Exponential Basic and Exponential 6

Moving a site between Exponential Basic 2.4 (the modernized classic 2.x CMS) and Exponential 6 - two different code bases and data models, so the content is converted by script - with the Basic tables, the article…

Source file: `doc/eng-us/install/migration/exponential-basic.md` Last changed 2026-11-04
https://doc.exponential.earth/learninminutes/exphelp/viewer/install/migration/exponential-basic.md

Exponential Basic (`se7enxweb/exponentialbasic`, latest release `v2.4.0.3` of 2026-08-18) modernizes the classic Exponential **2.x** CMS for PHP 8 (`php ^8.2`). It has its own kernel modules (`ezarticle`, `ezimagecatalogue`, `ezfilemanager`, `ezforum`, `eztrade`, `ezcalendar`, `ezpoll`, `ezlink`, `ezurltranslator`, `ezuser` and others) on its own tables. Its README calls one of its aims "future portability (export to another cms)".

Exponential 6 is a different code base with a different content model (classes, objects, a content tree). There is no shared database and no converter between the two in either repository; a migration is a **scripted content conversion**. This page tells you where the data is and how it maps.

Migration hub · Checklist · Import and export tools · Mapping content to Exponential

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1. What Basic can give you

Read from the `main` branch of `se7enxweb/exponentialbasic`:

Source	What it is	Use
The database	tables per module, defined in `kernel/<module>/sql/<engine>/<module>.sql` (MySQL, PostgreSQL, SQLite, Informix)	the main source: read it with SQL
`bin/shell/php/ezpcsvimport.php`	a CSV utility class (any separator, quoted values, multi-line fields)	a helper if you write the export in Basic itself
RSS of articles (`kernel/ezarticle/user/articlelistrss.php`)	an RSS list of articles	only the newest items; not a full export

Source	What it is	Use
XML-RPC (`index_xmlrpc.php`, `kernel/<module>/xmlrpc/`)	article, category, image and file services	remote reading; check what each call returns before relying on it
The article "export" view (`kernel/ezarticle/admin/export.php`)	a print/typesetting output	not a data export
Storage directories (`ezimagecatalogue/catalogue/`, the file manager's files)	the image and file originals	copy them with the export

The tables that matter for most sites:

Table	Holds
`eZArticle_Article`	articles: `ID`, `Name`, `Contents` (the article markup), `AuthorID`, `Created`, `Modified`, `Published`, `IsPublished`, `Keywords`, `TopicID`, `StartDate`, `StopDate`, `ImportID`
`eZArticle_Category`, `eZArticle_ArticleCategoryLink`, `eZArticle_ArticleCategoryDefinition`	the category tree, an article's categories and its main category
`eZArticle_ArticleImageLink`, `eZArticle_ArticleFileLink`, `eZArticle_ArticleMediaLink`	an article's images, files and media
`eZArticle_Attribute`, `eZArticle_AttributeValue`, `eZArticle_Type`	article types with extra attributes
`eZImageCatalogue_Image`, `eZImageCatalogue_Category`, `eZImageCatalogue_ImageCategoryLink`	the image library
`eZUser_User`, `eZUser_Group`, `eZUser_UserGroupLink`, `eZUser_Author`	accounts, groups, authors
`eZURLTranslator_URL`	the site's own URL translations (old addresses)
`eZArticle_ArticlePermission`, `eZArticle_CategoryPermission`	read and write rights per group

The article markup. `Contents` holds an XML document written by a generator, for example the "tech" generator (`kernel/ezarticle/classes/eztechgenerator.php`): `<article><generator>tech</generator><intro>...</intro><body><page>...</page></body></article>`, with inline tags such as `<bold>`, `<italic>`, `<underline>`, `<strike>` and image references. Other generators exist (`ezsimplegenerator.php`, `ezezgenerator.php`, `ezqdomgenerator.php`); read the `<generator>` element of each article and convert per generator.

