# Drupal 8: Building Drupal 8 CMS Modules and Adding Hooks.

# Drupal Modules now use YML YML uses spaces for Indentation

#### **SPACES VS TABS**

YML uses spaces, period.

Do not use tabs in your YML files! If strange errors are coming up in rendering YML files, make sure to check that no tabs have crept in!

In Vim, after enabling search highlighting with: :set hlsearch, you can check with the following key sequence in normal mode(you can hit ESC twice to be sure): /, Ctrl-v, Tab, then hit Enter.

Also, you can convert tabs to 2 spaces by these commands in Vim: :set tabstop=2 expandtab and then :retab.

#### YML or YAML Indentation

#### Why does YML forbid tabs?

Tabs have been outlawed since they are treated differently by different editors and tools. And since indentation is so critical to proper interpretation of YAML, this issue is just too tricky to even attempt. Indeed Guido van Rossum of Python has acknowledged that allowing TABs in Python source is a headache for many people and that were he to design Python again, he would forbid them.

#### YML or YAML Indentation

#### **INDENTATION**

The suggested syntax for YML files is to use 2 spaces for indentation, but YML will follow whatever indentation system that the individual file uses. Indentation of two spaces works very well for YML files given the fact that the data is uniform and not deeply nested.

# Issues with D8 Custom Modules on Codeanywhere

- The modules folder ownership is set to "www-data" at the end of the Codeanyhwere D8 build script.
- This change is required if we wan to install modules as a site admin within the Drupal website.
- However, when we do this, we can no longer create folders or files form the Codeanywere IDE, as the use is cabox, not www-data.
  - So in order to build the D8 custom module we have to temporarily set the modules folder ownership back to cabox:cabox
- And remember to set it back to "www-data:www-data" when we are done configuring the D8 custom module

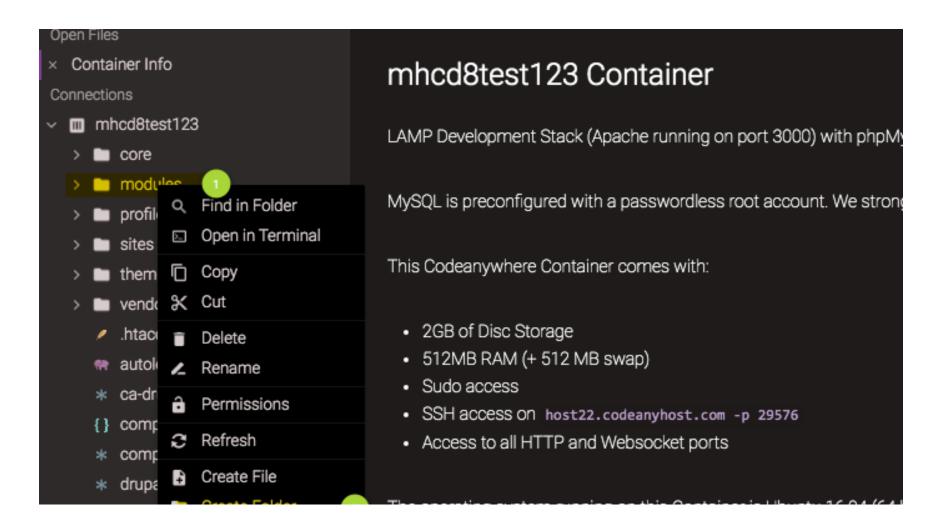
# Set folder ownership of the modules folder to cabox:cabox

```
total 1056
drwxrwsr-x
            8 cabox
                       cabox
                                   4096 Jan 3 19:25 ./
                                            3 19:24
                       cabox
drwxr-xr-x 13 cabox
                                   4096 Jan
                                    313 Dec 18 16:02 autoload.php
            1 cabox
                       cabox
-rw-r--r--
                                             2 19:08 ca-drupal8.y.z-basic-builder.sh*
            1 cabox
                       www-data
-rwxr-xr-x
                                            3 19:24 composer.json
-rw-r--r--
            1 cabox
                       cabox
                                   2830 Jan
                                 133978 Dec 18 15:57 composer.lock
            1 cabox
                       cabox
-rw-r--r--
drwxr-xr-x 12 cabox
                                   4096 Dec 18 16:02 core/
                       cabox
                                831267 Jan 3 19:25 drupal.phar
            1 cabox
                       cabox
-rw-rw-r--
                                   1507 Dec 18 16:02 example.gitignore
            1 cabox
                       cabox
                                   7878 Dec 18 16:02 .htaccess
            1 cabox
                       cabox
                                    549 Dec 18 16:02 index.php
            1 cabox
                       cabox
            1 cabox
                       cabox
                                  18092 Nov 16
                                                2016 LICENSE.txt
-rw-r--r--
            3 www-data www-data
                                   4096 Jan 3 18:33 modules/
drwxr-xr-x
                                   5889 Dec 18 16:02 README.txt
            1 cabox
                       cabox
            1 cabox
                       cabox
                                   1594 Dec 18 16:02 robots.txt
-rw-r--r--
            3 cabox
                       cabox
                                   4096 Dec 18 16:02 sites/
drwxr-xr-x
           2 www-data www-data
                                   4096 Dec 18 16:02 themes/
drwxr-xr-x
            1 cabox
                       cabox
                                    848 Dec 18 16:02 update.php
-rw-r--r--
drwxr-xr-x 20 cabox
                       cabox
                                   4096 Dec 18 16:02 vendor/
            1 cabox
                       cabox
                                   4566 Dec 18 16:02 web.config
-rw-r--r--
cabox@mhcd8test123:~/workspace$
```

