

Capistrano



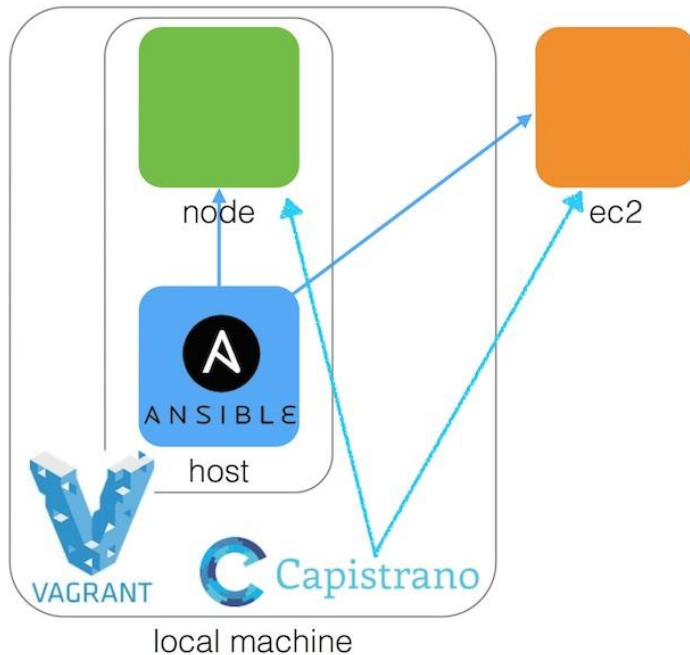
Automating Server
Deployment

What is Capistrano?

- Uses Rake DSL for tasks.
- Written in Ruby
- Makes it easy to get up and running on a new server.



Why use it?



- Lets you set up a new server quickly.
- Allows users to work from local versions.
- Less errors when deploying to new servers (think EC2).

How it works

- It's incredibly simple.
- Uses SSH to connect to machine.
- Runs commands from terminal.

```
# config/deploy.rb
set :user, 'root'
set :application, 'cufcq'
set :scm, :git
set :repo_url, 'https://github.com/cufcq/cufcq.git'
set :branch, 'master'
set :deploy_to, "/root/cufcq_deploy"
set :deploy_via, :copy
set :rails_env, "development"
```

How we're using it

- Partner doesn't like to work directly on server (likes Sublime)
- Wants to run everything locally and push to git.
- Run `cap git:update` to get changes.



Capistrano Plugins

-- cap command --

bundler:install

deploy

deploy:check

exist

deploy:dev_start

deploy:log_revision

deploy:migrate

set

deploy:rollback

deploy:total_reload

deploy:updated

git:check

git:clone

git:set_current_revision

deployed

-- Install the current Bundler environment

-- Deploy a new release

-- Check required files and directories

-- Start dev server

-- Log details of the deploy

-- Runs rake db:migrate if migrations are

-- Rollback to previous release

-- Total Reload

-- Updated

-- Check that the repository is reachable

-- Clone the repo to the cache

-- Determine the revision that will be

- We can use plugins to add functionality.
- My favorites:
 - Git
 - Bundler
- Run: cap _____

Custom tasks

- We can create custom tasks to be run by Capistrano.
- Compatibility with old scripts.

```
# config/deploy.rb
namespace :deploy do
  desc 'Total Reload'
  task :total_reload do
    on roles(:app), in: :sequence, wait: 5 do
      execute "cd #{deploy_to}/current && nohup ./total_reload.sh >
/dev/null 2>&1 &" ## -> line you should add
    ...
  end
end

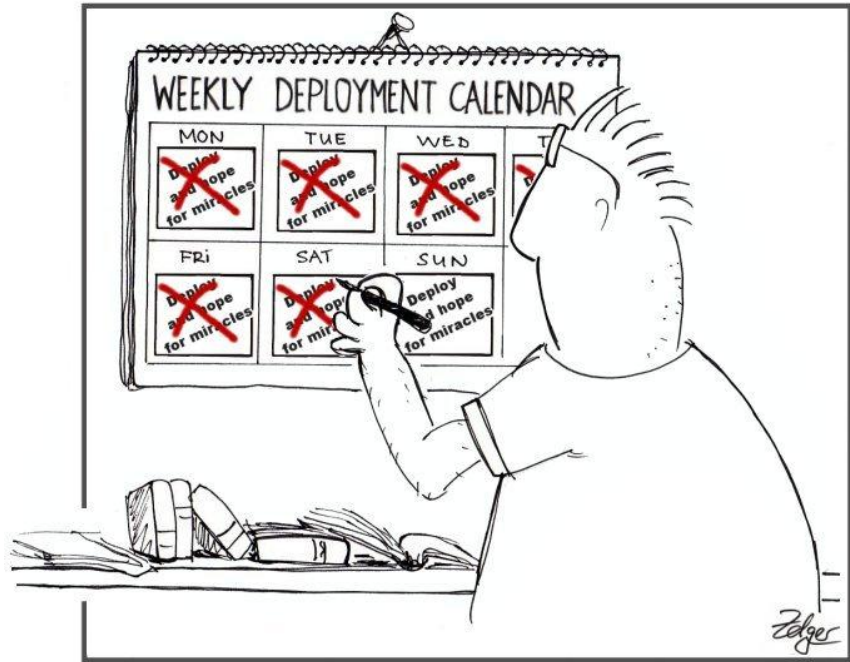
namespace :deploy do
  desc 'Start dev server'
  task :dev_start do
    on roles(:app), in: :sequence, wait: 5 do
      execute "cd #{deploy_to}/current && nohup ./dev_launcher.sh &"
    end
  end
end

## -> line you should add
...

```

In Conclusion

- Great if you're doing a ton of deployments.
- Hard to get started with, but a good investment for the future.



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