

# Capistrano для деплоя РНР приложений

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<http://www.devconf.ru>

**If you cannot do your  
deployments with one  
command then you are  
DOING IT WRONG.**

**Chris Hartjes, “Infrastructure Debt”**

**<http://www.littlehart.net/atthekeyboard/2011/11/03/infrastructure-debt/>**

## Задачи

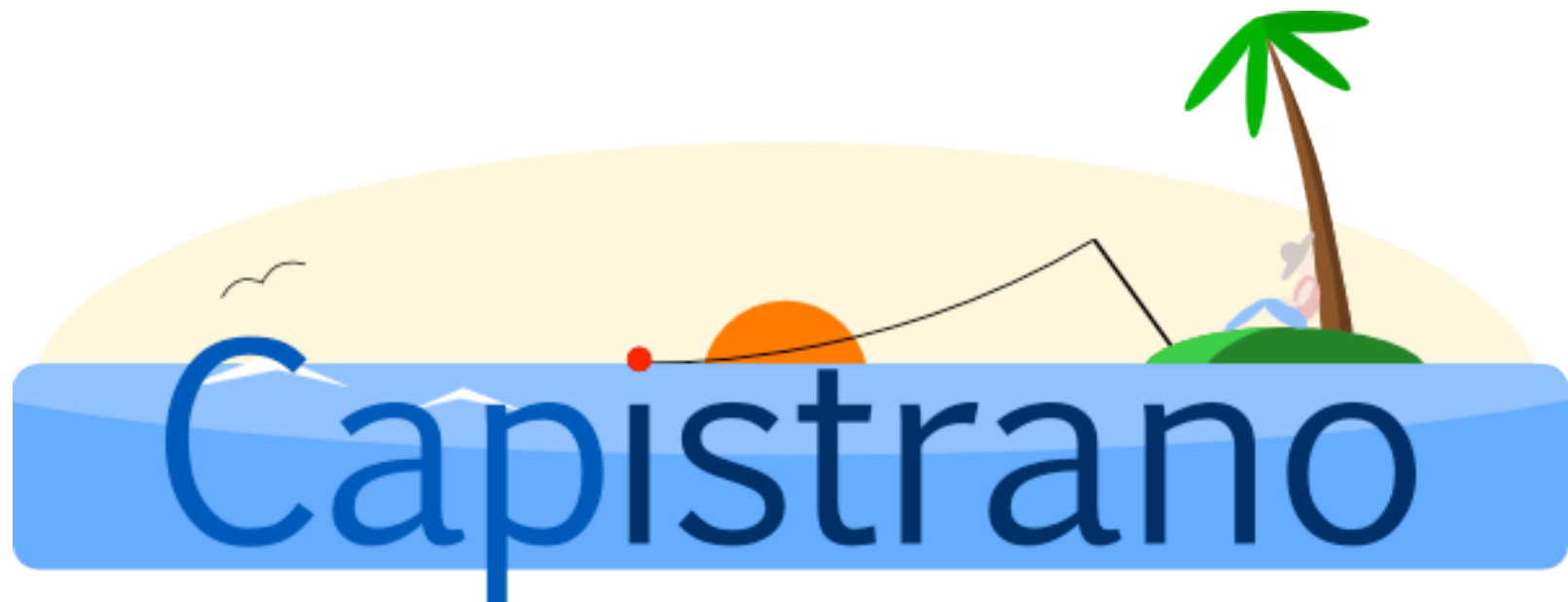
- Обновить файлы
- Подключить библиотеки
- Обновить базу
- Создать файлы, папки, симлинки
- Выставить права
- Сбросить кэш
- Сохранить контент
- Откатиться в случае ошибки
- ...

**She has a boyfriend?  
Challenge Accepted**



## Решения

- FTP-клиенты
- VCS, hooks
- Phing
- Shell script
- Rsync
- WePloy
- CI



## Необходимый минимум

- Server
- SSH
- Git/SVN/Mercurial/...



© <http://capifony.org/>



```
|—— current -> /var/www/zf-capistrano/releases/20120414205035
|—— releases
|   |—— 20120414204853
|   |   |—— application
|   |   |—— ...
|   |—— 20120414205035
|   |   |—— application
|   |   |—— ...
|—— shared
|   |—— cached-copy
|   |   |—— application
|   |   |—— ...
|—— public
|   |—— uploads
```

\$ gem install capistrano

```
$ cd ~/Sites/mycoolproject  
$ capify .  
[add] writing './Capfile'  
[add] making directory './config'  
[add] writing './config/deploy.rb'  
[done] capified!
```

## config/deploy.rb

```
set :application, "application_name"  
set :deploy_to, "/var/www/#{application}"
```

## config/deploy.rb

```
set :scm, :git
set :repository, "git@github.com:user/app.git"
set :deploy_via, :remote_cache
set :branch, "master"
set :keep_releases, 3
```

## config/deploy.rb

```
server "domain", :app, :web, :db, :primary => true
set :ssh_options, {:forward_agent => true, :port => 22}
set :user, "deployer"
set :use_sudo, false
```

## config/deploy.rb

```
role :app, "your app-server here"  
role :web, "your web-server here"  
role :db, "your db-server here", :primary => true
```

```
$ cap -h  
$ cap -T
```



## config/deploy.rb

```
namespace :deploy do
  task :start do
  end

  task :stop do
  end

  task :migrate do
  end

  task :restart do
  end
end
```

```
$ gem install railsless-deploy
```

