

Configuration Management

- Largely Inspired by Adam Jacob's Velocity Talks

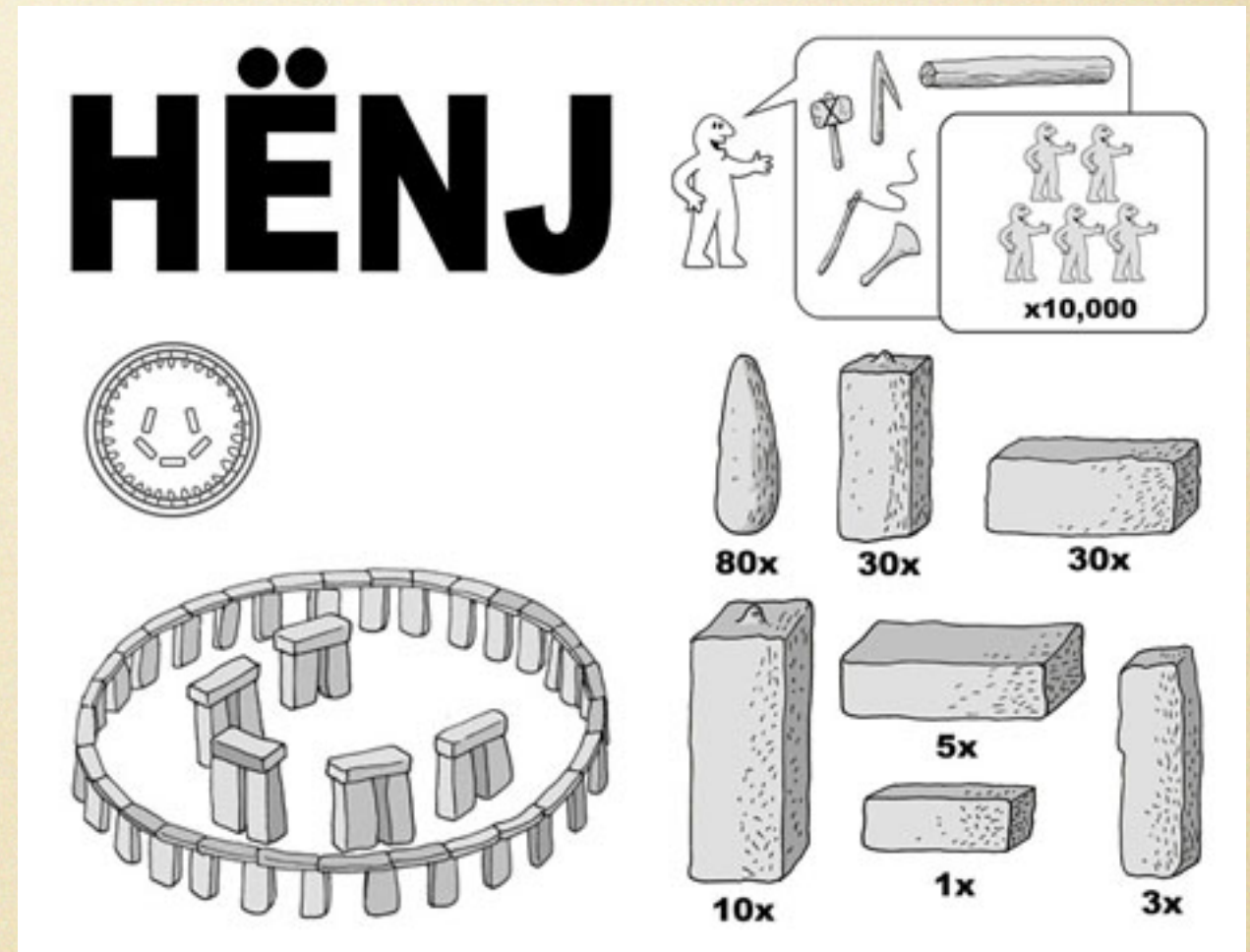
Who's Waldo

- Geek
- Problem Solver
- Systems Engineer
- @gwaldo
- [github.com / gwaldo](https://github.com/gwaldo)

