Site Building and Environment Set-up

Content Staging and Deployments in Drupal

Introducing the new Drupal 7 release of Deploy module

About Us

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Agenda

- Overview of the problem
- The ideal workflow
- Drupal-specific problems
- How this relates to the configuration mgmt problem
- How it works for Drupal 6
- How it works for Drupal 7
- The new API for Drupal 7
- Demo
- The future

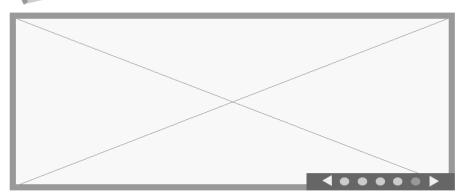
The Content Deployment Problem

Move content from the environment in which it is created/edited (and sometimes also QA'd) to the production environment...

The Content Deployment Problem

Move content from the environment in which it is created/edited (and sometimes also QA'd) to the production environment...

... because these should not be the same environment.



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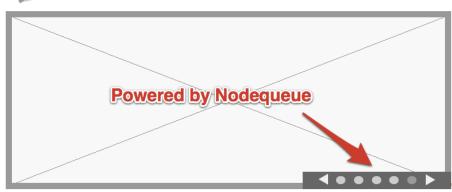
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Ideal Workflow

Content producers create and edit content in a **content staging** environment.

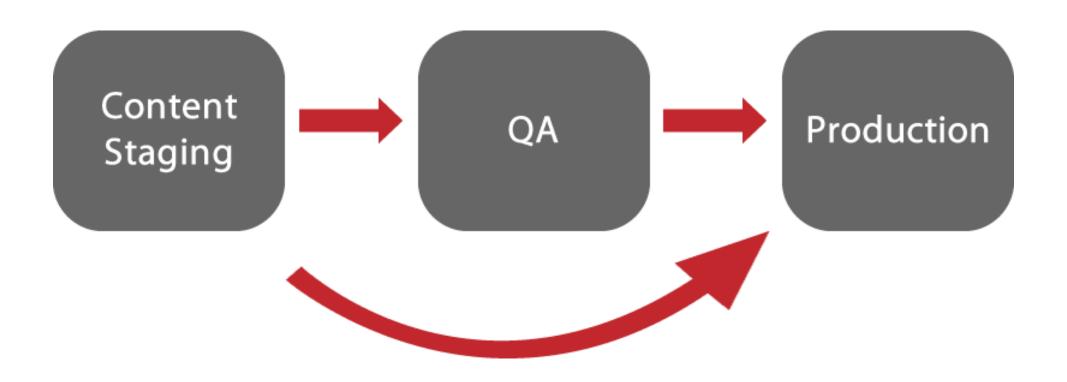
Content gets pushed to a **QA** environment. Anything that fails QA gets fixed in the Content Staging environment and pushed again to QA.

Once everything passes QA it gets pushed to production.

Ideal Workflow



Ideal Workflow



Content Deployment in Drupal

Problems to overcome:

- actual deployment mechanism
- authentication
- identifying content across environments
- need a standard CRUD API

The meta problem

What constitutes **content** in Drupal?

Where is the line drawn between **content** and **configuration**? (Is there one?)

D8 Config. Management Initiative

Line drawn in sand:

* If it is an Entity it is content, if not it is configuration *

(- heyrocker)

The Plan

Proper configuration management

A robust entity API and UUIDs in core

Drupal 8 Content Staging Initiative?

Back in D7 Land...

There is no line between content and configuration.

