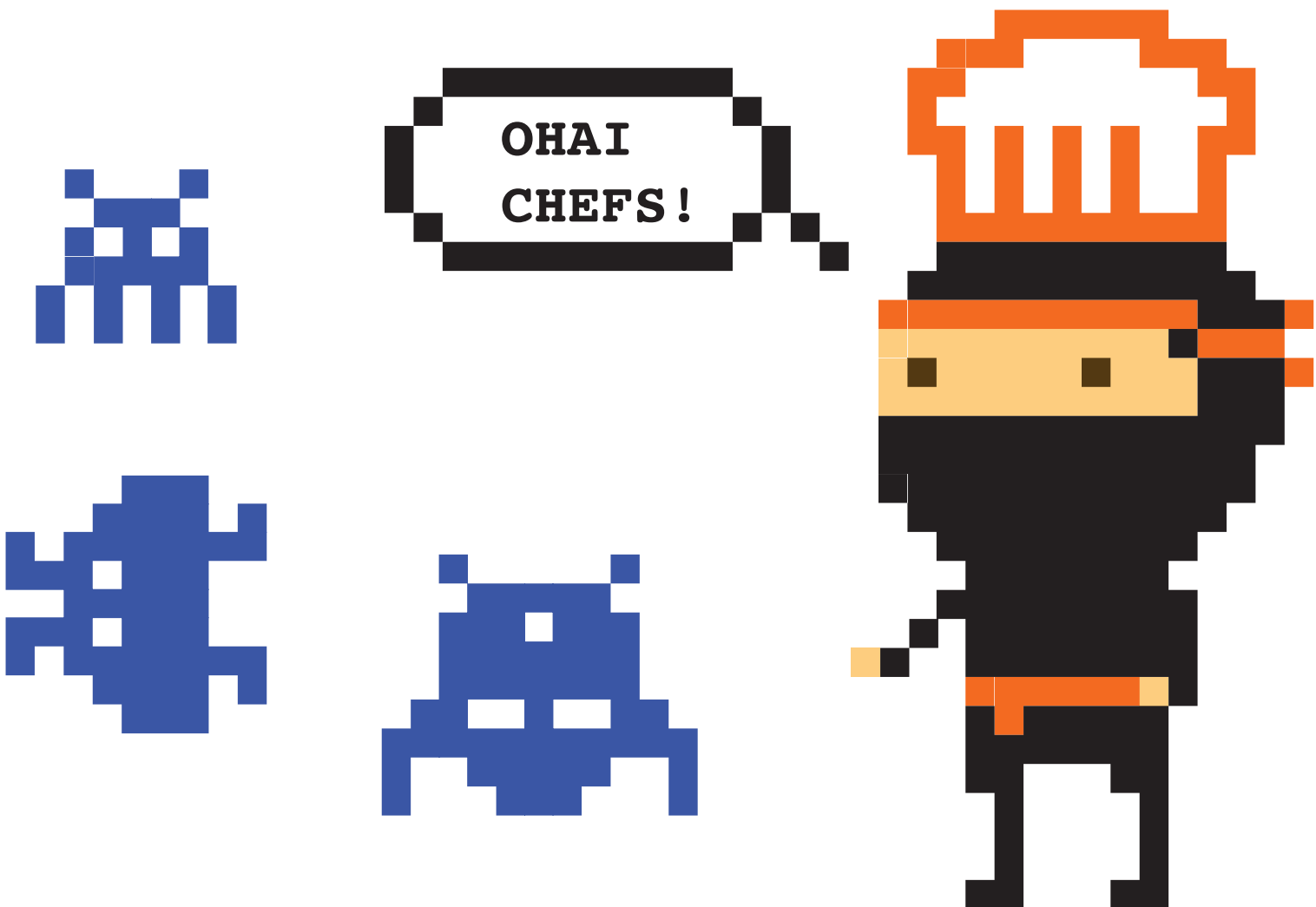


Carlos D. Camacho

CHEF BY EXAMPLE

Practical Exercises in a Successful Chef Deployment



Chef by example

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Carlos Camacho

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Preface

A Chef Style DevOps Kung-fu implementation, inspired in the Adam Jacob keynote from Chefconf 2015. A practical to work with infrastructure automaion, continuous delivery, continuous deployments and the platform maintenance life cycle.

The source code of this book is hosted in [Github](#), everyone can fork and make pull requests; you are all invited.

0.1 What is DevOps?

There isnt an agreed definition for DevOps yet. DevOps is a cultural and professional movement, focused on how we build and operate high velocity organizations, born from the experience of its practitioners. Is a unique approach, based in previous experience and focused on customers.

- Principles (Universal)
 - Based on prioritize people over products over companies.
 - Design for the safety, contentment, knowledge and freedom of both your peers and your customers.
 - Eliminate non-value-added actions and processes.
 - Continuously improve your processes.
 - Adapt to needs.
 - Small improvements over the time.

- Fail faster to learn faster. Be calm, fix things and improve your processes.
 - Workflows automation.
 - Diversity, gets feedback, have different opinions, argue, make demonstrations on your points of view.
 - Demo all the things you have or you are working in.
 - Be the owner of your work, love your work, and find reasons to do your work.
 - Improve and do things right even if is hard (At first).
 - Make decisions based on your experience and proof your point of view.
- Forms (Shared)
 - Applications (Unique)

0.2 What this book covers

0.3 What you need for this book

0.4 Who this book is for

0.5 Conventions

Chapter 1

Getting Started

- 1.1 Defining the scenario**
- 1.2 Development process**
- 1.3 Infrastructure automation**
- 1.4 Continuous deployments**
- 1.5 Continuous delivery**
- 1.6 Maintenance cycle**

Chapter 2

Chef

2.1 Chef components

2.2 Knife

2.3 OHAI

2.4 Attributes

2.5 Databags

2.6 Environments

2.7 Lightweight resources and providers

2.8 Cookbooks

2.9 Recipes

Chapter 3

Development environment

3.1 Source repository

3.2 Package repository

3.3 CI Server

Chapter 4

Deployment environments

4.1 Physical or CLOUD environments

4.2 Continuous Integration

4.3 Integration

4.4 Test

4.5 Go-Live!

Chapter 5

Automating delivery pipelines

Chapter 6

Maintenance cycle

- General configuration structure for the chef-repo:
 - chef-repo/environments/banana.rb
 - chef-repo/environments/potato.rb
 - chef-repo/environments/kiwi.rb
 - chef-repo/data_bags/banana.rb
 - chef-repo/data_bags/potato.rb
 - chef-repo/data_bags/kiwi.rb:
 - chef-repo/roles/base.rb
 - chef-repo/roles/web.rb
 - chef-repo/roles/db.rb
- Banana cookbook structure:
 - chef-repo/cookbooks/banana/templates/default/*.erb
 - chef-repo/cookbooks/banana/attributes/default.rb
- Potato cookbook structure:
 - chef-repo/cookbooks/potato/templates/default/*.erb

- chef-repo/cookbooks/potato/attributes/default.rb

- Kiwi cookbook structure: * chef-repo/cookbooks/kiwi/templates/default/*.erb
 - * chef-repo/cookbooks/kiwi/attributes/default.rb

- A node belongs to an environment in which case, will override the default configuration per the corresponding one.

- Override app attributes for kiwi (Non sensitive info) Override app attributes for kiwi (Sensitive info) Define the recipes for the xxx role

- Default configuration templates for kiwi Default configuration values according the templates for kiwi