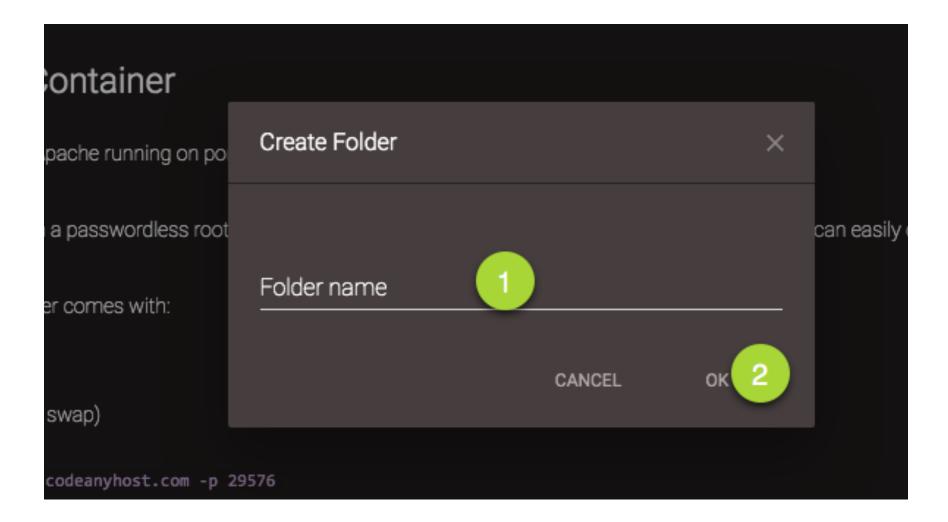
## Command sudo chown cabox:cabox modules

```
cabox@mhcd8test123:~/workspace$ sudo chown cabox:cabox modules
cabox@mhcd8test123:~/workspace$ ll
           8 cabox
                       cabox
                                  4096 Jan 3 19:25 ./
drwxrwsr-x
drwxr-xr-x 13 cabox
                       cabox
                                  4096 Jan 3 19:24
-rw-r--r-- 1 cabox
                       cabox
                                   313 Dec 18 16:02 autoload.php
-rwxr-xr-x 1 cabox
                       www-data
                                  4203 Jan 2 19:08 ca-drupal8.y.z-basic-builder.sh*
-rw-r--r-- 1 cabox
                       cabox
                                  2830 Jan 3 19:24 composer.json
-rw-r--r-- 1 cabox
                       cabox
                                133978 Dec 18 15:57 composer.lock
drwxr-xr-x 12 cabox
                                  4096 Dec 18 16:02 core/
                       cabox
-rw-rw-r-- 1 cabox
                                831267 Jan 3 19:25 drupal.phar
                       cabox
-rw-r--r-- 1 cabox
                                  1507 Dec 18 16:02 example.gitignore
                       cabox
                                  7878 Dec 18 16:02 .htaccess
-rw-r--r-- 1 cabox
                       cabox
                                   549 Dec 18 16:02 index.php
-rw-r--r-- 1 cabox
                       cabox
-rw-r--r-- 1 cabox
                       cabox
                                    95 Dec 18 16:02 INSTALL.txt
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            I CAUUX
                                  4096 Jan 3 18:33 modules/
drwxr-xr-x 3 cabox
                       cabox
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                       cabox
                                  5889 Dec 18 16:02 README.txt
                       cabox
-rw-r--r-- 1 cabox
                                  1594 Dec 18 16:02 robots.txt
drwxr-xr-x 3 cabox
                       cabox
                                  4096 Dec 18 16:02 sites/
                                  4096 Dec 18 16:02 themes/
drwxr-xr-x 2 www-data www-data
-rw-r--r-- 1 cabox
                       cabox
                                   848 Dec 18 16:02 update.php
                                  4096 Dec 18 16:02 vendor/
drwxr-xr-x 20 cabox
                       cabox
                                  4566 Dec 18 16:02 web confid
-rw-r--r-- 1 cabox
                       cabox
```

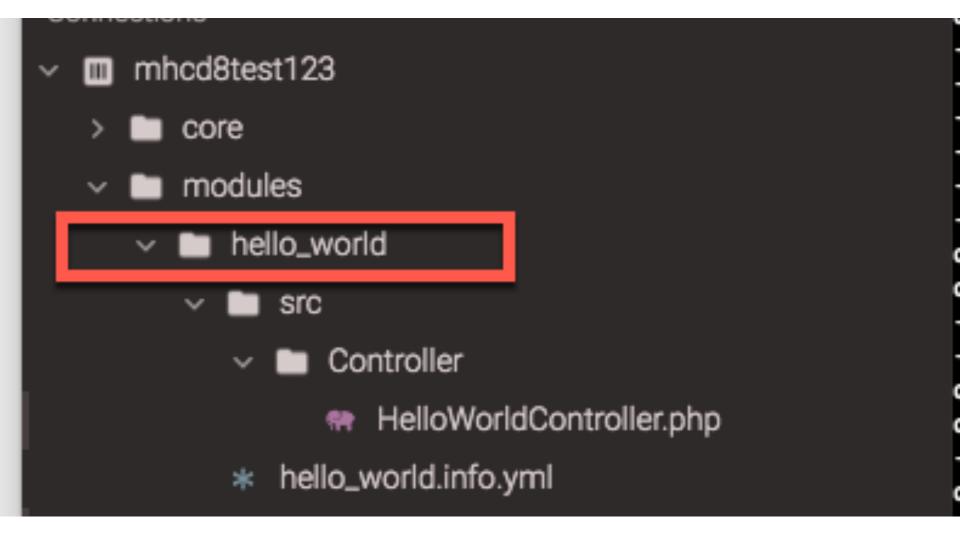
## Create the folder named hello\_world under the modules folder



### Enter folder name and press OK



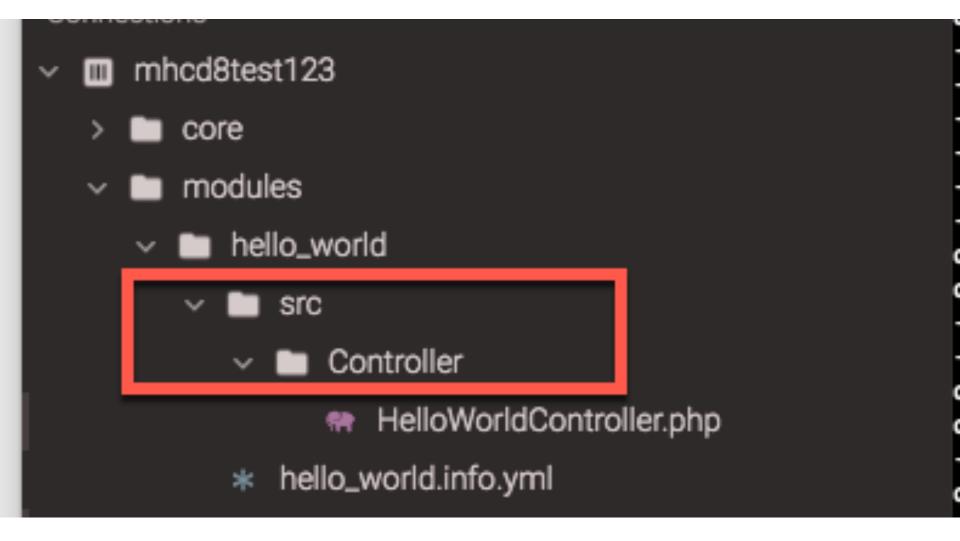
# Create folder hello\_world under the modules folder



# The module sub-folder name serves as the machine name for the module

 Out folder is named hello\_world so our Drupal 8 custom module machine name (a unique name) is hello\_world

