

Migrating into Drupal 8

Migrando a Drupal 8

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Presentation shamelessly borrowed
and tweaked by

Michael Anello
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for

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The Big Picture

- Upgrading between major versions of Drupal is hard.
- Previous Drupal core upgrade paths migrated configuration and content.
- Previous Drupal core upgrade paths were not extensible.
- Most people opted to “migrate and rebuild”.



The Big Picture

- We have a robust data migration tool (Migrate module).
- The Drupal-to-Drupal Migration (7.x) module can migrate content from D5 and D6 to D7.
- Move them into core as the default upgrade path.





But...

- The *Migrate* and *Migrate D2D* modules are only for content.
- We have a lot of Drupal 6 sites that need to be upgraded.



The Solution

- Port the *Migrate* and *Drupal-to-Drupal Migration* modules to Drupal 8.
- Extend them to migrate both configuration and content.
- Provide upgrade paths from Drupal 6 and Drupal 7!
- Make them extensible!



The Plan

- Port Migrate to Drupal core 8.x.
- Re-write Migrate D2D for Drupal core 8.x (migrate_drupal)
- Write Drupal 6 to Drupal 8 migrations.
- Write Drupal 7 to Drupal 8 migrations.
- Migrations are plugins, so they are extendable!



What is migration?

¿Que significa migrar?

- A collection of templates to process data that gets pulled into a new Drupal site
- Old site database and files left in-place and not altered in any way



The history: “drupal-to-drupal” La historia: “drupal-a-drupal”

- Built for Drupal 7
- Package of templates that includes support for most core components of D5, D6 and D7
- Extendable through OOP
- Developed as a prototype of alternative upgrade path





Migrate is now in core! (goodbye upgrading)

¡Migrate ya esta en el core! (adios actualizaciones)

- Upgrade system has been dropped. Important data transformations now all happen during migration
- Skipping over core versions is now built-in and will be supported (D6→D8)
- All core elements are to be supported
- Probably not 100% ready in 8.0.0, expect it to be feature complete near 8.1.x



The Swan Song of Drupal 6

La última canción de Drupal 6

- With the release of Drupal 8 support for D6 will stop*
- Priority is D6→D8 path built-in ✓
- D7 → D8 is in progress
- D8 → D8 to come

*maybe not (may be extended)



What is going to be migrated?

¿Qué vamos a migrar?

- Everything supported in D8 core will get pulled in from D6 (even from contrib if it is now core)
 - Configuration: yes (new!)
 - Content: yes (imports i18n also)
 - in total about 100 built-in migrations for D6
 - Views templates in development
 - D7 templates in development



Multilingual migrate

Migrate multilinguaje

- If you use multilingual: *test, test, test!*
- D8 has all multilingual modules built in
- Migration will change nodes to entity translation
 - One node = all translations!
- Configuration translations get imported!



How it works! Let's migrate

Cómo funciona - ¡Vamos a migrar!

- Install Drupal 8 on host with access to your D6 database
- Enable the core modules that will be necessary for your site (translation support, aggregator, etc)
- Enable migrate and migrate_drupal modules





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LATIN AMERICA



The migration runner UI

El motor de migraciones

- Install migrate_upgrade contrib module
- Go to /upgrade in your browser
- Input database credentials for the D6 site
- Put an http URL where migration can find public files
- Filesystem path for private files
- *Go!*



Drupal Upgrade: Source site information ☆

[Home](#)

This form is used for importing configuration and content from a previous version of your Drupal site. Make sure you have backups of your destination site before submitting this form. Also, ensure that the source database and files are accessible to the destination site. For more details, see [upgrading from previous versions](#).

• SOURCE SITE

Source site address

Enter the address of your current Drupal site (e.g. "http://www.example.com"). This address will be used to retrieve any public files from the site.

• SOURCE DATABASE



Database host *

localhost

Database name *

Database username *

lunes8

Database password

ADVANCED OPTIONS

FILES

Private file directory

If you have private files on your current Drupal site which you want imported, please copy the complete private file directory to a place accessible by your new Drupal 8 web server. Enter the address of the directory (e.g. */home/legacy_files/private* or *http://private.example.com/legacy_files/private*) here.

Perform upgrade



Run, migrate, run!

¡Corre, migrate, corre!

- Config runs first (will create content types, etc first), then import content
- PrepareRow hook runs after load and before write (use this to override)



[Home](#)

Imported Drupal 6 global field configuration



37%



multilingual d6

the translated content of yesteryear

Home

✓ Content import complete.

