

User Guide

Backup Pro for Magento 2.x — Extmag_Backup

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1 About the module

Backup Pro is a scheduled, multi-destination backup engine for Magento 2. It takes the database and the file tree on a per-hour cadence, compresses both, and uploads the archives to one or more cloud destinations — Google Drive, Microsoft OneDrive, Dropbox, Amazon S3 — alongside the local `var/backups/extmag/` directory.

Every run is recorded in an append-only log with overall status, per-storage upload status, the archive file names, the duration in seconds, and any error message. A daily cleanup job prunes log rows older than ten days; the archives themselves are pruned by the per-Set *Copies to Keep* retention knob, separately for local and each cloud destination.

1.1 What it covers

Aspect	What ships
Database backup	Compressed <code>db.sql.gz</code> produced by Magento's native backup factory.
Files backup	Compressed <code>.tgz</code> archives, auto-split into parts above 4 GB.
Exclude lists	First-level directories under Magento root; any DB table by name.
Schedule	1, 2, 3, 4, 5, 12, 18, 24, 36, 48 hours. Daily / every-2-days take time of day.
Storage	Local + multi-cloud per Set. Each storage row has its own retention.
Retention	Per-Set <code>keep_copies</code> for local and each cloud entry.
Audit log	<code>extmag_backup_log</code> — every run, overall + per-storage status, errors.
Admin permissions	Granular ACL — config, backups, storages, logs each have their own resource.
Credentials security	OAuth tokens and secrets encrypted with <code>EncryptorInterface</code> on save.

1.2 Restoration

Restoration of an archived backup is **not** automated by the module — it is a developer / DevOps task using standard Magento tooling against the `.sql.gz` and `.tgz` files produced by the backup pass. See the *Reference Manual* for the archive layout and the dump format.

2 Admin navigation

Extmag → Backup Pro menu:

Item	Purpose
Backup Sets	Sets grid + create / edit form.
Storage Sets	Cloud / S3 destination credentials.
Backup Logs	Append-only run audit grid.
Configuration	Stores → Configuration → Extmag → Backup Pro .

Each menu item has its own ACL resource (`Extmag_BackupCore::backups` , `Extmag_BackupCore::storages` , `Extmag_BackupCore::logs` , `Extmag_BackupCore::config`), so role assignment is granular. The save / delete actions under Backups and Storages are protected by separate nested resources (`backups_save` , `backups_delete` , `storages_save` , `storages_delete`).

3 Module configuration

`Stores → Configuration → Extmag → Backup Pro` is the master switch — when *Enabled* is No, the cron driver short-circuits and no Backup Set fires, regardless of the per-Set flag.

The screenshot shows the 'Configuration' page for 'Extmag Backup Pro'. The left sidebar contains a navigation menu with categories: Dashboard, Hotlinks, Sales, Catalog, Extmag, Customers, Marketing, Content, Reports, Stores, System, and Fin. & Extensions. The 'EXTMAG' category is expanded, showing sub-items: Printers, AdminWizard, Logs Manager Pro, Backup Pro (highlighted), and Prices Changer. The main content area is titled 'Configuration' and shows the 'General' tab. The 'Scope' is set to 'Default Config'. A 'Save Config' button is visible. The 'Enabled (global)' dropdown is set to 'Yes'. A blue arrow points from the 'Backup Pro' menu item to the 'Enabled (global)' dropdown.

System configuration — Extmag → Backup Pro

4 Storage Sets

A Storage Set holds the credentials and OAuth tokens for one cloud destination. Backup Sets reference Storage Sets by `storage_id` on their *Storages Configuration* fieldset, so the same Google Drive account can be shared across many Backup Sets without duplicating credentials.

Storage Set edit form — Google Drive example

4.1 Storage types

Type	Field semantics
Google Drive	OAuth — Client ID, Client Secret, Authentication Code, then refresh token.
Microsoft OneDrive	OAuth — same three fields, same flow.
Dropbox	OAuth — labels switch to <i>App Key / App Secret</i> .
Amazon S3	Static — AWS Access Key ID, Secret Access Key, region in <i>Authentication Code</i> .

The local filesystem destination does **not** require a Storage Set; it is hard-wired and selected by entering `local` in the Backup Set's *Storages Configuration* → *Storage* field.

