for the machine running NexusM. This is useful for monitoring transcoding load and general server health.



## Accessing the Monitor

The Server Resource Monitor is accessible from the Analysis page or from the Settings page under Server. The graphs show rolling 3-hour history with data points collected every 15 seconds.

## Metrics Displayed

- CPU usage percentage (per-sample and rolling average)
- RAM usage (used and total, in GB)
- Rolling 3-hour graph with timestamp axis

Metrics are collected by a background service and stored in assets/metrics/metrics.json. The file is pruned automatically to keep only the last 3 hours of data.

## Cross-Platform Support

- Windows: uses GetSystemTimes (kernel32) for CPU and GlobalMemoryStatusEx for RAM
- Linux: reads /proc/stat for CPU delta and /proc/meminfo for RAM

No additional packages or dependencies are required.

# 26. Analysis and Insights

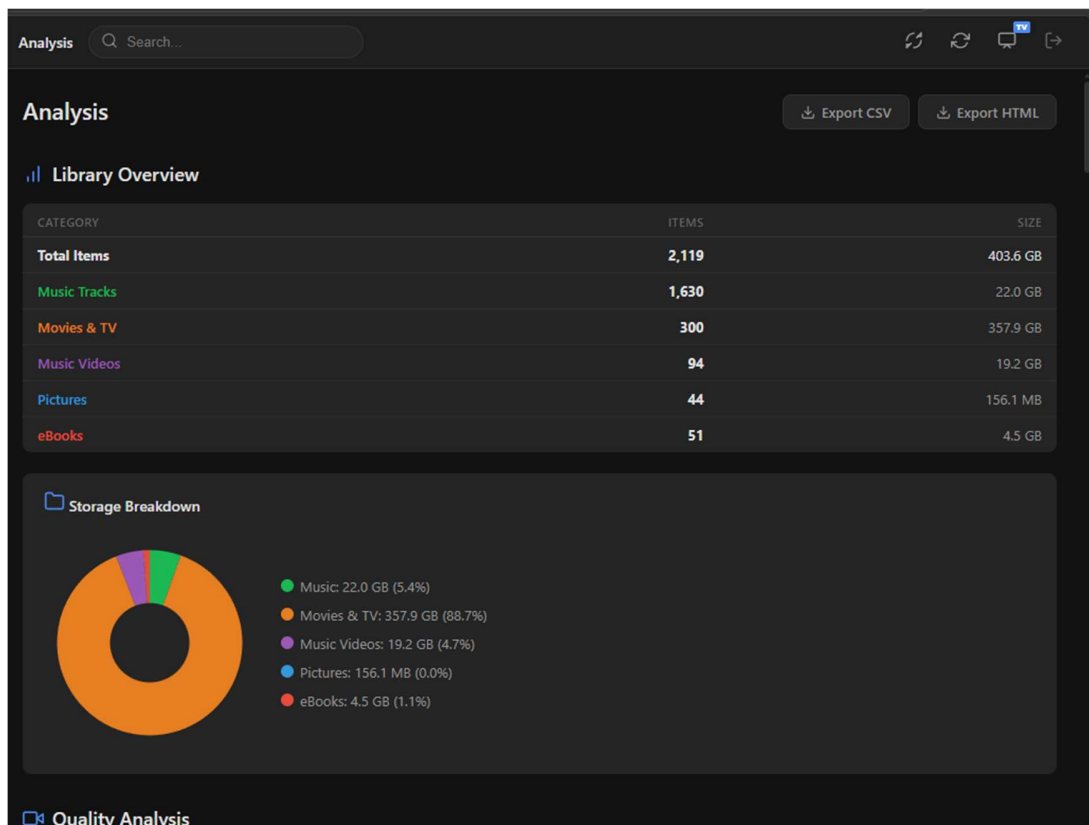
## Analysis Page

The Analysis page provides detailed statistics about your media library with visual charts and breakdowns.

For each library type you can view:

- Format distribution (e.g. FLAC vs MP3, MKV vs MP4)
- Resolution distribution (4K, 1080p, 720p, SD)
- Codec distribution (H.264, H.265, VP9, AV1, etc.)
- Genre distribution
- Top artists by track count
- Bitrate and sample rate distribution (music)
- Image format and resolution distribution (pictures)
- Format distribution and top authors (eBooks)

The page also shows overall totals: total items, total storage used, total playback duration, and HD ratio.



