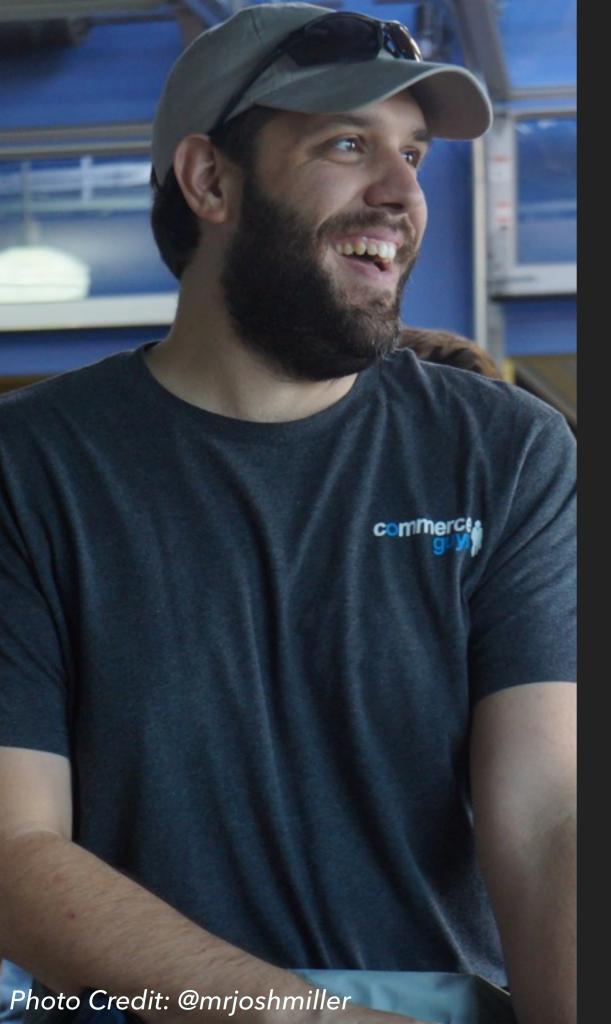
INSTALL PROFILE

BUILDING A KICK-SAAS



WHO IS THIS GUY? NICK VAHALIK

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SURPRISE!

REVERSE Q&A



WHAT IF I TOLD YOU THAT YOU **ALREADY BUILD** SAAS-BASED SOLUTIONS? **Morpheus** (j/k)

HOW MANY OF YOUR CLIENTS...

- Access the Git repository?
- Manage their own hosting?
- Write modules?
- Run site updates? (update.php or drush updatedb)



SOFTWARE AS A SERVICE (SAAS) IS A SOFTWARE DISTRIBUTION MODEL IN WHICH APPLICATIONS ARE HOSTED BY A VENDOR OR SERVICE PROVIDER AND MADE AVAILABLE TO CUSTOMERS OVER A NETWORK, TYPICALLY THE INTERNET.



WHAT WE'RE GOING TO TALK ABOUT

- What is an install profile?
- How does it benefit me?
- How does it benefit my clients?
- How do I build them?
- How does the profile install work?

WHAT IS AN INSTALL PROFILE?

commerce kickstart.

Welcome to Commerce Kickstart 2

Welcome

Verify requirements

Set up database

Install Commerce Kickstart 2

Configure site

Configure store

Finished

Thank you for choosing Commerce Kickstart, a product offered by Commerce Guys.

While we have a rather long, boring Privacy Policy just like any other technology company, here is a short summary of some key items we feel are important:

- Commerce Kickstart makes use of Google's DoubleClick for Publishers ("DFP");
- We use DFP to show you content relevant to Drupal Commerce at various points and places in Commerce Kickstart, including during installation;
- DFP is a third-party technology. It uses audience management tags which collect and use certain data;
- Commerce Guys does not collect any personally identifiable information;
- If at any time after installation you do not want us to utilize DFP through Commerce Kickstart, you can easily opt out of it;

That is it for the main points. The full Privacy Policy and User Agreement can be viewed on our website. Thank you again for choosing Commerce Kickstart!

- I agree to the Privacy Policy and User Agreement
- I want to opt out and disable content from Commerce Guys

Let's Get Started!

Proudly built by



WHAT IS IT?

- A special kind of module
- Specified during installation
- Installs modules
- Defines base configuration
- Performs custom actions
- Tailors the install experience

SOUNDS SUPER AWESOME

RGHTPP

HOW DOES IT BENEFIT ME?

HOW DOES IT BENEFIT ME?