4.2 OAuth flow (Google Drive, OneDrive, Dropbox)

1. Register the app in the provider's developer console.
2. Set the redirect URI to `https://<your-domain>/extmag_backup/token/show/`.

3. Copy the Client ID (or App Key) and Client Secret (or App Secret) into the Storage Set form.
4. Save and Continue Edit. Click *Link the account*.
5. Complete the OAuth consent in the provider's window.
6. Copy the authorization code into the **Authentication Code** field.
7. Save. The module exchanges the code for a refresh token immediately and stores it encrypted; from this point on the access token is rotated automatically.

When the refresh token is revoked (admin-side revoke, password change, long inactivity), the next backup attempt records the error in *Backup Logs* and posts an admin inbox notification. Re-link the account from the Storage Set edit form to recover.

4.3 Amazon S3 credentials

S3 uses static credentials, not OAuth.

Storage Set field	AWS meaning
Client ID / App Key	Access key id.
Client Secret	Secret access key.
Authentication Code	Region (e.g. <code>us-east-1</code> , <code>eu-central-1</code>). Defaults to <code>us-east-1</code> if empty.

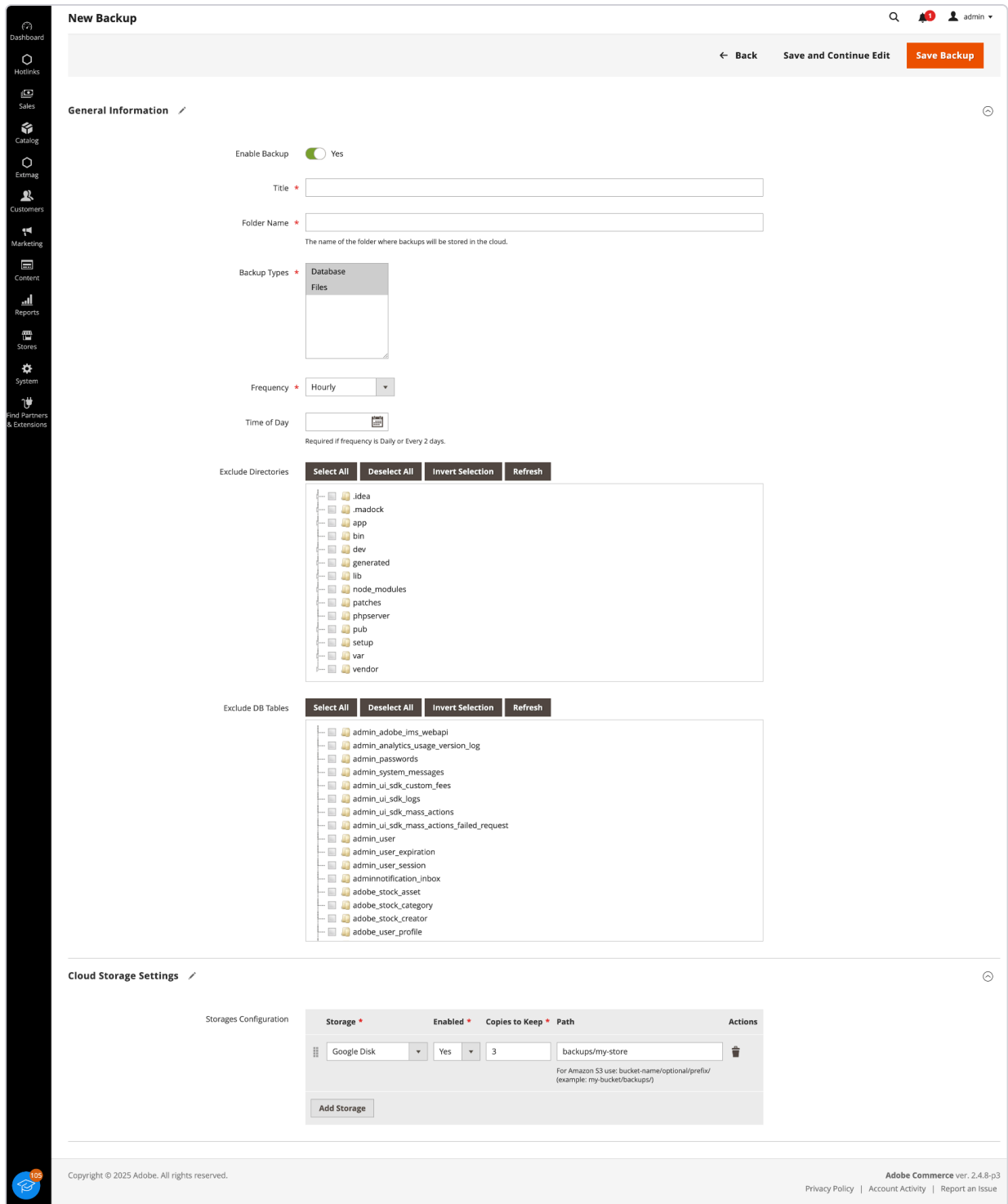
The bucket and path prefix are configured per Backup Set on the *Storages Configuration* → *Path* field — format `bucket-name/optional/prefix/`. The bucket must exist; the module does **not** create it.

