

Managing Projects Using Drupal 8's Configuration Management System

Presented in **Technicolor** by

Matt Cheney
matt@pantheon.io

This session is brought to you by G0VC0N & the Drupal 8 CMS



In the beginning....

Drupal 8 Will Have Something for Everyone to Love

With more than 200 new features and improvements, the upcoming release of the world's leading open source web content management platform will win you over.

Drupal 8 beta has been released

[Read the release notes](#)



Why You Will Love Drupal 8

Drupal 8 will set a new standard for ease of use, while offering countless new ways to tailor and deploy your content to the Web. Easily customize data structures, listings, and pages, and take advantage of new capabilities for displaying data on mobile devices, building APIs, and adapting to multilingual needs.

With a leaner and meaner core, easier migration process from earlier versions, in-place content editing tools and loads more power for modules and themes thanks to a modern Object Oriented Programming (OOP) approach on the backend, there is something for everyone to love in Drupal 8. **When will it be released?** [See the FAQ](#).

Drupal 8 Critical Countdown

Drupal 8 enters release candidate phase once there are zero critical issues.

32 critical issues remaining

Read more about [how to help Drupal 8](#)

What makes Drupal 8 great

[Check out the Drupal 8 overview](#)

Drupal 8 for developers

[Modern OOP Approach, Built-in Web Services & More](#)

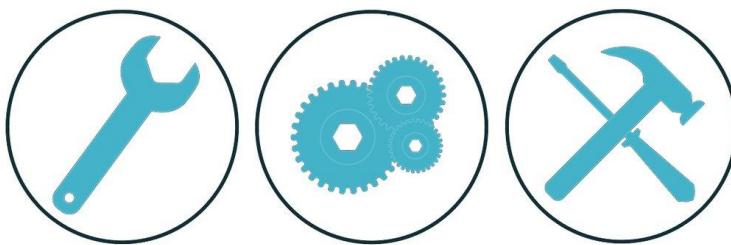
Drupal 8 for sitebuilders

[Powerful Content Customization Features, Simpler Config Tools](#)

Configuration



Content



- Content Types
- Image Styles
- Fields
- Views
- Settings

- Nodes
- Users
- Comments
- Menu Items
- Taxonomy Terms



The Problem Is That Drupal Doesn't Care

```
MariaDB [pantheon]> show tables;
+-----+-----+
| Tables_in_pantheon | field_config_instance | queue |
| _pantheon_heartbeat | field_data_body       | rdf_mapping |
| actions            | field_data_comment_body | registry |
| authmap            | field_data_field_image | registry_file |
| batch              | field_data_field_tags | role |
| block               | field_revision_body   | role_permission |
| block_custom        | field_revision_comment_body | search_dataset |
| block_node_type     | field_revision_field_image | search_index |
| block_role          | field_revision_field_tags | search_node_links |
| blocked_ips         | file_managed          | search_total |
| cache               | file_usage             | semaphore |
| cache_block         | filter                 | sequences |
| cache_bootstrap     | filter_format          | sessions |
| cache_field         | flood                  | shortcut_set |
| cache_filter        | history                | shortcut_set_users |
| cache_form          | image_effects          | system |
| cache_image         | image_styles           | taxonomy_index |
| cache_menu          | menu_custom            | taxonomy_term_data |
| cache_page          | menu_links              | taxonomy_term_hierarchy |
| cache_path          | menu_router             | taxonomy_vocabulary |
| cache_update         | node                   | url_alias |
| comment             | node_access             | users |
| date_format_locale  | node_comment_statistics | users_roles |
| date_format_type    | node_revision           | variable |
| date_formats        | node_type               | watchdog |
| field_config         +-----+
| queue
| rdf_mapping
| registry
| registry_file
| role
| role_permission
| search_dataset
| search_index
| search_node_links
| search_total
| semaphore
| sequences
| sessions
| shortcut_set
| shortcut_set_users
| system
| taxonomy_index
| taxonomy_term_data
| taxonomy_term_hierarchy
| taxonomy_vocabulary
| url_alias
| users
| users_roles
| variable
| watchdog
+-----+
75 rows in set (0.00 sec)
```

The World Until Yesterday

```
/**  
 * Setup default config for 'manualcrop' on the Media browser.  
 */  
function panopoly_images_update_7102() {  
variable_set('manualcrop_file_entity_settings_image', array(  
  'manualcrop_enable' => $focal_point_enabled ? 0 : 1,  
  'manualcrop_keyboard' => 1,  
  'manualcrop_thumblist' => 0,  
  'manualcrop_inline_crop' => 0,  
  'manualcrop_crop_info' => 1,  
  'manualcrop_instant_preview' => 1,  
  'manualcrop_instant_crop' => 0,  
  'manualcrop_default_crop_area' => 0,  
  'manualcrop_maximize_default_crop_area' => 0,  
  'manualcrop_styles_mode' => 'include',  
  'manualcrop_styles_list' => array(  
    'panopoly_image_full' => 'panopoly_image_full',  
  ),  
  'manualcrop_require_cropping' => array(),  
);  
}  
}
```

hook_update_n()

COMPONENTS

Expand each component section and select which items should be included in this feature export.

