



# Plugins

Extend Navidrome's functionality with community-developed plugins

Navidrome supports a plugin system that allows you to extend its functionality with community-developed extensions. Plugins run in a secure WebAssembly sandbox, providing isolation from the main application while enabling powerful customizations.

Plugins are developed by the community. While they run in a secure sandbox, you should always review a plugin's documentation and source code before installation.

## What Plugins Can Do #

Plugins can extend Navidrome in several ways:

- **Metadata Agents:** Fetch artist biographies, album information, and images from external sources
- **Scrobblers:** Send your listening history to external services beyond the built-in Last.fm and ListenBrainz support
- **Scheduled Tasks:** Run periodic background tasks
- **Event Handlers:** React to events like playback or websocket events

Each plugin declares which capabilities it provides, and you can enable only the plugins you need.

## Finding Plugins #

Community-developed plugins can be found on GitHub using the [navidrome-plugin](#) topic.

When evaluating a plugin, consider:

- **Repository activity:** Check when the plugin was last updated
- **Documentation:** Look for clear installation and configuration instructions
- **Issues and discussions:** Review any reported problems or user feedback
- **Source code:** Plugins are open source, so you can review the code before installing

## Third-Party Code

Unless otherwise stated, plugins are **not** developed or maintained by the Navidrome team. Install plugins only from sources you trust, and review the plugin's permissions and documentation carefully.

## Installing Plugins #

1. **Download the plugin:** Go to the plugin's GitHub repository and download the `.ndp` file from the Releases page.
2. **Place in plugins folder:** Copy the `.ndp` file to your plugins directory:
  - Default location: `<DataFolder>/plugins`
  - Custom location: Set `Plugins.Folder` in your configuration
3. **Rescan for plugins:** Click the "Rescan" button in the Plugins section of the web UI, or if you have `Plugins.AutoReload = true` configured, the plugin will be detected automatically.
4. **Enable the plugin:** Go to the Navidrome web UI, navigate to the Plugins section in the admin area, and enable the plugin.
5. **Configure the plugin:** Some plugins require additional configuration. Check the plugin's documentation for required settings.

## Server Configuration #

The following configuration options control the plugin system:

<b>Config</b>	<code>Plugins.Enabled</code>
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**Env var** ND\_PLUGINS\_ENABLED

### Description

Enable the plugin system

### Default

true

**Config** Plugins.Folder

**Env var** ND\_PLUGINS\_FOLDER

### Description

Directory where plugin ( .ndp ) files are stored

### Default

"<DataFolder>/plugins"

**Config** Plugins.AutoReload

**Env var** ND\_PLUGINS\_AUTORELOAD

### Description

Watch plugins folder for changes and reload automatically

### Default

false

**Config** Plugins.LogLevel

**Env var** ND\_PLUGINS\_LOGLEVEL

### Description

Log level for plugins ( error , warn , info , debug , trace )

### Default

*Inherit from LogLevel*

<b>Config</b>	Plugins.CacheSize
<b>Env var</b>	ND_PLUGINS_CACHESIZE
<b>Description</b>	Size of WebAssembly compilation cache
<b>Default</b>	"200MB"

## Example Configuration #

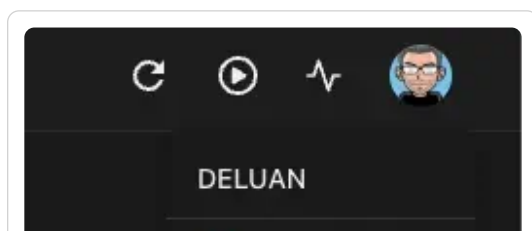
```
[Plugins]
Enabled = true
Folder = "/path/to/plugins"      # Optional: custom plugins folder
AutoReload = true                # Useful during development/testing
LogLevel = "debug"               # Enable detailed plugin logging
CacheSize = "200MB"              # WASM compilation cache size
```