4.4 Credentials at rest

`client_secret`, `oauth_refresh_token`, and `oauth_access_token` are encrypted via `Magento\Framework\Encryption\EncryptorInterface` before write and decrypted on load. Restoring a database dump from one environment into another requires the same Magento encryption key, otherwise the credentials cannot be decrypted and the operator must re-link the account.

5 Backup Sets

A Backup Set is a complete backup profile — what to back up, how often, where to send it, and how many copies to keep.



Backup Set edit form

5.1 Creating a Backup Set

Extmag → Backup Pro → Backup Sets → Create New Backup .

1. General Information

- **Enable Backup** — master switch for this Set.
- **Title** — unique. Enforced by `EXTMAG_BACKUP_TITLE_UNIQUE` .

- **Folder Name** — unique. The folder name used under `var/backups/extmag/<folder>/` and as the upload root in cloud storage. Enforced by `EXTMAG_BACKUP_FOLDER_NAME_UNIQUE`.
- **Backup Types** — multiselect: *Database*, *Files*. At least one.
- **Frequency** — 1, 2, 3, 4, 5, 12, 18, 24, 36 or 48 hours.
- **Time of Day** — required only for Frequency = Daily (24) or Every 2 days (48). The driver fires on the first hourly tick whose `H:M >= Time of Day`.
- **Exclude Directories** — first-level directories under the Magento root. Recommended excludes: `var`, `generated`, `node_modules`, `.idea`, `.git`.
- **Exclude DB Tables** — any tables that contain noise. Recommended: `*_log`, search indexes, session and cache tables.

2. Cloud Storage Settings

- One row per destination.
- **Storage** — `local` or the title of any enabled Storage Set.
- **Enabled** — per-row toggle.
- **Copies to Keep** — retention; older folders under that destination are deleted after a successful run.
- **Path** — for cloud destinations, the folder name (Drive / OneDrive / Dropbox) or `bucket-name/optional/prefix/` (S3). Local destinations ignore this field — local archives always land under `var/backups/extmag/<folder>/<timestamp>/`.

3. Save. The Set is now active; the next cron tick that satisfies the frequency window fires it.

5.2 Backup pass — what happens

1. A log row is created with `overall_status = pending` and `started_at` filled in.
2. If **Backup Types** includes *Files*, the archiver streams the Magento root into one or more `files.tgz` archives under `var/backups/extmag/<folder>/<timestamp>/files/`, honouring *Exclude Directories*. Archives over 4 GB split into multiple parts (`files.tgz.001`, ...) automatically.
3. If **Backup Types** includes *Database*, the dumper writes `db.sql.gz` to `.../<timestamp>/db/`, honouring *Exclude DB Tables*.
4. The runner enumerates every file under `<timestamp>/` and records the list in the log row.
5. The local retention sweep deletes any older `<timestamp>/` folder beyond **Copies to Keep** for the `local` row.
6. For each enabled cloud row: upload every archive to the configured Path, then sweep older remote folders beyond that row's **Copies to Keep**.

7. The log row is finalized — `overall_status` is `success` only when every storage row reported success; otherwise `failed`. `finished_at` and `duration_sec` are filled in. `files_json` lists the archive files, `storages_json` records per-row status / message.