Filter Select all

CONTENT TYPES (node)

CONTEXT (context)

DEPENDENCIES (dependencies)
 Chaos tools Features Image Node Reference Taxonomy Remote Images

FIELDGROUP (field_group)

FIELDS (field)
 node-article-body node-article-field_tags node-article-field_image
 node-article-field_summary node-article-field_reference

IMAGE STYLES (image)

LANGUAGES (language)

MENU LINKS (menu_links)

MENUS (menu_custom)

PERMISSIONS (user_permission)

ROLES (user_role)

STRONGARM (variable)

features.module

Sins of the Father



- Features Module is **not** intended to be the solution for storing your Drupal configuration in code.
- Status as a *contrib project* limited its ability to be a fully integrated solution for all ones Drupal development needs.
- Variety of technical limitations around support for unique identifiers, ability to deal with state, constantly changing data structures, less than comprehensive support for contrib.



**“Today is a good day to start putting
all of our config in code.”**

– Greg Dunlap (rumoured) in March 2011

Drupal 8 CMI: Maximizing P.I.E.



- Proudly Invented Elsewhere (P.I.E.)
 - Use what's already implemented, tested, familiar
 - We're not any smarter than most people who have worked on the problem before
- Pre-Symfony P.I.E.
 - No custom format and parser (unlike .info files)
 - Initially chose XML
 - Built-in parsing support
 - Consistent UTF-8 for i18n support
 - Support for comments
- Post-Symfony P.I.E.
 - Switched to Symfony YAML parser
 - Considered Config library, but no GUI support

A large, ornate brass bell with a chain hangs from a building with a glass facade. The bell is dark and polished, reflecting the surrounding environment. The building behind it has a modern design with many windows and a curved glass roof. The sky is overcast.

Now it is YAML Time!

The screenshot shows the Drupal 8 Configuration page under the System section. The top navigation bar includes links for Back to site, Manage, Shortcuts, and admin. Below the navigation is a horizontal menu with icons for Content, Structure, Appearance, Extend, Configuration, People, Reports, and Help.

The main content area is titled "Site information" with a star icon. The breadcrumb navigation shows Home > Administration > Configuration > System.

The configuration page is divided into sections:

- SITE DETAILS**:
 - Site name ***: Drupal 8 CMI Demo
 - Slogan**: (empty input field)
 - How this is used depends on your site's theme.
 - Email address ***: matt@getpantheon.com
 - The *From* address in automated emails sent during registration and new password requests, and other notifications. (Use an address ending in your site's domain to help prevent this email being flagged as spam.)
- FRONT PAGE**:
 - Default front page**: http://dev-my-great-drupalcon-la-site.pantheon.io/ node
 - Optionally, specify a relative URL to display as the front page. Leave blank to display the default front page.
- ERROR PAGES**:
 - Default 403 (access denied) page**: http://dev-my-great-drupalcon-la-site.pantheon.io/ (empty input field)
 - This page is displayed when the requested document is denied to the current user. Leave blank to display a generic "access denied" page.
 - Default 404 (not found) page**: http://dev-my-great-drupalcon-la-site.pantheon.io/ (empty input field)
 - This page is displayed when no other content matches the requested document. Leave blank to display a generic "page not found" page.

A blue "Save configuration" button is located at the bottom left of the configuration form.

admin/config/system/site-information

```
uuid: f3cf1bea-b55c-4de5-9a07-7ca6d97bf1af
name: 'Drupal 8 CMI Demo'
mail: matt@getpantheon.com
slogan: ''
page:
  403: ''
  404: ''
  front: node
admin(compact_mode: false
weight_select_max: 100
langcode: en
```

system.site.yml

```
uuid: 27e09a2e-a781-4a58-a728-4058b478dcd7
langcode: en
status: true
dependencies:
  module:
    - menu_ui
name: Blog
type: blog
description: 'A message to your fans and followers.'
help: ''
new_revision: false
preview_mode: 1
display_submitted: true
third_party_settings:
  menu_ui:
    available_menus:
      - main
    parent: 'main:'
node.type.blog.yml (END)
```

```
uuid: 1fa5900a-8c01-46dd-bb00-cd5770d59140
langcode: en
status: true
dependencies:
  entity:
    - field.storage.node.body
    - node.type.blog
id: node.blog.body
field_name: body
entity_type: node
bundle: blog
label: Body
description: ''
required: false
translatable: true
default_value: { }
default_value_function: ''
settings:
  display_summary: true
third_party_settings: { }
field_type: text_with_summary
field.instance.node.blog.body.yml (END)
```

