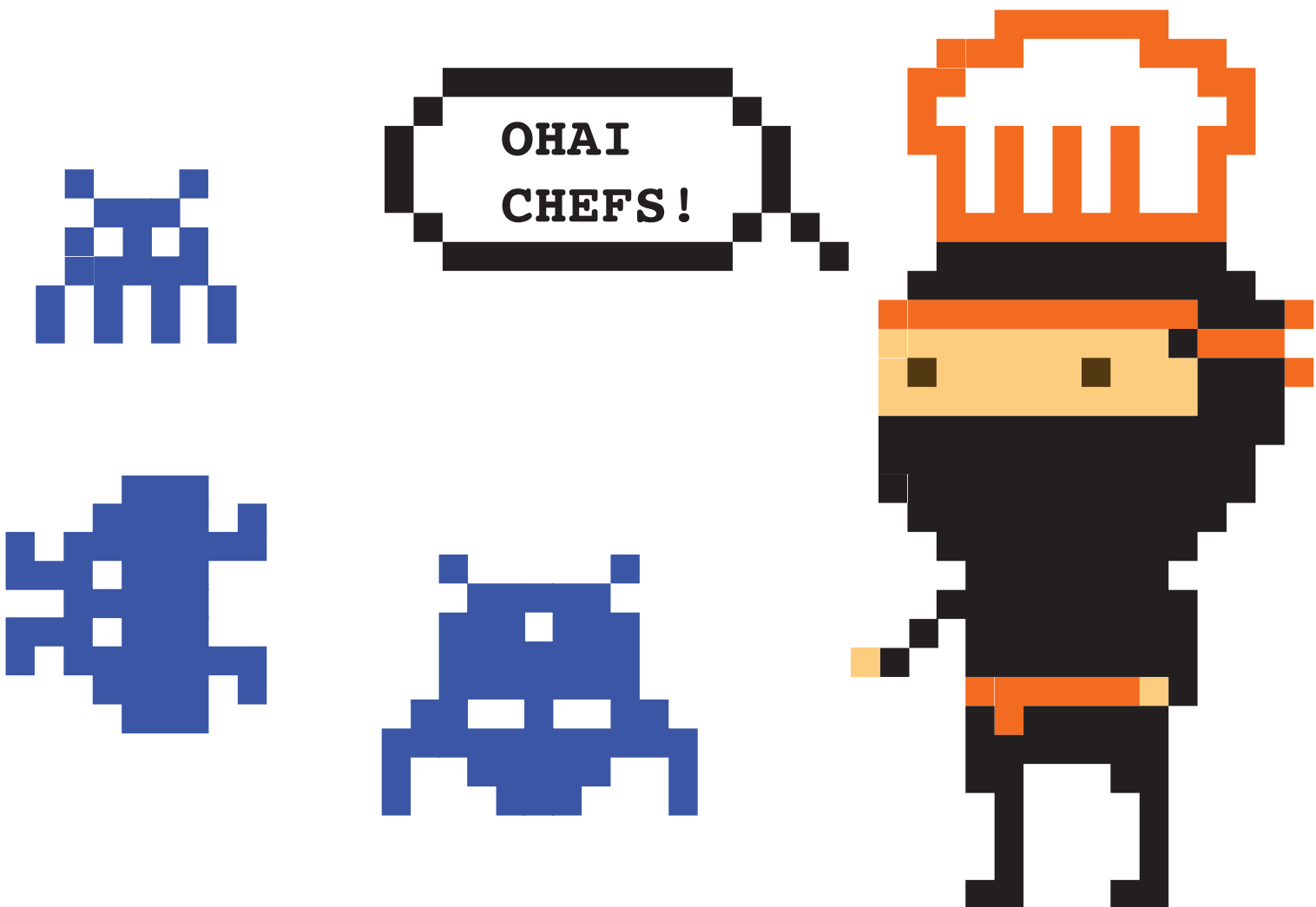


Carlos D. Camacho

CHEF BY EXAMPLE

Practical Exercises in a Successful Chef Deployment



Chef by example

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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