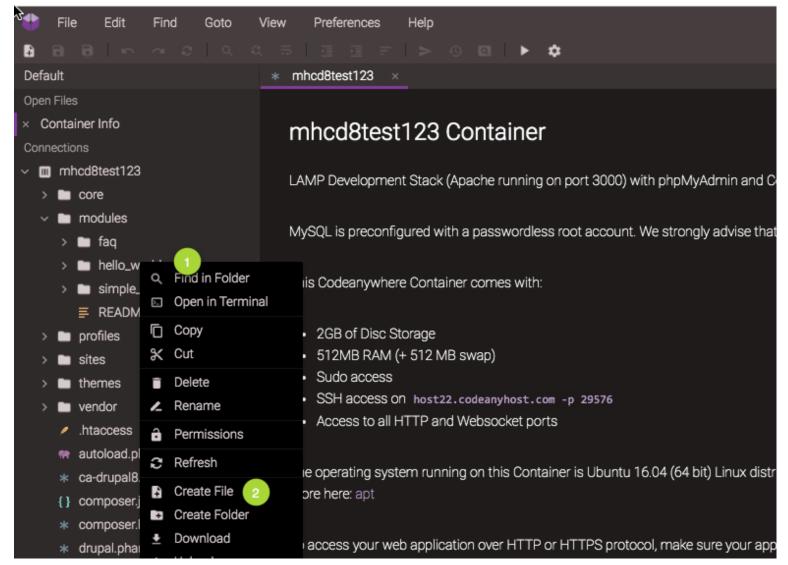
#### Create src & Controller folders



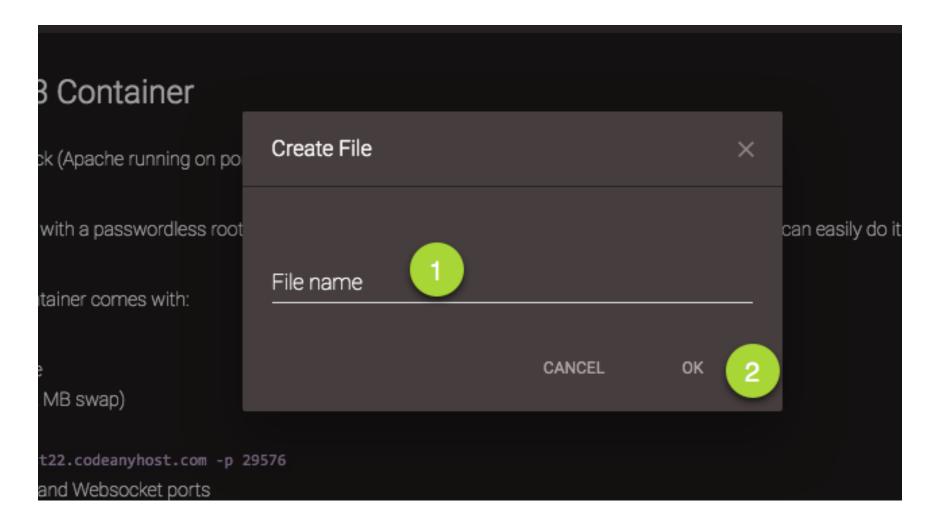
#### Create empty files or copy up existing

- In the Tutorial I copy up existing custom module files to the new folders.
- You can also copy the existing files to the folder or create your own versions of the YML and Controller files
- When creating your own custom modules, you can create the files on your computer and upload them to the Drupal file system as long as they are created on an ASCII editor, like Brackets and not on Microsoft Word or NotePad.

### Create empty files or copy up existing



#### Enter file name + extension and press OK

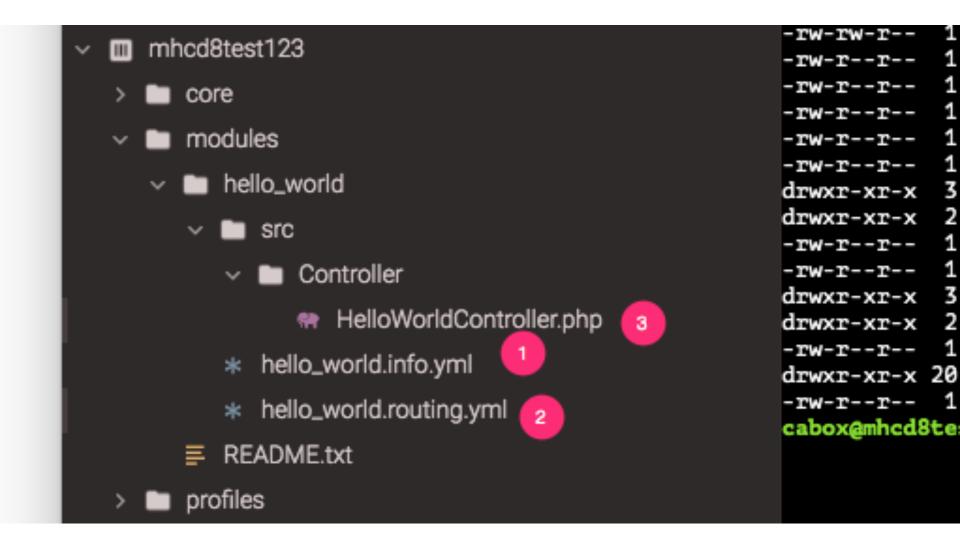


### Create the following empty files

- Create YML files in the hello\_world folder
  - hello\_world.info.yml
     To define our site parameters
  - hello\_world.routing.yml

- Create a PHP file in the hello\_world\src\Controller folder
  - HelloWorldController.php

#### Create the files in the folders as follows



# .info.yml [INSTALL PROFILE] contains parameters

- An .info.yml file (aka. "info yaml file") is an essential part of a Drupal 8 module, theme, or install profile to store metadata about the project.
- These .info.yml files are required to:
  - Notify Drupal about the existence of a module, theme, or install profile.
  - Differ theme, module by type.
  - Provide information for the Drupal Web UI administration pages.
  - Provide criteria to control module activation and deactivation and Drupal version compatibility.
  - General administrative purposes in other contexts.