## Insights Page

The Insights page provides smart analytics about your viewing and listening habits:

- Total watched count (movies, TV episodes)
- Total watch time in hours
- Library progress (percentage of collection watched)
- Watch day patterns (which days you watch most)
- Watch hour patterns (what times you watch)
- Top genre preferences
- Comfort titles (most rewatched content)
- Recommendations for unwatched content in your library

## Exporting Data

You can export your library data in two formats:

- CSV - spreadsheet-compatible format for data analysis
- HTML - standalone HTML report with formatting

# 27. User Management and Security

## PIN Authentication

By default, NexusM requires a PIN code to log in. Each user has their own PIN, and sessions expire after the configured timeout. If you prefer to skip authentication (for example on a home server that only you use), you can disable PIN authentication in Settings > Security.

## User Roles

- Admin: Full access to all features including settings, user management, and library scanning
- Guest: Can browse and play media but cannot access settings, analysis, or trigger scans

## Managing Users

Admin users can manage accounts from the Settings page:

- Create new users with a display name and PIN
- Edit existing user details and PIN
- Delete user accounts
- Set user roles (admin or guest)

## IP Whitelist

For additional security, you can restrict access to specific IP addresses. Edit the IPWhitelist field in Settings > Security.

Example: 192.168.1.10, 192.168.1.20

Note: Localhost (127.0.0.1) is always allowed even when a whitelist is configured.

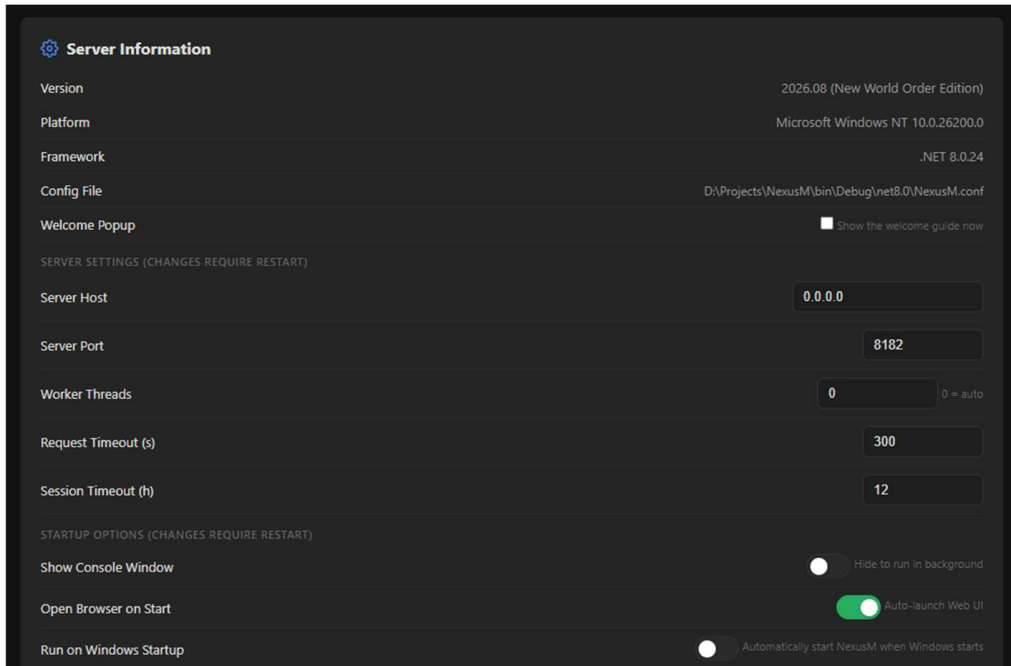
## HTTPS Support

NexusM can serve over HTTPS using a self-signed certificate that it generates automatically. Enable HTTPS in Settings > Server. The certificate includes all LAN IP addresses and the machine's hostname.local mDNS name for Apple TV compatibility.

- Enable HTTPS in Settings > Server > Enable HTTPS
- Set an HTTPS port (default 8183)
- Download the certificate from Settings > Server > Download Certificate to install it on client devices
- Regenerate the certificate from the same page if your network configuration changes

# 28. Settings and Configuration

NexusM can be configured through the Settings page in the web UI or by editing the NexusM.conf file directly. Most settings take effect immediately after saving. Some server settings (port, host) require a restart.