node.type.blog.yml + field.instance.node.blog.body.yml

README.txt
block.block.bartik_content.yml
block.block.bartik_login.yml
block.block.bartik_powered.yml
block.block.seven_breadcrumbs.yml
block.block.seven_login.yml
comment.type.comment.yml
contact.settings.yml
core.date_format.html_date.yml
core.date_format.html_time.yml
core.date_format.html_yearless_date.yml
core.date_format.short.yml
core.entity_form_display.node.article.default.yml
core.entity_form_mode.user.register.yml
core.entity_view_display.node.article.default.yml
core.entity_view_display.node.page.default.yml
core.entity_view_display.user.user.default.yml
core.entity_view_mode.node.full.yml
core.entity_view_mode.node.search_result.yml
core.entity_view_mode.user.compact.yml
core.menu.static_menu_link_overrides.yml
editor.editor.full_html.yml
field.field.node.article.body.yml
field.field.node.article.field_tags.yml
field.settings.yml
field.storage.node.body.yml
field.storage.node.field_tags.yml
file.settings.yml
filter.format.plain_text.yml
image.settings.yml
image.style.thumbnail.yml
node.type.article.yml
rdf.mapping.node.article.yml
rdf.mapping.user.user.yml
search.settings.yml
system.action.comment_publish_action.yml
system.action.node_delete_action.yml
system.action.node_promote_action.yml
system.action.node_unpromote_action.yml
system.action.user_block_user_action.yml
system.action.user_unblock_user_action.yml
system.date.yml
system.filter.yml
system.logging.yml
system.menu.account.yml
system.menu.main.yml
system.rss.yml
system.theme.yml
text.settings.yml
user.flood.yml
user.role.anonymous.yml
views.settings.yml
views.view.content.yml
views.view.frontpage.yml
views.view.user_admin_people.yml
block.block.bartik_account_menu.yml
block.block.bartik_footer.yml
block.block.bartik_main_menu.yml
block.block.bartik_search.yml
block.block.seven_content.yml
block.block.seven_messages.yml
contact.form.feedback.yml
core.base_field_override.node.page.promote.yml
core.date_format.html_datetime.yml
core.date_format.html_week.yml
core.date_format.long.yml
core.entity_form_display.block_content.basic.default.yml
core.entity_form_display.node.page.default.yml
core.entity_view_display.block_content.basic.default.yml
core.entity_view_display.node.article.rss.yml
core.entity_view_display.node.page.teaser.yml
core.entity_view_mode.block_content.full.yml
core.entity_view_mode.node.rss.yml
core.entity_view_mode.node.teaser.yml
core.entity_view_mode.user.full.yml
dblog.settings.yml
field.field.block_content.basic.body.yml
field.field.node.article.comment.yml
field.field.node.page.body.yml
field.storage.block_content.body.yml
field.storage.node.comment.yml
field.storage.user.user_picture.yml
filter.format.basic_html.yml
filter.format.restricted_html.yml
image.style.large.yml
menu.ui.settings.yml
node.type.page.yml
rdf.mapping.node.page.yml
search.page.node_search.yml
seven.settings.yml
system.action.comment_save_action.yml
system.action.node_make_sticky_action.yml
system.action.node_publish_action.yml
system.action.node_unpublish_action.yml
system.action.user_cancel_user_action.yml
system.authorize.yml
system.diff.yml
system.image.gd.yml
system.mail.yml
system.menu.admin.yml
system.menu.tools.yml
system.site.yml
taxonomy.settings.yml
tour.tour.views-ui.yml
user.mail.yml
user.role.authenticated.yml
views.view.archive.yml
views.view.content_recent.yml
views.view.glossary.yml
views.view.who_s_new.yml
block.block.bartik_breadcrumbs.yml
block.block.bartik_help.yml
block.block.bartik_messages.yml
block.block.bartik_tools.yml
block.block.seven_help.yml
block_content.type.basic.yml
contact.form.personal.yml
core.date_format.fallback.yml
core.date_format.html_month.yml
core.date_format.html_year.yml
core.date_format.medium.yml
core.entity_form_display.comment.comment.default.yml
core.entity_form_display.user.user.default.yml
core.entity_view_display.comment.comment.default.yml
core.entity_view_display.node.article.teaser.yml
core.entity_view_display.user.user.compact.yml
core.entity_view_mode.comment.full.yml
core.entity_view_mode.node.search_index.yml
core.entity_view_mode.taxonomy_term.full.yml
core.extension.yml
editor.editor.basic_html.yml
field.field.comment.comment.comment_body.yml
field.field.node.article.field_image.yml
field.field.user.user.user_picture.yml
field.storage.comment.comment_body.yml
field.storage.node.field_image.yml
field_ui.settings.yml
filter.format.full_html.yml
filter.settings.yml
image.style.medium.yml
node.settings.yml
rdf.mapping.comment.comment.yml
rdf.mapping.taxonomy_term.tags.yml
search.page.user_search.yml
shortcut.set.default.yml
system.action.comment_unpublish_action.yml
system.action.node_make_unsticky_action.yml
system.action.node_save_action.yml
system.action.user_add_role_action.administrator.yml
system.action.user_remove_role_action.administrator.yml
system.cron.yml
system.file.yml
system.image.yml
system.maintenance.yml
system.menu.footer.yml
system.performance.yml
system.theme.global.yml
taxonomy.vocabulary.tags.yml
update.settings.yml
user.role.administrator.yml
user.settings.yml
views.view.comments_recent.yml
views.view.files.yml
views.view.taxonomy_term.yml
views.view.who_s_online.yml





Using Configuration Management to Import a Single Config Value *(featuring the Drupal UI)*

