Rubyizing the Devs and Ops of an Enterprise

Yashasree Barve

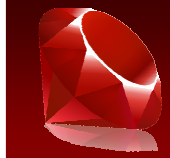
About me

Technologist @ TCS since last 13 years

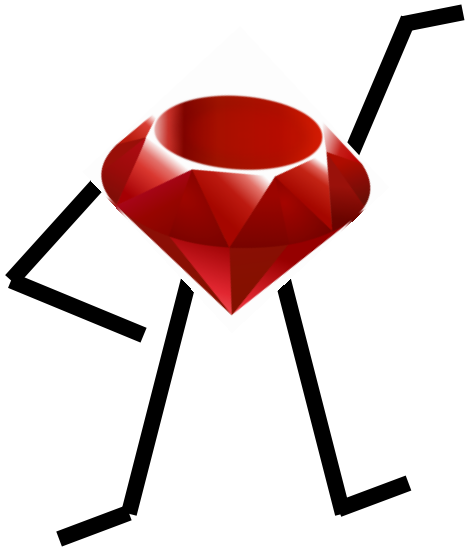
An Agile Ruby developer since 2007

&

I'm lovin' it

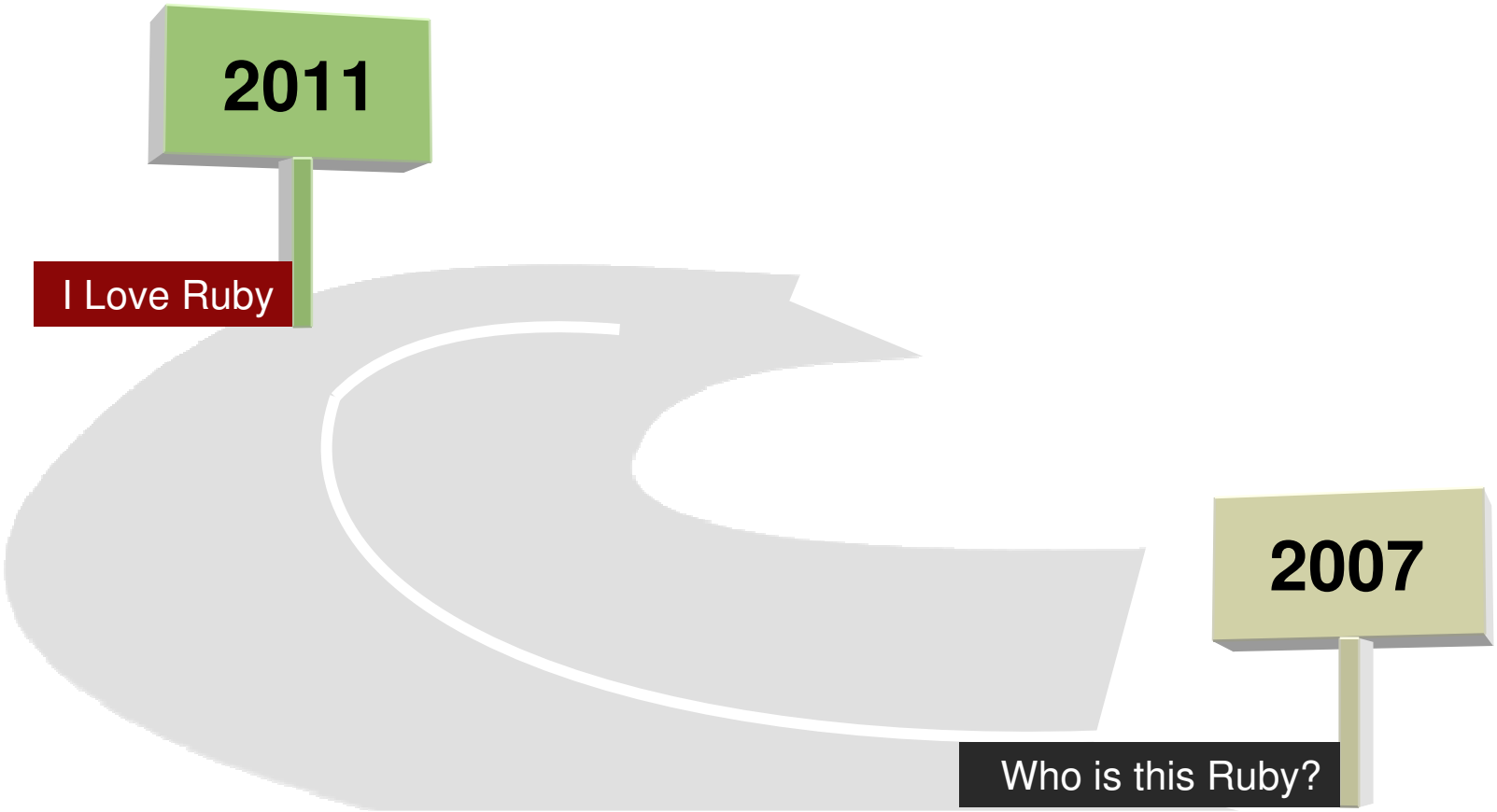


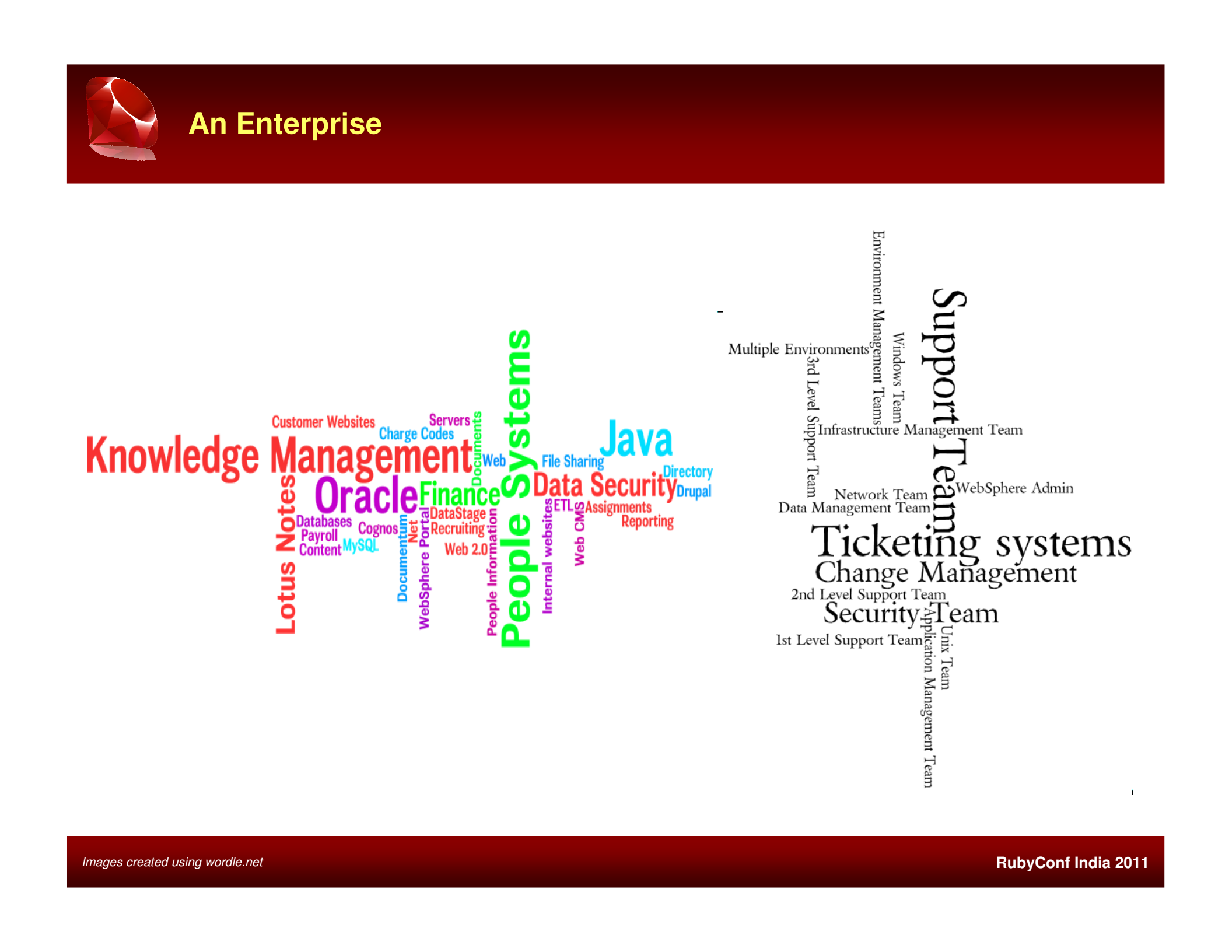
Back in 2007



Who is this **Ruby**?

A Rewarding Journey





An Enterprise

Agile Enters the **Enterprise**

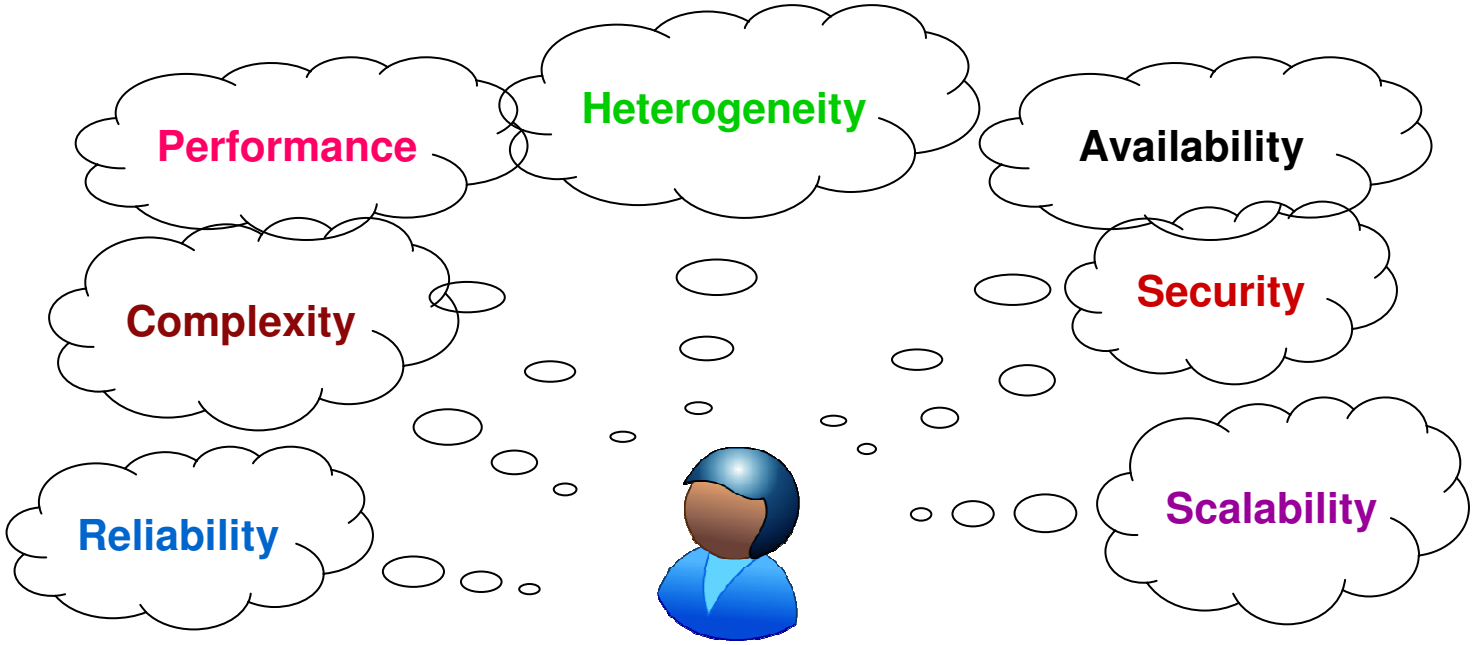
How to build a blog engine in 15 minutes with Ruby on Rails

http://www.rubyonrails.org

By David Heinemeier Hansson,
originally prepared for the FISL 6.0 conference in Brazil 2005

Let us try **Ruby** and **Rails**!