## Capfile

```
require 'railsless-deploy'  
load 'config/deploy'
```

```
$ cap deploy:setup  
$ cap deploy:check
```

\$ cap deploy

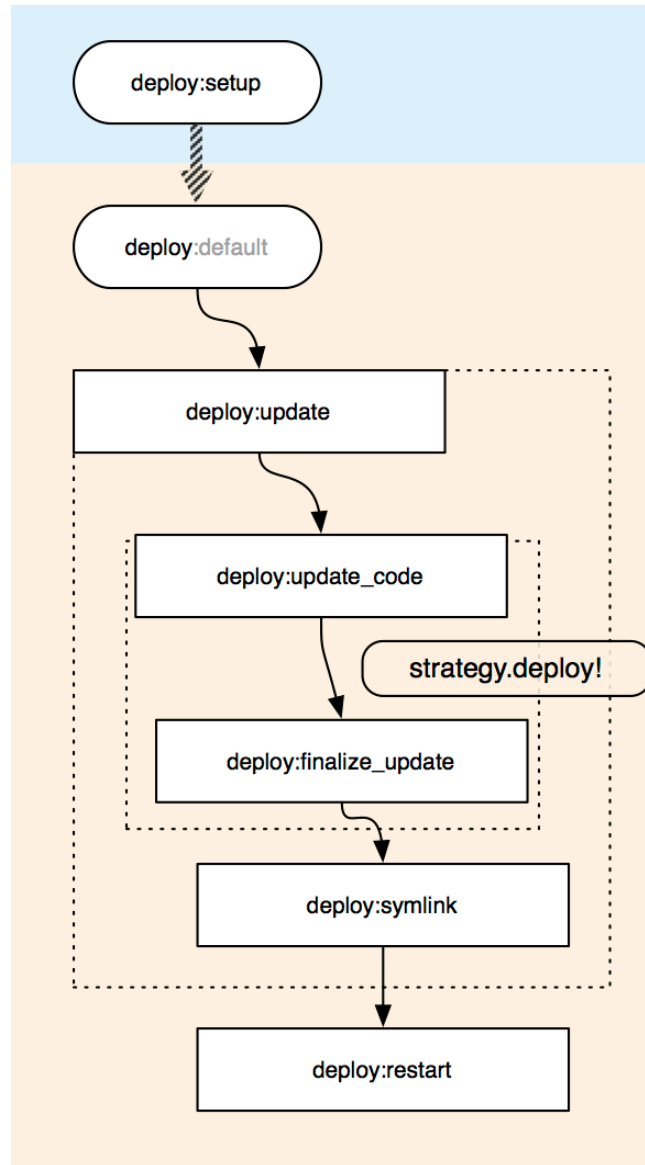


# AWESOMENESS

Ask Barney

DIY.DESPAIR.COM

```
$ cap deploy:update  
$ cap deploy:cleanup
```



\$ cap deploy:rollback



## Demo App: Silex + Composer



## config/deploy.rb

```
namespace :myproject do
  task :vendors do
    ...
  end
end
```

```
after "deploy:update_code", "myproject:vendors"
```

## config/deploy.rb

```
namespace :myproject do
  task :vendors do
    ...
  end
end
```

```
after "deploy:update_code", "myproject:vendors"
```

```
run "curl -s http://getcomposer.org/installer | php -- --install-dir=#{release_path}"
run "cd #{release_path} && #{release_path}/composer.phar install"
```

## config/deploy.rb

```
namespace :myproject do
  task :uploads, :roles => :app do
    ...
  end
end

after "deploy:symlink", "myproject:uploads"
```

## config/deploy.rb

```
namespace :myproject do
  task :uploads, :roles => :app do
    ...
  end
end
```

```
after "deploy:symlink", "myproject:uploads"
```

```
run "mkdir -p #{shared_path}/web/uploads"
```

```
run "chmod -R 775 #{shared_path}/web/uploads"
```

```
run "ln -nfs #{shared_path}/web/uploads #{release_path}/web/uploads"
```

## config/deploy.rb

```
task :disable do
```

```
  ...  
end
```

```
after "deploy:update_code", "myproject:disable"
```

## config/deploy.rb

```
task :disable do
```

```
  ...  
end
```

```
after "deploy:update_code", "myproject:disable"
```

```
run "echo 'Site is on maintenance right now. Sorry.' > #{shared_path}/public/  
maintenance.html"
```

```
run "cp #{shared_path}/public/maintenance.html #{latest_release}/public/  
maintenance.html"
```

## config/deploy.rb

```
task :enable do
```

```
  ...
```

```
end
```

```
after "deploy:symlink", "myproject:enable"
```



## config/deploy.rb

```
task :enable do
```

```
...
```

```
end
```

```
after "deploy:symlink", "myproject:enable"
```

```
run "rm -f #{latest_release}/public/maintenance.html"
```

## config/deploy.rb

```
task :migrate do
```

```
  ...  
end
```

```
after "deploy:finalize_update", "myproject:migrate"
```

## config/deploy.rb

```
task :migrate do
```

```
  ...  
end
```

```
after "deploy:finalize_update", "myproject:migrate"
```

```
on_rollback { run "#{release_path}/bin/doctrine migrations:migrate down" }  
run "#{release_path}/bin/doctrine migrations:migrate"
```

## config/deploy.rb

```
task :unicornsandwizards do
  # notify by email
  # post to irc or group chat
  # send SMS
  # activate SkyNet
  # order some Pizza
end
```

```
after "deploy:finalize_update", "myproject:unicornsandwizards"
```

## Show me the code!

- silex-capistrano
  - <https://github.com/memphys/silex-capistrano>
- KnpLabs / marketplace
  - <https://github.com/KnpLabs/marketplace>
  - <https://github.com/EvercodeLab/marketplace/tree/composer>
- Capistrano home
  - <https://github.com/capistrano/wiki>

## Что ещё?

- Multistage
- Multiserver
- Capifony (<http://capifony.org>)
- Webistrano



## Спасибо за внимание

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