Single export

Synchronize

Full Import/Export

Single Import/Export

Export

Import

Home » Administration » Configuration » Development » Synchronize

Configuration type

Simple configuration ▾

Configuration name *

system.site ▾

Here is your configuration: *

```
uuid: f6660fee-13dd-4f87-a400-f1c68403c2d2
name: 'My Even Greater Drupal 8 Site'
mail: matt@getpantheon.com
slogan: "
page:
  403: "
  404: "
front: node
admin(compact_mode: false
weight_select_max: 100
langcode: en
default_langcode: en
```

Filename: *system.site.yml*

Configuration Manager Module (Single export)

admin/config/development/configuration/single/export

```
uuid: f6660fee-13dd-4f87-a400-f1c68403c2d2
name: 'My Even Greater Drupal 8 Site'
mail: matt@getpantheon.com
slogan: ""
page:
  403: ""
  404: ""
    front: node
admin_compact_mode: false
weight_select_max: 100
langcode: en
default_langcode: en
```

YML File

system.site.yml

Single import 

Synchronize

Full Import/Export

Single Import/Export

Export

Import

[Home](#) » [Administration](#) » [Configuration](#) » [Development](#) » [Synchronize](#)

Configuration type *

Simple configuration ▾

Configuration name *

system.site.yml

Enter the name of the configuration file without the .yml extension. (e.g. system.site)

Paste your configuration here *

```
uuid: f6660fee-13dd-4f87-a400-f1c68403c2d2
name: 'My Even Greater Drupal 8 Site'
mail: matt@getpantheon.com
slogan: "
page:
  403: "
  404: "
front: node
admin(compact_mode: false
weight_select_max: 100
langcode: en
default_langcode: en
```

Import

Configuration Manager Module (Single import)

admin/config/development/configuration/single/import

Are you sure you want to create a new `system.site.yml` simple configuration? ★

Synchronize

Full Import/Export

Single Import/Export

Export

Import

[Home](#) » [Administration](#) » [Configuration](#) » [Development](#) » [Synchronize](#)

This action cannot be undone.

[Confirm](#)

[Cancel](#)

Configuration Manager Module (Import confirm)

admin/config/development/configuration/single/import

Single import

[Synchronize](#)[Full Import/Export](#)[Single Import/Export](#)[Export](#)[Import](#)

Home » Administration » Configuration » Development » Synchronize

 The `system.site.yml` configuration was imported.

Configuration type *

– Select – ▾

Paste your configuration here *

[Import](#)

Configuration Manager Module (Import finished)

admin/config/development/configuration/single/import



Using Configuration Management to Import All Config Values *(featuring the Drupal UI)*

Export ★

[Synchronize](#)[Full Import/Export](#)[Single Import/Export](#)[Export](#)[Import](#)

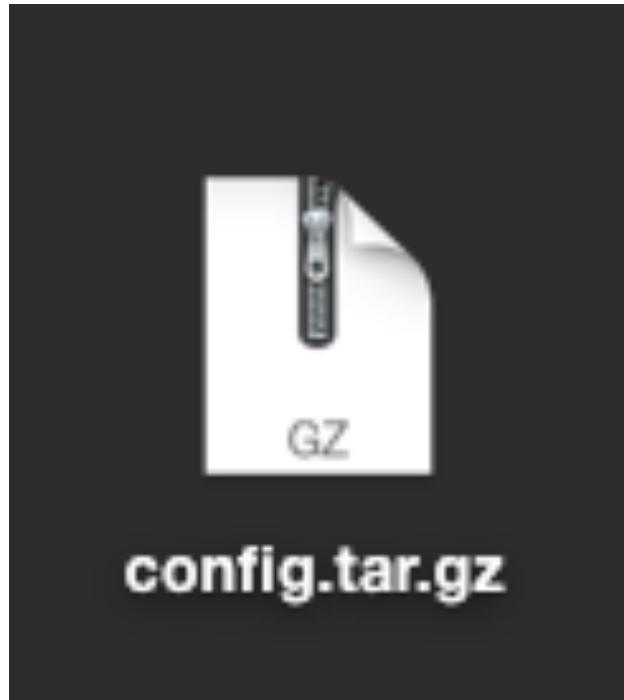
[Home](#) » [Administration](#) » [Configuration](#) » [Development](#) » [Synchronize](#)

Use the export button below to download your site configuration.

[Export](#)

Configuration Manager Module (Export)

admin/config/development/configuration/full/export



Downloaded File
config.tar.gz

Import

[Synchronize](#)[Full Import/Export](#)[Single Import/Export](#)[Export](#)[Import](#)

[Home](#) » [Administration](#) » [Configuration](#) » [Development](#) » [Synchronize](#)

Use the upload button below.

Select your configuration export file

 No file chosen

This form will redirect you to the import configuration screen.

Configuration Manager Module (Import)

admin/config/development/configuration/full/import

Synchronize

[Synchronize](#)[Full Import/Export](#)[Single Import/Export](#)

Home » Administration » Configuration » Development

 Your configuration files were successfully uploaded, ready for import.

Import configuration that is placed in your staging directory. All changes, deletions, renames, and additions are listed below.