Configuration Management and DevOps

What is CM

- Establishing and Maintaining Consistency of a System
- Path to Scaling, Redundancy, and fewer Pages

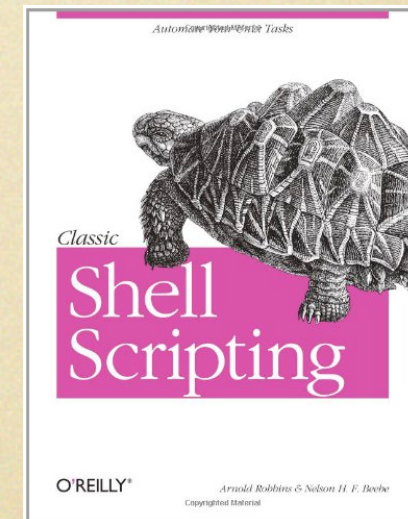


CM Examples

- Group Policy
- Chef
- Puppet
- CFEngine
- Config Scripts
- Salt



CFEngine®

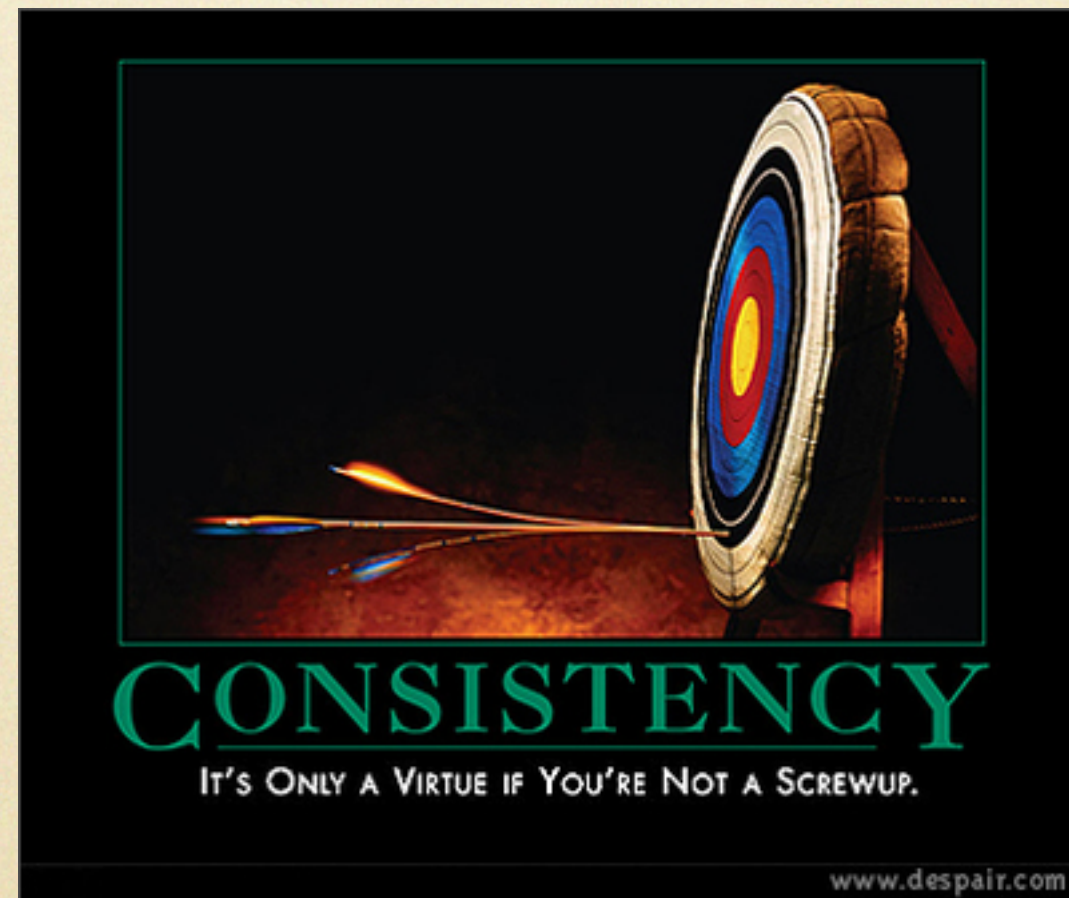


CM Examples (cont'd)