### Create hello\_world.info.yml

```
mhcd8test123 × * hello_world.info.y ×
 name: Hello World
 type: module
 description: Display Hello World
 package: Custom
 core: 8.x
```

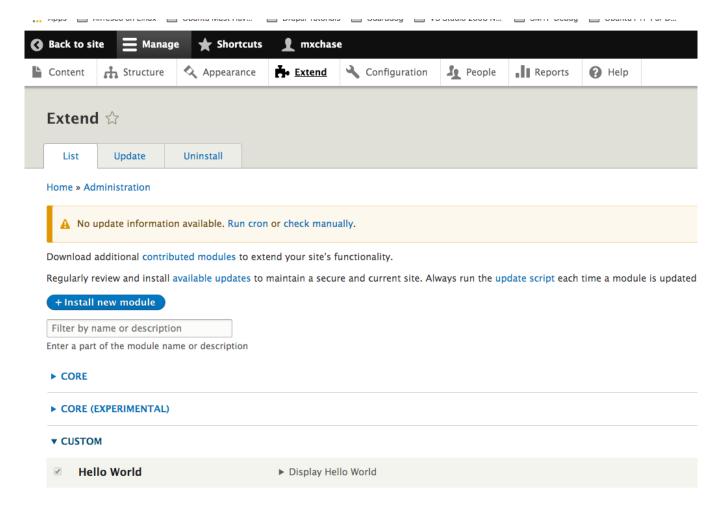
### Create hello\_world.info.yml

```
hello_world.info.y ×
name: Hello World
     module
description: Display Hello World
package: Custom
core:
```

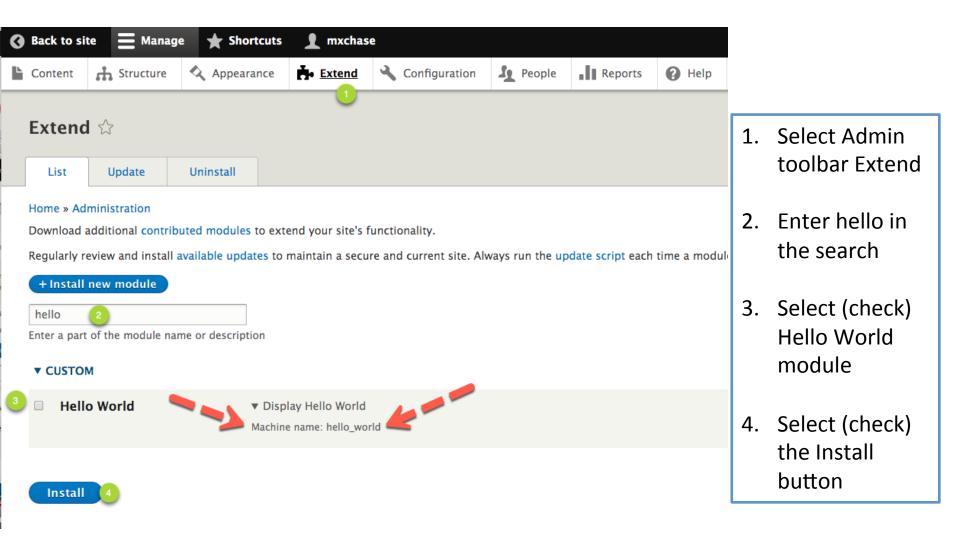
# Info.yml decoded name, type and core are required keys.

- The first three lines are primarily used in the administration UI when allowing users to enable or disable your module.
  - The name and description keys provide the text that is shown on the module administration page and the package key allows you to group like modules together.
  - Core, for example, uses package: Core to group all of the modules provided with Drupal 8 together, likewise you might use package: Custom to group all of your projects custom modules together making them easier to locate and enable.
- The type key, which is new in Drupal 8, indicates the type of extension, e.g. module, theme, or profile.
- The core key specifies with which Drupal core version your module is compatible.

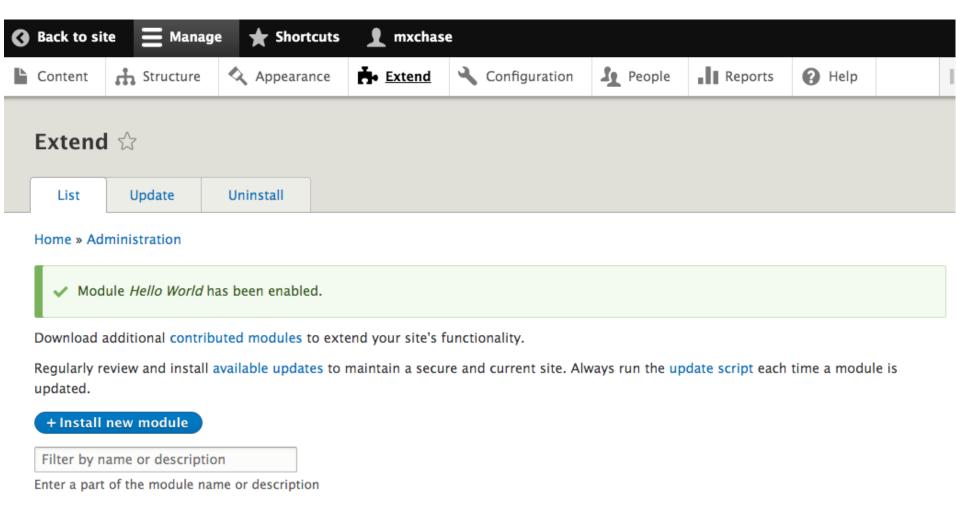
# Module should now be visible on the Extends page



### Find an Enable the "Hello World" module with machine name hello\_world on the Extends page



# We have successfully enabled the "Hello World" module



### Next steps – Define Routs

- We need to define the routs that will activate our module
- To do this we will create a new file named hello\_world.routing.yml
- The routing file starts with our machine name of hello world
- The routing file has the path "/hello/world" that if accessed we set some defaults to which controllers should be accessed or called
- Next we set permissions or access content

# Once the "Hello World" module is enabled Create the file hello\_world.routing.yml

```
* mhcd8test123 x * hello_world.routir x

1 hello_world:
2   path: /hello/world
3   defaults:
4    _controller: Drupal\hello_world\Controller\HelloWorldController::hello
5   requirements:
6   _permission: 'acccess content'
```

#### Create the Controller in the src folder

- Under the hello\_world folder create a new folder named src
- src is the source folder and it is where all the code for this module resides
- User the src folder create a new sub-folder named Controller, where all the Controllers will reside (we will have only 1 Controller)
- Create a new file PHP empty file named HelloWorldController.php

#### The Contoller PHP File

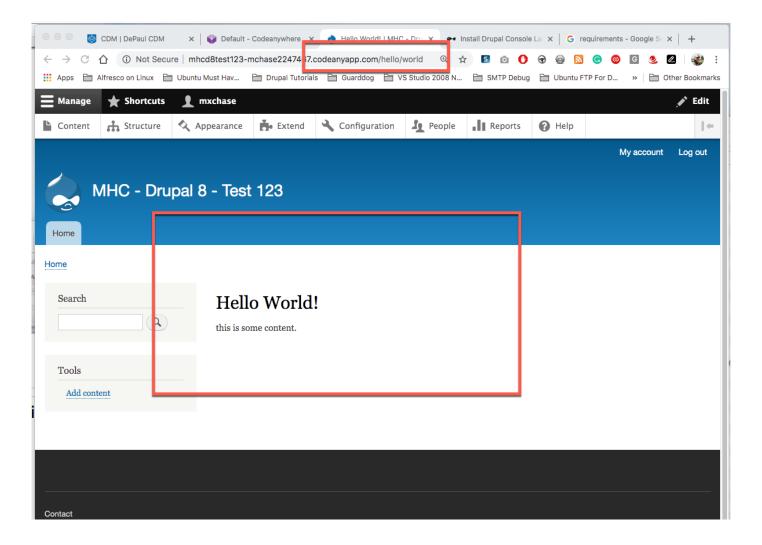
- The Controller PHP file starts with a start PHP tag
   <?php</li>
- Create the class and add a namespace, getting it form the routing file
- Create the hello method as a public method
- Return a rendered array Drupal 8 supports returning symphony responses, that Drupal is built on top of or a rendered array.