5 new

NAME	OPERATIONS
node.type.blog	View differences
field.field.node.blog.body	View differences

1 changed

NAME	OPERATIONS
system.site	View differences
Import all	

Configuration Manager Module (Synchronize)

admin/config/development/configuration

Synchronize [Synchronize](#)[Full Import/Export](#)[Single Import/Export](#)[Home](#) » [Administration](#) » [Configuration](#) » [Development](#)

Import configuration that is placed in your staging directory. All changes, deletions, renames, and additions are listed below.

5 new

NAME

node.type.blog

field.field.node.blog.body

core.entity_form_display.node.bl

core.entity_view_display.node.bl

core.entity_view_display.node.bl

1 changed

NAME

system.site

[Import all](#)

View changes of system.site

[X](#)

OLD

NEW

uuid: f6660fee-13dd-4f87-a400-f1c68403c2d2

uuid: f6660fee-13dd-4f87-a400-f1c68403c2d2

- name: 'My Great Drupal 8 Site'

+ name: 'My Even Greater Drupal 8 Site'

mail: matt@getpantheon.com

mail: matt@getpantheon.com

slogan: ''

slogan: ''

[Back to 'Synchronize configuration' page.](#)[View differences](#)

Configuration Manager Module (View differences)

admin/config/development/configuration

Synchronize

[Synchronize](#)[Full Import/Export](#)[Single Import/Export](#)

Home » Administration » Configuration » Development

 Your configuration files were successfully uploaded, ready for import.

Import configuration that is placed in your staging directory. All changes, deletions, renames, and additions are listed below.

5 new

NAME	OPERATIONS
node.type.blog	View differences
field.field.node.blog.body	View differences

1 changed

NAME	OPERATIONS
system.site	View differences
Import all	

Configuration Manager Module (Synchronize)

admin/config/development/configuration

Synchronizing configuration

Finalizing configuration synchronization.

Completed 2 step of 2.

100%

Configuration Manager Module (Import all)

admin/config/development/configuration

Synchronize

[Synchronize](#)[Full Import/Export](#)[Single Import/Export](#)

Home » Administration » Configuration » Development

 Your configuration files were successfully uploaded, ready for import.

Import configuration that is placed in your staging directory. All changes, deletions, renames, and additions are listed below.

NAME	OPERATIONS
------	------------

There are no configuration changes to import.

Configuration Manager Module (Import finished)

admin/config/development/configuration



Where is the Configuration Management Magic?

The Magic is in the Workflow



The Magic is in the Workflow



Single export ★

Synchronize Single Import/Export Full Import/Export

Import Export

Home > Administration > Configuration > Development > Synchronize

Configuration type: Simple configuration

Configuration name: system.site

Here is your configuration:

```
uuid: f3cf1bea-b55c-4de5-9a07-7ca6d97bf1af
name: 'Drupal 8 CMI Demo'
mail: matt@getpantheon.com
slogan: ''
page:
  403: ''
  404: ''
  front: node
admin_compact_mode: false
weight_select_max: 100
langcode: en
```

The filename is *system.site.yml*.

The Magic is in the Workflow



Single export ☆

Synchronize Single Import/Export Full Import/Export

Import Export

Home > Administration > Configuration > Development > Synchronize

Configuration type Simple configuration

Configuration name * system.site

Here is your configuration:

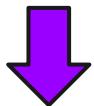
```
uuid: f3d1bea-185c-4ae5-9a07-7ca6d97bf1af
name: 'Drupal 8 CMI Demo'
mail: matt@getpantheon.com
slogan: ''
page:
  403:
  404:
  front: node
admin_compact_mode: false
weight_select_max: 100
langcode: en
```

The filename is *system.site.yml*.



```
uuid: 27e09a2e-a781-4a58-a728-4058b478dc7
langcode: en
status: true
dependencies:
  module:
    - menu_ui
name: Blog
type: blog
description: 'A message to your fans and followers.'
help: ''
new_revision: false
preview_mode: 1
display_submitted: true
third_party_settings:
  menu_ui:
    available_menus:
      - main
    parent: 'main'
node.type.blog.yml (END)
```

The Magic is in the Workflow



Single export ☆

Synchronize Single Import/Export Full Import/Export

Import Export

Home > Administration > Configuration > Development > Synchronize

Configuration type Simple configuration

Configuration name * system.site

Here is your configuration: *

```
uuid: f3d1bea-155c-4ae5-9a07-7ca6d97bf1af
name: 'Drupal 8 CMI Demo'
mail: matt@getpantheon.com
slogan: ''
page:
  403:
  404:
    front: node
admin_compact_mode: false
weight_select_max: 100
langcode: en
```

The filename is `system.site.yml`.



```
uuid: 27e09a2e-a781-4a58-a728-4058b478dcf7
langcode: en
status: true
dependencies:
  module:
    - menu_ui
name: Blog
type: blog
description: 'A message to your fans and followers.'
help: ''
new_revision: false
preview_mode: 1
display_submitted: true
third_party_settings:
  menu_ui:
    available_menus:
      - main
    parent: 'main'
node.type.blog.yml (END)
```



Single import ☆

Synchronize Single Import/Export Full Import/Export

Import Export

Home > Administration > Configuration > Development > Synchronize

Configuration type * Simple configuration

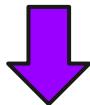
Configuration name * system.site

Paste your configuration here *

```
uuid: f3d1bea-155c-4ae5-9a07-7ca6d97bf1af
name: 'Drupal 8 CMI Demo'
mail: matt@getpantheon.com
slogan: ''
page:
  403:
  404:
    front: node
admin_compact_mode: false
weight_select_max: 100
langcode: en
```

