

# Chef and the Opscode Platform

System Administration Made Awesome

# Me

Nathan L Smith

- <http://cramerdev.com/>
- <https://github.com/smith/>
- @nlsmith



# Demo Application

Web / App



passenger



(<https://github.com/smith/demo-rails-app>)

DB



Cache



github  
SOCIAL CODING

ubuntu

the  
rackspace cloud

# Chef

<http://www.opscode.com/chef/>

“Chef is an open source systems integration framework built to bring the benefits of configuration management to your entire infrastructure. You write source code to describe how you want each part of your infrastructure to be built, then apply those descriptions to your servers. The result is a fully automated infrastructure: when a new server comes on line, the only thing you have to do is tell Chef what role it should play in your architecture.”

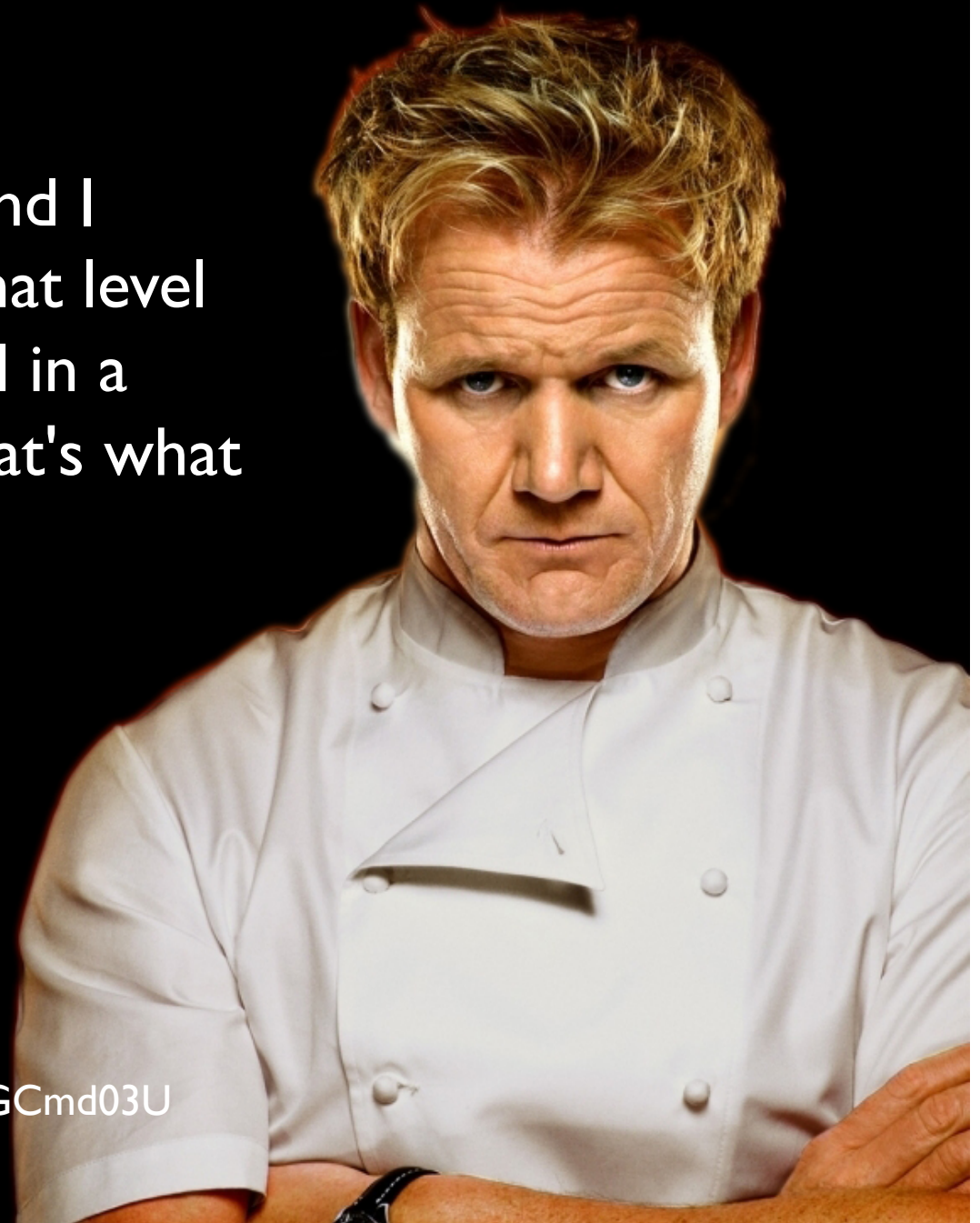
# Opscode

- <http://opscode.com/>
- Hosted Chef platform
- Main developers of Chef
- Training & support

