Ready for Workflow Goodness? How to upgrade!

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Agenda

- What's the Workflow Initiative?
- What, why and who needs upgrading?
- How to upgrade

Who am I?

- Dick Olsson
 - Long time Drupal core contributor
 - Working for Pfizer Inc.
 - Workflow Initiative coordinator
- Andrei Mateescu
 - Long time Drupal core contributor
 - Contracting for Pfizer Inc.
 - Workflow Initiative developer

Workflow Initiative: Goals

- Improving content workflow capabilities
- Making full-site preview possible
- Major improvements to APIs: Entity, Revision and Translation API

Workflow Initiative: Status

- Workflow module: Stable
- Content Moderation: Stable (but beta-ish)
- Workspace module: WIP
- Trash module: WIP
- More details: https://events.drupal.org/node/18826

Revisions, revisions, revisions!

- Revisions are the foundation to all functionality built by the Workflow Initiative
- Upgrade everything to become revision-aware

What to upgrade?

- Content entity types that are not revisionable
 - Contrib modules
 - Site-custom modules
- Other code and config that is not revision-aware
 - e.g. comment statistics

Why upgrade?

- To moderate all editorial content
- To use full-site preview for all editorial content
- To stage content from one server to another
- Existing content needs to be migrated

Who needs to upgrade?

- Maintainers of contrib modules
- Site owners with custom entity types and existing content

Examples in contrib

- Paragraphs module
- Entity Queue module
- Look module

How?

- 1. Change entity type and base field definitions
- 2. Update hook
- 3. Post-update hook

Demo

- Converting Shortcut module
- ~13 KB patch (small)
- Has existing content after a standard install
- Fully documented process: https://drupal.org/node/2908951

1. Change entity type and base field definitions

```
+++ b/core/modules/shortcut/src/Entity/Shortcut.php
@@ -3.7 +3.7 @@
namespace Drupal\shortcut\Entity;
use Drupal\Core\Cache\Cache;
-use Drupal\Core\Entity\ContentEntityBase;
+use Drupal\Core\Entity\EditorialContentEntityBase;
 use Drupal\Core\Entity\EntityStorageInterface;
use Drupal\Core\Entity\EntityTypeInterface;
use Drupal\Core\Field\BaseFieldDefinition;
@@ -31,13 +31,22 @@
  *
      base_table = "shortcut",
      data_table = "shortcut_field_data",
      revision table = "shortcut revision",
      revision_data_table = "shortcut_field_revision",
  *
      translatable = TRUE,
  *
      entity_keys = {
  *
        "id" = "id".
        "revision" = "revision id",
  *
        "uuid" = "uuid",
  *
        "bundle" = "shortcut_set",
        "label" = "title",
  *
  *
        "langcode" = "langcode",
        "published" = "status",
+ *
      revision metadata keys = {
        "revision_user" = "revision_user",
        "revision created" = "revision created",
        "revision_log_message" = "revision_log_message",
  *
      },
  *
      links = {
        "canonical" = "/admin/config/user-interface/shortcut/link/{shortcut}",
@@ -48,7 +57,7 @@
      bundle entity type = "shortcut set"
 * )
  */
-class Shortcut extends ContentEntityBase implements ShortcutInterface {
+class Shortcut extends EditorialContentEntityBase implements ShortcutInterface {
```

```
@@ -123,6 +132,7 @@ public static function baseFieldDefinitions(Entity
       ->setDescription(t('The name of the shortcut.'))
       ->setRequired(TRUE)
       ->setTranslatable(TRUE)
      ->setRevisionable(TRUE)
       ->setSetting('max_length', 255)
       ->setDisplayOptions('form', [
         'type' => 'string_textfield',
@@ -140,6 +150,7 @@ public static function baseFieldDefinitions(Entity
       ->setLabel(t('Path'))
       ->setDescription(t('The location this shortcut points to.'))
       ->setRequired(TRUE)
       ->setRevisionable(TRUE)
+
       ->setSettings([
         'link_type' => LinkItemInterface::LINK_INTERNAL,
         'title' => DRUPAL DISABLED,
```

