















Continuous Development Environments with Chef, Vagrant, VeeWee and Jenkins













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#### Emmanuel Mwangi SendGrid

@cloudbring





#### Hi! My name is...

- Emmanuel Mwangi
- QA Engineer @ SendGrid
- Web Developer for 10+ yrs











#### SendGrid





SendGrid is ...



### Transactional

#### Email





SendGrid delivers

## 100 Million+ Emails a day





SendGrid tracks

## Billions of **Email Events** per Day





SendGrid has delivered

## 39 Billion Emails Sent

and Counting...









#### SendGrid

#### Email @ SCALE





## Westarted

Simple







## Wegrewa Complex







#### EoreGooda Doorson

Reasons







# Scalingia

Mostly







## Replaced our SQL DB with a JSON API

(much like our customer api)







### Split up the 3 R's

Reading, Writing & Arithmetic













## Marketing Pages moved to a CMS







# We ended up Complex





In my mind as a QA Engineer...









Enter...









Testing



### 90% Code Coverage





## Continuously Tested using Jenkins







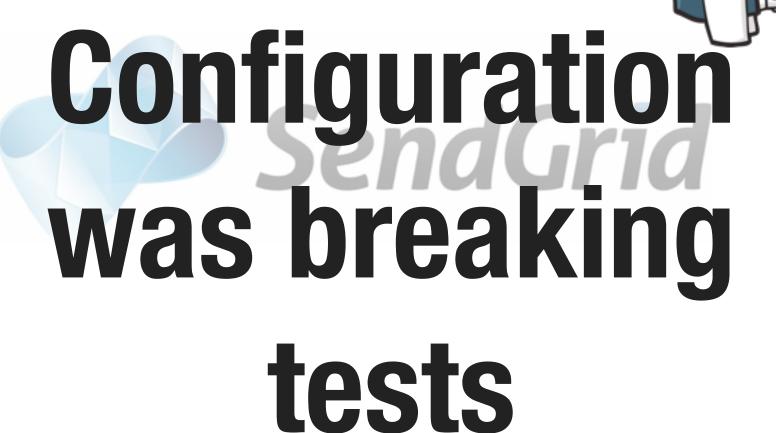
# Testing was not enough

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Chef is...





#### opscode.com/chef/





Chef is..

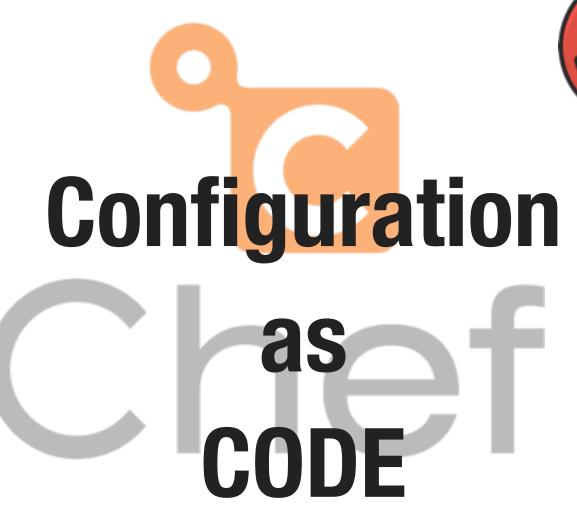


## Configuration Management





Chef is..







Chef is...









Chef is...





### Roles & Recipes

































- \$ vagrant box add base http://files.vagrantup.com/lucid32.box
- \$ vagrant init
- \$ vagrant up
- \$ vagrant ssh

vagrant@vagrantup:~\$







## VeeWee

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#### github.com/jedi4ever/veewee















## Automates creation of Vagrant Boxes

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#### Caveat Emptor







#### Questions?





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