CLI scripts and ezexec for integrations

Running integration code on the Exponential server from the command line - quick scripts with bin/php/ezexec.php, proper commands with eZScript in your extension, how the console finds them, siteaccess and user, exit...

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This page is for integration developers whose code runs **on the Exponential server**: imports, exports, repairs, one-off migrations. On the command line the whole PHP API is available, there is no request timeout, and the run can be scheduled, logged and monitored. Two ways exist: `bin/php/ezexec.php` for a quick script, and a command of your extension for anything you keep.

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ezexec: a quick script with the kernel loaded

`php bin/php/ezexec.php <script.php>` does the bootstrap (settings, database, extensions, modules) and then includes your file. The script finds `$cli` (an `eZCLI`) and `$script` (an `eZScript`) ready to use:

PHP

```php
<?php
// var/tmp/count_imported.php: how many objects carry our remote id prefix?
$db = eZDB::instance();
$rows = $db->arrayQuery( "SELECT COUNT(*) AS n FROM ezcontentobject WHERE remote_id LIKE 'erp-pro
duct-%'" );
$cli->output( 'Imported products: ' . (int)$rows[0]['n'] );
```

Shell

```
php bin/php/ezexec.php var/tmp/count_imported.php -s <siteaccess>
```

If the included file returns something other than `1` (a plain file returns `1`), the exit code is `1`. Use `ezexec` for inspection and one-off fixes; anything that runs twice belongs in your extension as a command.

A command in your extension

The console (`bin/php/console`) finds scripts at run time: `extension/<ext>/bin/php/<name>.php` becomes the command `ext:<ext>:<name>`, with the one-line description taken from the `@description` tag of the first docblock.

PHP

```php
#!/usr/bin/env php
<?php
/**
 * @description Import products from the ERP export file (--file, --dry-run)
 */
require_once 'autoload.php';

$cli = eZCLI::instance();
$script = eZScript::instance( array( 'description' => "Import products from the ERP export file.\
n",
                                     'use-session' => false,
                                     'use-modules' => true,
                                     'use-extensions' => true ) );
$script->startup();
$options = $script->getOptions( '[file:][dry-run]', '',
                                array( 'file' => 'The export file to read',
                                       'dry-run' => 'Report what would change, change nothing' )
);
$script->initialize();

if ( !$options['file'] || !is_readable( $options['file'] ) )
{
    $cli->error( 'Give a readable --file' );
    $script->shutdown( 1 );
}

$importer = new myIntegrationProductImport( $cli, (bool)$options['dry-run'] );
$ok = $importer->run( $options['file'] );

$script->shutdown( $ok ? 0 : 1 );
```

Save it as `extension/myintegration/bin/php/importproducts.php`, make it executable, and run it:

Shell

```shell
php bin/php/console ext:myintegration:importproducts --file=var/import/products.csv --dry-run -s
<siteaccess>
php extension/myintegration/bin/php/importproducts.php --help
```

Keep the work in a class (`myIntegrationProductImport` above) so the same code runs from the command, a cronjob part and a test. The body of such an importer is on Writing an import script.

Siteaccess, user and environment

Topic	What to do
Siteaccess	Pass `-s <siteaccess>`; settings of that siteaccess and its access extensions apply. Without it, `DefaultAccess` is used
User	A script runs as the anonymous user until you make another user current with `eZUser::setCurrentlyLoggedInUser( $user, $user->attribute( 'contentobject_id' ) )`; use a service account (how)
Operating system user	Run as the user the web server runs as; files written as root may not be writable by the site afterwards. As root, scripts refuse to run unless `--allow-root-user` is given

Topic	What to do
Credentials of the other system	Read them from the environment or from your extension's INI in `settings/override`, never from the command line, where they end up in the shell history and the process list
Debug output	`-d` prints the debug output at the end; `--logfiles` writes log files

Exit codes, dry runs and output

- Exit `0` on success and non-zero on failure, so cron, deployments and monitoring can react.
- Offer `--dry-run` for every script that changes data, and say what would change.
- Respect `-q`: `$cli->output()` prints nothing with it; use `$cli->error()` for errors, which always print.
- For long loops, show progress with `$script->resetIteration( $total )` and `$script->iterate( $cli, $status, $text )`.
- Never print passwords, keys or personal data; mask them.

Commands that ship with Exponential and help integrations

Command	Use in an integration
`php bin/php/ezcsvimport.php --class=<class> <node> <file>`	Import objects of one class from CSV (`--creator`, `--storage-dir`)
`php bin/php/ezcsvexport.php --storage-dir=<dir> <node>`	Export a subtree to one CSV file per class
`php bin/php/updatesearchindex.php`	Rebuild the search index after a bulk change
`php bin/php/ezcache.php --clear-id=<ids>`	Clear caches after a bulk change (which)
`php bin/php/expcontentjob.php list`	Run, list, resume and cancel content jobs (large removes, copies, moves)
`php bin/php/ezsubtreeremove.php --apply`	Remove subtrees by node id, to the trash unless `--ignore-trash`
`php bin/php/console exp:logs`	Search and follow the log files
`php bin/php/console exp:audit tail`	Read the audit trail
`php bin/php/maintenance.php on|off|status`	Take the site offline for a migration window

`php bin/php/console list` shows every command of the installation.

Related pages

- CLI scripts and console commands
- eZScript and eZCLI
- Exponential Console
- Cronjobs for integrations
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