

BUILDING, DEPLOYING AND MAINTAINING DRUPAL SITES LIKE A PRO

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DEV -> STAGE -> PRODUCTION

A sane workflow.

HOW?

Drush + Features + hook_update_N + Git + SSH

HOLD ON.

WHY?

DRUPAL ROCKS.

Drupal Rocks.

DRUPAL SUCKS.

DRUPAL + DEV WORKFLOW SUCKS LESS

DRUPAL 8 ROCKS!

Configuration Management

WHAT WE WILL COVER

PART 1

- Storing Drupal's configuration* in code using the Features module.
- Using Drush to manage these features.

PART 2

- Advanced Drush awesomeness
- Using Drush + SSH([keys](#)) to sync your databases.
- Using Git([Git Flow Workflow](#))to manage your code base.

REQUIRED DRUPAL MODULES

- Drush
- Features 2.0
- Strongarm
- DefaultConfig
- Diff
- Devel

OTHER REQUIREMENTS

- [Git](#) installed locally and on server
- How to use the commandline(ninja not required).
- SSH keys for Git and Drush interaction with servers.
- Git server or service like [Bitbucket](#) or [Github](#).

FEATURES MODULE

The features module enables the capture and management of features in Drupal. A feature is a collection of Drupal entities which taken together satisfy a certain use-case.

DRUSH

Drush is a command-line shell and scripting interface for Drupal, a veritable Swiss Army knife designed to make life easier for those who spend their working hours hacking away at the command prompt.

drush.org

GIT

Distributed version control system

<http://git-scm.com/>

SSH

"Secure Shell (SSH) is a cryptographic network protocol for secure data communication."

http://en.wikipedia.org/wiki/Secure_Shell

PACKAGING CONFIGURATION INTO MODULES

Or, [clicky click to code](#).

STEPS

- Build functionality in the UI
- Generate and enable new feature module
- Add/commit to Git repository

```
$ git add myfeature && git commit -m
```

- Edit functionality (UI)
- Check the status of your feature modules

```
$ drush fl
```

STEPS

- Check your feature change with Drush

```
$ drush fd myfeature
```

- Update the feature module code to match the database change

```
$ drush fu featurename --y
```

- Check features module status again

```
$ drush fl
```

DEMO

Building a "feature"

<http://fdug.dev>

DRUSH COMMANDS

- `fl --` Lists all the feature modules and their status
- `fd my_module --` Inline diff between the code and DB
- `fu my_module --` Update the code with the changes from the DB
- `fr my_module --` Revert configuration in the DB to reflect the module's code.
- `fe my_module --` Export your feature from the commandline(I prefer the UI here.)

MORE DEMO

Updating a feaure

<http://fdug.dev>

CLEAN FEATURES

Preventing conflict Hell

HOW????

- Each Content Type is a Feature
- Each View is a Feature
- Each Context is a Feature
- Yes I'm Serious
- A Common or Site Feature

NO OVERRIDDEN FEATURES

Overridden features are dangerous. Review and commit the changes to code.

FEATURES NAMING CONVENTION

- Content Type: ct_mycontent_type
- View: view_my_view
- Taxonomy: t_my_taxonomy_vocab
- Context: c_my_context

OTHER ADVICE

- Always change the feature package to a name appropriate for the project, do not leave the default “Features”.
- Use version numbers.
- Do not put dependencies on devel or UI modules into features.
- Features will not delete a field from the database.

HANDLING QUIRKS WITH FEATURES

- `fr --force`
- Use a clean drupal install to debug

HANDLING NON-EXPORTABLES

Nodes, Taxonomy terms, Commerce Products and [insert thing here].

```
hook_update_N()
```

<http://befused.com/drupal/site-deployment-module>

HANDLING NON-EXPORTABLES

```
/**  
 * Removes field_field_name.  
 */  
function FEATURE_NAME_update_7101() {  
    field_delete_field('FIELD_MACHINE_NAME');  
}
```

HANDLING NON-EXPORTABLES

```
/**
 * Implements hook_update_N().
 * Add category terms
 */
function mymodule_update_7000() {
  $vocabulary_machine_name = 'category';
  $vocabulary = taxonomy_vocabulary_machine_name_load($vocabulary_machine_name);
  $names = array(
    'Awesome Term',
    'Drupal FTW',
  );

  $weight = 0;
  foreach($names as $name) {
    $term = (object) array(
      'name' => $name,
      'vid' => $vocabulary->vid,
      'weight' => $weight
    );
  }
}
```

READING HOMEWORK

How to Write Drupal Update Scripts

Programmatically Revert Features

Programmatically remove a field from a node