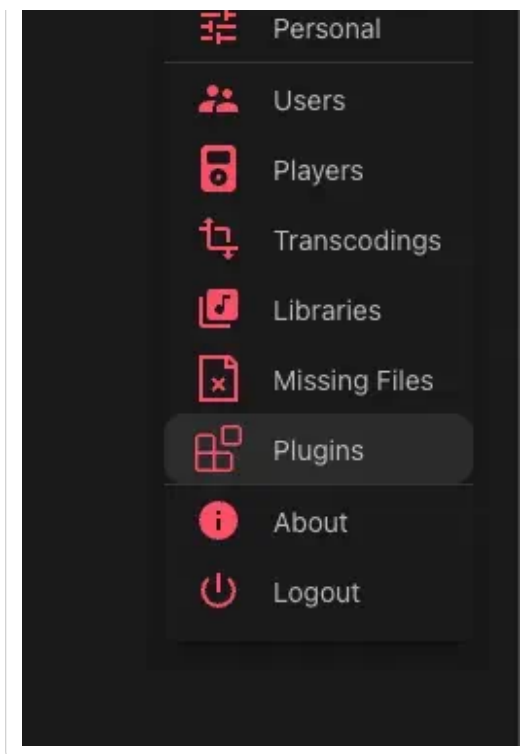
Or using environment variables (useful for Docker):

```
ND_PLUGINS_ENABLED=true
ND_PLUGINS_FOLDER=/data/plugins
ND_PLUGINS_AUTORELOAD=true
ND_PLUGINS_LOGLEVEL=debug
```

## Managing Plugins in the Web UI #

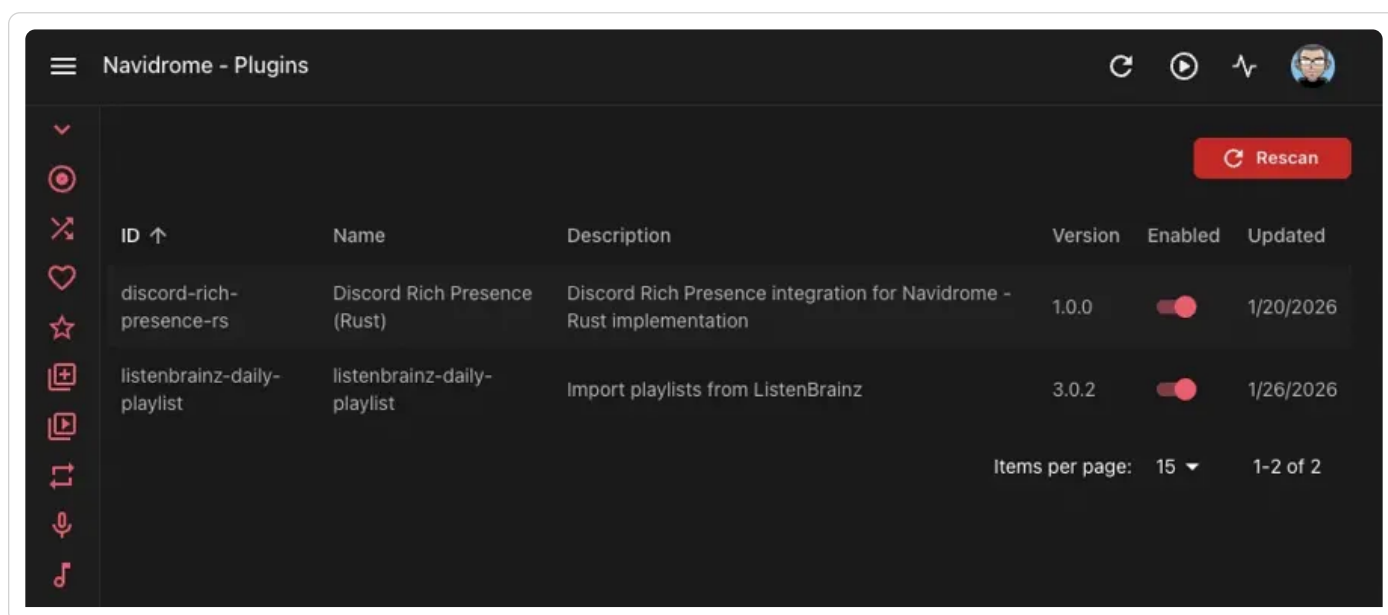
Once plugins are installed, you manage them through the Navidrome web interface:





## Viewing Installed Plugins #

Navigate to the Plugins section in the admin area to see all installed plugins. Each plugin shows its name, description, version, and current status.



## Enabling and Disabling Plugins #

Toggle individual plugins on or off. Disabled plugins remain installed but won't run.

## Configuring Plugin Settings #

Many plugins have configurable options. Click on a plugin to view and modify its settings. The available options depend on what the plugin supports - check the plugin's documentation for details on each setting.



