

The Magic of Drupal 8's Configuration Management on a Managed Workflow

Presented in Technicolor by

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





it's all happening

Configuration

VS

Content



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



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

The Problem Is That Drupal Did Not Care

```
MariaDB [pantheon]> show tables;
```

Tables_in_pantheon	field_config_instance	queue
	field_data_body	rdf_mapping
	field_data_comment_body	registry
_pantheon_heartbeat	field_data_field_image	registry_file
actions	field_data_field_tags	role
authmap	field_revision_body	role_permission
batch	field_revision_comment_body	search_dataset
block	field_revision_field_image	search_index
block_custom	field_revision_field_tags	search_node_links
block_node_type	file_managed	search_total
block_role	file_usage	semaphore
blocked_ips	filter	sequences
cache	filter_format	sessions
cache_block	flood	shortcut_set
cache_bootstrap	history	shortcut_set_users
cache_field	image_effects	system
cache_filter	image_styles	taxonomy_index
cache_form	menu_custom	taxonomy_term_data
cache_image	menu_links	taxonomy_term_hierarchy
cache_menu	menu_router	taxonomy_vocabulary
cache_page	node	url_alias
cache_path	node_access	users
cache_update	node_comment_statistics	users_roles
comment	node_revision	variable
date_format_locale	node_type	watchdog
date_format_type		
date_formats		
field_config		

75 rows in set (0.00 sec)

The World of Drupal 7 Configuration Management

```
/**
 * 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 Clear ☐ 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

Now it is YAML Time!



[Back to site](#) [Manage](#) [Shortcuts](#) [admin](#)

[Content](#) [Structure](#) [Appearance](#) [Extend](#) [Configuration](#) [People](#) [Reports](#) [Help](#)

Site information ☆

[Home](#) » [Administration](#) » [Configuration](#) » [System](#)

▼ SITE DETAILS

Site name *

Slogan

How this is used depends on your site's theme.

Email address *

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/>

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/>

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/>

This page is displayed when no other content matches the requested document. Leave blank to display a generic "page not found" page.

[Save configuration](#)

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

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

What about the database?



used for *run time*

```
$config_directories = array(  
    CONFIG_STAGING_DIRECTORY =>  
        'sites/default/config',  
);
```

used for *import/export*

A vibrant, fantastical landscape. In the foreground, a large, gnarled tree with dark, swirling branches frames the scene. The middle ground features a lush green valley with a winding river and a large, ornate castle with red-roofed towers and spires, situated on a grassy hill. In the background, a massive, snow-capped volcano with a red, smoking peak rises into a blue sky filled with soft, white clouds. The overall scene is bright and colorful, with a magical atmosphere.

**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: f1c1bea-b55c-4de5-8a07-7cad979f1af  
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



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Simple configuration ▼

Configuration name *
system.site ▼

Here is your configuration: *

```
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name: 'Drupal 8 CMI Demo'
mail: matt@getpantheon.com
slogan: ''
page: ''
css: ''
css: ''
front: node
admin_compact_mode: false
weight_select_max: 100
langcode: en
```

The filename is system.site.yml



```
uuid: 27e09a2e-a781-4a58-a728-4858b478dcd7
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
    parents: 'main:'
node.type.blog.yml (END)
```

The Magic is in the Workflow



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slogan: ''
page: ''
403: ''
404: ''
front: node
admin_compact_mode: false
weight_select_max: 100
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```

The filename is system.site.yml



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node_type.blog.yml (END)
```



Single import ☆

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Import Export

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Configuration type *
Simple configuration ▼

Configuration name *
system.site

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

Paste your configuration here *

```
uuid: f1c1bea-b55c-4de5-9a07-7cad979f1af
name: 'Drupal 8 CMI Demo'
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slogan: ''
page: ''
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front: node
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langcode: en
```

Import

The Magic is in the Workflow



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404: ''
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The filename is system.site.yml



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dependencies:
  module:
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  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
      parents: 'main:'
node.type.blog.yml (END)
```



Single import ☆

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Import Export

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Configuration type *
Simple configuration ▼

Configuration name *
system.site

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

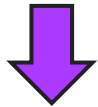
Paste your configuration here *

```
uuid: f1c1bea-b55c-4de5-9a07-7cad979f1af
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