But This is An Enterprise…



How to eat an Elephant?

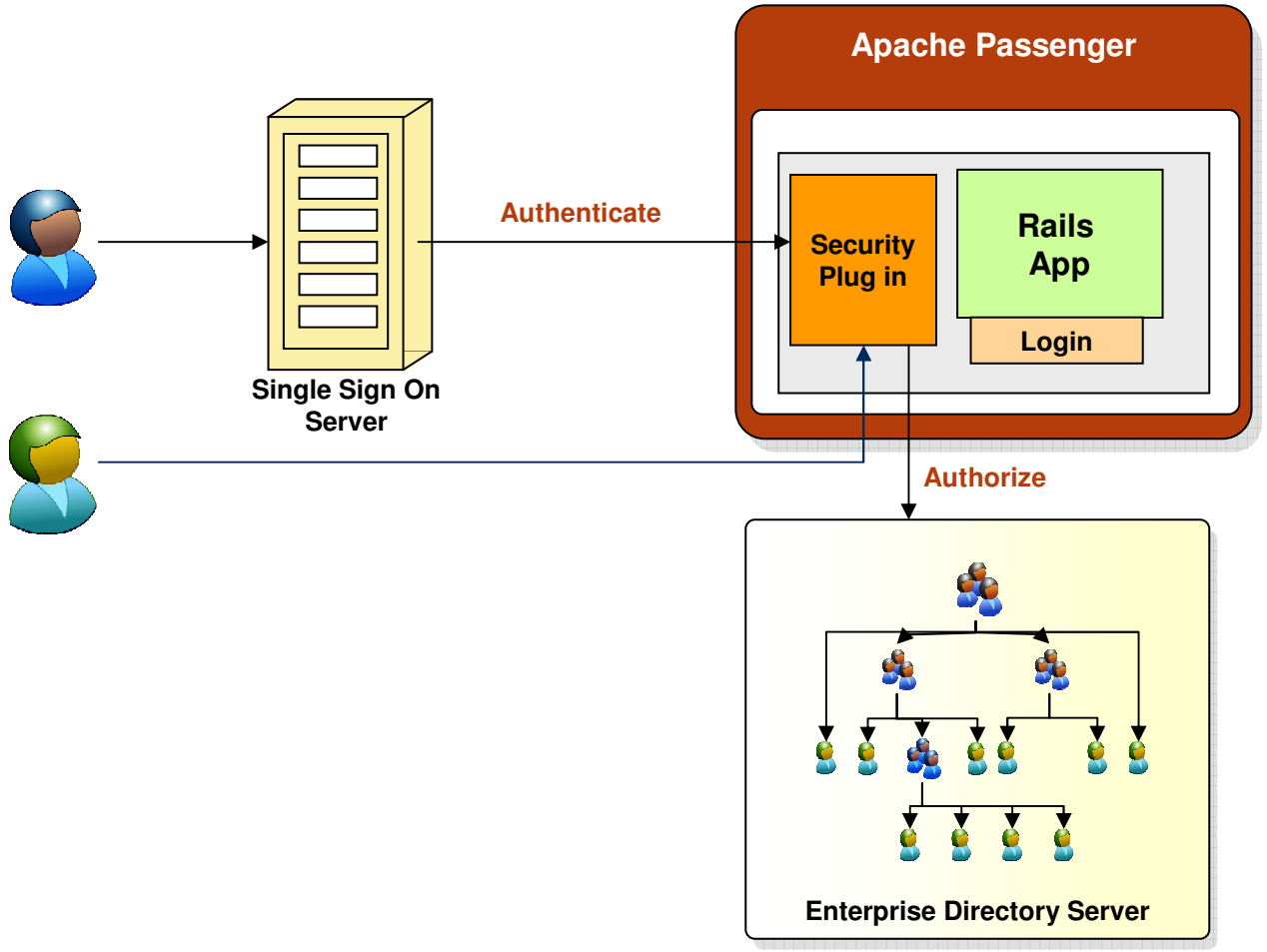
One bite at a time!