2. Update hook

- Copy/paste from the documentation
- https://drupal.org/node/2908951#step2

3. Post-update hook

```
+++ b/core/modules/shortcut/shortcut.post update.php
@@ -0,0 +1,30 @@
+<?php
+/**
+ * @file
+ * Post update functions for the Shortcut module.
+ */
+use \Drupal\Core\Entity\Sql\SqlContentEntityStorageSchemaConverter;
+/**
+ * Update shortcuts to be revisionable.
+ */
+function shortcut post update make shortcut revisionable(&$sandbox) {
   $revisionableSchemaConverter = new SqlContentEntityStorageSchemaConverter(
     'shortcut',
+
     \Drupal::entityTypeManager(),
     \Drupal::entityDefinitionUpdateManager(),
     \Drupal::service('entity.last installed schema.repository'),
     \Drupal::keyValue('entity.storage_schema.sql'),
     \Drupal::database()
+
   );
+
+
   $revisionableSchemaConverter->convertToRevisionable(
+
     $sandbox,
+
       'title',
       'link',
+
+}
```

And don't forget...

```
/var/www/html # drush updb
The following updates are pending:
shortcut module :
  8400 - Add the 'published' and revisionable metadata fields to shortcuts.
shortcut module :
  Update shortcuts to be revisionable.
```

Do you wish to run all pending updates? (y/n):

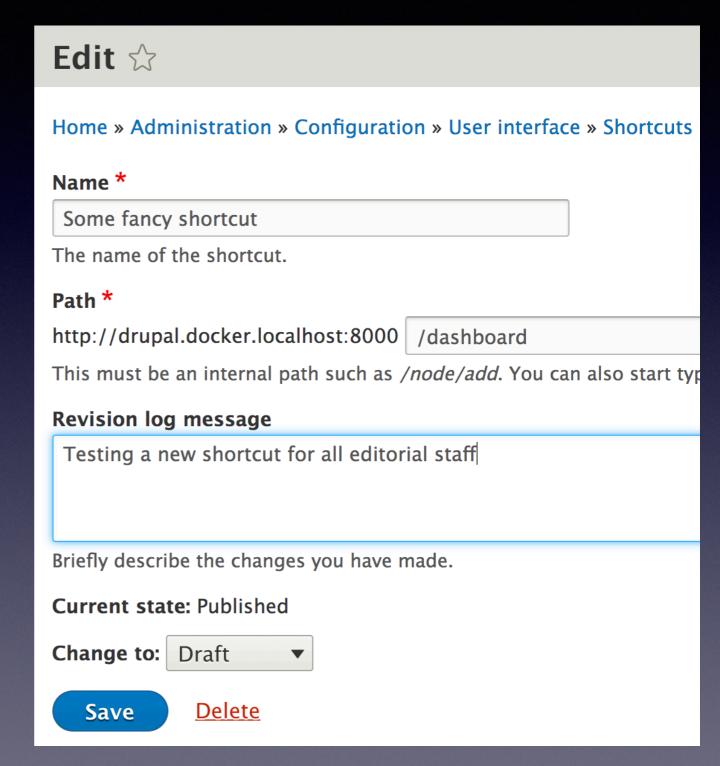
Done!

More details: https://drupal.org/node/2908951

Before

Home » Administration » Configuration » User interface » Shortcuts Name * Add content The name of the shortcut. Path * http://drupal.docker.localhost:8000 /node/add This must be an internal path such as /node/add. You can also start typin Save Delete

After



Who's currently upgrading?

- Core: Many content entity types being converted
- Multiversion: Upgrade path to make itself redundant WIP
- Workbench Moderation: Upgrade path WIP https://drupal.org/project/wbm2cm

Credits

- https://drupal.org/node/2721313
- ~1 year long issue
- 150+ comments
- Multiple rewrites
- Thanks to amateescu, timmillwood et. al.!

Thank you!

Questions?

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