# Why?

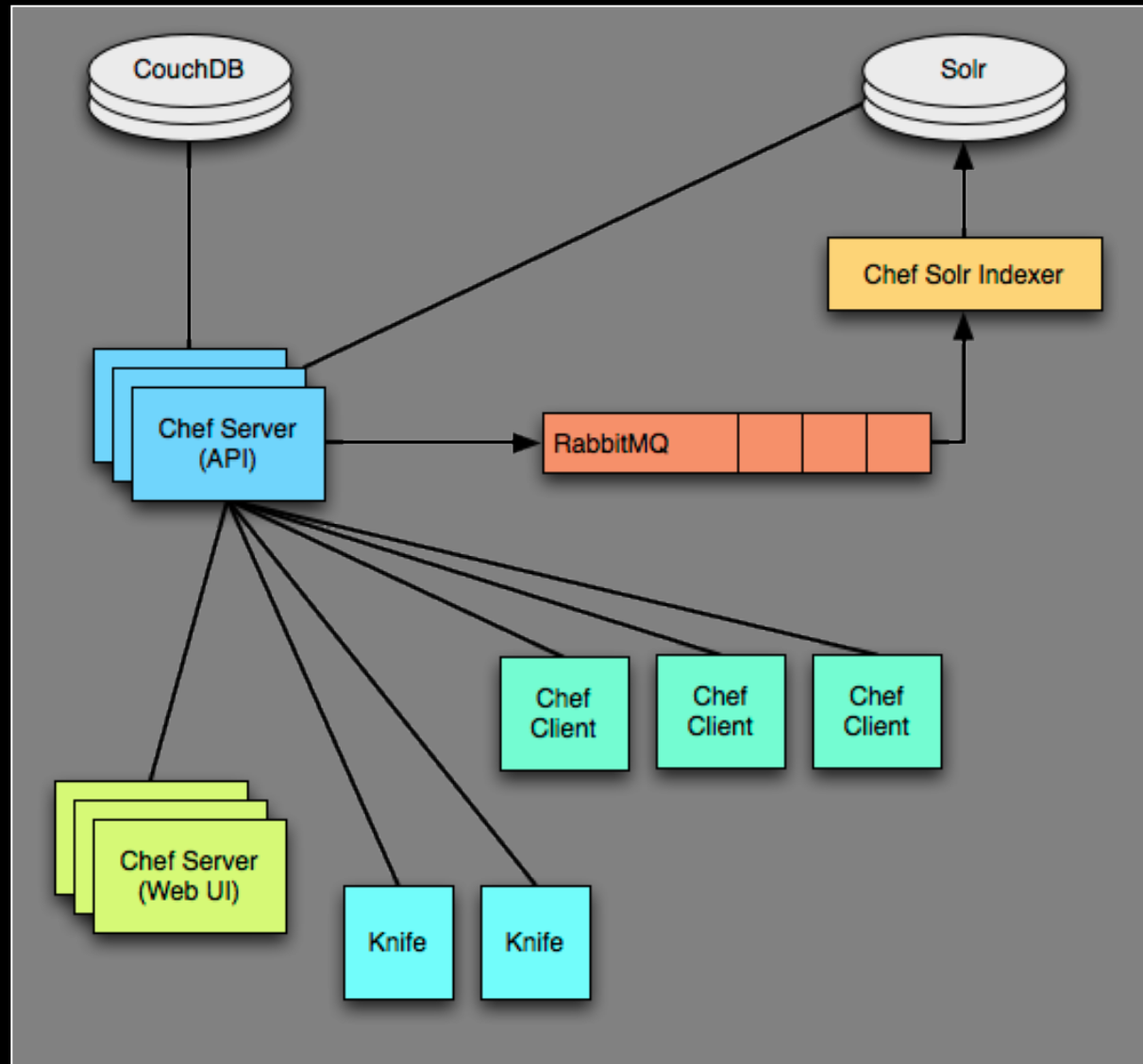
- Living documentation
- Infrastructure as code
- Disasters will happen
- Repeatability & Idempotence

“I maintain standards and I strive for perfection. That level of pressure is conveyed in a very bullish way and that's what cooking is all about.”