THE RAILS WAY

Believe it or not,

most big company security break-ins
involve your employees!

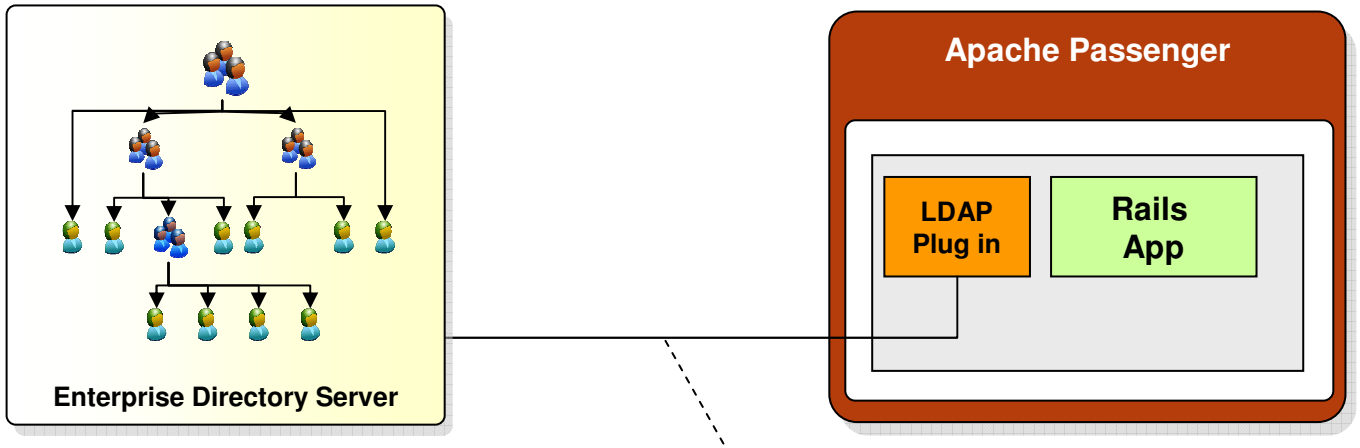
Security Plug in



Microsoft ADS
Domino LDAP
IBM ITDS

Support **ALL** of those!