Import

The Magic is in the Workflow



Single export ★

Synchronize Single Import/Export Full Import/Export

Import Export

Home > Administration > Configuration > Development > Synchronize

Configuration type Simple configuration

Configuration name * system.site

Here is your configuration: *

```
uuid: f3d1bea-155c-4ae5-9a07-7ca6d97bf1af
name: 'Drupal 8 CMI Demo'
mail: matt@getpantheon.com
slogan: ''
page:
  403:
  404:
    front: node
admin(compact_mode: false
weight_select_max: 100
langcode: en)
```

The filename is `system.site.yml`.



```
uuid: 27e09a2e-a781-4a58-a728-4058b478dcf7
langcode: en
status: true
dependencies:
  module:
    - menu_ui
name: Blog
type: blog
description: 'A message to your fans and followers.'
help: ''
new_revision: false
preview_mode: 1
display_submitted: true
third_party_settings:
  menu_ui:
    available_menus:
      - main
      parent: 'main'
node.type.blog.yml (END)
```



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Paste your configuration here *

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  404:
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slogan: ''
page:
  403:
  404:
    front: node
admin(compact_mode: false
weight_select_max: 100
langcode: en)
```

Import



**So Let's Try a Live Demo
with Drupal 8 Beta 12
(try it yourself at <https://pantheon.io/d8>)**



Hopefully the Demo was Cool

(if not blame barbarian invasions, the reliance on slave and mercenary labor, militaristic overexpansion, the rise of the influence of Byzantium, and, of course, the conference wifi)

Extending Drupal 8's Configuration Management



Handling Different Languages

```
block.block.bartik.login.yml
```

```
id: bartik.login
uuid: 7012ebfd-7083-47ef-b...
weight: '0'
status: '1'
langcode: en
region: sidebar_first
plugin: user_login_block
settings:
  label: 'User login'
  module: user
  label_display: visible
  cache: '-1'
....
```

```
locale.hu.block.block.bartik.login.yml
```

```
settings:
  label: 'Belépés'
```

```
locale.nl.block.block.bartik.login.yml
```

```
settings:
  label: 'Inloggen'
```

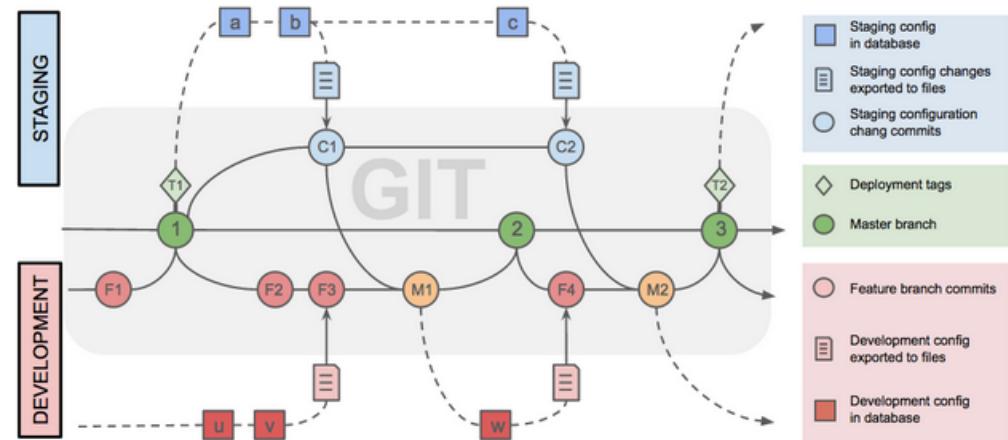
This is how Configuration Management handles configuration values in different languages

Dealing with Configuration Over Multiple Git Branches & Developers is Hard!



And it requires typing lots and lots of different
Drush and Git commands

Check out Drush's *config-merge* Command



Grab Drush 8 and get started today!

Drupal 8's Configuration Management is Designed to Manage a Full Site's Config

```
README.txt
block.block.bartik_content.yml
block.block.bartik_login.yml
block.block.bartik_powered.yml
block.block.seven_breadcrumbs.yml
block.block.seven_login.yml
comment.type.comment.yml
content.settings.yml
core.date.format.html.date.yml
core.date.format.html.time.yml
core.date.format.html.yearless.date.yml
core.date.format.short.yml
core.entity_form_display.node.article.default.yml
core.entity_form_mode.user.register.yml
core.entity_view_display.node.article.default.yml
core.entity_view_display.node.page.default.yml
core.entity_view_display.user.user.default.yml
core.entity_view_mode.node.full.yml
core.entity_view_mode.node.search_result.yml
core.entity_view_mode.user.compact.yml
core.menu.static_menu.link_overrides.yml
editor.editor.full.html.yml
field.field.node.article.body.yml
field.field.node.article.field_tags.yml
field.settings.yml
field.storage.node.body.yml
field.storage.node.field.tags.yml
file.settings.yml
filter.formatted_plain_text.yml
image.settings.yml
image.style.thumbnail.yml
node.type.article.yml
rdf_mapping.node.article.yml
rdf_mapping.user.user.yml
search.settings.yml
system.action.comment.publish.action.yml
system.action.node_delete.action.yml
system.action.node_promote.action.yml
system.action.node_unpromote.action.yml
system.action.user_block_user.action.yml
system.action.user_unblock_user.action.yml
system.date.yml
system.filter.yml
system.logging.yml
system.menu.account.yml
system.menu.main.yml
system.rte.yml
system.theme.yml
text.settings.yml
user.cookie.yml
user.role.anonymous.yml
views.settings.yml
views.view.content.yml
views.view.frontpage.yml
views.view.user.admin.people.yml