5.3 Frequency semantics

Frequency setting	When the next pass fires
1 / 2 / 3 / 4 / 5 / 12 / 18 / 36 hours	First cron tick at or after <code>last_time + N hours</code> . Time of Day ignored.
24 (Daily)	First tick of the configured hour whose minute is at or after the configured minute, and at least 24 h have passed.
48 (Every 2 days)	Same as Daily, but the 48 h gap rule applies.

The driver only fires when both gates pass — the elapsed-time gate (`last_time + N hours`) **and** the time-of-day gate where applicable. After a successful or failed run, `last_time` is advanced to `now + frequency hours`, so the next firing window opens at that point.

5.4 Manual run

The Backup Set edit page exposes a *Create Backup* button that calls the same service as the cron driver — same log row, same retention sweep. Use it before significant store changes (theme deploys, catalog imports, version upgrades).

5.5 Storage row tips

- Put the local row first. It catches the archive even when every cloud destination fails the upload.
- Set per-cloud `Copies to Keep` independently — Drive can hold 30 daily copies cheaply, S3 can hold 365 with lifecycle policy on Glacier.
- Never set `Copies to Keep = 0`. The retention sweep then deletes the just-uploaded archive on the next pass.
- For S3, the prefix in `Path` is folder-style: keep the trailing slash.

6 Backup Logs

Extmag → Backup Pro → Backup Logs is the per-run audit grid.

Task "Image resize: /2/0/2025-06-05_10-51-52.png": 1 item(s) have been scheduled for update. [View Details](#) System Messages: 4

Backup Logs

14 records found

Filters | Default View | Columns

20 per page | 1 of 1

ID	Backup Set	Status	Started At	Finished At	Duration (sec)	Files	Storages	Error Message
1	First backup set	Failed	Nov 5, 2025 2:41:34 PM	Nov 5, 2025 2:43:03 PM	88	["files.tgz","db.sql.gz"]	[{"storage_id":"local","title":"Unknown","status":"failed","message":"Storage with id '0' does not exist."}, {"storage_id":"1","title":"Google Disk","type":"google_drive","status":"success","message":""}, {"storage_id":"3","title":"Microsoft OneDrive","type":"one_drive","status":"success","message":""}]	
2	First backup set	Success	Nov 5, 2025 2:53:27 PM	Nov 5, 2025 2:54:48 PM	81	["files.tgz","db.sql.gz"]	[{"storage_id":"1","title":"Google Disk","type":"google_drive","status":"success","message":""}, {"storage_id":"3","title":"Microsoft OneDrive","type":"one_drive","status":"success","message":""}]	
3	First backup set	Success	Nov 8, 2025 5:56:15 AM	Nov 8, 2025 5:58:53 AM	158	["files.tgz","db.sql.gz"]	[{"storage_id":"1","title":"Google Disk","type":"google_drive","status":"success","message":""}, {"storage_id":"3","title":"Microsoft OneDrive","type":"one_drive","status":"success","message":""}]	
4	First backup set	Success	Nov 8, 2025 5:59:53 AM	Nov 8, 2025 6:06:41 AM	408	["files.tgz","db.sql.gz"]	[{"storage_id":"1","title":"Google Disk","type":"google_drive","status":"success","message":""}, {"storage_id":"3","title":"Microsoft OneDrive","type":"one_drive","status":"success","message":""}]	
14	First backup set	Success	Nov 8, 2025 6:53:19 AM	Nov 8, 2025 6:54:50 AM	91	["files.tgz","db.sql.gz"]	[{"storage_id":"1","title":"Google Disk","type":"google_drive","status":"success","message":""}, {"storage_id":"3","title":"Microsoft OneDrive","type":"one_drive","status":"success","message":""}]	

Backup Logs grid

6.1 Columns

Column	Notes
ID	entity_id — primary key.
Backup Set	Snapshot of the Set title at run time. Stays readable after the Set is deleted (FK is ON DELETE SET NULL).
Status	success, failed, partial, pending.
Started At	When the runner picked up the Set.
Finished At	When the runner finalised the log row.
Duration (sec)	Wall-clock seconds.
Files	JSON list of archive filenames produced by the pass.
Storages	JSON list of {storage_id, title, type, status, message} rows — one per storage row in the Set.
Error Message	Top-level error if the entire pass failed before the storage phase.