### Also Create HelloWorldController.php

```
mhcd8test123 × * hello_world.routir× 🖛 HelloWorldContrc×
    <?php
    namespace Drupal\hello_world\Controller;
5 - class HelloWorldController {
      public function hello() {
        return array(
            '#title' => 'Hello World!',
            '#markup' => 'this is some content.'
10
          );
```

#### Access the Hello World custom plugin

#### [D8 site URL]/hello/world



### **Drupal 8 Hooks API**

- Hooks define functions that alter the behavior of Drupal core.
- Hooks are a way modules can alter the core behavior of Drupal (or another module.
- Hooks are specially-named functions that a module defines (this is known as "implementing the hook"), which are discovered and called at specific times to alter or add to the base behavior or data (this is known as "invoking the hook").
- Each hook has a name (example: hook\_batch\_alter()), a defined set of parameters, and a defined return value.
- Your modules can implement hooks that are defined by Drupal core or other modules that they interact with.
- Your modules can also define their own hooks, in order to let other modules interact with them.

### To implement a Drupal 8 hook

- Locate the documentation for the hook. Hooks are documented in \*.api.php files, by defining functions whose name starts with "hook\_" (these files and their functions are never loaded by Drupal -- they exist solely for documentation).
  - The function should have a documentation header, as well as a sample function body.
  - For example, in the core file system.api.php, you can find hooks such as hook\_batch\_alter().
  - Also, if you are viewing this documentation on an API reference site, the Core hooks will be listed in this topic.

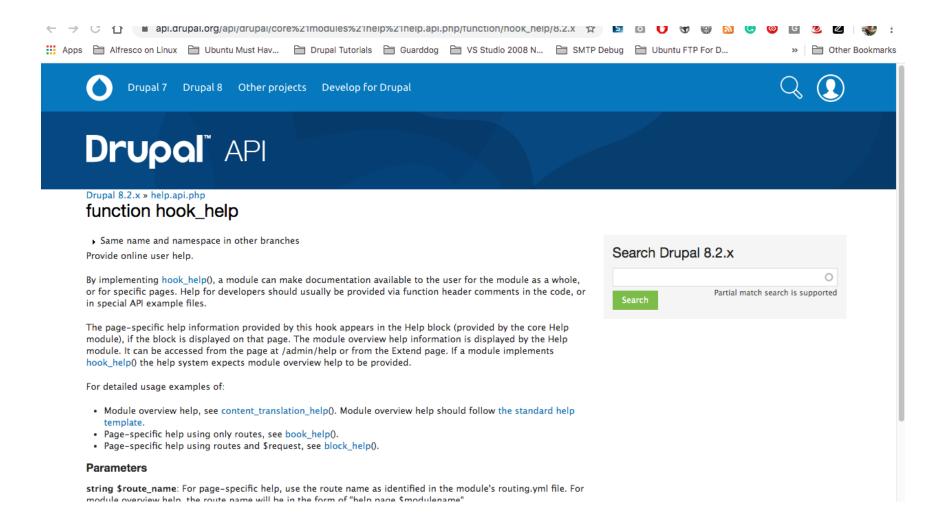
### **Drupal 8 Hooks List**

https://api.drupal.org/api/drupal/core!core.api.php/group/hooks/8.2.x

l	Apps	Alfresco on Linux	🗎 Ubuntu Must Hav	□ Drup	al Tutorials 🗎 Guarddog	Studio 2008 N	SMTP Debug	Ubuntu FTP
		core/core.api.php, line 1618  Documentation landing page and topics, plus core library hooks.						
		Functions						
l		Name			Location	Description		
1		hook_ajax_render_al	lter		core/lib/Drupal/Core/ Form/form.api.php	Alter the Ajax comma	and data that is	
		hook_archiver_info_a	alter		core/lib/Drupal/Core/ File/file.api.php	Alter archiver information other modules.	ation declared by	
		hook_batch_alter			core/lib/Drupal/Core/ Form/form.api.php	Alter batch informati	on before a batch	
		hook_block_access			core/modules/block/ block.api.php	Control access to a b	lock instance.	
		hook_block_build_al	ter		core/modules/block/ block.api.php	Alter the result of \Drupal\Core\Block\	BlockBase::build().	
		hook_block_build_B/	ASE_BLOCK_ID_alter		core/modules/block/ block.api.php	Provide a block plugi block_build alteration	•	
		hook_block_view_alt	er		core/modules/block/ block.api.php	Alter the result of \Drupal\Core\Block\	BlockBase::build().	
		hook_block_view_BA	SE_BLOCK_ID_alter		core/modules/block/ block.api.php	Provide a block plugi block_view alteration	•	
		hook_cache_flush			core/core.api.php	Flush all persistent a	nd static caches.	
		hook_ckeditor_css_a	llter		core/modules/ckeditor/ ckeditor.api.php	Modify the list of CSS added to a CKEditor i		
1								

#### **Drupal 8 Hooks List**

https://api.drupal.org/api/drupal/core!core.api.php/group/hooks/8.2.x Scroll down and find hook\_help, click the link



# Copy the code example into your .module file

#### File

core/modules/help/help.api.php, line 47 Hooks for the Help system.