- Turn your head and squint:
 - Jumpstart / Kickstart / PXE / Templates
 - Vagrant & VM Templates
 - Sysprep w / Imaging Tools

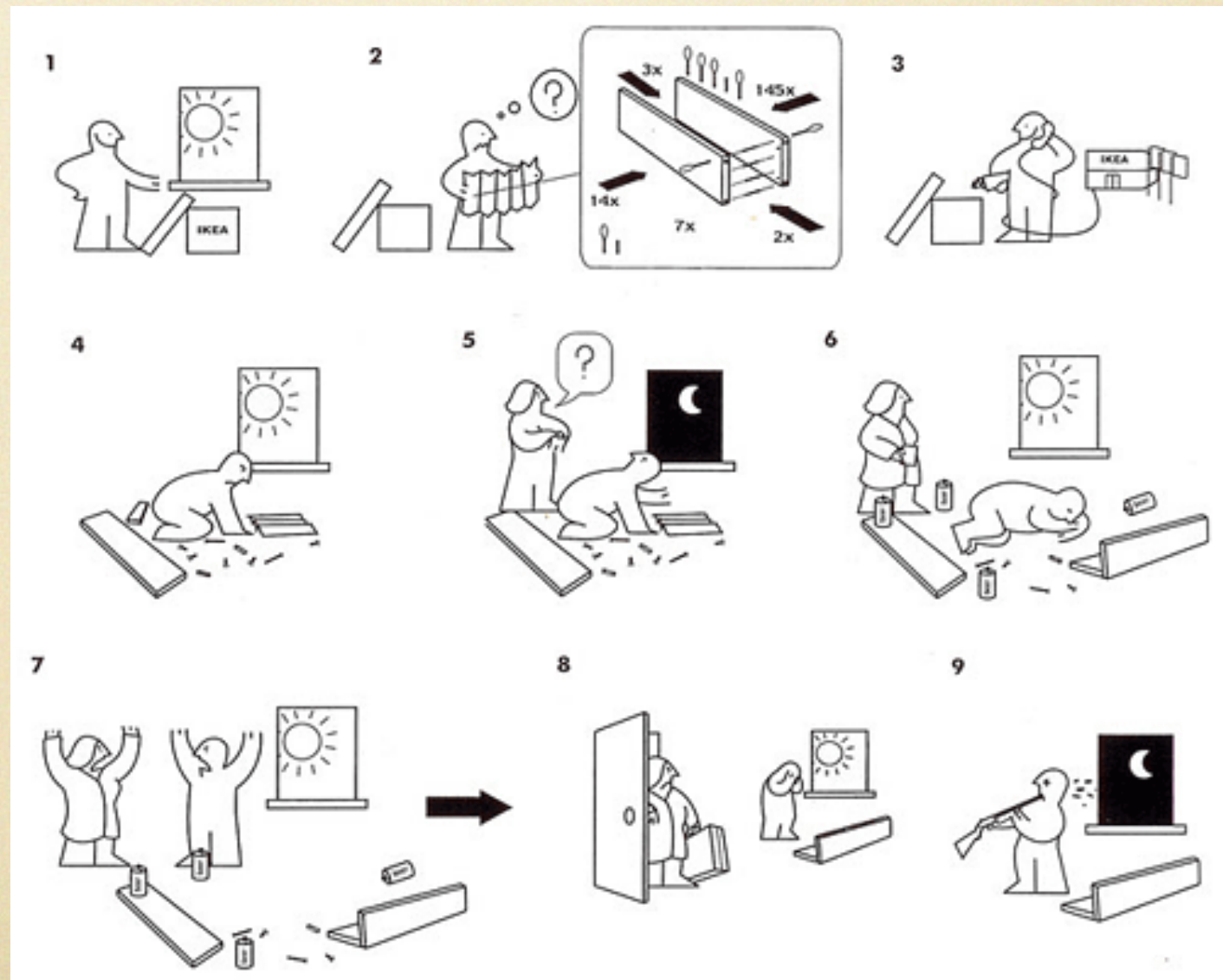
Why Use CM?