## Server Settings

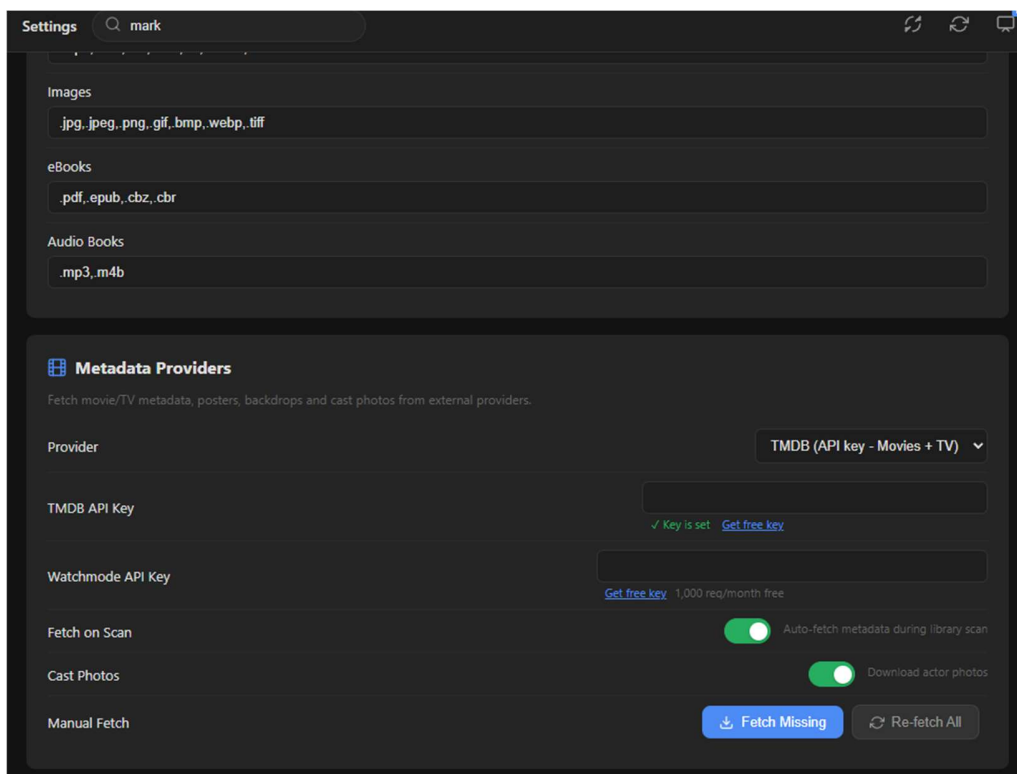
- Server Port (default 8182)
- Server Host (default 0.0.0.0 to listen on all network interfaces)
- HTTPS enable/disable, HTTPS port, and certificate management
- Worker threads and request timeout
- Session timeout
- Open browser on startup
- Run on startup (Windows only)
- Show console window

## Library Settings

- One folder path per media type (Music, Movies, TV Shows, Music Videos, Pictures, eBooks, Audiobooks, Anime)
- Auto Scan on Startup
- Auto Scan Interval (minutes, 0 to disable)
- Scan threads (parallel file processing)
- File extension lists for each media type

## Metadata Settings

- Metadata provider (TMDB, TVMaze, or None)
- TMDB API key
- Watchmode API key
- Fetch metadata on scan (auto-fetch after every scan)
- Fetch cast photos
- Country (for streaming provider localisation)



## Menu Visibility

You can show or hide specific sections of the navigation bar from Settings > Menu. This is useful if you only use certain media types and want a cleaner interface.

## UI Preferences

- Theme (Dark Grey, Midnight Blue, Dark Purple, Emerald Green, Sky Grey, Sky Blue)
- Language (19 languages available)
- Default view (Home, Movies, Music, etc.)
- UI template
- Go Big on Start - open in Go Big Mode automatically

## Editing NexusM.conf

The configuration file NexusM.conf is located in the same directory as NexusM.exe (or the NexusM binary on Linux). It uses a standard INI format with sections and key=value pairs.

