Image Cleaner

for Magento 2

Module & User Documentation



Vendor: Magexweb | info@magexweb.com | www.magexweb.com
Module code: Magexweb_Imagecleaner

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1. Overview

Image Cleaner is a Magento 2 admin utility developed by Magexweb that finds and removes orphaned image files sitting in your media storage — files that physically exist under pub/media/catalog/product or pub/media/catalog/category but are no longer referenced by any product or category record in Magento. These leftovers typically accumulate from deleted products/categories, replaced images, or bulk import routines, and over time they waste disk space and slow down backups/deployments.

The module adds a top-level “Image Cleaner” menu to the admin panel with two grids — Product Image Clean and Category Image Clean — that let a store administrator scan the filesystem, review a list of unused images (with thumbnail previews), and delete them individually or in bulk directly from the grid.

1.1 Key Features

- Two dedicated admin grids: Product Image Clean and Category Image Clean, under a single “Image Cleaner” menu
- One-click “Load Unused Images” scan that recursively walks the product/category media directories and compares every file found on disk against Magento's actual image references
- Thumbnail preview column so admins can visually confirm an image before deleting it
- Image path column showing the exact relative file path under pub/media
- Per-row Delete action and grid Mass Action “Delete” for bulk cleanup, both of which remove the physical file from disk and the corresponding grid record
- Automatically skips Magento's generated cache, watermark, and placeholder directories so resized/cached renditions are never flagged or deleted
- Dedicated ACL resources for each grid (Product Image Clean / Category Image Clean) so access can be restricted per admin role

1.2 How It Works (Technical Summary)

The module is a standard Magento 2 component (Magexweb_Imagecleaner) using composer type magento2-module and PSR-4 autoloading. It contributes:

- Two custom database tables, magexweb_imagecleaner_productimg and magexweb_imagecleaner_categoryimg, each storing an ID and the relative path of a file identified as unused
- A CategoryPageSubcategory content block injected into the native catalog_category_view layout to render the subcategory grid/list/slider under the category description

- A Helper (Helper/Data.php) containing the scan logic: listProductDirectories() / listCategoryDirectories() recursively enumerate files on disk, while compareProductImgList() / compareCategoryImgList() diff that file list against images actually in use and insert a row for every unmatched file
- “In use” product images are read from the catalog_product_entity_media_gallery and catalog_product_entity_media_gallery_value tables (the full product media gallery, not just the base image)
- “In use” category images are read from the Image attribute of every category via the standard category collection
- Admin controllers (Controller/Adminhtml/Productimg and .../Categoryimg) for Index (grid page), NewAction (triggers the scan), Delete (single-row delete + file removal), and MassDelete (bulk delete + file removal)
- Two Ui Component listings (magexweb_imagecleaner_productimg_listing.xml / _categoryimg_listing.xml) rendering the grids with a thumbnail column, an image-path column, and a delete action column

2. Requirements & Compatibility

Item	Detail
Platform	Magento Open Source / Adobe Commerce 2.x
PHP	Compatible with the PHP version(s) supported by your Magento version (verify against composer.json / module.xml constraints before deploying to production)
Dependencies	magento/module-store, magento/module-backend, magento/framework
License	GPL-3.0-or-later
Module code	Magexweb_Imagecleaner
Current version	1.0.4

3. Installation

3.1 Composer Installation (Recommended)

1. Place the extension in your project (via private Composer repository, packagist, or by copying it under app/code).

2. From the Magento root, run the following commands:

Command	Purpose
composer require magexweb/imagecleaner	Only if distributed via a Composer repository
php bin/magento module:enable Magexweb_Imagecleaner	Registers and enables the module
php bin/magento setup:upgrade	Runs the module's data patch (adds the Thumbnail Image attribute) and schema updates
php bin/magento setup:di:compile	Recommended for production mode
php bin/magento setup:static-content:deploy -f	Required in production mode
php bin/magento cache:flush	Clears Magento cache

3.2 Manual (ZIP) Installation

- Copy the Advancecategory folder to app/code/Magexweb/Imagecleaner in your Magento installation
- Run the same bin/magento commands listed in section 3.1 (module:enable, setup:upgrade, di:compile, static-content:deploy, cache:flush)
- Verify the module is active: php bin/magento module:status Magexweb_Imagecleaner