- Encourages reuse of common code
- Can considerably lower your build times
- Improves delivery quality
- Allow you to focus on new features
- Better alternative solution to multi-site
- You can truly deliver SaaS based solutions

HOW DOES IT BENEFIT MY CLIENT(S)?

HOW DOES IT BENEFIT MY CLIENT(S)?

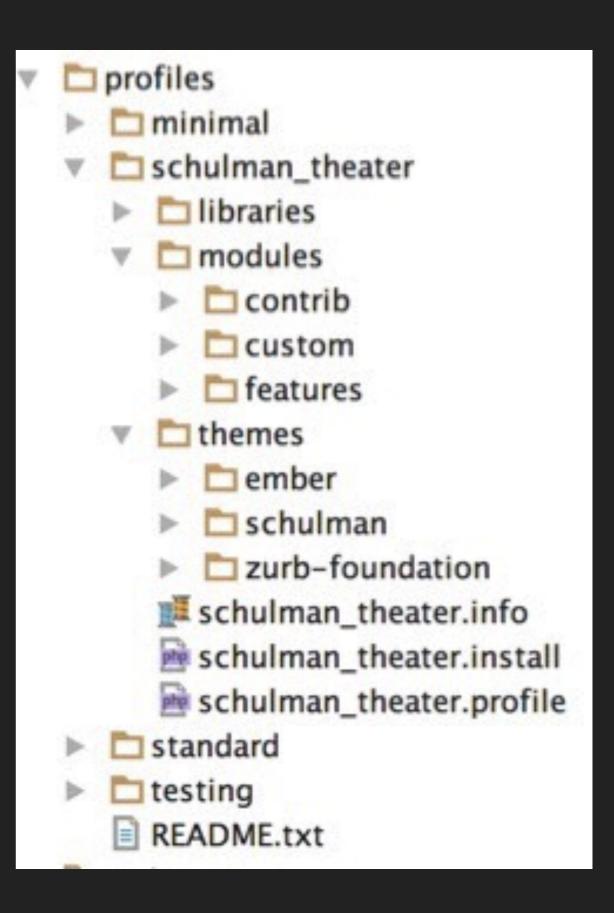
- All clients share improvements made on the profile
 - Tests
 - Features
 - Updates
- Reproducible quality
- Enables new business models
- Still allows for customization

GET ON WITH IT!

BUILDING AN INSTALL PROFILE

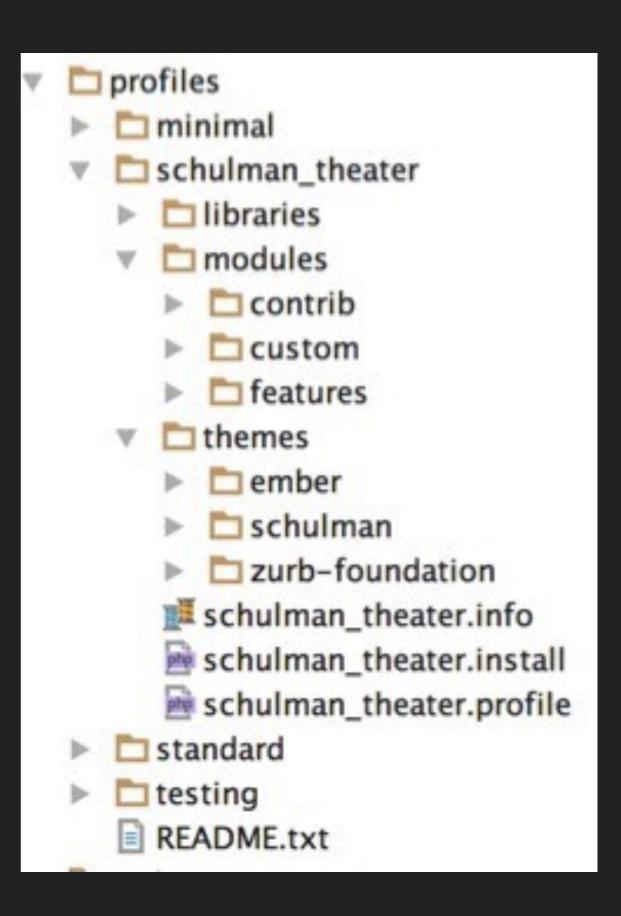
FOLDER STRUCTURE

- Main folder under / profiles
- Profile folder resembles / sites/ default
- Three primary files:
 - my_profile.info
 - my_profile.install
 - my_profile.profile



FOLDER STRUCTURE (CONT.)