Example:

```
[Server]
ServerPort=8182
ServerHost=0.0.0.0
ShowConsole=False

[Library]
MoviesFolders=D:\Movies
TvShowsFolders=D:\TVShows
MusicFolders=D:\Music

[Metadata]
Provider=tmdb
TmdbApiKey=your_key_here
```

Note: Some settings require restarting NexusM to take effect (e.g. ServerPort, ServerHost).

# 29. Themes and Languages

## Visual Themes

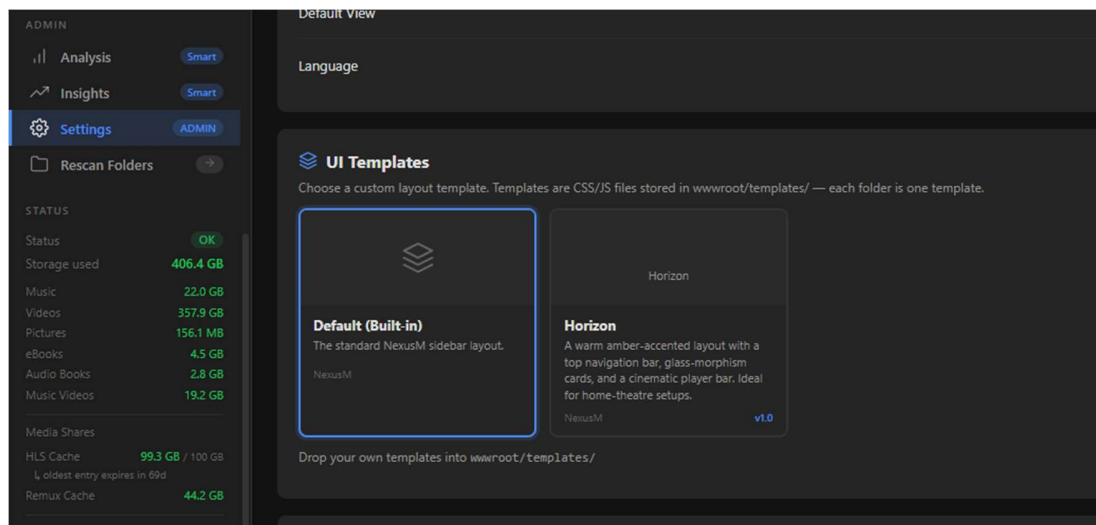
NexusM offers 6 visual themes:

- Dark Grey: Dark background with light text. Default theme.
- Midnight Blue: Dark blue accent theme.
- Dark Purple: Dark purple accent theme.
- Emerald Green: Dark green accent theme.
- Sky Grey: Light grey theme.
- Sky Blue: Light blue theme.

You can change the theme from Settings > UI. The theme is applied immediately without page reload.

## Custom UI Templates

NexusM also includes the possibility to load a fully custom template, using your own CSS/JS files



Templates are CSS/JS files stored in wwwroot/templates/ — each folder is one template.

## Languages

NexusM supports 19 languages. Change the language from Settings > UI > Language. The entire interface updates immediately without a page reload.

Supported languages:

- English, French, German, Spanish, Portuguese, Italian, Polish, Russian, Swedish, Ukrainian, Romanian, Dutch, Norwegian, Finnish, Estonian, Lithuanian, Slovenian, Albanian, Serbian

## 30. Network Shares

NexusM can access media files stored on network shares (NAS devices, shared drives). You can configure share credentials for each media type.

### Configuring Network Shares

In Settings > Media Shares, each library type has a lock icon button next to the folder path field. Click it to enter the credentials for that share:

- UNC path (e.g. \\NAS\Media\Music)
- Username and password
- Domain (optional, for Active Directory environments)

