



Power of Drush

Using command line tools to manage your Drupal web
Site(s)



Who Am I?

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First Drupal version:

5.2

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What is Drush

Drush = Drupal + Shell

Drush is a command line shell and Unix scripting interface for Drupal. Drush core ships with lots of useful commands for interacting with code like modules/themes/profiles. Similarly, it runs `update.php`, executes sql queries and DB migrations, and misc utilities like `run cron` or `clear cache`. Drush can be extended by 3rd party commandfiles



Maintainers

Maintained by:

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Summary

Drush Resources

Basic concepts

Using options with Drush

Drush output formats

Drush and sql

Drush site & shell aliases

Drush Scripts

Drush Make

Drush 7 goodness



Drush Resources

Main Site: <http://drush.org>

Commands: <http://drushcommands.com/>

API: <http://api.drush.org/>

Code: <https://github.com/drush-ops/drush>



Basic concepts

It's Drupal version agnostic:

Drush 5 for D5-D7

Drush 6 for D6 & D7

Drush 7 (currently on alpha8 release) for D6 - D8

It's written in PHP!

It even runs on Windows!!

Drush runs as User 1!!!



Basics: Continued

It's a a command line script!

You can interact with it from other scripting languages, i.e. shell scripts, Python, Ruby, etc...

Individual Drupal modules can, and do, define their own Drush commands.

demo: drush, drush st, drush cc, drush dl entity,
drush en views



Options to Drush

Like many other CLI scripts you can pass arguments and options to Drush

Most popular options is “-y”

demo: drush up views -y, drush up views —security-only



Output formats

Some commands can output to multiple formats,
defaults to stdout, ie the screen

depending on the command possible formats are:
csv, json

demo: `drush st`, `drush st --format=json`, `drush ups --format=csv`



Drush and SQL

- Drush can use the settings in your settings.php file to connect to you SQL database
- Theoretically Drush 7 can work with the following:
 - MYSQL/Maria,
 - SQLite,
 - PostGres,
 - Oracle
 - SQL Server
- I have only tested the statement above with the first 3 ;)
- @see <https://github.com/drush-ops/drush/tree/master/lib/Drush/Sql>

demo: drush sqlc, drush sql-dump —result-file=~ /bu.sql —gzip



Drush Site Aliases

- Aliases to remote or local Drupal installs that allow you to run Drush commands from anywhere in your file structure.
 - Allows you to run Drush commands on remote servers you have ssh access to, assuming you have your private key on the remote server
- Alias files, can be stored in in multiple folders, the most common are `~/.drush` or the `/drush` and `/sites/all/drush` folders for the current Drupal site
- @see <https://raw.githubusercontent.com/drush-ops/drush/master/examples/example.aliases.drushrc.php>

demo: `drush sa`, `drush sa @sample`, `drush @dcmi pml -y`



Drush Site Alias file

Filename: ~/.drush/test.alias.drushrc.php
<?php

```
$aliases['test'] = array(
  'uri' => 'http://localhost/test.local',
  'root' => '/var/www/test',
  'databases' => array(
    'default' => array(
      'driver' => mysql,
      'username' => 'test_user',
      'password' => 'test_pass',
      'port' => 3306,
      'host' => localhost,
      'database' => testdb,
    ),
  ),
),
),
)
```

Or create them dynamically
@ see <https://lastcallmedia.com/blog/drush-pro-tip-automatic-site-aliases>



Drush Shell Aliases

- A shell alias is defined in a Drush configuration file called `drushrc.php`

```
$options['shell-aliases']['pull'] = '!git pull';  
$options['shell-aliases']['noncore'] = 'pm-list —no-core';
```
- With the above two aliases defined, “drush pull” will then be equivalent to “git pull”, and “drush noncore” will be equivalent to “drush pm-list —no-core”.
- These can be combined with Site aliases to get you something like:

```
drush @site pull
```



Drush Scripts

- Shell scripts run in a drush environment
- ie with “#!/usr/bin/env drush”
- They are written in PHP
- You can bootstrap your Drupal site when you run them
 - Example, using the script named dothings.sh:
 - dothings.sh @site arg
- @see <http://drush.org/en/master/shellscripts/>



Drush Make files

- Build, is make, instructions for a Drupal site
- As of Drupal 7 they are YAML files
- Make files can build the following:
 - The Drupal core version
 - The Drupal modules to use (contrib and custom)
 - The Drupal Themes to use (contrib and custom)
 - The Patches to apply (form d.o or your own repository)
 - 3rd party libraries to use
 - @see <http://drush.org/en/master/make/>.



Make file sources

- Drupal.org project repos
- Any SVN or Git repository (ie github.com)
 - Note: you can use a tag or, if using git, a specific commit hash
- Local repositories

demo: show a git make file



Drush Make: Gotchas

Make will not enable any modules

Make does not install the site

If make fails, it does so silently so ensure any automation scripts verify your build



Drush Site Install

- You can re-install you site, ie re-build the db, with one command. Using any install profile you have downloaded.
- `drush site-install (si)`

demo: `drush @sample4 si standard -y --account-pass=admin`



Drush 7 Notes:

Requires PHP 5.3.10

Requires Composer

The only version that will work with Drupal 8



Drush 7: What's new

- I'll be the first to admit much of this got back ported to Drush 6
 - Make files can use YAML
 - Drush quick-drupal (qd), Build a Drupal site, using SqlLite in one command and open it in a browser

demo: `drush qd --account-pass=admin --account-name=admin`

- Drush PHP, open an interactive php console with the current site bootstrapped
- Drush runserver (rs), start up a server for the current Drupal site

demo: `drush @dcmi rs`



More cool examples

- @see <http://www.drush.org/en/master/examples/>
- CLI (ie bash) aliases
- @see <https://raw.githubusercontent.com/drush-ops/drush/master/examples/example.bashrc>



Shameless Plug!

Drupal Camp Ohio

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4H Center @ Ohio State University

Columbus, Ohio

<http://drupalcampohio.org>



Presentation Sample

Gist of the sample code used in the presentation:

<https://gist.github.com/jalama/52c3fdfd02daaabfb720>