- Separate contrib, custom, and Features-based modules
- Include a README



THE .INFO FILE

```
name = Theater Location
description = Installation profile for a theater location.
core = 7.x
files[] = schulman_theater.profile
<u>exclusive = 1</u>
```

```
; Core
dependencies[] = ctools
dependencies[] = block
dependencies[] = contextual
dependencies[] = dashboard
dependencies[] = dblog
dependencies[] = field
dependencies[] = field_sql_storage
...
```

THE .INFO FILE (CONT.)

; Contrib contrib[] = admin menu contrib[] = module filter contrib[] = date contrib[] = date api contrib[] = date views contrib[] = eck contrib[] = features contrib[] = feeds contrib[] = feeds ui contrib[] = feeds_ex contrib[] = feeds tamper contrib[] = addressfield contrib[] = email contrib[] = field group contrib[] = googleanalytics contrib[] = pathauto contrib[] = link

• • •

```
; Custom
custom[] = showtimes
custom[] = schulman_site
custom[] = rts_showtimes
; Features
custom[] = movie
custom[] = schulman_location
custom[] = schulman_location
custom[] = schulman_copyright
custom[] = schulman_contact_form
custom[] = content_importers
custom[] = schulman_featured_block
custom[] = schulman_promotional_content
custom[] = schulman_secondary menu navigation
```

BUILDING A KICK-SAAS INSTALL PROFILE

THE .INFO FILE (CONT.): BANISH THOU CRUFTY MODULES

Banish

View

Version control Revisions Automated Testing

Posted by frankcarey on May 21, 2015 at 4:35pm

Module to banish modules, themes, and more so they can't be installed and don't even show up in the UI. On cache_clear, banish will disable and uninstall any modules that should have been banished already so you can push new items to banish and your production server will automatically remove them.

Example: Remove PHP Filter module

Say you want to make sure the php module is never turned on. Simply add the following to an enabled modules info file.

banish[module] = php

You may need to clear your caches first, but the result is that the php module no longer shows up in the list of modules. If you try to enable it via drush, your request will be rejected. If the module is on, it will be disabled and uninstalled.

Themes

You can also banish themes, including base themes, to remove the clutter of the theme UI. For instance you might want to banish all the stock themes that come with drupal like stark, garland, bartik, and seven.

banish[theme][] = stark banish[theme][] = garland banish[theme][] = bartik banish[theme][] = seven

; Banish features modules to remove UI cruft.

- banish[module][] = features extra test

dgo.to/banish

banish[module][] = uuid_services_example banish[module][] = deploy example banish[module][] = date migrate example banish[module][] = feeds import banish[module][] = feeds news

THE .INSTALL FILE

- Much like a module's install file
- Installation related hooks (hook_install) but not (hook_schema).
- Update hooks
- Technically, that's all it should contain...