Examples:

The contents of a nodequeue The contents of a block

Possible definitions of what is content:

"If it's an entity, it's content"

"If it's something my content producers make changes to on the site and want to deploy via the UI, it's content"

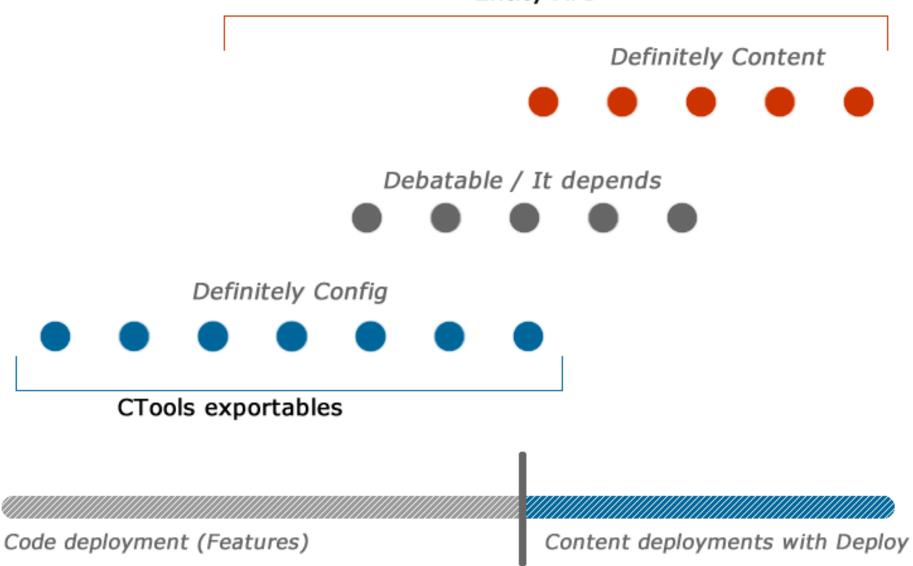
Exportables in D7

2 options for providing exportable configuration:

- CTools exportables
- Entity API module

Flexibility...

Entity API



The Best of All Possible Worlds?

"If we can flag what is content (meaning from a workflow perspective controlled on the live site) and what is configuration (meaning for the ordinary workflow that the code will expect to override the on-site configuration[...]) on a per-bundle basis i think we get the best of all possible worlds :-)"

- Benjamin Melançon

http://drupal.org/node/938368#comment-4286326

How it Works for Drupal 6

- From your source site, set up a target site to deploy to
- Create a deployment plan
- Add items (nodes, taxonomy terms etc.) to your plan
- Push the plan to the target site

Pushing deployment plan.

Pushing item 2 out of 3.

Now are seeing Article My Avecage Article

Now processing Article: My Awesome Article

Make an offering to the Deployment Gods

Incremental Deploy

Ability to deploy "whatever has changed since the last deployment"

Ability to deploy nodequeue contents, nodewords

How it Works for Drupal 7

- Plan management
- Multiple different deployment workflows to multiple endpoints
- Focuses on Drupal content only
- Leaves configuration to other solutions like Features
- Deployment dashboard

The New API for Drupal 7

- Rebuilt from scratch on UUID, CTools and Entity API
- Plans can be triggered in different ways
 - Manually
 - Rules
 - Drush
 - 0 ...
- Different types of plugins
 - Aggregators
 - Processors
 - Authenticator
 - Services

Aggregators

- Responsible for aggregating content for deployment
- Passes on an iterator that figures out dependencies, to the processor
- Example: A view of all latest articles
- Example: Hand picked content with the Plan Manager

Processors

- Responsible for processing and batching up the deployment
- Can happen directly or queued for later processing
- Example: Batch API (the shiny progress bar)
- Example: Queue API for big heavy deployments

Authenticator

Responsible for authenticating the deployment

Example: OAuth

Example: Basic HTTP

Services

- Responsible for doing the actual deployment
- Doesn't need to be push
- Example: REST with JSON or XML (push)
- Example: Atom feed with PubSub support (pull or push-ish)
- Example: File based with Git (push or pull)

Demo!

Alternative Use Cases

- Network of sub sites
- Multi-master database setup

The Future

- Come discuss with us in our BoF in room 334 at 2:45 PM
- Get involved in the "Configuration Management Initiative" http://groups.drupal.org/drupal-initiatives
- Get UUID in Drupal 8 core (http://drupal.org/node/1252486)

Thanks!

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Questions?

What did you think?

Locate this session on the DrupalCon London website: http://london2011.drupal.org/conference/schedule



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THANK YOU!