Directory Server Plug in

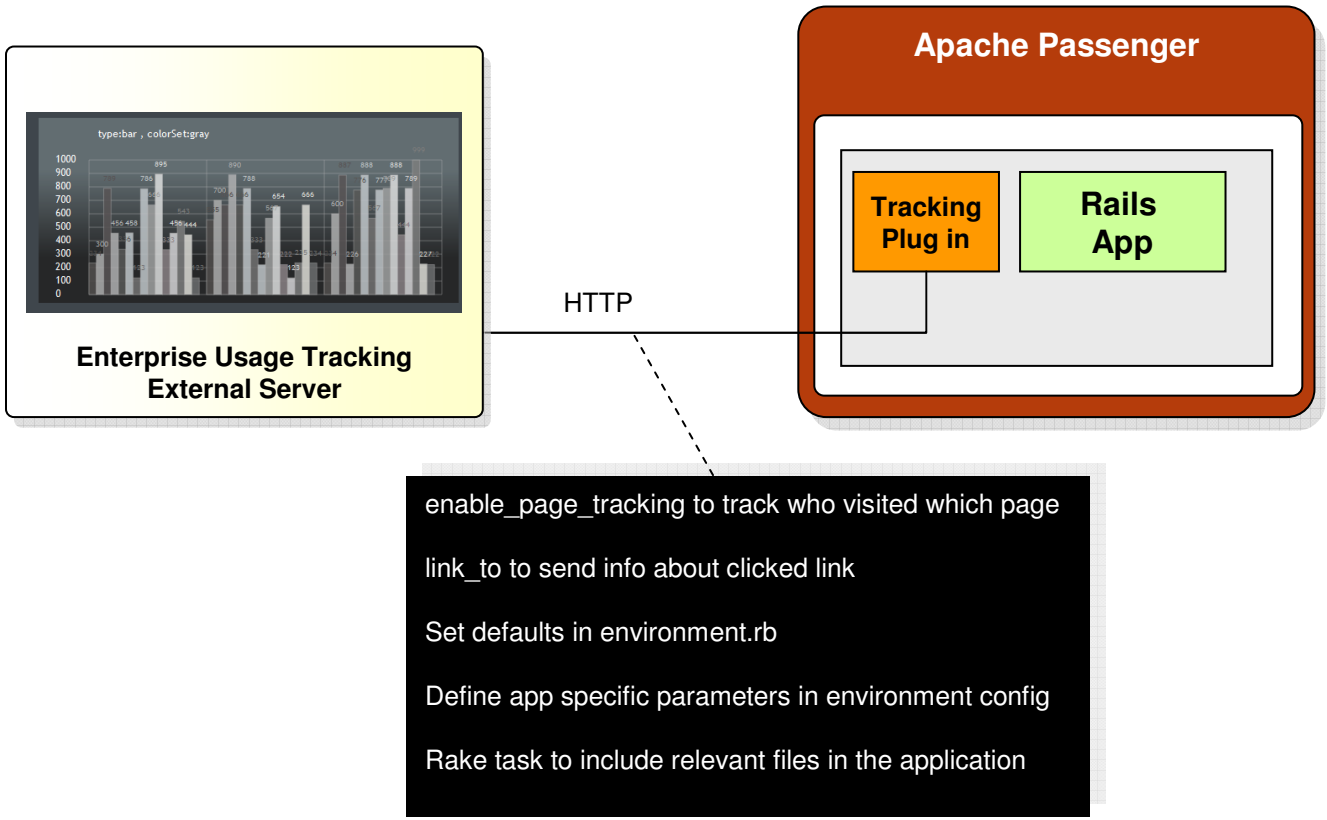



```
> person = MyLdap::Person.find_name 'John Doe'
> person.first_name #=> 'John'
> person.last_name #=> 'Doe'
> person.is_contractor? #=> true
> person.is_in_group?('some_admins') #=> true
> person.groups #=> ['some_admins', 'that_user']

> group = MyLdap::Group.find_by_name 'some_admins'
> group.contains? person> #=> true

> Other ways to find a person:
> MyLdap::Person.find_by_distinguished_name
> MyLdap::Person.find_by_sso_name
```

every Page you See

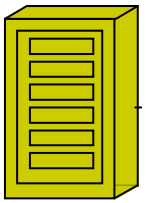
every Click you Make

Usage Tracking



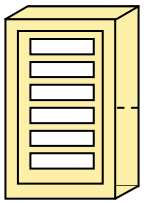
Plug ins that DRYed us

Hosting Internally



Gem Server

```
C:\my_app\trunk>gem install -source
http://mygemserver:8808/ distribute
```



Enterprise Subversion Server

```
C:\my_app\trunk>ruby script/plugin
install my_security -source
http://svn....com/ruby/plugins/my_security/trunk
```

Rails

Up and Running

Create a Brand New Rails app that

- gets committed in SCM
- configured on CI
- branding, security, ldap, and so on installed
- ready to be deployed with configured Capfile
- defaults to rspec, mocha, cucumber