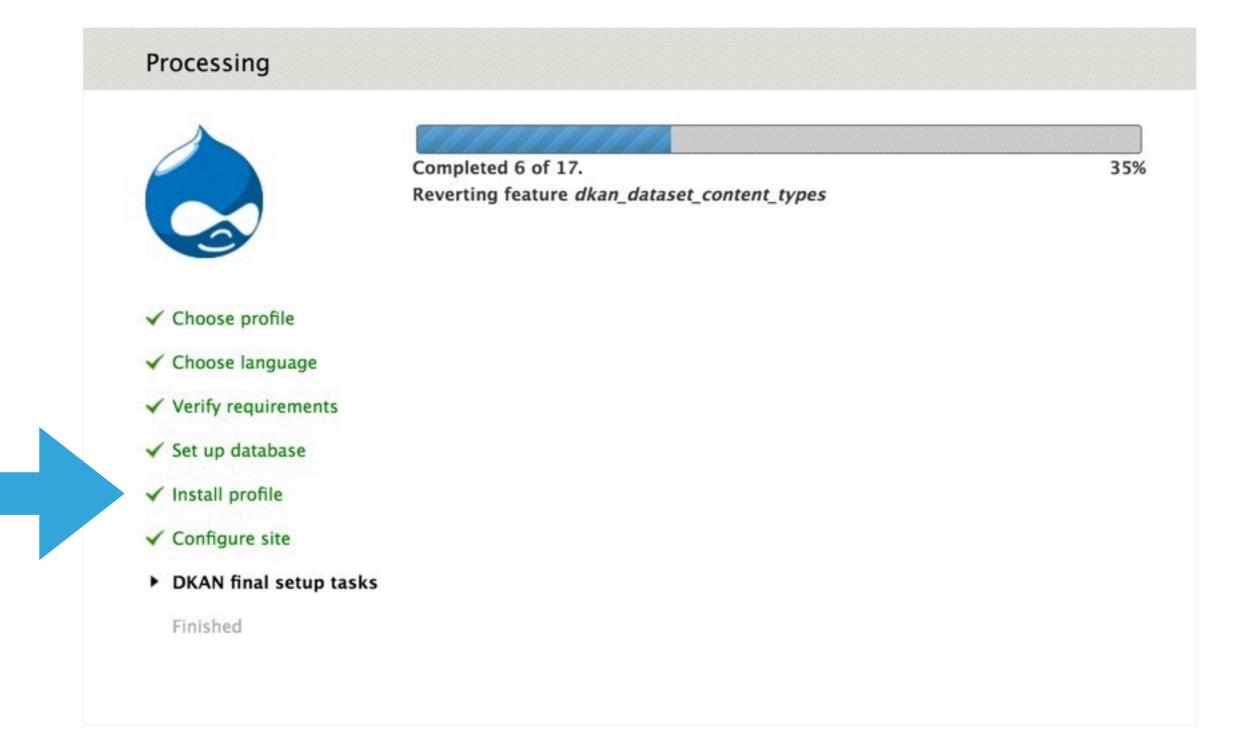
THE .PROFILE FILE

- Holds relevant profile installation hooks.
 - Various form alters...
 - hook_install_tasks()
 - hook_install_tasks_alter()

THE INSTALL PROCESS

- Core install stuff: Profile selection, Requirements and DB Setup, Translation stuff
- DB settings form
- Core Drupal setup (DB, core modules)
- hook_install()
- Site configuration form
- Anything defined by hook_install_tasks()
- Locale / Translations (if needed)

THE INSTALL PROCESS



THE .PROFILE FILE: FORM ALTERS



THE .PROFILE FILE: HOOK_INSTALL_TASKS() (CONT.)

```
function schulman_theater_install_tasks($install_state) {
 $task['schulman_theater_enable_additional_modules'] = array(
    'display_name' => st('Install modules'),
   'display' => TRUE,
    'run' => INSTALL_TASK_RUN_IF_NOT_COMPLETED,
    'type' => 'batch',
 ):
 $task['default_content'] = array(
    'display_name' => st('Import data'),
    'display' => TRUE,
    'type' => 'batch',
    'run' => INSTALL_TASK_RUN_IF_NOT_COMPLETED,
    'function' => 'schulman_theater_import_default_feeds',
 );
 $task['schulman_theater_configuration'] = array(
    'display_name' => st('Configure theater'),
    'display' => TRUE,
   'type' => 'form',
 );
 return $task;
```

DEFINING A NEW INSTALL TASK

- display_name
- display(true or false)
- type(normal, batch, or form)
- run
- function

HOOK_INSTALL_TASKS_ALTER()

- Change tasks based on global \$install_state
- Override base tasks (rename, etc.)

```
* Implements hook install tasks alter().
function commerce_kickstart_install_tasks_alter(&$tasks, $install_state) {
 $tasks['install_finished']['function'] = 'commerce_kickstart_install_finished';
 $tasks['install_select_profile']['display'] = FALSE;
 $tasks['install_select_locale']['display'] = FALSE;
 $tasks['install_select_locale']['run'] = INSTALL_TASK_SKIP;
 $tasks['install profile modules']['display name'] = st('Install Commerce Kickstart 2');
 // The "Welcome" screen needs to come after the first two steps
 // (profile and language selection), despite the fact that they are disabled.
 $new_task['install welcome'] = array(
   'display' => TRUE,
   'display_name' => st('Welcome'),
   'type' => 'form',
   'run' => isset($install_state['parameters']['welcome']) ? INSTALL_TASK_SKIP : INSTALL_TASK_RUN_IF_REACHED,
 );
 $old_tasks = $tasks;
 $tasks = array_slice($old_tasks, 0, 2) + $new_task + array_slice($old_tasks, 2);
 // Set the installation theme.
 _commerce_kickstart_set_theme('commerce_kickstart_admin');
```

HOOK_INSTALL() AND HOOK_UPDATE_N()

- Start with the install from the standard profile
- Export your settings
- Install, modify, delete, install again...
- Add updates as appropriate

PRO-TIPS!

PRO-TIPS!

- Use a make file
- Write behavioral tests
- Use a separate test environment
- Deploy with drush updatedb && drush featurerevert-all

QUESTIONS?

THANK YOU For Coming!

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