#### Code

```
function hook_help($route_name, \Drupal\Core\Routing\RouteMatchInterface $route_match) {
  switch ($route_name) {
// Main module help for the block module.
    case 'help.page.block':
     return '' . t('Blocks are boxes of content rendered into an area, or region, of a web page. The
default theme Bartik, for example, implements the regions "Sidebar first", "Sidebar second", "Featured",
"Content", "Header", "Footer", etc., and a block may appear in any one of these areas. The <a
href=":blocks">blocks administration page</a> provides a drag-and-drop interface for assigning a block to a
region, and for controlling the order of blocks within regions.', array(
        ':blocks' => \Drupal::url('block.admin_display'),
     )) . '';
   // Help for another path in the block module.
    case 'block.admin_display':
     return '' . t('This page provides a drag-and-drop interface for assigning a block to a region, and
for controlling the order of blocks within regions. Since not all themes implement the same regions, or
display regions in the same way, blocks are positioned on a per-theme basis. Remember that your changes will
not be saved until you click the <em>Save blocks</em> button at the bottom of the page.') . '';
 }
}
```

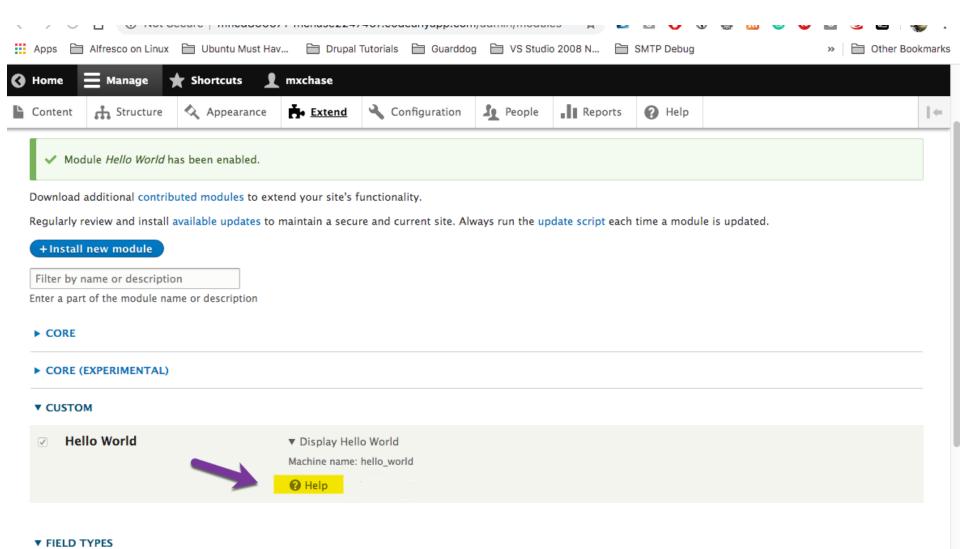
# To implement a hook: After finding the hook

- Copy the function to your module's .module file.
- Change the name of the function, substituting your module's short name (name of the module's directory, and .info.yml file without the extension) for the "hook" part of the sample function name. For instance, to implement hook\_batch\_alter(), you would rename it to my\_module\_batch\_alter().
- Edit the documentation for the function (normally, your implementation should just have one line saying "Implements hook\_batch\_alter().").
- Edit the body of the function, substituting in what you need your module to do.

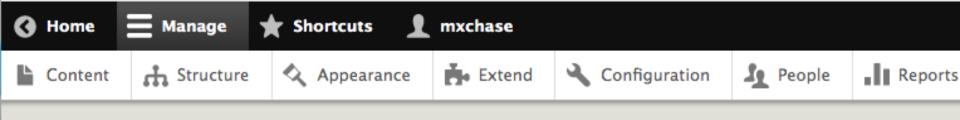
# Change the Hook code to reflect the custom module namespace

```
olumes/Worker/DePaul IT320 Winter 2020 Online ONLY/Modules 1-11/Module 09/Tutorial 09/Tutorial 09 Assets/Custor
   <?php
   use Drupal\Core\Routing\RouteMatchInterface;
    /**
   */
   function hello world help($route name, RouteMatchInterface $route match) {
      switch ($route name) {
        case 'help.page.hello_world':
            $output= '';
            $output .= '<h3>' . t('About') . '</h3>';
            $output .= '' . t('This is an example module.') . '';
            return $output;
            default;
```

## Test the Hook Help Implementation module must be enabled to see the Help Link



## Hook Help works



#### Hello World 🌣

Home » Administration » Help

#### About

This is an example module.

#### Hook Cron link on list of Hooks

ook_config_import_steps_alter	core/core.api.php	After the configuration synchronization steps.
ook_config_schema_info_alter	core/core.api.php	Alter config typed data definitions.
ook_config_translation_info	core/modules/ config_translation/ config_translation.api.php	Introduce dynamic translation tabs for translation of configuration.
ook_config_translation_info_alter	core/modules/ config_translation/ config_translation.api.php	Alter existing translation tabs for translation of configuration.
ook_contextual_links_alter	core/lib/Drupal/Core/ Menu/menu.api.php	Alter contextual links before they are rendered.
ook_contextual_links_plugins_alter	core/lib/Drupal/Core/ Menu/menu.api.php	Alter the plugin definition of contextual links.
ook_contextual_links_view_alter	core/modules/ contextual/ contextual.api.php	Alter a contextual links element before it is rendered.
ook_countries_alter	core/core.api.php	Alter the default country list.
ook_ <mark>cron</mark>	core/core.api.php	Perform periodic actions.
ook_css_alter	core/lib/Drupal/Core/ Render/theme.api.php	Alter CSS files before they are output on the page.
ook_data_type_info_alter	core/core.api.php	Alter available data types for typed data wrappers.
ook_display_variant_plugin_alter	core/core.api.php	Alter display variant plugin definitions.
ook_editor_info_alter	core/modules/editor/ editor.api.php	Performs alterations on text editor definitions.
ook_editor_js_settings_alter	core/modules/editor/ editor.api.php	Modifies JavaScript settings that are added for text editors.

#### Function hook\_cron



function hook\_cron

Same name and namespace in other branches
 Perform periodic actions.

Modules that require some commands to be executed periodically can implement hook\_cron(). The engine will then call the hook whenever a cron run happens, as defined by the administrator. Typical tasks managed by hook\_cron() are database maintenance, backups, recalculation of settings or parameters, automated mailing, and retrieving remote data.

Short-running or non-resource-intensive tasks can be executed directly in the hook\_cron() implementation.

Long-running tasks and tasks that could time out, such as retrieving remote data, sending email, and intensive file tasks, should use the queue API instead of executing the tasks directly. To do this, first define one or more queues via a \Drupal\Core\Annotation\QueueWorker plugin. Then, add items that need to be processed to the defined queues.