block.block.bartik_account_menu.yml
block.block.bartik_footer.yml
block.block.bartik_main_menu.yml
block.block.bartik_search.yml
block.block.seven_content.yml
block.block.seven_messages.yml
contact.form.feedback.yml
core.entity_form_display.node.page.promote.yml
core.entity_form_display.node.page.date.yml
core.entity_form_display.node.page.datetime.yml
core.entity_form_display.node.page.week.yml
core.entity_form_display.node.page.long.yml
core.entity_form_display.block_content.basic.default.yml
core.entity_form_display.node.page.default.yml
core.entity_view_display.block_content.basic.default.yml
core.entity_view_display.node.article.rss.yml
core.entity_view_display.node.page.teaser.yml
core.entity_view_mode.block_content.full.yml
core.entity_view_mode.rss.yml
core.entity_view_mode.node.teaser.yml
core.entity_view_mode.user.full.yml
dblog.settings.yml
field.field.block_content.basic.body.yml
field.field.node.article.comment.yml
field.field.node.page.body.yml
field.storage.block_content.body.yml
field.storage.node.comment.yml
field.storage.user.picture.yml
filter.formatted_restricted.html.yml
image.settings.yml
menu.ui.settings.yml
node.type.page.yml
rdf_mapping.node.page.yml
search.page.node.search.yml
seven.settings.yml
system.action.comment_save.action.yml
system.action.node_make_sticky.action.yml
system.action.node_publish.action.yml
system.action.user_unpublish.action.yml
system.action.user_cancel_user.action.yml
system.authorize.yml
system.diff.yml
system.image.gd.yml
system.mail.yml
system.menu.admin.yml
system.menu.tools.yml
system.site.yml
taxonomy.settings.yml
tourism.visitviews-ui.yml
user.hall.yml
user.role.authenticated.yml
views.view.archive.yml
views.view.content.recent.yml
views.view.glossary.yml
views.view.who.s_new.yml

