

Introduction to Migration

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The world is how we shape it

sopra  steria



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Who I am?

- Working 20h year in the web business as PHP developer / analyst / teacher
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01

Migration introduced in core since Drupal 8







01

What is a migration in Drupal?

- Framework to get content into Drupal
- Creating a migration is done via a **YAML** file in the **config/sync** folder
- Content can be migrated **once**, can be **synced** on a regular basis, or can be **incrementally added**

First there was D6/7, now content can come in from any source



- **Migrate** module was introduced in D8.0
-   via **migrate_drupal** module since D8.0
-    via **migrate_plus** contrib module since 2014
-  via **migrate_source_csv** contrib module since 2015

Is a migration still relevant in +D10?



...



- Not every one originally choose Drupal
- It is never too late to choose Drupal. Drupal is attractking more and more people.
- Drupal is not always the single point of content: Not all data is/should be managed in Drupal (it can come out of IAM, CRM, ERP, ...)

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Migration YAML

02

Migration YAML

- **Configuring a migration is done in a YAML file and synced to Drupal via**

```
drush config:import (cim)
```

- **If you want to make the migration available in the migrations UI you have to create it in the `/config/sync` folder with the filename:**

```
migrate_plus.migration.[migration_id].yaml
```


Migration YAML

Basic structure

```
label: \.../  
id: ...  
migration_group: ...  
...  
source:  
  ...  
process:  
  ...  
destination:  
  ...
```

source: describes the source structure (fields, identifiers, ...)

process: describes the mapping of source fields to Drupal entity properties via a pipeline.

destination: describes the destination entity type and bundle (if the entity type has bundles).

Migration YAML

Source - plugin

```
...  
source:  
  plugin: [plugin_id]  
  ...  
...
```

The `plugin` refers to the **source type**

Examples: `embedded_data`, `url`, ...

Migration YAML

Source – fields / ids


```
...
source:
  plugin: ...
  fields:
    [the fields the source contains]
  ids:
    [source field identifier]:
      type: [type of the identifier value]
...
```

- **fields:**
 - The description of the source fields involved in the migration
- **ids:**
 - **Every item** to be migrated from the source needs a **unique identifier value** that is the reference in the migration.
 - The unique identifier makes it possible to **update** an existing entity **once it is created**.
 - The unique identifiers are stored in a migration map table

Migration YAML

Process - properties mapping pipeline

```
process:
  [entity_property_1]: [source_field_1]
  [pseudo_property]:
    plugin: [process plugin ID]
    [process plugin parameters]
    source:
      - [source_field_2]
      - [source_field_3]
  [entity_property_2]:
    -
      plugin: [process plugin_ID]
      source: [@pseudo property]
    -
      plugin: [process plugin ID]
```



- Drupal `entity_property_1` that gets the value of `source_field`
- pseudo property that gets a value that is processed via a process plugin (with parameters `source_field_1` & `source_field_2`)
- Drupal `entity_property_2` that gets a value via 2 process plugins:
 - the first one gets `pseudo_property` as parameter)
 - The second one get the result of the first process as parameter

Migration YAML

Destination

```
...  
destination:  
  plugin: 'entity:[entity_type_id]'  
...
```

The plugin that defines to which entity type the content is mapped to.

If the entity type supports bundles and extra parameter `default_bundle` is required.

```
plugin: 'entity:node'  
default_bundle: 'article'
```

—
04

**Enough talking, let's
create our first migration**

05

Q&A



**SCAN QR FOR
SLIDES AND YAML FILES**

Thank you!