9 migrations succeeded

9 migrations failed

[Review the detailed migration log](#)

Congratulations, you upgraded Drupal!

Search

Frontpage English

View

Edit

Delete

Published status type

Title

- Any - - Any -

Filter

With selection

Delete selected content

Apply

<input type="checkbox"/>	TITLE	CONTENT TYPE	AUTHOR	STATUS	UPDATED	OPERATIONS
<input type="checkbox"/>	Default language / Language neutral	Page	Ryan	Published	05/02/2014 - 16:38	Edit
<input type="checkbox"/>	English 2	Page	Ryan	Published	05/02/2014 - 16:38	Edit
<input type="checkbox"/>	French 2	Page	Ryan	Published	05/02/2014 - 16:38	Edit
<input type="checkbox"/>	Frontpage English	Page	Ryan	Published	05/02/2014 - 16:38	Edit
<input type="checkbox"/>	Frontpage French	Page	Ryan	Published	05/02/2014 - 16:38	Edit

Apply

To drush, or not to drush?

¿Usar drush o No?

- Historically there has been a recommendation to use drush
- Officially we must support the UI now, 100%
- It is still possible to use command line
 - Some people prefer to use drush always because it is easy to customize



How will customizations be implemented? ¿Cómo implementar las personalizaciones?

- Manifest file can specify which migrations to run (similar to old Drupal-to-Drupal process)
- Most things can be handled in the new hook
 - reject items you don't want to import
 - remove problem text and artifacts from weird modules
 - populate unsupported fields with data
- Custom entities / “handlers” will go into a D8 plugin



Doing it with drush

Haciendolo con drush

- manifest.yml in the root
- - d6_user_role
- - d6_user
- - d6_filter_format
- - d6_locale_settings
- - d6_language_negotiation
- - d6_language_types
- - d6_language
- # run “drush config-list|grep migrate” to see all templates
- drush migrate-manifest --legacy-db-url=mysql://d6user:d6pass@localhost/d6 manifest.yml



What will need customization?

¿Qué va a necesitar personalización?

- Only custom entities should need porting
- Data cleanup tasks (housekeeping)
- Adapting to your new layout, placing the blocks in your new theme



How to use the customization hook

Cómo usar hook personalizado

```
/**
```

```
* Allows adding or altering data to a row
```

```
* before processing it.
```

```
* hook_migrate_MIGRATION_ID_prepare_row is  
  also available.
```

```
*/
```

```
function hook_migrate_prepare_row(Row $row,  
  MigrateSourceInterface $source, MigrationInterface  
  $migration) { // customizations here }
```



What is a plugin?

¿Qué es un plugin?

- Single file with a migration class
- No registration necessary, copy an example that is close to what you want
- Make sure to update the annotation / comments!
- Put it in the subfolder of your module
- Blocks are a good example plugin



What still needs some polish

Lo que todavía necesita mejorar

- D6 migrations may have some “small” bugs
- Templates need to be created for D8→D8 and D7→D8
- Rollbacks, incremental, other advanced migrate features now on the roadmap 2015-01
- **EXPECT** to re-migrate when new version of core is ready



Getting involved

Cómo contribuir

- Join <http://groups.drupal.org/imp>
- Chat on IRC in #drupal-migrate (freenode.net)
- Participate in weekly G+ hangout for progress updates at 21h00 (9pm) EST (-0500) every Wednesday
- Create plugins for your custom contrib entities
- Test, test, test! Run against your most complex sites. Report problems.



Reporting issues

Cómo informar issues

- Drupal core → Migration system : <https://drupal.org/project/issues/drupal>
 - Migration runner
 - D6→D8 issues, particularly i18n
 - Some D7 work will happen in a separate sandbox repository



Things to keep in mind

Cosas para tener presente

- Migrate path to D8 will not likely be “official” until 8.1.x (at least for the UI)
- Migrate is in core now
- You may need to re-migrate with each new core version until then
- Sites that have been upgraded multiple times have riskiest (potentially corrupted) data, please test these as much as possible (D4.7→D5→D6→D8)



Other options

Otras opciones

- Copy and paste for small brochure sites?
- Use a deployment module to create some of your (new) configuration
 - Create nodes programmatically for small sites



Resources

Herramientas

- Developer guide <https://www.drupal.org/developing/api/8>
- Examples module <https://www.drupal.org/project/examples>
- Drupal 8 API docs <https://api.drupal.org/api/drupal/8>
- Change records for d8: <https://www.drupal.org/list-changes>



Questions ?
¿Preguntas?

Find me tomorrow

I'll get you started!