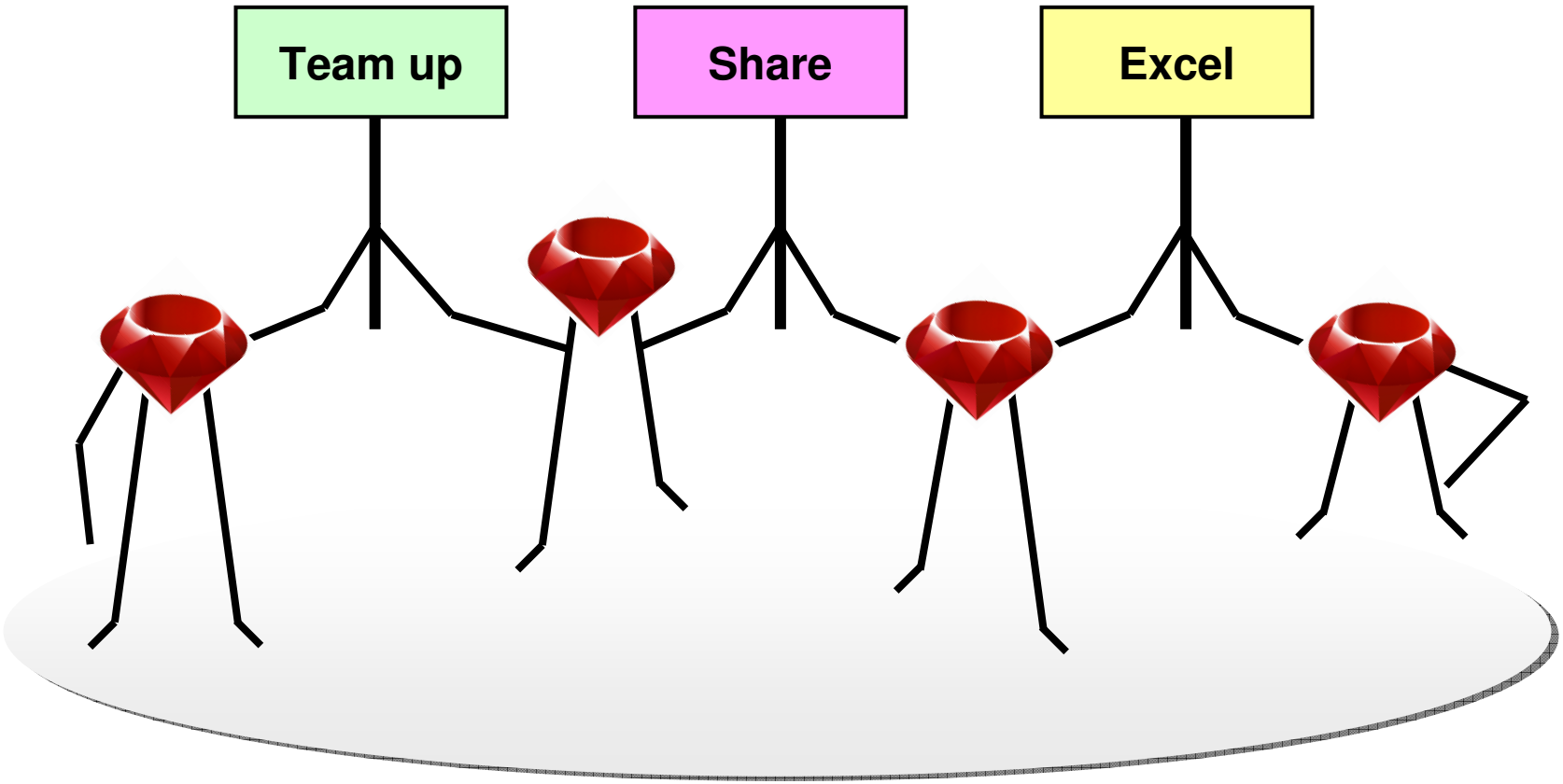
Way We Work

Keep it Simple.

Automated Tests, A part of life.

Continuously Integrate, Release Often.

Vibrant Rubyists Group



Oops!