### Auto-Mount

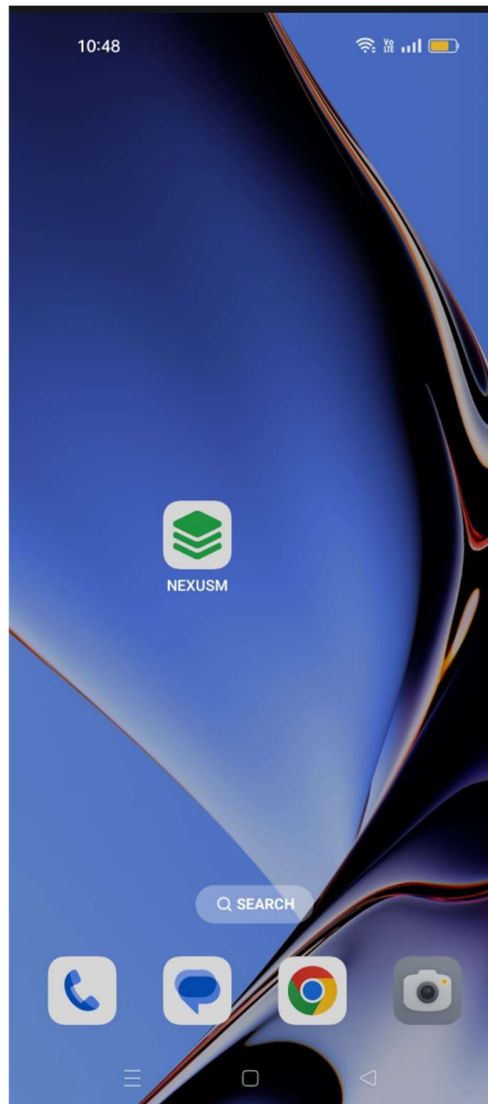
NexusM automatically mounts configured network shares on startup. You can also manually mount all shares from the "Mount All Shares" button in Settings > Media Shares.

### Share Status

The sidebar and Settings page show the connection status of your media storage. Each configured share shows whether it is online and accessible.

