



Ansible.

Repeatable Server Setups
(that you will actually use)

Without this slide, you would go the whole presentation without knowing my name.

- wizonsolutions (Kevin Kaland), <http://drupal.org/u/wizonsolutions>
- Maintain FillPDF (fillpdf) module
 - ...and run FillPDF Service, <https://fillpdf.io>
- Three other things about me
 - I like languages (I speak 3 well, 4 5 badly)
 - I like singing (but I'm not good anymore)
 - I live in Slovenia
 - so be careful, I might understand some of your Croatian

What is Ansible?

- "An IT automation tool." (<http://docs.ansible.com>)
- Can replace shell scripts, especially more complicated ones
- Deployment scripts
- Migration/launch scripts

Challenge: What is happening here?

- **name:** create {{ fps_www_user }} group
group: name={{ fps_www_user }} state=present
- **name:** create {{ fps_www_user }} user
user: "name={{ fps_www_user }} state=present group={{ fps_www_user }} home={{ fps_www_user_home }} shell={{ ansible_env.SHELL }}"
- **name:** drop {{ fps_www_user }} into drupal directory
lineinfile:
 - dest:** '{{ fps_www_user_home }}/.profile'
 - regexp:** 'cd {{ fps_docroot }}'
 - line:** 'cd {{ fps_docroot }}'
 - create:** 'yes'

Why configuration management?

- **Documents your server setup.**
 - Because you have to document it anyway.
 - ...you do, right?
- Codifies servers; makes setups shareable
- Lets you test locally!



👑 **KEEP CALM** 👑
AND
REBUILD YOUR SERVER WITH ANSIBLE

"Why not Puppet?"

- **TL;DR: THE OTHER THINGS ARE FINE!**
- Easier to read/understand
- Sequential run order
- Agentless by default
- Bankrolled by Red Hat

"What I meant was: Why not Docker?"



- Docker's cool too, basically same benefits
- Different mindset
- "Is Docker ready for production?"
-



"Ansible can provision Docker too!"

Re-use: Ansible Roles

- Defaults that you can override
- Search for them on Ansible Galaxy (<https://galaxy.ansible.com>)
 - If it's for Drupal, save time and google **geerlingguy <name of technology>**
- Example:

- **role:** geerlingguy.mysql

mysql_root_password: '{{ vault_mysql_root_password }}'

mysql_packages:

- mariadb-client
- mariadb-server
- python-mysqldb

```
---
- name: deploy tagged FillPDF Service version
  vars_files:
    - vars/main.yml
    - vars/vault.yml
  hosts: '{{ target }}'
  tasks:
    - name: don't run as root
      fail:
        msg: "Run me as {{ fps_www_user }} please. -e ansible_user={{ fps_www_user }}"
        when: ansible_ssh_user == 'root'

    - name: 'make {{ fps_site_dir }} writable'
      file: dest={{ item }} mode='u=rwX,g=rX,o=rX'
      with_items:
        - '{{ fps_site_dir }}'
        - '{{ fps_site_dir }}/settings.php'

    - name: '[PROD] clone codebase'
      git: repo='git@gitlab.com:fillpdfservice/fillpdf.io-d7.git' version={{ FPS_VERSION }} accept_hostkey=yes dest={{ fps_docroot }} force=yes
      # Do this as current user because permissions
      become: no
      # On dev, we use a synced folder. Set fps_simulation_production: true in vars/main.yml to clone anyway.
      # (To test perms.)
      when: "ansible_virtualization_type != 'parallels' or fps_simulate_production == true"
      register: prod_git_updated

    - name: '[DEV] update local repo clone'
      command: git pull --ff-only
      args:
        chdir: '{{ fps_docroot }}'
      when: "ansible_virtualization_type == 'parallels' and fps_simulate_production != true"
      register: local_git_updated

    - name: create/update settings.php
      template: src=templates/drupal-settings.php.j2 dest={{ fps_site_dir }}/settings.php

    - name: 'make settings.php read-only'
      file: dest={{ item }} mode='u=rX,g=rX,o=rX'
      with_items:
        - '{{ fps_site_dir }}/settings.php'
        - '{{ fps_site_dir }}'
```

```
- name: 'ensure service-related settings are in place'
shell: '{{ drush_path }} {{ item.command }} {{ item.var }} {{ item.value }}'
args:
  chdir: '{{ fps_docroot }}'
with_items:
  - { command: vdel, var: fillpdf_remote_endpoint, value: ''}
  - { command: vdel, var: fillpdf_remote_protocol, value: ''}
  - { command: vset, var: fillpdf_service, value: local}

- name: 'turn off development modules if they are on'
shell: '{{ drush_path }} dis --yes {{ fps_dev_modules|join(' ') }}'
args:
  chdir: '{{ fps_docroot }}'

- name: 'remove CHANGELOG.txt if present'
file:
  state: absent
  dest: '{{ fps_docroot }}/CHANGELOG.txt'

- name: run db updates
shell: '{{ drush_path }} updb -y --cache-clear=0'
args:
  chdir: '{{ fps_site_dir }}'
register: db_updates_run

# Install registry_rebuild if needed and it's not there.
- name: install registry_rebuild if not already in
shell: '{{ drush_path }} @none pm-download registry_rebuild-7.x'
args:
  creates: '{{ fps_www_user_home }}/.drush/registry_rebuild'
  chdir: '{{ fps_www_user_home }}'
become: yes
become_user: '{{ fps_www_user }}'
when: fps_rebuild_registry is defined and fps_rebuild_registry|bool == true

- name: rebuild registry if option set
shell: '{{ drush_path }} rr --fire-bazooka'
args:
  chdir: '{{ fps_site_dir }}'
when: fps_rebuild_registry is defined and fps_rebuild_registry|bool == true
become: yes
become_user: '{{ fps_www_user }}'

- name: if we updated code, clear the cache
shell: '{{ drush_path }} cc all'
args:
  chdir: '{{ fps_site_dir }}'
when: prod_git_updated.changed or local_git_updated.changed
```

Questions?

The end

[drupal.org](#) and [Twitter](#) and like **everything**:

wizonesolutions

and basically everything else is there.

I have **cards** too
please take one
It is 2017 and I still have
cards from 2011 :o