block.block.bartik_breadcrumbs.yml
block.block.bartik_help.yml
block.block.bartik_messages.yml
block.block.bartik_tools.yml
block.block.seven_help.yml
block_content.type.basic.yml
contact.form.personal.yml
core.entity_form_display.node.page.promote.yml
core.entity_form_display.node.page.date.yml
core.entity_form_display.node.page.datetime.yml
core.entity_form_display.node.page.week.yml
core.entity_form_display.node.page.year.yml
core.entity_form_display.node.page.medium.yml
core.entity_form_display.comment.comment.default.yml
core.entity_view_display.comment.comment.default.yml
core.entity_view_display.node.article.teaser.yml
core.entity_view_display.user.user.compact.yml
core.entity_view_mode.comment.full.yml
core.entity_view_mode.node.search_index.yml
core.entity_view_mode.taxonomy_term.full.yml
core.extension.yml
editor.editor.basic.html.yml
field.field.comment.comment.comment_body.yml
field.field.node.article.field.image.yml
field.field.user.user.user_picture.yml
field.storage.comment.comment_body.yml
field.storage.node.field.image.yml
field.ui.settings.yml
filter.format.full.html.yml
filter.settings.yml
image.settings.yml
node.settings.yml
rdf_mapping.comment.comment.yml
rdf_mapping.taxonomy_term.tags.yml
search.page.user_search.yml
shortcut.set.default.yml
system.action.comment_unpublish.action.yml
system.action.node_make_unsticky.action.yml
system.action.node_save.action.yml
system.action.user_add_role.action.administrator.yml
system.action.user_remove_role.action.administrator.yml
system.cron.yml
system.file.yml
system.image.yml
system.maintenance.yml
system.menu.footer.yml
system.performance.yml
system.theme.jboss.yml
taxonomies.vocabularies-tags.yml
updated.settings.yml
user.role.administrator.yml
user.settings.yml
views.view.comments_recent.yml
views.view.files.yml
views.view.taxonomy_term.yml
views.view.who.s_online.yml
```

Sharing configuration across multiple sites is not a support used case

Luckily there is Features for Drupal 8!

The screenshot shows the Drupal 8 Features module interface for exporting configuration. The top navigation bar includes Home, Manage, Shortcuts, and admin. A toolbar with a pencil icon is on the right. The main title is "Export" with a star icon.

The menu tabs are Synchronize, Export Features, Single Import/Export, Full Import/Export, and Updates report. The "Export" tab is selected. Sub-tabs include Export, Settings, and Configure Package Assigners.

The breadcrumb navigation shows Home > Administration > Configuration > Development > Synchronize.

The page title is "Export".

The "Package Set" dropdown is set to "D8 Test".

The table lists three features:

FEATURE	DESCRIPTION	VERSION	STATUS	STATE
Article d8_test_article	Provide Article content type and related configuration. Use <i>articles</i> for time-sensitive content like news, press releases or blog posts.		Uninstalled	
Image d8_test_my_image	Provide Image content type and related configuration. Images within the gallery view		Enabled	
Basic Page page	Provide Basic page content type and related configuration. Use <i>basic pages</i> for your static content, such as an 'About us' page.		Not exported	

For the Article feature, detailed configuration options are shown:

- Content type: Article
- Dependencies: Comment, Image, Node, Path, Taxonomy, Text, User
- Entity form display: node.article.default
- Entity view display: node.article.default, node.article.rss, node.article.teaser
- Field: Body, Comments, Image, Tags
- RDF mapping: node.article

At the bottom, instructions say "Use an export method button below to generate the selected configuration modules." with two buttons: "Download Archive" and "Write".

Learn More from Drupalcon's Video!

Features for Drupal 8

M POTTER

The Features module has played an important role in deploying site configuration for Drupal 7. Now that Drupal 8 has configuration management (CMI) built into core, what's the role of the Features module in Drupal 8? In Drupal 8, Features will return to its original mission of bundling functionality rather than just managing configuration. We will demo the latest development version of the D8 Features module.

What you will learn:

- The architecture of Features in Drupal 8
- The difference between Modules, Features, and Apps
- How Features integrates with D8 CMI and other modules such as config_devel and config_packager
- How to create a new Feature
- How to manage existing Features
- When and How to override Features

Drupal Version

Drupal 8.x

Session Time Slot(s)

Time:

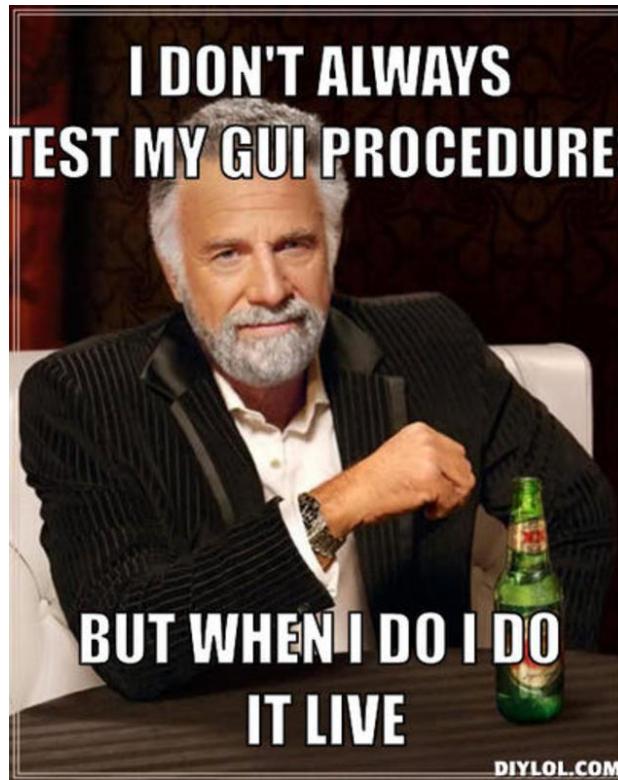
05/14/2015 - 10:45-

05/14/2015 - 11:45

Room:

Petree C -Acquia

Configuration Management Doesn't Prevent You From Changing Config in Live



And it is important to you that all configuration **be in version control** and **be tested** before going live

There is a Drupal 8 Module for that!

Configuration Read-only mode

[View](#) [Version control](#) [Revisions](#) [Automated Testing](#)

Posted by [scor](#) on February 13, 2014 at 1:27pm

This module allows to lock any configuration changes done via the Drupal admin UI. This can be useful in scenarios where for example configuration changes should not be done on the production environment, but only on staging or local environments.

To enable readonly mode, enable this module and add this to your settings.php:

```
<?php  
$settings['config_READONLY'] = TRUE;  
?>
```

Project Information

Maintenance status: [Actively maintained](#)
Development status: [Under active development](#)
Downloads: 4
Last modified: November 28, 2014

Downloads

Development releases

Version	Download	Date	Links
8.x-1.x-dev	tar.gz (8.28 KB) zip (10.17 KB)	2014-Feb-19	Notes

[View all releases](#)



Maintainers for Configuration Read-only mode

[pwolanin](#) – 4 commits
last: 1 year ago, first: 1 year ago
[scor](#) – 2 commits
last: 1 year ago, first: 1 year ago
[effulgentsia](#) – 1 commit
last: 1 year ago, first: 1 year ago

[View all committers](#)
[View commits](#)

Issues for Configuration Read-only mode

To avoid duplicates, please search before submitting a new issue.

[Advanced search](#)

[All issues](#)
[4 open, 4 total](#)
[Bug report](#)
[3 open, 3 total](#)

https://www.drupal.org/project/config_READONLY



Let's Talk Big Picture
Configuration Management Will Change How
Most of You Drupal on a Daily Basis

Thank You for Your Attention