#### Related topics



#### Function hook\_cron example code

#### Code

```
function hook_cron() {

// Short-running operation example, not using a queue:

// Delete all expired records since the last cron run.

$expires = \Drupal::state()

->get('mymodule.last_check', 0);

\Drupal::database()

->delete('mymodule_table')

->condition('expires', $expires, '>=')

->execute();

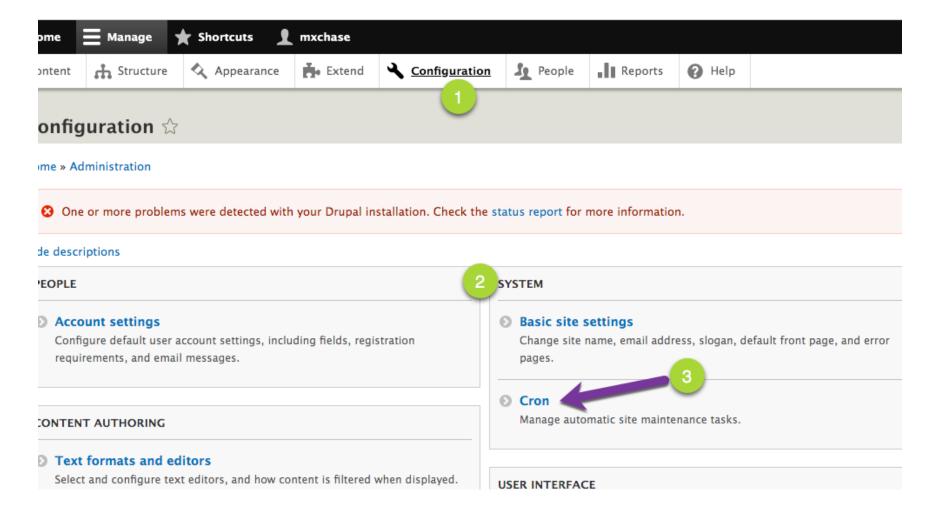
\Drupal::state()

->set('mymodule.last_check', REQUEST_TIME);
```

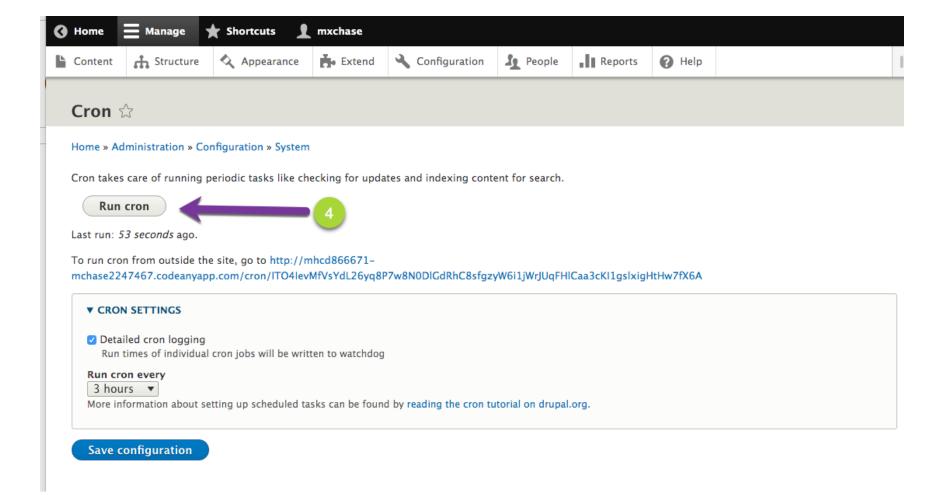
# A more basic implementation of hook\_cron, just post a message

```
20 = }
21
22 ▼ function hello_world_cron() {
23
24    drupal_set_message(t('DON'T PANIC, Its just CRON from Hello World!'), 'warning');
25
26 = }
```

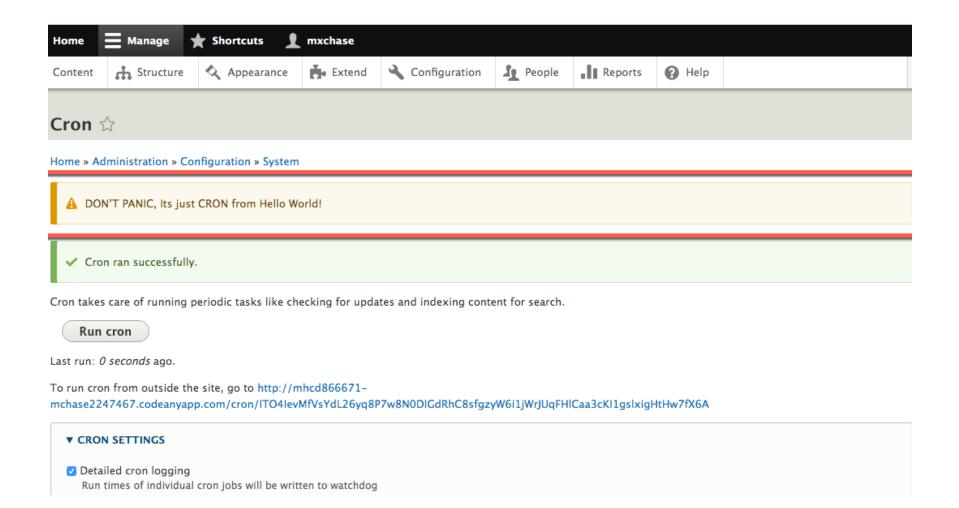
# Test by running CRON 1-3 Access the "Run cron" button



## (4) Press the "Run cron" button



#### Our hello world Cron message



# We need a command line interface (CLI) to clear cache

We need a way to clear the Drupal 8 cache in case we break our Drupal 8 site with our custom module code.

If we do break out site, we will most probably break it so bad that we will not not be able to access the admin backend, so we need a way to clear cache outside of the Drupal admin website.

Our 2 CLI options are Drush and Drupal Console and

#### What are command-line (CLI) tools?

- Command-line tools provide an alternative to using the administrative interface for various operations on your site.
   Many site builders and maintainers have invested the time to install and learn a command-line tool, because:
  - Administrative tasks are typically faster and less tedious when performed at the command line than in the user interface.
  - You can write scripts that combine site-related commands with other commands on the server, to automate more complicated tasks.
  - Command-line tools provide additional functionality not available via the administrative interface; for example, running database queries.

#### CLI(s) Drush

- Drush has been available longer, and has commands for both the core software and contributed modules; this guide documents the Drush commands for many tasks.
- To use DRUSH, you will need to have command-line terminal access to the server where your website will be hosted, and you will need to install Composer first in order to install Drush.

#### **Drush CLI**

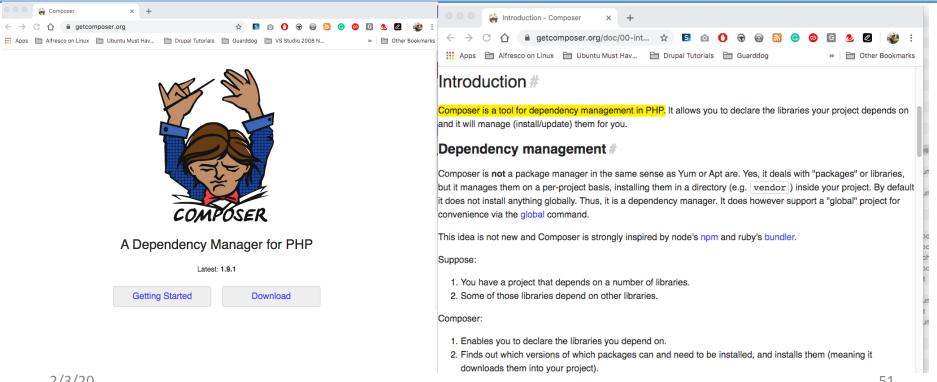
Drush is a computer software shell-based application used to control, manipulate, and administer Drupal websites. On the surface, drush is a tool for updating site modules, however Drush has a more comprehensive list of features.