<http://www.youtube.com/watch?v=gr3MGCmd03U>

# Chef Server Architecture



(<http://wiki.opscode.com/display/chef/Architecture>)



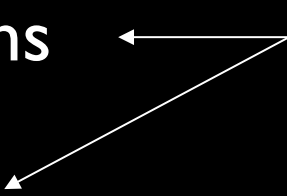
# Nodes

- Attributes
- Run list

# Roles



# Cookbooks

- Definitions  (use Resources)
- Recipes
- Templates (.erb)
- Files
- Providers
- Libraries

# Resources

<http://wiki.opscode.com/display/chef/Resources>

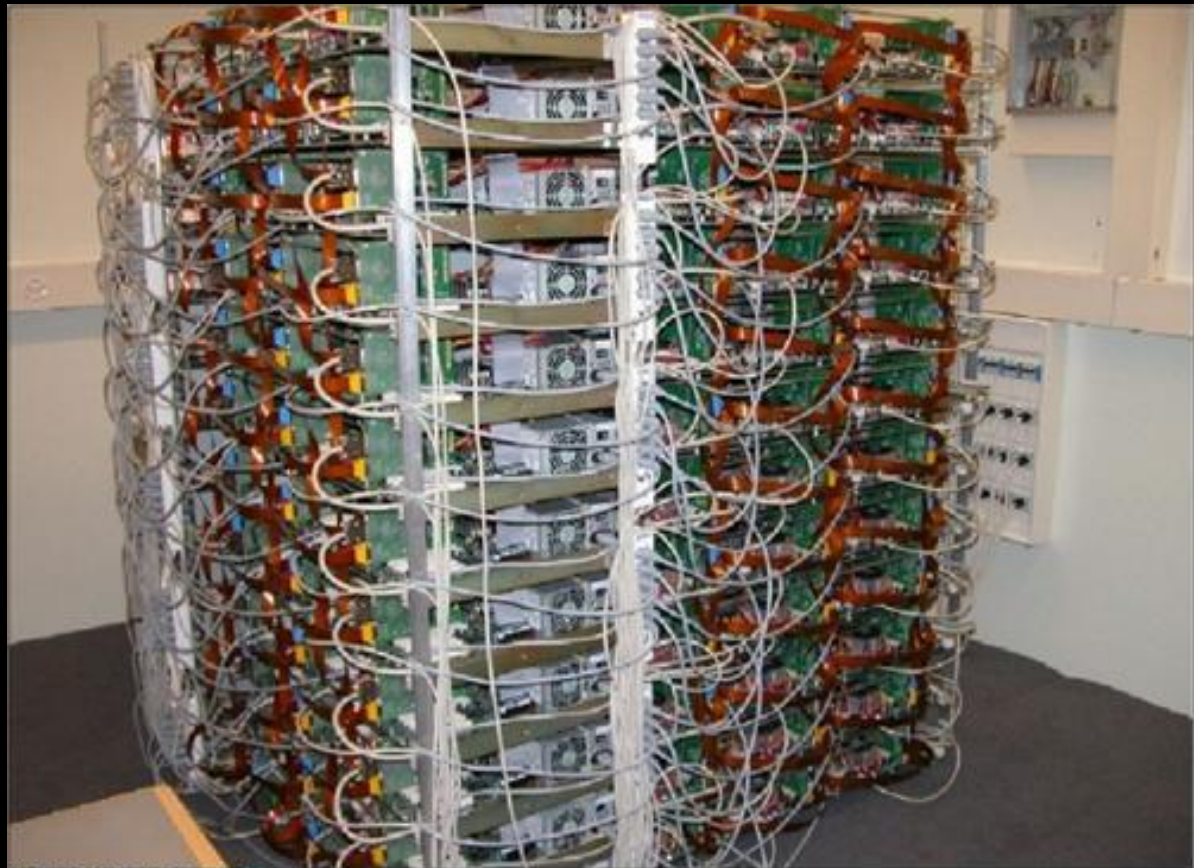
# Data Bags

```
{  
  "id": "demo",  
  "server_roles": ["demo_web_app"],  
  "type": { "demo_web_app": ["rails", "passenger_apache2"] },  
  "packages": { "libmysqlclient-dev": "" },  
  "gems": { "rake": "0.8.7", "bundler": "1.0.12", "mysql": "2.8.1" },  
  "deploy_to": "/var/apps/demo",  
  "owner": "demo",  
  "group": "demo",  
  "database_master_role": ["demo_database_master"],  
  ... (it's JSON, yo!) ...  
  "revision": { "production": "HEAD" },  
  "repository": "git://github.com/smith/demo-rails-app.git",  
  "force" : { "production": true },  
  "migrate": { "production": true }  
}
```

# Application & Database Cookbooks

Data Bags + Recipes = Deploy!

# Environments



Thereifixedit.com

# Chef Disadvantages

- Time investment
- Testing
- You're going to need a *sous* chef
- Opscode not cheap (<http://www.opscode.com/pricing/>)



# Opscode Links

- Chef Wiki: <http://wiki.opscode.com/display/chef/Home>
- Manage: <https://manage.opscode.com/>
- Cookbooks: <http://community.opscode.com/cookbooks>
- GitHub: <http://github.com/opscode>
- Twitter: @opscode

“I have a very assertive way. It’s wake up, move your ass, or piss off home.”



# Thank You

Questions?

Rate this: <http://spkr8.com/t/7359>