2. Mapping Basic to Exponential 6

Basic	Exponential 6
Article (`eZArticle_Article`)	an `article` class: `title` (`ezstring`) from `Name`, `intro` and `body` (`ezxmltext`) from `<intro>` and `<body>`

Basic	Exponential 6
Article pages (<page>)	one body with headings, or child objects per page when the pages are long
Article type with attributes	a class per type, one attribute per `eZArticle_Attribute`
Category tree	folders in the content tree; main category = main location, others = extra locations
Keywords	`ezkeyword` or `eztags`
Topic	`eztags`, or an object relation to topic objects
`Published`, `Created`, `Modified` (Unix timestamps)	the object's `published` and `modified`
`StartDate`, `StopDate`	publish and hide by date with workflow or cron, or plain `ezdatetime` attributes
Image catalogue image	an `image` object below a media folder; article image links become relations or embeds
File manager file	a `file` object
Forum, poll, calendar, trade	each needs its own decision: Exponential has no forum or poll in the kernel; the shop is the kernel's own; archive what you do not move
`eZUser_User`	a `user` object in user groups; `FirstName`, `LastName`, `Email`, `Login`
Group permissions	roles with policies limited by section or subtree
`eZURLTranslator_URL` and old article addresses	redirecting URL aliases or wildcards (checklist, 4)

Passwords. `kernel/ezuser/classes/ezuser.php` of Basic stores either MySQL's `PASSWORD()` format (`'*' . strtoupper( sha1( hex2bin( sha1( $password ) ) ) )`) or `md5( $password )`, depending on the database. Exponential 6 knows `md5_password` (type 1, `md5( password )`) and `mysql` (type 4, computed with the SQL function `PASSWORD()`, which MySQL 8.0 removed). So:

- MD5 hashes from Basic can be imported as type 1; Exponential re-hashes them to type 7 at the next sign-in.
- `PASSWORD()` hashes work as type 4 only while the Exponential site runs on a database server that still has `PASSWORD()` (MariaDB does; MySQL 8.0 does not). Otherwise plan password resets.

Test both on a copy before you promise users that their passwords carry over.

3. From Basic to Exponential 6, step by step

1. **Inventory** the modules in use and count rows per table; list the article generators in use (`SELECT ... FROM eZArticle_Article` and read the `<generator>` element).
2. **Install Exponential 6** and create the classes of 2 (keep their identifiers stable), the folders of the category tree, the languages, sections and roles.
3. **Export from Basic**: a script that reads the tables (SQL against a copy of the Basic database) and writes one JSON or CSV row per item, with the source id, the parent category, the converted body and the old address.

4. **Convert the article markup** to Exponential's simplified input (`<p>`, `<strong>`, `<em>`, `<a href>`, `<h1>`-`<h6>`, lists, tables): `<bold>` to `<strong>`, `<italic>` to `<em>`, image references to embeds of the image objects created in step 5.
5. **Import media first** (image catalogue and files), with remote ids such as `basic-image-<ID>`; the upload page's ZIP importer or an import script.
6. **Import the articles** with remote ids `basic-article-<ID>`: xrowextract's importer with `--map` when your export is CSV/JSON in its shape, or the script skeleton.
7. **Import users** into their groups (hash types as in 2).
8. **Addresses**: for every old address (from `eZURLTranslator_URL` and the module URLs such as `/article/view/<ID>/` and `/article/articleview/<ID>/`, `kernel/ezarticle/user/datasupplier.php`), a redirecting custom URL alias on the new node, or a wildcard.
9. **Rebuild** the search index and URL aliases; run the link checker and `exp:contentcheck`.
10. **Rehearse** twice, then cut over (checklist).

4. From Exponential 6 to Basic

Basic's model is narrower (articles, image catalogue, files, users). Export from Exponential with xrowextract (leaving Exponential): one CSV/JSON per class, with object id, main node, parent node, URL alias and every attribute; convert XmlText to Basic's article markup in a script, and insert into the Basic tables through Basic's own classes (or SQL on a copy, then checked in Basic's admin). Classes that have no Basic module stay behind or become articles. Password hashes of type 7 (`password_hash()`) are not read by Basic's login code as shown above: plan resets.

5. Verify, roll back, risks

- Counts per module and category before, per class and folder after; a sample of the 50 most read articles side by side; every image of those articles visible; every old address answers 301 to the right page.
- Rollback: Basic keeps running read-only until sign-off; switching back is a DNS or proxy change.

Risk	Counter-measure
Unknown article generators	list them first; convert per generator; test each
Images referenced inside the markup	import media first, map ids to new objects
Forums, polls, shop data	decide per module: move, replace, or archive
Passwords	test both hash formats; plan resets
Old addresses	build the redirect table from the export, test it automatically

6. Checklist

☐ Modules, tables and article generators inventoried.

☐ Classes, tree, languages, sections and roles created in Exponential 6.

☐ Export script reads a copy of the Basic database; markup converted and checked.

☐ Media, then articles, then users imported, with remote ids; relations resolved.

☐ Password strategy tested; users informed.

☐ Redirects for every old address; search and aliases rebuilt.

☐ Two rehearsals, then cut-over; Basic kept read-only until sign-off.

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