We install Drush using a composer command.

We can use Drush instead of Drupal console to clear the cache.

#### What is Composer?

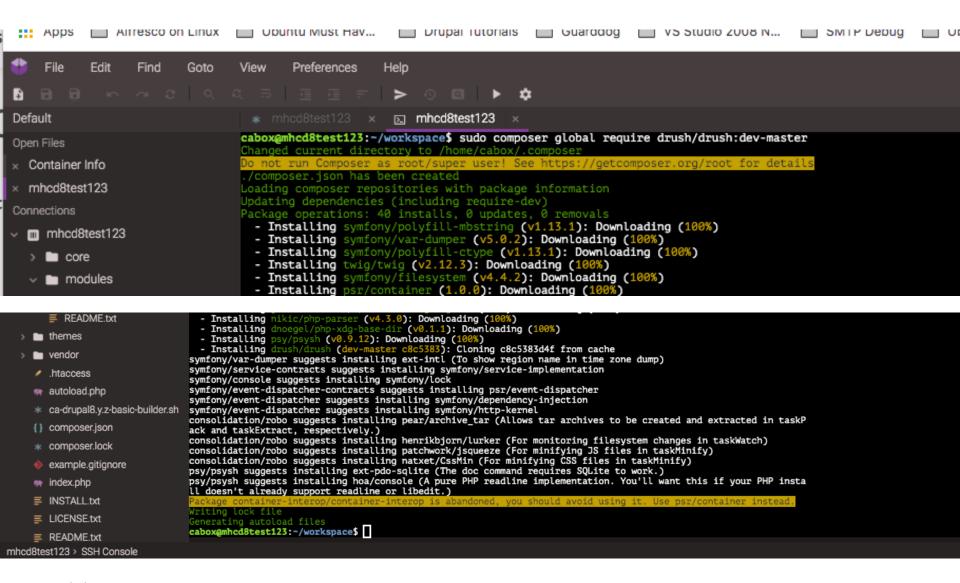
Composer is an application-level package manager for the PHP programming language that provides a standard format for managing dependencies of PHP software and required libraries.



#### To install Drush using composer

- Open an SSH terminal
- 2. Set ownership of the /usr and all its subfolders to cabox:cabox?> sudo chown -R cabox:cabox /usr
- Set ownership of the composer to cabox:cabox
   sudo chown cabox:cabox /usr/local/bin/composer
- 4. Run the composer update command?> composer self-update
- 5. Step 4 check the composer version?> composer –version
- 6. Run the command composer global require drush/drush:dev-master

## Installing Drush via composer



#### At the command line, enter drush to get available commands

```
enerating autoload files
abox@mhcd8test123:~/workspace$ drush
rush Commandline Tool 10.1.2-dev
Run `drush help [command]` to view command-specific help. Run `drush topic` to read even more documentation.
Available commands:
global:
                                             Display a link to a given path or open link in a browser.
  browse
                                             Return the filesystem path for modules/themes and other key folders.
  drupal:directory (dd)
                                             Generate boilerplate code for modules/plugins/services etc.
  generate (gen)
 help
                                             Display usage details for a command.
  jn:get
                                             Execute a JSONAPI request.
  list
                                             List available commands.
                                             Runs PHP's built-in http server for development.
  runserver (rs. serve)
 updatedb (updb)
                                             Apply any database updates required (as with running update.php).
 updatedb:status (updbst)
                                             List any pending database updates.
                                             Show Drush version.
  version
  cache:clear (cc)
                                             Clear a specific cache, or all Drupal caches.
                                             Fetch a cached object and display it.
  cache: get (cg)
  cache: rebuild (cr. rebuild)
                                             Rebuild a Drupal 8 site.
  cache:set (cs)
                                             Cache an object expressed in JSON or var export() format.
 cache:tags (ct)
                                             Invalidate by cache tags.
  config:delete (cdel)
                                             Delete a configuration key, or a whole object.
  config:edit (cedit)
                                             Open a config file in a text editor. Edits are imported after closing editor.
  config:export (cex)
                                             Export Drupal configuration to a directory.
                                             Display a config value, or a whole configuration object.
  config:get (cget)
  config:import (cim)
                                             Import config from a config directory.
                                             Export and transfer config from one environment to another.
  config:pull (cpull)
  config:set (cset)
                                             Set config value directly. Does not perform a config import.
                                             Display status of configuration (differences between the filesystem configura
  config:status (cst)
  core:cron (cron)
                                             Run all cron hooks in all active modules for specified site.
  core:edit (conf, config)
                                             Edit drushrc, site alias, and Drupal settings.php files.
  core:init (init)
                                             Enrich the bash startup file with bash aliases and a smart command prompt.
  core:requirements (status-report, rq)
                                             Information about things that may be wrong in your Drupal installation.
  core:rsync (rsync)
                                             Rsync Drupal code or files to/from another server using ssh.
  core:status (status, st)
                                             An overview of the environment - Drush and Drupal.
  core:topic (topic)
                                             Read detailed documentation on a given topic.
 ntitv:
```

# We want to use drush to either clear the router cache or rebuild cache \$drush cache:clear or \$drush cache:

```
updatedb (updb)
                                            Apply any database updates required (as with running update.php).
                                            List any pending database updates.
updatedb:status (updbst)
                                            Show Drush version.
version
ache:
cache:clear (cc)
                                            Clear a specific cache, or all Drupal caches.
cache:get (cg)
                                            Fetch a cached object and display it.
cache: rebuild (cr, rebuild)
                                            Rebuild a Drupal 8 site.
cache:set (cs)
                                            Cache an object expressed in JSON or var export() format.
cache:tags (ct)
                                            Invalidate by cache tags.
onfia:
config:delete (cdel)
                                            Delete a configuration key, or a whole object.
```

## To clear cache \$drush cc – then select 3

```
watchdog:list (wd-list)
                                              Interactively filter the watchdog message listing.
  watchdog:show (wd-show, ws)
                                              Show watchdog messages.
  watchdog:show-one (wd-one)
                                              Show one log record by ID.
cabox@mhcd8test123:~/workspace$ drush cc
Choose a cache to clear:
  01 Cancel
  [1] drush
     theme-registry
     router
     css-js
     render
     plugin
     bin
     views
[success] 'router' cache was cleared.
cabox@mhcd8test123:~/workspace$
```

#### To rebuild cache

\$drush cache:rebuild

or \$drush cr

