Gina

Would like to build the latest version of a client's website in order to make a few code changes before lunch.

<<Senior Developer>>

1. Gina wants to build the latest version of the client site.

---

1. Make the build directory
2. Put the directory in the web root
3. Add other directories and files to the build (setup the build skeleton)
4. Create a docroot folder for the Drupal code base
5. Build the code base with Drush Make using specified makefile(s) and prepare the site for install
6. Create the specified database
7. Create the specified dns and virtual host entries
8. Run any pre-build commands/scripts
9. Install the site
10. Change variable values as specified
11. Run any post-build commands/scripts
12. Put the build under version control

2. It takes 12 steps to build the client site.

<<Make the build directory>>

| shell command | + | shell command |

<<Build code base & prepare install>>

| drush command | + | drush command |

+ | shell command |

3. Gina completes most of her steps from the command line. Each step takes a few seconds.

<<Make the build directory>>

shell
+
shell

<<Build code base & prepare install>>

drush + drush
+ shell

<<Create dns and virtual host entries>>

shell + drush + shell

<<Install the site>>

drush

<<Change site variables>>

shell + custom

4. Keeping track of just a few steps can be difficult.

<<Make the build directory>>

shell command
+
shell command

<<Build code base & prepare install>>

drush command + drush command
shell command

Parameters

<<Create dns and virtual host entries>>

shell command + drush command + shell script

<<Put the build under version control>>

shell command + shell command

<<Change site variables>>

shell command
+
custom php

<<Install the site>>

drush command

<<Create the database>>

drush command
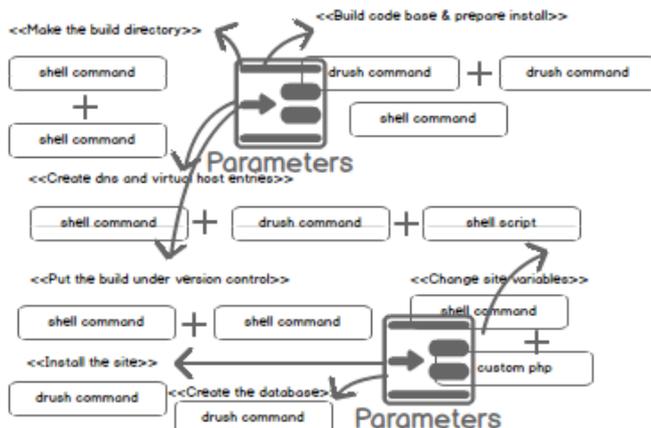
Parameters

5. Keeping track of twelve steps, with a few commands for each, is even more difficult; especially since each command usually requires various parameters as arguments.

`drush rush clientSite`

6. Today, Gina is using Rush to build the site. She types in one command and her build is done.

Gina

<<Awesome Developer>>

1. Make the build directory
2. Put the directory in the web root
3. Add other directories and files to the build (setup the build skeleton)
4. Create a docroot folder for the Drupal code base
5. Build the code base with Drush Make using specified makefile(s) and prepare the site for install
6. Create the specified database
7. Create the specified dns and virtual host entries
8. Run any pre-build commands/scripts
9. Install the site
10. Change variable values as specified
11. Run any post-build commands/scripts
12. Put the build under version control

<<Make the build directory>>

shell command

+

shell command

Multiple commands become a single

↓

Rush Operation

↓

create_build_directory

shell command

shell command

1. How did Rush help Gina build the client's site with just one command? Let's go back to Gina's list of steps. For each step, Gina typically needed to execute more than one command.

2. For example, making the buld directory took two shell commands.

3. Rush bundles multiple commands into a single operation. The smallest unit in Rush is an "operation." Operations run code commands (often in Drush, shell, php, git, and mysql) to act upon the file system, interact with other systems, and to build Drupal websites.

Rush file

create_build_directory

git_clone

make

create_dns

si (site install)

Rush file

→ Parameters file

Rush job

drush rush | **clientSite**

→ Environment parameters file

Client Site

4. Gina organized the operations she needs to build the client's site into a Rush file. Rush files contain a list of operations used to complete a build.

5. Rush jobs are a package of parameters and operations, which when run via the drush rush command will produce a build. Gina combined her Rush file with a parameters file to make her Rush job called, "clientSite."
Job parameter files provide variables for a build, such as site name, repo information, database connection strings, and anything else needed to complete a build.

6. Now Gina runs just one command to build the client's site. Gina wrote her Rush job once, tested it, and now re-uses it often.
Rush reads Gina's enviroment paramaters before running Rush jobs to find local default settings for all jobs & other global parameters needed to create the build such as build locations and apache config locations.

Panel 1

Jay

Needs to build the latest version of the client's website because his last pull request was rejected and he needs to fix some code.

<<New Developer>>

1. Jay wants to built the latest version of the client site.

Panel 2

db name = clientsdb
username = axios
password = bluebird358

1. Make the build directory
2. Put the directory in the web root
3. Add other directories and files to the build (setup the build skeleton)
4. Create a docroot folder for the Drupal code base
5. Build the code base with Drush Make using specified makefile(s) and prepare the site for install
6. Create the specified database
7. Create the specified dns and virtual host entries
8. Run any pre-build commands/scripts
9. Install the site
10. Change variable values as specified
11. Run any post-build commands/scripts
12. Put the build under version control

2. Jay checks the project wiki page to get Gina's twelve steps and the db connection info to build the site.

Panel 3

<<Make the build directory>> <<Create the database>>

<<Create dns and virtual host entries>>

<<Build code base & prepare install>>

<<Change site variables>> <<Put the build under version

Client Site
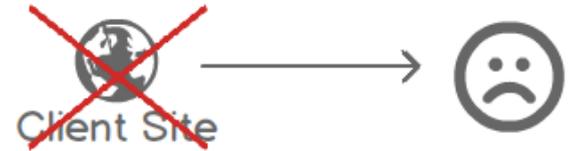
3. Jay carefully follows the steps, runs the commands, but something goes wrong.

The wiki had not been updated in a few months. The db connection info is wrong. Jay's development enviroment is also is different from Gina's. Some of Gina's commands and paramters don't work for him.

Panel 4

Jay

Gina

? Help

clientSite job

<<New Developer>>

<<Awesome Developer>>

4. Jay asks Gina for help. Gina gives Jay the Rush job file to build the client site.

Panel 5

drush rush | clientSite

Jay's Environment parameters file

Client Site

5. Now Jay also runs just one command to build the client's site.

Panel 6

Jay's params   QA server params

Gina's params   Designer's params

`drush rush clientSite`

Jay's Vagrant box   Gina's Macbook   Linux server   Desinger's Mac
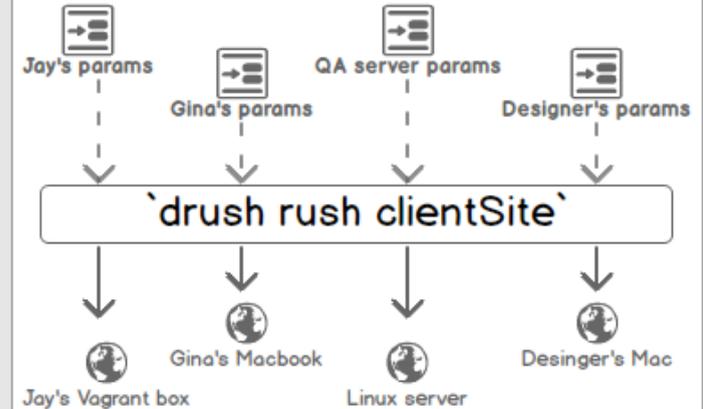
6. And so does the rest of the team.