- You like consistency



Why Use CM?

- You have better things to do than configure each box



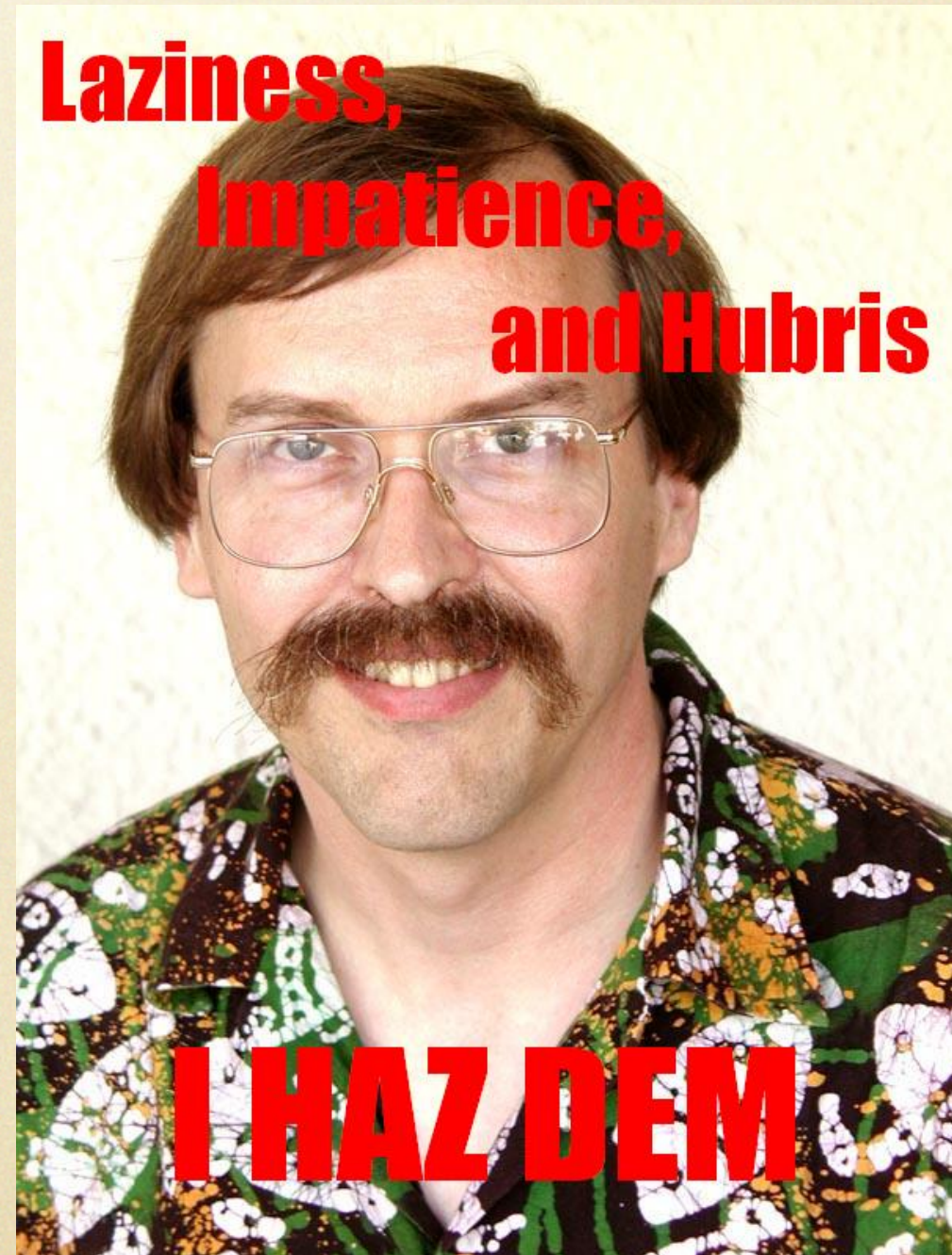
Why Use CM?