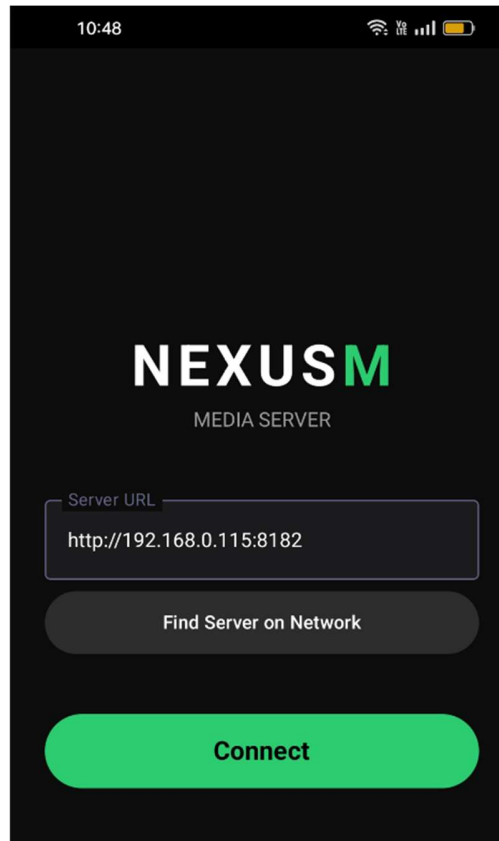
## 31. Google TV / Android TV app

Launch the NexusM app from Android

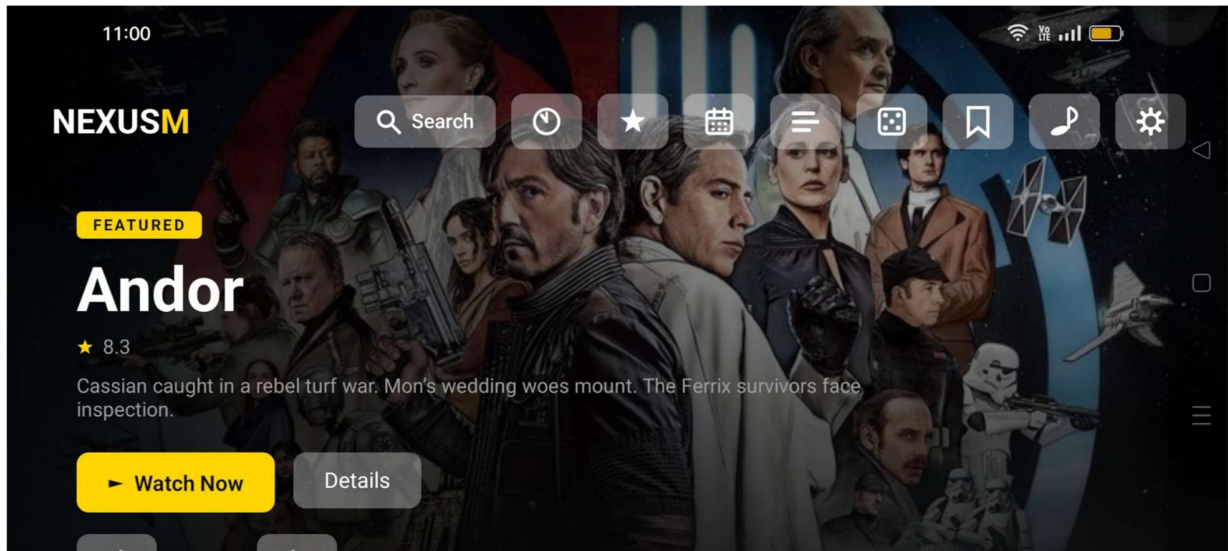
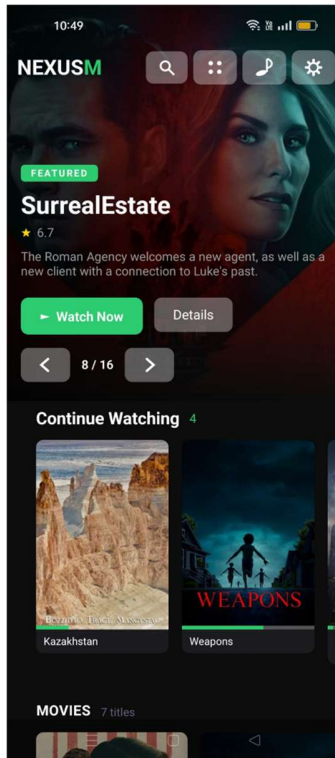


Input your server IP address and port. The client will detect automatically whether the security PIN is enabled or not.

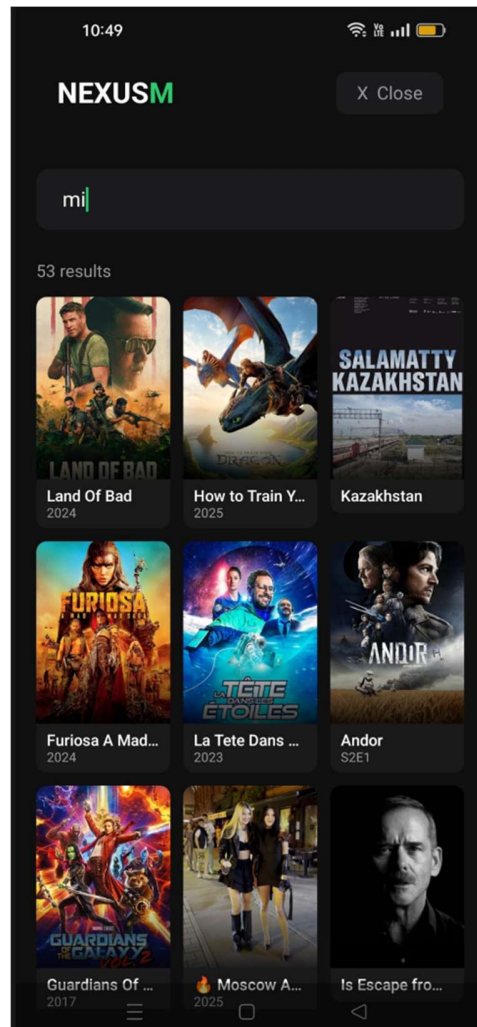
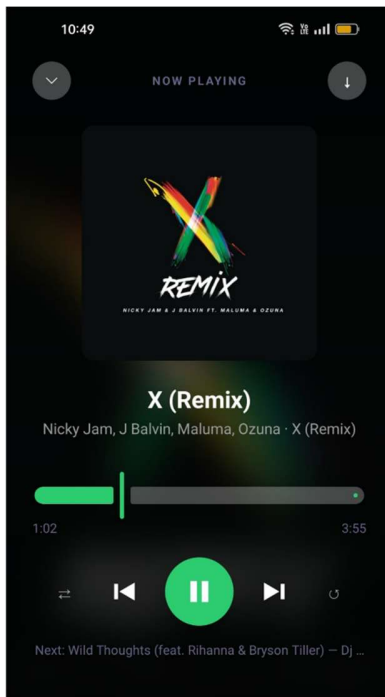
You can also try the “Find Server on Network”, it uses port 8180.