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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



```
uid: 27e09a2e-a781-4e58-a728-485eb478dcd7
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
      parents: 'main:'
node_type.blog.yml (END)
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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





**So Let's Try a Live Demo
with Drupal 8**



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 wiff)

BENEFITS

Accountability + Auditability



Continuous integration is much easier





Rollback via Git (Your mileage may vary)

How to Handle Configuration Changes to the Live Environment



Option 1 for Configuration Changes in Live



Make it **not possible** to make configuration changes to the live environment.

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 (8.26 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.

[Search](#)

[Advanced search](#)

[All issues](#)

[4 open, 4 total](#)

[Bug report](#)

[3 open, 3 total](#)

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

Option 2 for Configuration Changes in Live

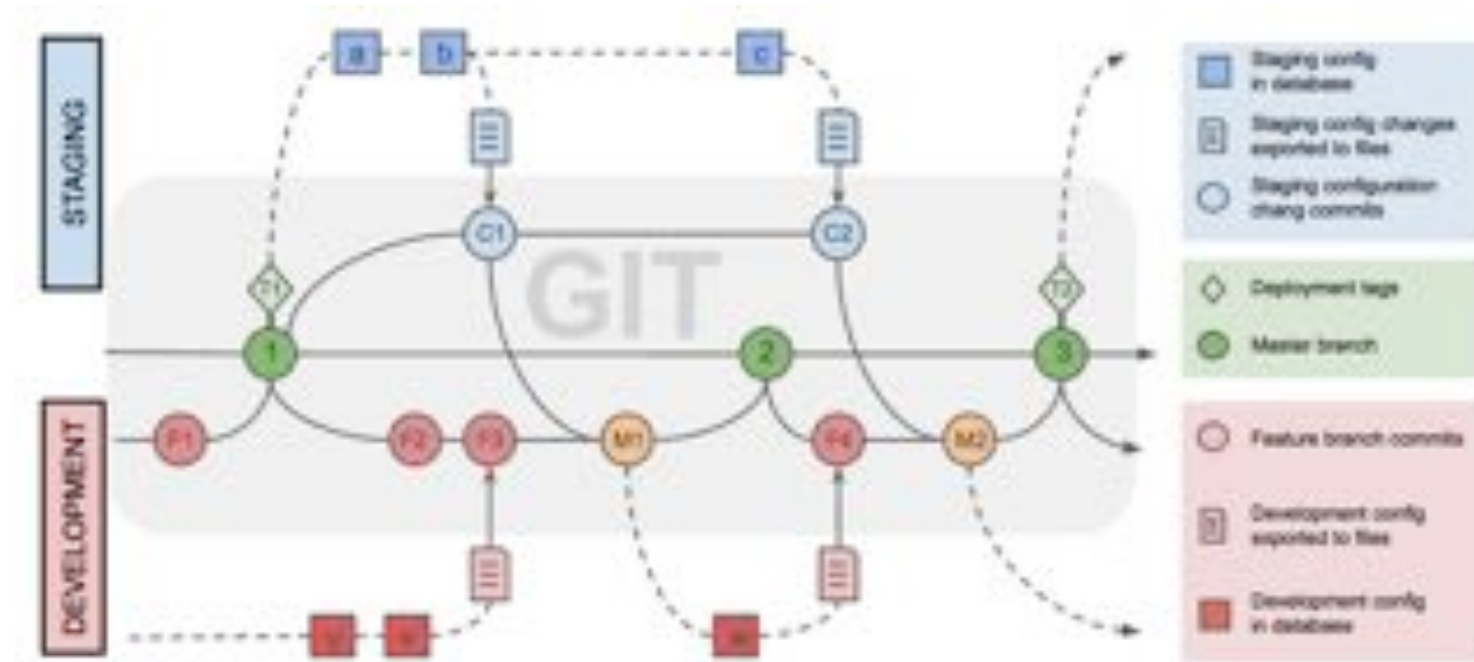


Sync **live database** to your **development environment** and do a **config export**

There are many commands for that!



Option 3 for Configuration Changes in Live



Magically merge configuration from **live** and **development** together

There is a Drush command for that!

config-merge in Git mode

The `config-merge` command can be used in 'git mode' as follows:

```
drush config-merge @live-site-drush-site-alias --git
```

In `git mode`, `config-merge` will use `ssh` to export the current configuration changes on the remote site, commit them on a branch, and then push the branch to the central repository. This branch is then pulled to the local machine, and merged in with the active configuration of the local site. The advantage of `git mode` is that it allows `git` to track the point where each branch diverged, allowing for accurate merges; however, `git mode` requires `ssh` + `git` access on the remote site, and that is not always available.

<https://github.com/drush-ops/config-extra>

How to Share Configuration



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

```
README.txt
block.block.hortik_content.yml
block.block.hortik_login.yml
block.block.hortik_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_year.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_mode.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.default.yml
system.menu.main.yml
system.rss.yml
system.theme.yml
text.settings.yml
user.flood.yml
user.role.anonymous.yml
views.view.content.yml
views.view.frontpage.yml
views.view.user_admin_people.yml
block.block.hortik_account_menu.yml
block.block.hortik_footer.yml
block.block.hortik_main_menu.yml
block.block.hortik_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.lang.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
dialog.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
media_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_add_role_action.administrator.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
system.site.settings.yml
hour.tour.views-ui.yml
user.mail.yml
user.role.administrator.yml
views.view.archive.yml
views.view.content_recent.yml
views.view.glossary.yml
views.view.who_s_new.yml
block.block.hortik_breadcrumbs.yml
block.block.hortik_help.yml
block.block.hortik_messages.yml
block.block.hortik_tools.yml
block.block.seven_help.yml
block_content.type.basic.yml
contact.form.personal.yml
core.date_format.fullblock.yml
core.date_format.html_month.yml
core.date_format.html_year.yml
core.date_format.media.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.body.yml
field.field.node.article.field_image.yml
field.field.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.media.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_unsticky_action.yml
system.action.node_unpublish_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
```

This can make sharing configuration across multiple sites difficult

Use Drush's *config-import --partial*

```
apple-of-discord:default mmlc$ drush help config-import  
Import config from a config directory.
```

Options:

--partial

Allows for partial config imports from the source directory. Only updates and new configs will be processed with this flag (missing configs will not be deleted).

<http://drushcommands.com/drush-8x/config/config-import>

Include Default Configuration in a Module

Create a file named `node.type.example_mytype.yml` and place it in your module's directory in a subdirectory called `config/install`. For example this file could be at `/modules/example/config/install/node.type.example_mytype.yml` if the module is in `/modules/example`.