3.3 Post-Installation Checklist

- Confirm a new “Image Cleaner” item appears in the main admin menu
- Open Image Cleaner > Product Image Clean and confirm the grid loads with no errors
- Open Image Cleaner > Category Image Clean and confirm the grid loads with no errors
- Confirm your admin role has the Magexweb_Imagecleaner ACL resources enabled (System > Permissions > User Roles)

4. Admin Configuration Guide

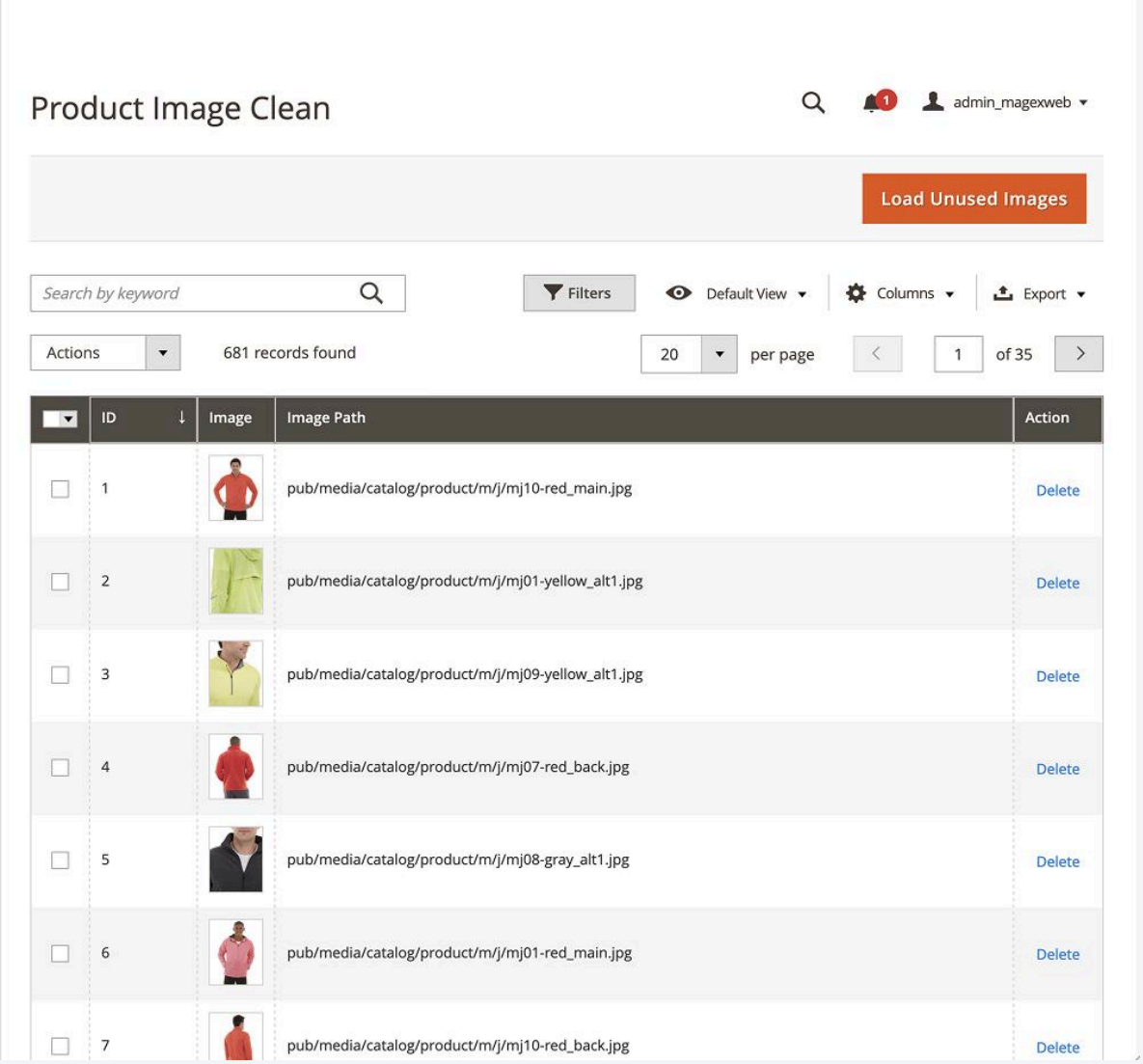
Menu Item	Admin URL segment	ACL Resource
Product Image Clean	magexweb_imagecleaner/productimg	Magexweb_Imagecleaner::productimg
Category Image Clean	magexweb_imagecleaner/categoryimg	Magexweb_Imagecleaner::categoryimg

5. Using Product Image Clean

Navigate to Image Cleaner > Product Image Clean.