Once the application is connected, you will see the content of your medias loaded.



You can use the many features such as media search or music player of course. The Android app is in constant development so keep an eye on the Support page to check for newer versions with new features and bug fixes



# 32. Troubleshooting

## NexusM will not start

- Check that port 8182 is not already in use. Change ServerPort in NexusM.conf if needed.
- Look at the log files in the logs/ directory for error messages.
- On Linux, ensure the NexusM binary has execute permission (chmod +x NexusM).
- On Windows, check that Windows Defender or antivirus is not blocking the executable.

## Cannot access from other devices

- Ensure ServerHost is set to 0.0.0.0 (not localhost) in NexusM.conf.
- Allow NexusM through Windows Firewall. When prompted on first run, click "Allow".
- Check that the IP whitelist is empty or includes the remote device's IP address.
- Verify that both devices are on the same network.

## Videos will not play

- Confirm FFmpeg is detected in Settings > Playback > FFmpeg Status.
- Check that the video file is not corrupted (try playing it in VLC).
- Formats such as MKV, AVI, and WMV require transcoding. Ensure FFmpeg is available.
- Check the browser console (F12) for error messages.

## Metadata not loading

- Verify your TMDb API key is entered correctly in Settings.
- Ensure the metadata provider is set to "TMDb" (not "None").
- Check your internet connection - metadata fetching requires internet access.
- Try clicking "Refresh Metadata" on an individual title to test the connection.

## Actors page is empty

- Actors are populated when metadata is fetched with TMDb enabled.
- Click "Populate Actors Database" on the Actors page to backfill from existing metadata.
- Ensure you have a valid TMDb API key configured.

## Anime not showing metadata

- The Jikan API (MyAnimeList) has a rate limit of 3 requests per second. For large libraries, the scan will automatically pace itself. Allow extra time for large anime libraries.
- Ensure your anime filenames follow a recognised pattern (see Section 8).
- Check internet connectivity - Jikan requires internet access.

## "What's New Online?" button is greyed out

- This feature requires a TMDb API key. Configure one in Settings > Metadata.

## "Where to Watch?" not appearing

- This feature requires both a TMDb API key and a Watchmode API key.
- Configure both keys in Settings > Metadata.
- Verify your Watchmode API key is valid and has not exceeded its monthly request limit.

## DLNA device not found on TV

- Ensure DLNA is enabled in Settings > DLNA.
- Check that your TV and NexusM are on the same network subnet.
- Some routers block multicast traffic. Check your router's multicast/IGMP settings.
- Try restarting NexusM and waiting 30 seconds for SSDP announcements to propagate.

## Slow performance

- Reduce ScanThreads in Settings > Library if scanning uses too much CPU.
- Enable HLS cache to avoid re-transcoding the same video repeatedly.
- Use hardware encoding (NVIDIA, Intel, or AMD GPU) for video transcoding.
- Set the CPU thread limit (FFmpegCPULimit) to control CPU usage during software transcoding.

# Appendix A: Configuration Reference

Complete reference for all settings available in NexusM.conf.

Settings marked with (\*) require a restart to take effect.

## [Server]

- ServerPort (\*): HTTP port (default 8182)
- ServerHost (\*): Bind address (default 0.0.0.0 for all interfaces)
- HttpsEnabled: Enable HTTPS (default False)
- HttpsPort (\*): HTTPS port (default 8183)
- HttpsRedirectHttp: Redirect HTTP to HTTPS (default False)
- HttpsCertPassword: Password for the auto-generated HTTPS certificate
- WorkerThreads (\*): Kestrel worker thread count (default 0 = auto)
- RequestTimeout: HTTP request timeout in seconds (default 300)
- SessionTimeout: Login session timeout in minutes (default 10080 = 7 days)
- ShowConsole: Show the console window on Windows (default False)
- OpenBrowser: Open browser automatically on startup (default True)
- RunOnStartup: Register as a Windows startup application (default False)

