

Installation Instructions for Converting MoveMusicFiles.ps1 to a Standalone Executable

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Version 2.0

Created for music producers and DJs to organize audio files efficiently.

<https://example.com/music-file-organizer> (Placeholder URL)

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1 Introduction

This document provides comprehensive instructions for converting the `MoveMusicFiles.ps1` PowerShell script into a standalone executable (`.exe`) using PS2EXE. The script is a GUI-based tool designed to organize audio files (MP3, WAV, FLAC, AIFF) by moving them to extension-specific folders, sanitizing filenames, and handling conflicts. The instructions include all prerequisites, installation steps, conversion process, and testing procedures, incorporating updates made to address issues with `BeginInvoke` and `FormClosing` event handling as of May 7, 2025.

2 Prerequisites

Before proceeding, ensure your system meets the following requirements:

- **Operating System:** Windows 10 or later (64-bit recommended).
- **.NET Framework:** Version 4.5 or later. Most Windows 10/11 systems have this installed by default.
- **PowerShell:** Version 5.1 or later (included with Windows 10/11).
- **Administrative Privileges:** Required for installing modules and running the script.
- **Disk Space:** At least 100 MB for tools and the generated executable.
- **Internet Connection:** Required for downloading PS2EXE.

To verify your .NET Framework version, run the following command in a PowerShell console:

```
■
```

Ensure the output indicates .NET Framework 4.5 or higher (e.g., `.NET Framework 4.8`).

3 Step-by-Step Installation Instructions

3.1 Step 1: Prepare the Script

Ensure you have the updated `MoveMusicFiles.ps1` script, which includes fixes for the `BeginInvoke` error (ensuring the text box handle is created before updates) and the `FormClosing` event handler error (using `Add_FormClosing`). The script is available in the provided artifact (ID: 8c698af0-7bd0-4cde-81e2-0910ed21c687).

1. Create a working directory, e.g., `C:\`.
2. Save the `MoveMusicFiles.ps1` script to this directory.
3. Verify the script content matches the updated version by checking for:
 - `Write-Log` function with `IsHandleCreated` check.
 - `Add_FormClosing` instead of `FormClosing.Add`.

3.2 Step 2: Install PowerShell (if needed)

PowerShell 5.1 is included with Windows 10/11. To verify your PowerShell version, run:

```
■
```

If the version is less than 5.1, download and install PowerShell 7 from the Microsoft website:

- Visit <https://learn.microsoft.com/en-us/powershell/scripting/install/installing-powershell>
- Download the latest PowerShell 7 installer (e.g., `PowerShell-7.x.x-win-x64.msi`).
- Run the installer and follow the prompts.

3.3 Step 3: Install PS2EXE

PS2EXE is a PowerShell module that converts `.ps1` scripts to `.exe` files. Install it as follows:

1. Open PowerShell as Administrator:
 - Press `Win + S`, type `powershell`, right-click, and select `Run as Administrator`.
2. Set the execution policy to allow module installation:

```
■
```

3. Install PS2EXE from the PowerShell Gallery:

```
■
```

If prompted, confirm the installation of NuGet and untrusted repository access.

4. Verify the installation:

```
■
```

Ensure PS2EXE is listed.

3.4 Step 4: Convert the Script to an Executable

Convert `MoveMusicFiles.ps1` to `MusicFileOrganizer.exe` using PS2EXE:

1. Open PowerShell as Administrator (same as Step 3).
2. Navigate to your working directory:



3. Run the PS2EXE command to create the executable:



- **-NoConsole:** Ensures the executable runs without a console window, suitable for GUI applications.
- **-Title:** Sets the window title for the executable.
- **-Version:** Specifies the version number (update as needed).

4. Verify that `MusicFileOrganizer.exe` is created in `C:.`


3.5 Step 5: Test the Executable

Test the generated executable to ensure it functions correctly:

1. Double-click `MusicFileOrganizer.exe` to launch it. If prompted, allow it to run as an administrator (required for file operations).
2. The GUI should appear with fields for Source, Destination, Backup directories, and a Replacements File.
3. Test the application:
 - **Select Directories:** Use the **Browse** buttons to select a source directory with audio files (e.g., MP3, WAV) and a destination directory.
 - **Start Processing:** Click **Start** to process files. Verify that logs appear in the text box without **BeginInvoke** errors.
 - **Stop Operation:** Click **Stop** during processing to confirm cancellation works.
 - **Close Form:** Click **Exit** or close the window to ensure no **FormClosing** errors occur.
 - **Check Logs:** After processing, verify that an HTML log file (e.g., `MusicFileOrganizer_Log`) is generated and opens automatically.
4. Check for errors:
 - If errors appear in the GUI text box, note the timestamp and message.
 - Common issues include missing .NET Framework or file access permissions.

4 Troubleshooting

If you encounter issues, try the following:

- **.NET Framework Missing:**
 - Install .NET Framework 4.5 or later from <https://dotnet.microsoft.com/en-us/download/dotnet-framework>.
 - Re-run the executable.
- **PS2EXE Installation Fails:**
 - Ensure an internet connection and retry `Install-Module -Name PS2EXE`.
 - Alternatively, download PS2EXE manually from <https://github.com/MScholtes/PS2EXE> and follow its installation instructions.
- **Executable Fails to Launch:**
 - Run the original `MoveMusicFiles.ps1` in PowerShell to check for errors:

 - Verify administrative privileges by right-clicking the `.exe` and selecting `Run as Administrator`.
- **BeginInvoke or FormClosing Errors:**
 - Confirm the script includes the updates from artifact ID `8c698af0-7bd0-4cde-81e2-0910ed`.
 - Check the PowerShell and .NET versions in the log messages for compatibility issues.

5 Additional Notes

- The executable requires administrative privileges to set the execution policy and perform file operations. Always run it as an administrator.
- The `NoConsole` option in PS2EXE ensures a clean GUI experience but prevents console output. If debugging is needed, remove `-NoConsole` during conversion to see console logs.
- The script supports MP3, WAV, FLAC, and AIFF files. Ensure your source directory contains these file types for testing.
- The HTML log file provides a detailed summary of operations, including successes and errors, and is automatically opened after processing.

6 Support

For further assistance, contact the developer:

- **Email:** sanny.grooves@example.com (Placeholder)
- **Website:** <https://example.com/support> (Placeholder)

Report issues with the following details:

Music File Organizer Installation Instructions

- Operating System and version.
- PowerShell version (*PSVersionTable.PSVersion*)..*NETFrameworkversion*(`[System.Runtime`
- Error messages from the GUI or console.