

# Legacy code and features

eZ Publish 5.2 has a strong focus on backwards compatibility and thus lets you reuse code you might have written for 4.x, including templates and modules.

## Hint

Read [Intro for eZ Publish 4.x/3.x developers](#) to have an overview of common concepts and terminology changes.

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## Legacy Mode

Legacy mode is a specific configuration mode where eZ Publish's behavior is the closest to v4.x. It might be used in some very specific use cases, such as **running the admin interface**.

### What it does

- **Still runs through the whole Symfony kernel.** As such, Symfony services can still be accessed from legacy stack.
- **Disables the default router** (standard Symfony routes won't work in this mode)
- **Disables the UriAliasRouter.** As such, the **ViewController will be bypassed**.

### What it doesn't do

- **Increase performance.** Legacy mode is actually **painful for performances** since it won't use the HttpCache mechanism.

In a migration context, **using Legacy Mode is never a good option** as it prevents all the performance goodness (e.g. Http Cache) to work. Always keep in mind that, **not running in legacy mode, if a content still doesn't have a corresponding Twig template/controller, eZ Publish will always fallback to the legacy kernel, looking for a legacy template.**

## Allowing Symfony routes to work

As of eZ Publish 5.2, **Symfony routes are also disabled in legacy mode**, which implies admin interface as well.

If for some reason you need a Symfony route to work, you add it to a whitelist :

```
ezpublish:
  router:
    default_router:
      # Routes that are allowed when legacy_mode is true.
      # Must be routes identifiers (e.g. "my_route_name").
      # Can be a prefix, so that all routes beginning with given prefix will be
      taken into account.
      legacy_aware_routes: ["my_route_name", "my_route_prefix_"]
```

By default, `_ezpublishLegacyTreeMenu` and all REST v2 (`ezpublish_rest_` prefix) routes are allowed.

## Legacy Template inclusion

It is possible to include old templates (.tpl) into new ones.

### Include a legacy template using the old template override mechanism

```
{# Twig template #}
{# Following code will include my/old_template.tpl, exposing $someVar variable in it
#}
{% include "design:my/old_template.tpl" with {"someVar": "someValue"} %}
```

Or if you want to **include a legacy template by its path**, relative to `ezpublish_legacy` folder:

### eZ Publish 5.1+

```
{# Following code will include
ezpublish_legacyextension/my_legacy_extension/design/standard/templates/my_old_templat
e.tpl, exposing $someVar variable in it #}
{% include
"file:extension/my_legacy_extension/design/standard/templates/my_old_template.tpl"
with {"someVar": "someValue"} %}
```

## Template parameters

Scalar and array parameters are passed to a legacy template *as-is*.

Objects, however, are being converted in order to comply the legacy [eZ Template API](#). By default a [generic adapter](#) is used, exposing all public properties and getters. You can define your own converter by implementing [the appropriate interface](#) and declare it as a service with the `ezpublish_legacy.templating.converter` tag.

Content / Location objects from the Public API are converted into `eZContentObject/eZContentObjectTreeNode` objects (re-fetched).

## Running legacy code

eZ Publish 5 still relies on the legacy kernel (from 4.x) and runs it when needed **inside an isolated PHP closure**, making it **sandboxed**. This is available for your use as well making it possible to run some PHP code inside that sandbox through the `runCallback()` method.

## Simple legacy code example

```
<?php
// Declare use statements for the classes you may need
use eZINI;

// Inside a controller extending eZ\Bundle\EzPublishCoreBundle\Controller
$settingName = 'MySetting';
$test = array( 'oneValue', 'anotherValue' );
$myLegacySetting = $this->getLegacyKernel()->runCallback(
    function () use ( $settingName, $test )
    {
        // Here you can reuse $settingName and $test variables inside the legacy
context
        $ini = eZINI::instance( 'someconfig.ini' );
        return $ini->variable( 'SomeSection', $settingName );
    }
);
```

The example above is very simple and naive - in fact for accessing configuration settings from the Legacy Stack using the [ConfigResolver](#) is recommended.