5.1 Scanning for Unused Product Images

1. Click the Load Unused Images button in the page header.
2. The module recursively scans pub/media/catalog/product (excluding the cache, watermark, and placeholder subfolders).
3. Every file found on disk that does not appear in the product media gallery (catalog_product_entity_media_gallery) is added as a new row in the grid.
4. You are redirected back to the grid, which now lists the newly discovered unused files.



5.2 Grid Columns

Column	Description
ID	Internal record ID (productimg_id) for the discovered file
Image	Thumbnail preview of the file, rendered from pub/media/catalog/product + the stored path
Image Path	Full relative path of the file, shown as pub/media/catalog/product/<path>
Actions	Delete link to remove this single file

5.3 Deleting Unused Product Images

- Single delete: click Delete in the Actions column of a row, confirm the prompt — this removes both the physical file from pub/media/catalog/product and its grid record
- Bulk delete: tick the checkboxes for multiple rows (or select all), choose Actions > Delete from the mass-action toolbar, and confirm — all selected files are removed from disk and from the grid

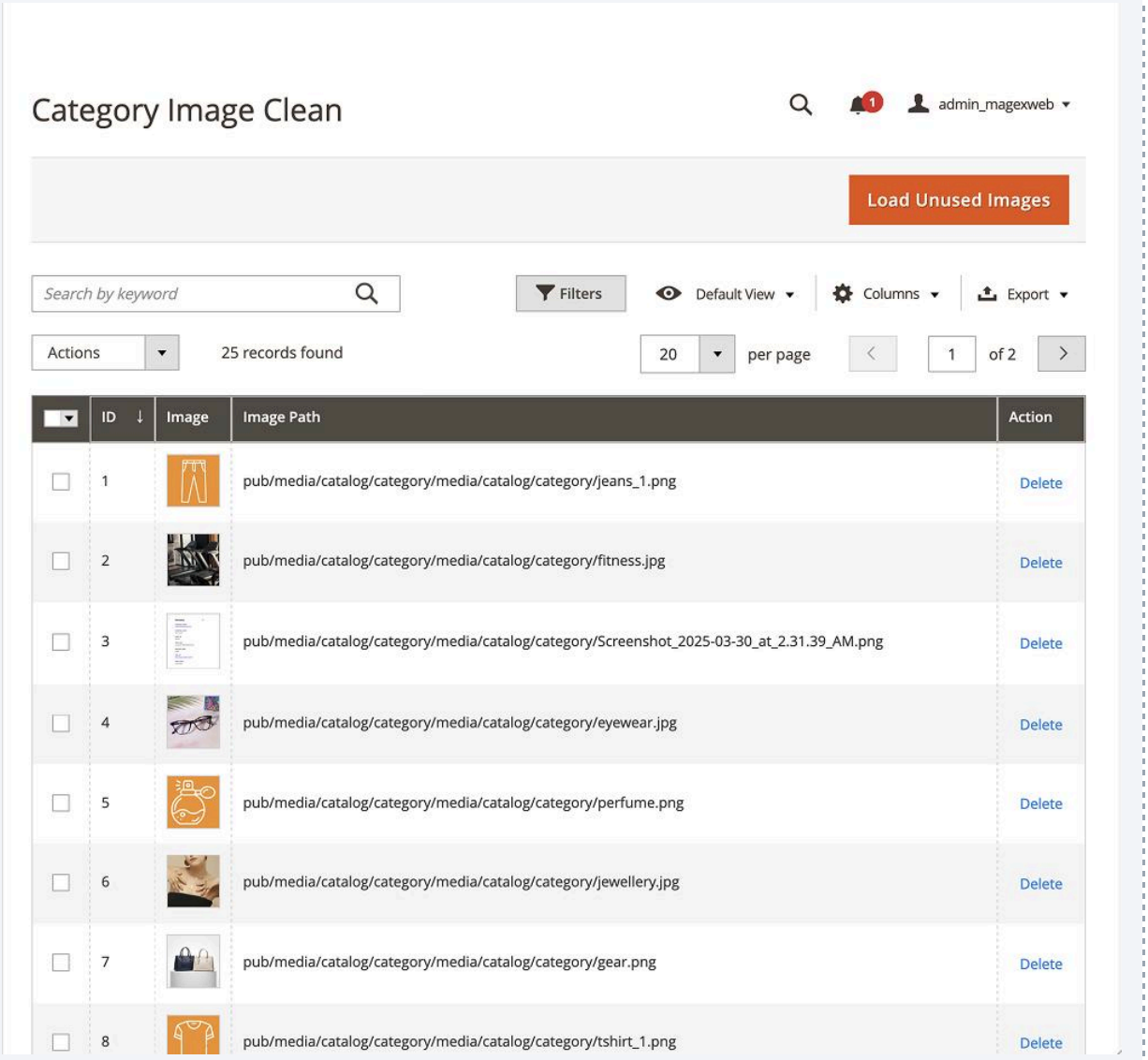
> ⚠ ***Important: Deletion is immediate and permanent — the module does not move files to a trash/recycle location or keep a backup. Always take a media backup, or review the Image Path column carefully, before running a mass delete.***