6.2 Reading a failed Storages JSON row

The Storages column carries a JSON array of per-row statuses. A typical mixed-result row looks like:

```
[
  {"storage_id":"0","title":"Unknown","status":"failed","message":"Storage with
    id 0 does not exist."},
  {"storage_id":"1","title":"Google
    Disk","type":"google_drive","status":"success","message":""},
  {"storage_id":"3","title":"Microsoft
    OneDrive","type":"one_drive","status":"success","message":""}
]
```

`overall_status = failed` because at least one storage row did not succeed. The fix in the example above: remove the row with `storage_id = "0"` from the Set (it points at a deleted Storage Set).

6.3 Retention of log rows

The `extmag_backup_log_cleanup` cron job runs daily at 03:00 and deletes rows older than ten days, 500 at a time, to avoid table-level locks. This retention is independent of the *Copies to Keep* knob on Backup Sets — that knob governs the archive folders, not the log rows.

7 Frontend behaviour

The module has no storefront UI. The only frontend route (`extmag_backup/token/show/`) is the OAuth redirect target for cloud provider consent flows and renders the authorization code on screen for the operator to copy into the Storage Set edit form.

8 Restoring a store from a backup

Restoration is a developer / DevOps task. The module produces standard artifacts that any operator can restore with native tooling:

- `db.sql.gz` — gzip-compressed MySQL dump. Restore with `gunzip -c db.sql.gz | mysql -u <user> -p <database>`.
- `files.tgz` (or `files.tgz.001`, ...) — gzip-compressed tarball of the Magento file tree, minus the directories in *Exclude Directories*. Restore with `tar -xzf files.tgz -C <magento-root>` (concatenate split parts first: `cat files.tgz.* | tar -xz -C <magento-root>`).

After a restore, run:

```
bin/magento cache:flush
bin/magento setup:upgrade
bin/magento setup:di:compile
bin/magento indexer:reindex
```

Restoration into a different environment may also require updating `app/etc/env.php` for the new database credentials and base URL, and re-encrypting the Storage Set OAuth secrets using the destination environment's encryption key (or re-linking the cloud accounts).

9 Troubleshooting

9.1 Backup Log shows `Storages: Storage with id 0 does not exist`

The Backup Set has a *Storages Configuration* row whose Storage was deleted. Edit the Set, remove the orphan row from the table, save. The next run logs only the remaining rows.

9.2 OAuth-tied backup fails after weeks of success

The provider's refresh token was revoked or expired. An admin inbox notification posts on the next failed pass. Re-link the account from the Storage Set edit form. Existing archives in cloud storage are preserved.

9.3 Files archive exceeds 4 GB and one part fails to upload

Each part is uploaded as a separate file. The failed part is logged in *Storages* JSON. A retry on the next pass uploads a fresh full archive. For very large file trees, exclude `pub/media/catalog/product/cache/`, `pub/static/`, `var/cache/`, `var/log/`, `var/page_cache/`, `var/session/`, `var/view_preprocessed/` from *Exclude Directories* — those are reproducible from source assets.

9.4 `var/backups/extmag/` fills the disk

Lower *Copies to Keep* on the `local` row, or remove the `local` row entirely and rely on cloud destinations. The local row primarily exists as a safety net for runs where every cloud destination fails.

9.5 `Frequency = Hourly` but the job fires every 2 hours

The system cron runs every minute, but the Magento cron group has its own schedule. Check `bin/magento cron:status` and inspect the `default` group in `crontab.xml` (Magento's own per-group throttling can defer ticks). Also confirm the Set's `last_time` is moving forward each pass — a stuck `last_time` indicates the runner is failing before it can persist the update.

9.6 Admin menu *Backup Pro* is missing

- `bin/magento module:status | grep Extmag` — both modules enabled.
- `bin/magento cache:flush` and reload the admin.
- The admin user must hold either `Extmag_BackupCore::backups`, `Extmag_BackupCore::storages`, `Extmag_BackupCore::logs`, or `Extmag_BackupCore::config` — the parent menu item is hidden when no child resource is granted.

9.7 Notification: *Dropbox / Google Drive / OneDrive system message*

The relevant Storage Set has `oauth_error_notify_mess` populated. Open the Storage Set, re-link the account, save. The notification clears on the next successful authenticated call.