Using the legacy closure, you'll be able to even run complex legacy features, like an **eZ Find search**:

## Using eZ Find

```
use eZFunctionHandler;

$searchPhrase = 'My search phrase';
$sort = array(
    'score' => 'desc',
    'published' => 'desc'
);
$contentTypeIdentifiers = array( 'folder', 'article' );
$mySearchResults = $this->getLegacyKernel()->runCallback(
    function () use ( $searchPhrase, $sort, $contentTypeIdentifiers )
    {
        // eZFunctionHandler::execute is the equivalent for a legacy template fetch
function
        // The following is the same than fetch( 'ezfind', 'search', hash(...) )
        return eZFunctionHandler::execute(
            'ezfind',
            'search',
            array(
                'query' => $searchPhrase,
                'sort_by' => $sort,
                'class_id' => $contentTypeIdentifiers
            )
        );
    }
);
```

## Legacy modules

## Routing fallback & sub-requests

Any route that is not declared in eZ Publish 5 in an included `routing.yml` and that is not a valid *UriAlias* **will automatically fallback to eZ Publish legacy** (including admin interface).

**This allows all your old modules to work as before**, out-of-the-box (including kernel modules), and also allows you to reuse this code from your templates using sub requests:

### Template legacy module sub-request

```
{{ render( url( 'ez_legacy', { 'module_uri': '/content/view/sitemap/2' } ) ) }}
```

## Using eZ Publish 5 and Symfony features in Legacy

If for some reason you need to develop a legacy module and access to eZ Publish 5 / Symfony features (i.e. when developing an extension for admin interface), you'll be happy to know that you actually have access to all services registered in the whole framework, including bundles, through the service container.

The example below shows how to retrieve the content repository and the logger.

### Retrieve services from the container

```
// From a legacy module or any PHP code running in legacy context.
$container = ezpKernel::instance()->getServiceContainer();

/** @var $repository \eZ\Publish\API\Repository\Repository */
$repository = $container->get( 'ezpublish.api.repository' );
/** @var $logger
\Symfony\Component\HttpKernel\Log\LoggerInterface|\Psr\Log\LoggerInterface */
// PSR LoggerInterface is used in eZ Publish 5.1 / Symfony 2.2
$logger = $container->get( 'logger' );
```

#### Tip

The example above works in legacy modules and CLI scripts

## Running legacy scripts and cronjobs

Note: This feature has been introduced in eZ Publish 5.1.

#### Important

##### Running legacy scripts and cronjobs through the Symfony stack is highly recommended !

Otherwise, features from the Symfony stack cannot be used (i.e. HTTP cache purge) and cache clearing. NB: Some script we know won't affect cache, are still documented to be executed the direct way.

Legacy scripts can be executed from the Symfony CLI, by using the `ezpublish:legacy:script` command, specifying the path to the script as argument.

The command will need to be executed from eZ Publish's 5 root, and the path to the desired script must exist in the `ezpublish_legacy` folder. Here's a usage example:

```
php ezipublish/console --env=prod ezipublish:legacy:script
bin/php/ezpgenerateautoloads.php
```

Here we made sure to specify `--env=prod`, this is needed for all legacy scripts that clear cache, otherwise they will clear dev environment cache instead of prod for Symfony stack.

### Options and arguments

Always pass the legacy script options and arguments **AFTER** script path, otherwise they will be lost.

## Script help

If you want to access the script's help please be aware that you will need to use the newly introduced `--legacy-help` option, since `--help` is already reserved for the CLI help.

The `--legacy-help` option should be added before the path to the script for this to work.

Here's an example:

```
php ezipublish/console --env=prod ezipublish:legacy:script --legacy-help
bin/php/ezpgenerateautoloads.php
```

The same logic will apply for cronjob execution.

Legacy cronjobs are triggered by the `runcronjobs.php` legacy script, which expects the name of the cronjob to run as a parameter.

This is how you can run cronjobs from the Symfony CLI:

```
php ezipublish/console --env=prod ezipublish:legacy:script runcronjobs.php
frequent
```

Also, if you require using additional script options, please be sure to use the long name, such as `--siteaccess` or `--debug` to avoid conflicts between script and CLI options.

For more details regarding legacy cronjobs execution please refer to the [Running cronjobs](#) chapter existing in `doc.ez.no`.