

Ansistrano

Ansible for application deployments

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Ansible Zurich Meetup, 24.08.17

Who the hell



→ Anton Ovchinnikov

→ DevOps @  moneypark

We're hiring Python and frontend devs!

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 <https://tonyo.info/>

 <https://github.com/rev112>

Why Ansible?

- Provisioning
- Configuration Management
- Continuous Delivery
- ...

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- Provisioning
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+ Deployment

Goals

- Automate deployment steps
- Minimize downtime
- Preserve consistent state during deploys
- Be able to rollback quickly

BTW, what about...

Database migrations?

BTW, what about...

Database migrations?

Let's forget about them for now ;(

Watch ▾

348

★ Star

9,770

🔗 Fork

1,608



Capistrano

“A remote server automation and deployment tool written in Ruby”

(~2006)

Ansistrano

=

A N S I B L E

+



Ansistrano

2 Ansible roles

→ **carlosbuenosvinos.ansistrano-deploy**

<https://github.com/ansistrano/deploy>

→ **carlosbuenosvinos.ansistrano-rollback**

<https://github.com/ansistrano/rollback>

Does anybody care?



Most Starred

Role	Stars
carlosbuenosvinos.ansistrano-deploy	1242
jdauphant.nginx	458
dev-sec.os-hardening	449

Most

Role
plon
elast
couc

Main ideas

1. Deploy to a new release directory
2. Run all the preparations
 - a. Install requirements
 - b. Build static assets
 - c. ...
3. Switch symlink to the new release

