Deploying PHP applications (and anything else) with Fabric

opdavies

- Web Developer and System Administrator

- Drupal, Symfony, Laravel, Silex, Sculpin

- Senior Developer at Microserve

- Part-time freelancer

- Open source maintainer and contributor

What and Why?

- Python library, CLI tool

- Runs commands and local and remote hosts

- Flexible

- Combine pre-deploy and post-deploy scripts

Installing Fabric

```
$ pip install fabric


# macOS
$ brew install fabric


# Debian, Ubuntu
$ apt-get install fabric
$ apt-get install python-fabric
```

Basic fabfile

```python
from fabric.api import *

env.hosts = ['example.com']
env.use_ssh_config = True

def build():
    with cd('/var/www/html'):
        run('git pull')
        run('composer install')
```

Running Tasks

```
$ fab <task>


# Specify a path and filename to the fabfile.
$ fab <task> --fabfile=/path/to/fabfile


# Pass arguments into the task.
$ fab <task>:build_type=drupal,foo=bar
```

Running Tasks Locally

```python
from fabric.api import *

...

def build():
    local('git pull')
    local('composer install')
```

Building Front-End Assets

```python
def build_assets(env):
    with lcd('themes/custom/example'):
        local('yarn --pure-lockfile')
        local('./node_modules/.bin/bower install')

        if env == 'prod':
            local('./node_modules/.bin/gulp --production')
        else:
            local('./node_modules/.bin/gulp')
```

Pushing the Code

```python
from fabric.contrib.project import rsync_project

...

def deploy():
    rsync_project(
        local_dir='./',
        remote_dir='/var/www/html'
        exclude=('.git', 'node_modules/'),
        default_opts='-vzcrSLh'
    )
```

More...

- Run Drush/Console/Artisan commands

- Ensure correct file ownership and permissions

- Update symlinks

- Restart Nginx/Apache

- Anything you can do from the command line...

Questions?