Getting the Monkey Off Your Back
Continuous Development Environments with Chef, Vagrant, VeeWee and Jenkins
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Emmanuel Mwangi
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SendGrid
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Emmanuel Mwangi
SendGrid
@cloudbring
Hi! My name is...

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

100 Million+ Emails a day
SendGrid tracks

Billions of Email Events per Day
SendGrid has delivered

39 Billion Emails Sent

and Counting...
Email @ SCALE
We started Simple
We grew
Complex
For Good Reasons
Scaling

Mostly
Replaced our SQL DB with a JSON API (much like our customer api)
Split up the 3 R’s

Reading, Writing & Arithmetic
Multiple Programming Languages
Marketing Pages moved to a CMS
We ended up Complex
In my mind as a QA Engineer...

Complexity = Risk
Testing

90% Code Coverage
Continuously Tested using Jenkins
Testing was not enough
Configuration was breaking tests
Chef is..

opscode.com/chef/
Chef is..

Configuration Management
Chef is..

Configuration as CODE
Chef is...

• Idempotent
• Fire & Forget
• Testable
Chef is..

Roles & Recipes
Vagrant
Vagrant

vagrantup.com
Vagrant
Automates VM Environments
Vagrant
What AWS is for cloud servers...
Vagrant is for DevVMs
Vagrant

```
$ vagrant box add base http://files.vagrantup.com/lucid32.box
$ vagrant init
$ vagrant up
$ vagrant ssh
vagrant@vagrantup:~$
```
VeeWee
github.com/jedi4ever/veewee
800+ Watchers
200+ Forks
250+ Closed Issues
90+ Closed Pull Requests
Automates creation of Vagrant Boxes
Caveat Emptor
Questions?
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