```
type: example_mytype
name: Example
description: 'Use <em>example</em> content to get to Drupal 8 development better.'
help: ''
new_revision: false
display_submitted: true
preview_mode: 1
status: true
langcode: en
```

<https://www.drupal.org/node/2087879>

Updating Module Configuration After Install

Configuration Update Manager

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

Posted by [jhodgdon](#) on December 11, 2014 at 9:48am

The Configuration Update Manager module supplements the core Configuration Manager module, by providing a report that allows you to see the differences between the configuration items provided by the current versions of your installed modules, themes, and Install profile, and the configuration on your site.

From this report, you can also import new configuration provided by updates, and revert your site configuration to the provided values.

The main use case is: You update a module, and it has either changed default config that it provides, or added new config items. You want to be able to import the new items, view the differences between the site config and the changed config, and possibly "revert" (or it may be an update) to the newly-provided default config.

This module is related to several existing issues:

Configurable Help module: [#2371439: Figure out what to do when module updates configurable topic](#)

Core Views/Views UI module: [#1790398: Re introduce revert functionality for views using the config system](#)

Core Tour module: [#1924202: Provide a method for end users to be notified on new/update tips](#)

Generic problem in config in Core: [#1398040: Detect if default configuration of a module has been changed, and allow to restore to the original](#), [#1497268: Add revert functionality to Config entities](#), and related issues

Maintainers for Configuration Update Manager

[jhodgdon](#) – 27 commits

last: 1 month ago, first: 4 months ago

[View all committers](#)

[View commits](#)

Issues for Configuration Update Manager

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

[Search](#)

[Advanced search](#)

[All issues](#)

9 open, 37 total

[Bug report](#)

0 open, 6 total

[Subscribe via e-mail](#)

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

Use Features for Drupal 8

The screenshot shows the Drupal 8 administration interface for the Features module. At the top, there's a navigation bar with links for Home, Manage, Shortcuts, and a user profile for 'admin'. Below this, the 'Features' section is highlighted with a star icon. A sub-navigation bar contains buttons for Synchronize, Features, Single Import/Export, Full Import/Export, and Updates report. Under the 'Features' button, there are tabs for Features, Differences, and Configure Bundles. The main content area shows a breadcrumb trail: Home » Administration » Configuration » Development » Synchronize. Below this, it says 'Export bundles of configuration into modules.' There's a 'Bundle' dropdown menu set to '--None--' and a 'Create new feature' button. A table lists features with columns for checkboxes, FEATURE, DESCRIPTION, VERSION, STATUS, and STATE. One feature, 'My image', is listed with status 'Enabled'. Below the table, a message states 'The following packages are not exported.' followed by a list of packages: 'Article', 'Basic page', 'Core', and 'Unpackaged', all with status 'Not exported'. At the bottom, it says 'Use an export method button below to generate the selected configuration modules.' and provides two buttons: 'Download Archive' and 'Write'.

Home » Administration » Configuration » Development » Synchronize

Export bundles of configuration into modules.

Bundle
--None-- [Create new feature](#)

<input type="checkbox"/>	FEATURE	DESCRIPTION	VERSION	STATUS	STATE
<input type="checkbox"/>	My image	oa_my_image ► Provide My image content type and related configuration. An image for our gallery		Enabled	

The following packages are not exported.

<input type="checkbox"/>	Article	article ► Provide Article content type and related configuration. Use articles for time-sensitive content like news, press releases or blog posts.		Not exported	
<input type="checkbox"/>	Basic page	page ► Provide Basic page content type and related configuration. Use basic pages for your static content, such as an 'About us' page.		Not exported	
<input type="checkbox"/>	Core	core ► Provide core components required by other configuration modules.		Not exported	
<input type="checkbox"/>	Unpackaged	unpackaged ► Configuration that has not been added to any package.		Not exported	

Use an export method button below to generate the selected configuration modules.

[Download Archive](#) [Write](#)

<https://www.drupal.org/project/features>




Let's Talk Big Picture

Configuration Management Will Change How Most of You Drupal on a Daily Basis



Thank You for Your Attention

Any Questions?



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: mam@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-f3c68403c2d2
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

Choose File No file chosen

This form will redirect you to the import configuration screen.

Upload

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

Home Manage Shortcuts admin

Content Structure Appearance Extend Configuration People Reports Help

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
Field entity_form_display_node_blog
Form entity_view_display_node_blog
Form entity_view_display_node_blog

1 changed

NAME
system.site

Import all

View changes of system.site

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.](#)

Live Site

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.



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