6. Using Category Image Clean

Navigate to Image Cleaner > Category Image Clean. The workflow mirrors Product Image Clean exactly, applied to pub/media/catalog/category instead.

6.1 Scanning for Unused Category Images

1. Click Load Unused Images.
2. The module recursively scans pub/media/catalog/category (excluding cache, watermark, and placeholder subfolders).
3. Every file on disk whose path does not match any category's Image attribute value is added as a new row in the grid.



6.2 Deleting Unused Category Images

- Single delete and mass delete work identically to Product Image Clean (see Section 5.3)

> ⚠ ***Important: The scan only checks each category's native Image attribute. If you also run the Advance Category module (which adds a separate Thumbnail Image field), images used exclusively as a category thumbnail will not be recognized as "in use" and may be listed here as unused. Cross-check the Image Path against Catalog > Categories > [Category] > Content > Thumbnail Image before deleting if both modules are installed together.***

7. Known Behavior & Limitations

The following are technical characteristics of the current version (1.0.4) worth knowing before relying on this module for routine cleanup:

- Scans run synchronously in the browser request when you click Load Unused Images — there is no cron/scheduled scan, and very large media directories may take noticeable time to process.
- Repeated scans do not de-duplicate: clicking Load Unused Images again without first deleting the previously found rows can insert duplicate entries for files that are still unused. Best practice is to review and clear the grid (delete or mass-delete) before re-scanning.
- Deletion is permanent and immediate; there is no built-in backup, export, or "dry run" report generated before files are removed.
- Category detection only checks the single native Image attribute per category, not per-store-view image overrides or third-party image fields (see Section 6.2).
- The module only scans local filesystem storage under pub/media; it is not aware of remote/CDN storage drivers (e.g., S3-backed media storage).
- There is no built-in filter to scope a scan to a specific date range, folder, or product/category subset — each scan always walks the entire product or category media tree.

8. Uninstallation

- php bin/magento module:disable Magexweb_Imagecleaner
- Remove the module files (composer remove magexweb/imagecleaner, or delete app/code/Magexweb/Imagecleaner)
- php bin/magento setup:upgrade && php bin/magento cache:flush

9. Troubleshooting & FAQ

Deleting Unused Category Images

- Confirm there really are orphaned files under pub/media/catalog/product or /category outside of cache/watermark/placeholder folders
- Re-run php bin/magento indexer:reindex and cache:flush, then try again

A file I need was deleted

- Restore it from your media/file backup and re-attach it to the relevant product or category if required — the module does not retain deleted files

Grid shows a broken thumbnail image

- This can happen if the file was already removed from disk (e.g., by another cleanup process) after being logged in the grid; delete the stale row to clear it

A file I need was deleted

- Restore it from your media/file backup and re-attach it to the relevant product or category if required — the module does not retain deleted files

10. Support

Item	Detail
Vendor	Magexweb
Support email	info@magexweb.com
Website	https://www.magexweb.com