## [Security]

- SecurityByPin: Require PIN to log in (default True)
- DefaultAdminUser: Default admin username (default admin)
- IPWhitelist: Comma-separated list of allowed IP addresses (empty = allow all)

## [Library]

- MusicFolders: Path to music folder
- MoviesFolders: Path to movies folder
- TvShowsFolders: Path to TV shows and documentaries folder
- MusicVideosFolders: Path to music videos folder
- PicturesFolders: Path to pictures folder
- EBooksFolders: Path to eBooks folder
- AudioBooksFolders: Path to audiobooks folder
- AnimeFolders: Path to anime folder
- AutoScanOnStartup: Scan library on startup (default False)
- AutoScanInterval: Auto-scan interval in minutes (default 0 = off)
- ScanThreads: Parallel threads for library scanning (default 4)
- VideoExtensions: Recognised video file extensions
- AudioExtensions: Recognised audio file extensions
- ImageExtensions: Recognised image file extensions

- EBookExtensions: Recognised eBook file extensions

## [Metadata]

- Provider: Metadata provider - tmdb, tvmaze, or none (default tvmaze)
- TmdbApiKey: TMDB API key (v3 auth)
- WatchmodeApiKey: Watchmode API key for streaming provider lookups
- FetchOnScan: Automatically fetch metadata after each scan (default False)
- FetchCastPhotos: Download actor photos (default True)
- Country: Two-letter country code for streaming provider localisation (e.g. US, GB, FR)

## [Playback]

- TranscodingEnabled: Enable video transcoding (default True)
- TranscodeFormat: Audio transcode output format - mp3, aac, opus (default aac)
- TranscodeBitrate: Audio transcode bitrate (default 192k)
- HdrPlaybackMode: HDR handling - sdr or auto (default sdr)
- IntroSkipperEnabled: Enable automatic intro detection (default True)
- FFmpegPath: Path to FFmpeg binary (empty = auto-detect from tools/ffmpeg/bin/)

## [Transcoding]

- FFmpegCPULimit: Maximum CPU threads for software encoding (default 0 = auto)
- HlsCacheSizeMb: HLS segment cache size in MB (default 2048)
- HlsCacheRetentionMinutes: How long to keep cached HLS segments (default 60)

## [DLNA]

- Enabled: Enable DLNA/UPnP media server (default False)
- FriendlyName: Name shown to DLNA devices (default NexusM Media Server)

## [UI]

- ShowMusic: Show Music in navigation (default True)
- ShowMoviesTV: Show Movies and TV in navigation (default True)
- ShowMusicVideos: Show Music Videos in navigation (default True)
- ShowPictures: Show Pictures in navigation (default True)
- ShowEBooks: Show eBooks in navigation (default True)
- ShowAudioBooks: Show Audiobooks in navigation (default True)
- ShowRadio: Show Radio in navigation (default True)
- ShowInternetTV: Show Internet TV in navigation (default True)
- ShowPodcasts: Show Podcasts in navigation (default True)
- ShowAnime: Show Anime in navigation (default True)
- GoBigDefault: Open in Go Big Mode on startup (default False)

## **[Trakt]**

- ClientId: Trakt application Client ID
- ClientSecret: Trakt application Client Secret
- ScrobbleEnabled: Automatically scrobble watches to Trakt (default False)

# Appendix B: Keyboard Shortcuts

## Audio Player

- Space: Play / Pause
- Left arrow: Seek back 10 seconds
- Right arrow: Seek forward 10 seconds
- Up arrow: Volume up
- Down arrow: Volume down
- M: Mute / Unmute
- N: Next track
- P: Previous track
- S: Toggle shuffle
- R: Cycle repeat mode (off, repeat one, repeat all)
- L: Open / close lyrics panel

## Video Player

- Space: Play / Pause
- Left arrow: Seek back 10 seconds
- Right arrow: Seek forward 10 seconds
- Up arrow: Volume up
- Down arrow: Volume down
- F: Toggle fullscreen
- M: Mute / Unmute
- Escape: Exit fullscreen

## Go Big Mode

- Arrow keys: Navigate between rows and cards
- Enter: Select / Play focused item
- Backspace / Escape: Go back or close detail panel
- F: Toggle fullscreen
- Space: Pause / Resume video