## User Access #

Some plugins are user-scoped, meaning they operate on a per-user basis (like scrobblers). For these plugins, you need to configure which users have access:

- **All users:** Grant access to every user
- **Specific users:** Select individual users who can use the plugin

### Users Permission

Reason: Requires user access for subsonic API



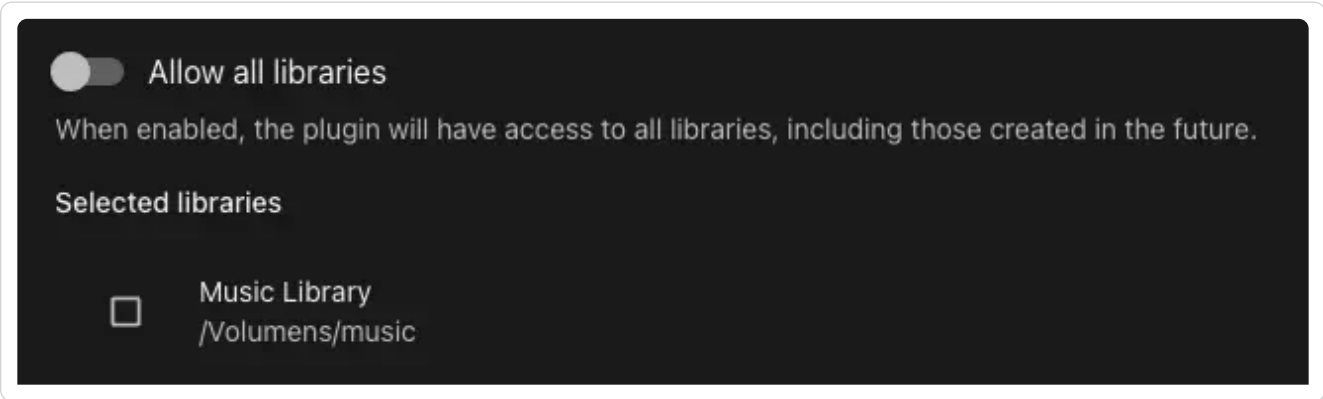
Allow all users

When enabled, the plugin will have access to all users, including those created in the future.

## Library Access #

Plugins that interact with your music library may need library access configured:

- **All libraries:** Grant access to all libraries
- **Specific libraries:** Select which libraries the plugin can access



Allow all libraries

When enabled, the plugin will have access to all libraries, including those created in the future.

### Selected libraries

Music Library  
/Volumens/music

## Security #

### WebAssembly Sandbox #

All plugins run inside a WebAssembly (WASM) sandbox provided by the [Extism](#) runtime. This means:

- Plugins cannot directly access your filesystem (except explicitly granted library paths)
- Network access is restricted to hosts declared in the plugin's manifest
- Plugins are isolated from each other and from Navidrome's internal systems

### Permission System #

Each plugin declares the permissions it needs in its manifest:

- **HTTP access:** Which external hosts the plugin can contact
- **Storage:** Whether the plugin can store persistent data

- **Library access:** Whether the plugin needs to read your music files
- **User access:** Whether the plugin operates on a per-user basis

Review these permissions before enabling a plugin to understand what it can access.

## Best Practices #

- Only install plugins from trusted sources
- Review the plugin's source code if you have concerns
- Start with plugins disabled and enable them one at a time
- Monitor your logs after enabling new plugins
- Keep plugins updated to get security fixes

## Troubleshooting #

### Plugin Not Appearing #

- Verify the `.ndp` file is in the correct plugins folder
- Check that `Plugins.Enabled = true` in your configuration
- Click the "Rescan" button in the Plugins section to detect new plugins
- Check logs for any errors during plugin discovery

### Plugin Won't Enable #

- Check the Navidrome logs for error messages
- Verify all required permissions are configured (users, libraries)
- Ensure the plugin's configuration requirements are met
- Try setting `Plugins.LogLevel = "debug"` for more detailed logs

### Configuration Issues #

- Refer to the plugin's documentation for required settings
- Check that configuration values match the expected format
- Look for validation errors in the logs

### Checking Logs #

Enable debug logging for plugins to troubleshoot issues:



```
[Plugins]
LogLevel = "debug" # or "trace" for more verbosity
```

Plugin-related log messages will contain `plugin=<plugin-name>` in them, making it easy to filter and identify issues.

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Last modified March 9, 2026: [Update Event Handlers description in plugins documentation \(0c06653\)](#)