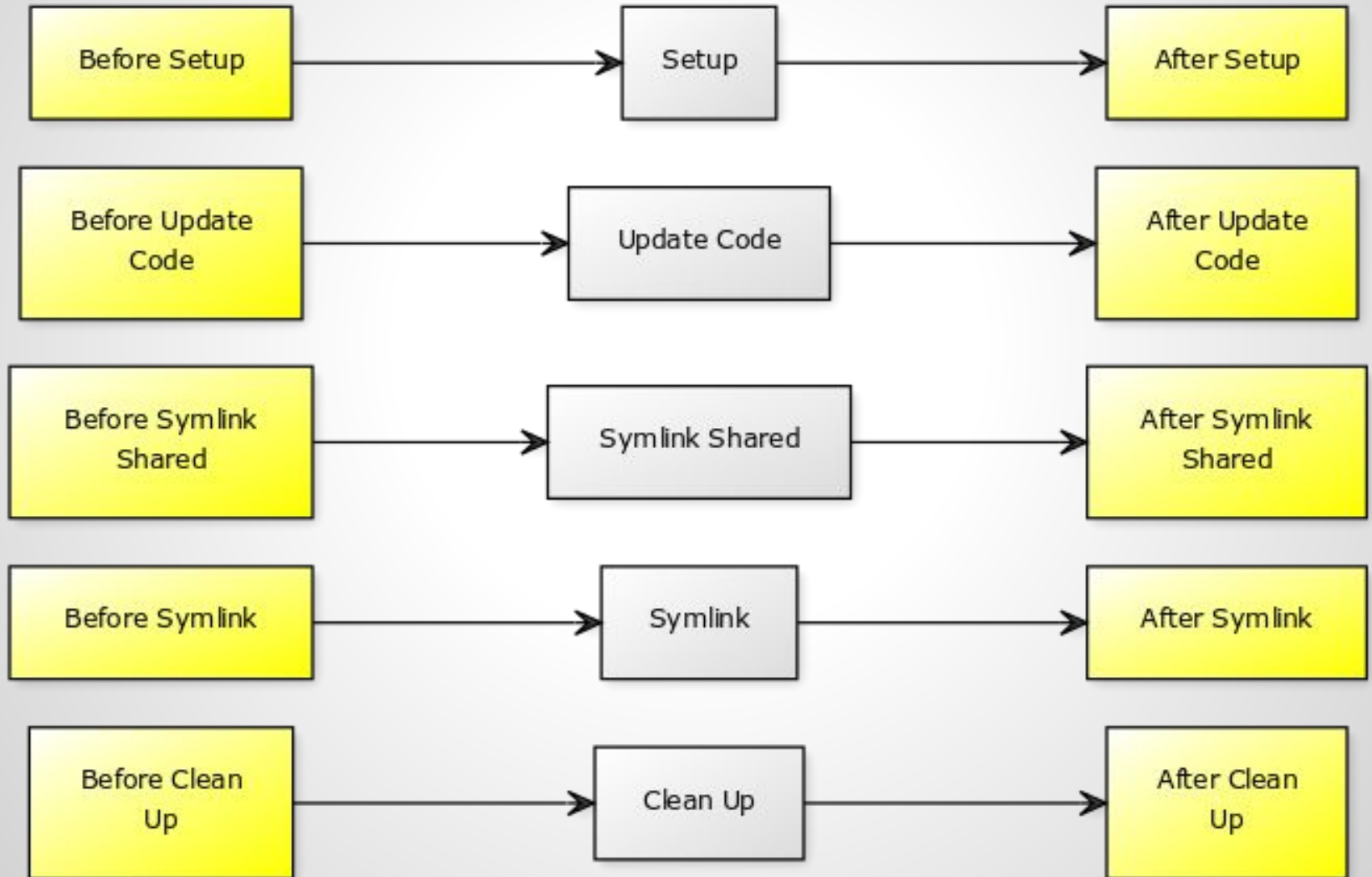
Main ideas: rollback

Rollback: switch the symlink back

Directory structure

```
├── current -> /var/www/my_app_name/releases/20150120114500/
├── releases
│   ├── 20150080072500
│   ├── 20150090083000
│   ├── 20150100093500
│   ├── 20150110104000
│   └── 20150120114500
├── repo
│   └── <VCS related data>
└── shared
    └── <linked_files and linked_dirs>
```

Flexible hook approach



Example playbook: deploy

```
1  ---
2  - name: Deploy ansistrano.com Website
3    hosts: all
4    vars:
5      ansistrano_deploy_from: "{{ playbook_dir }}/"
6      ansistrano_deploy_to: "/var/www/ansistrano.com"
7      ansistrano_after_update_code_tasks_file: "after-update-code.yml"
8      ansistrano_after_symlink_tasks_file: "after-symlink.yml"
9      ansistrano_keep_releases: 3
10   roles:
11     - { role: carlosbuenosvinos.ansistrano-deploy }
```

(From <https://github.com/ansistrano/ansistrano.com>)

Example playbook: rollback

```
1  ---
2  - name: Rollback ansistrano.com Website
3    hosts: all
4    vars:
5      ansistrano_deploy_to: "/var/www/ansistrano.com"
6      ansistrano_after_symlink_tasks_file: "after-symlink.yml"
7    roles:
8      - { role: carlosbuenosvinos.ansistrano-rollback }
```

(From <https://github.com/ansistrano/ansistrano.com>)

Features

- Deploy hooks
- Release cleanup
- Several code deployment strategies
 - git/svn/hg
 - rsync/scp
 - S3
- Shared files and directories

Things to keep in mind

- Check mode: not really
- Working directory is changed (surprise!)
uwsgi:
--hook-post-fork chdir:{{ project_dir }}
- Anonymous stats



ansistrano.deploy and **ansistrano.rollback** are Ansible Galaxy roles to easily manage the deployment process for scripting applications such as PHP, Python and Ruby. It's an Ansible port for Capistrano.

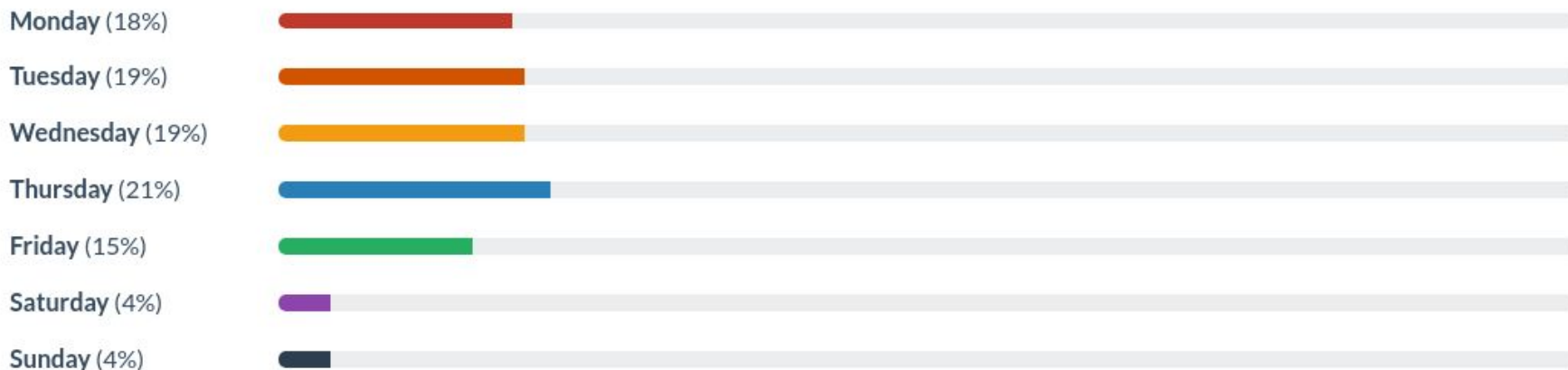
Wow! 315863 deployments so far!

Today, teams using Ansistrano have already deployed **1137** times. When considering the whole month, the amount of deployments is **19449** and this year we've reached the **199253** deployments.

Ouch! 1265 rollbacks so far!

On the other hand, today teams rollbacked **4** times. That's **35** times considering the whole month and **683** if considering the whole year. Rollback vs. Deployment ratio is **0.40%**, nice! Keep the good work.

Deployments by weekday



Developed with ❤️ in Barcelona