- You want better problems to solve
 - a.k.a “A better job



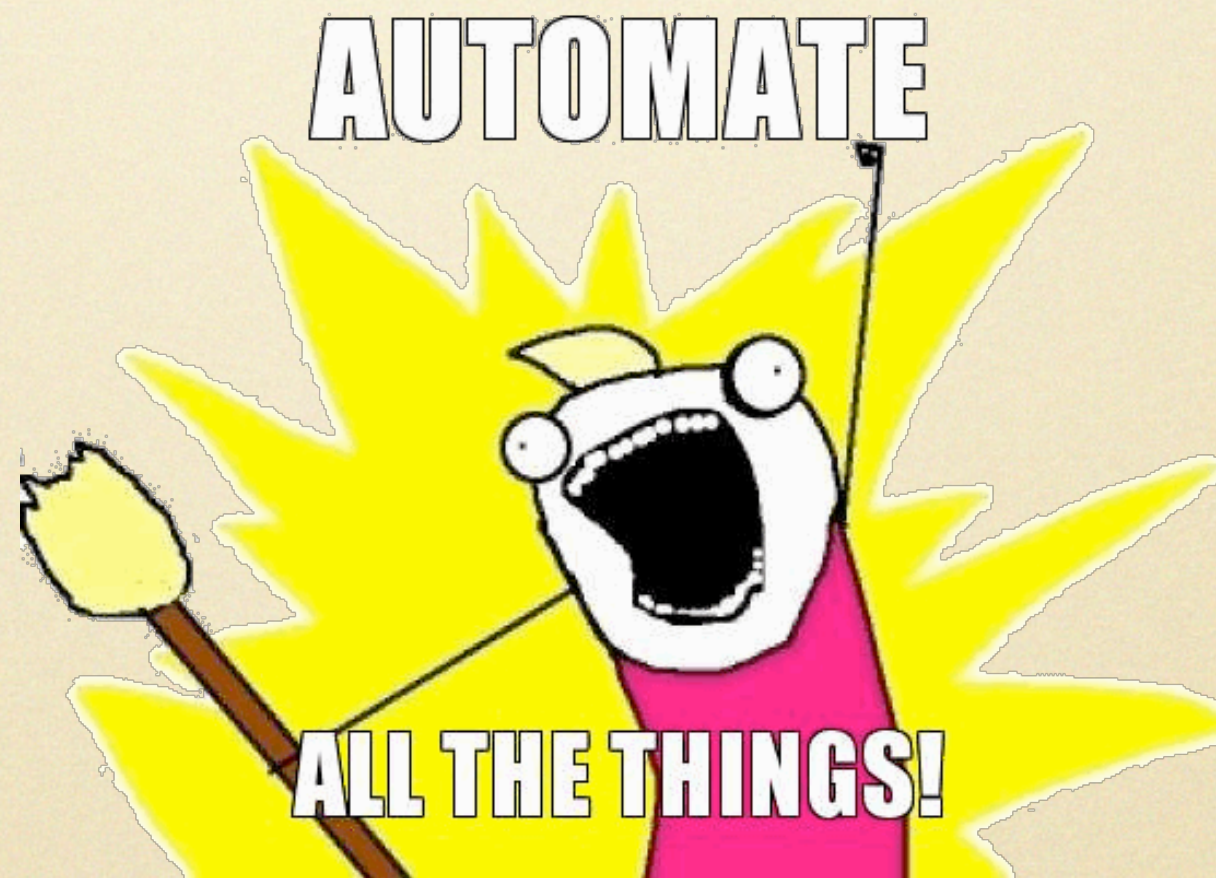
Why Use CM?

- You're Professionally Lazy



Why Use CM?

- Automate



Why Use CM?

- You want to lower the bar to add machines
- You might one day get to auto-scaling



Why Use CM?

- If you're using virtualization, you need practice CM
- You're always going to spin up more boxes than you expect

CM -->

Automation -->

Better Life

Why Wouldn't You?

- Believe in
artisinal organic
retro fair-trade
server crafting



Why Wouldn't You?

- You like doing the same thing every day



Why Wouldn't You?

- You're (plain)
Lazy



CM -->

Automation -->

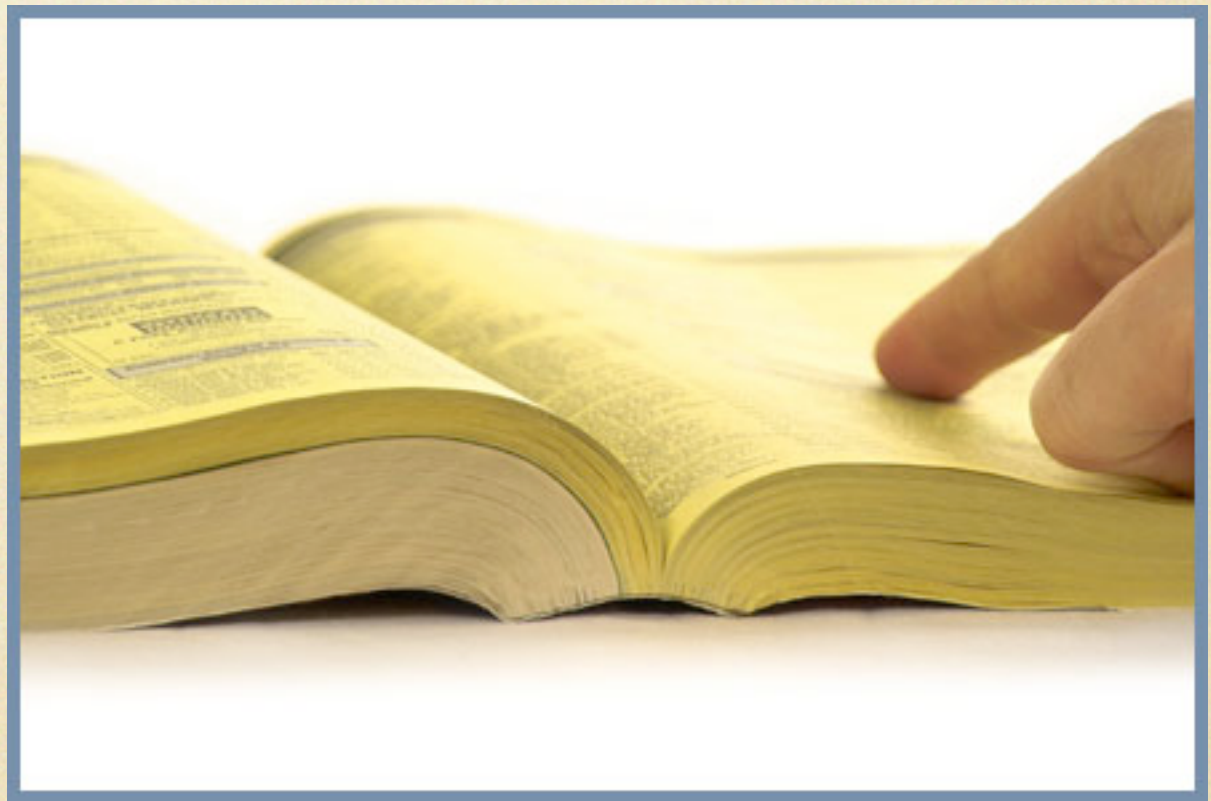
Better Life

What to Automate?

- Get a machine up and on a network
 - BootStrap
 - PXE
 - Kickstart
 - Template
 - Whatever

What to Automate?

- Make Machine Findable by Name
 - DNS
 - AD / LDAP



What to Automate?

- Identity Management
 - AD / LDAP Authentication
 - SSH Keys
 - Establish Root



What to Automate?

- Server Inventory
 - Answer “What do we have?”

What to Automate?

- Use Inventory to configure Monitoring
 - Nagios
 - Zenoss
 - Zabbix
 - Whatever
- If monitoring isn't automatic, it won't get done.



What to Automate?

- Manage Servers Over Time
 - Config Management Tools
 - Chef, Puppet, CFEngine, Salt
 - Scripts
 - Whatever

What to Automate?

- Configs in Version Control

What to Automate?

- Make new releases easy to deliver.
 - CF Tools
 - Capistrano
 - Murder
 - For x in `*`
 - Heroku

Holy Crap That's a LOT

- Automate in stages, according to need
 - Reduce Friction
 - De-Suckify

Your Best Skill

- You know your systems and your problems