But what about the

Ops

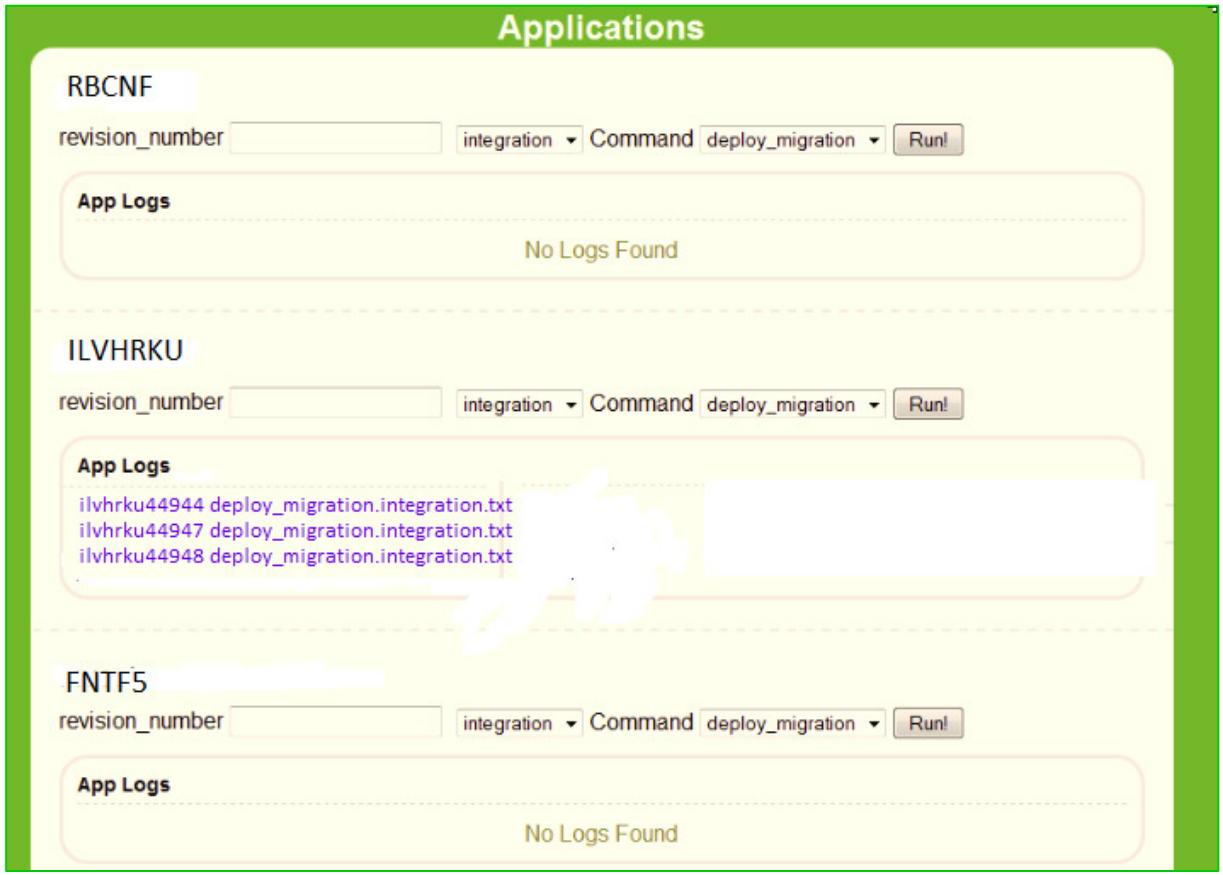
The BIG Task of Deployment

```
C:\my_app\trunk>capd deploy:migrations
    triggering start callbacks for `deploy:migrations'
Select Stage:
1. production
2. integration
3. devutility
4. qa
Please select:
```

```
> capd apache:configure
> capd apache:passenger:configure
> capd apache:restart
> capd install
> capd uninstall
> capd deploy:bundle_gems

> capd deploy:minify_and_upload_assets
> capd deploy:minify_erbs

> capd google:configure
> capd ldap:configure
> capd database:configure

> capd hoptoad:notify
```

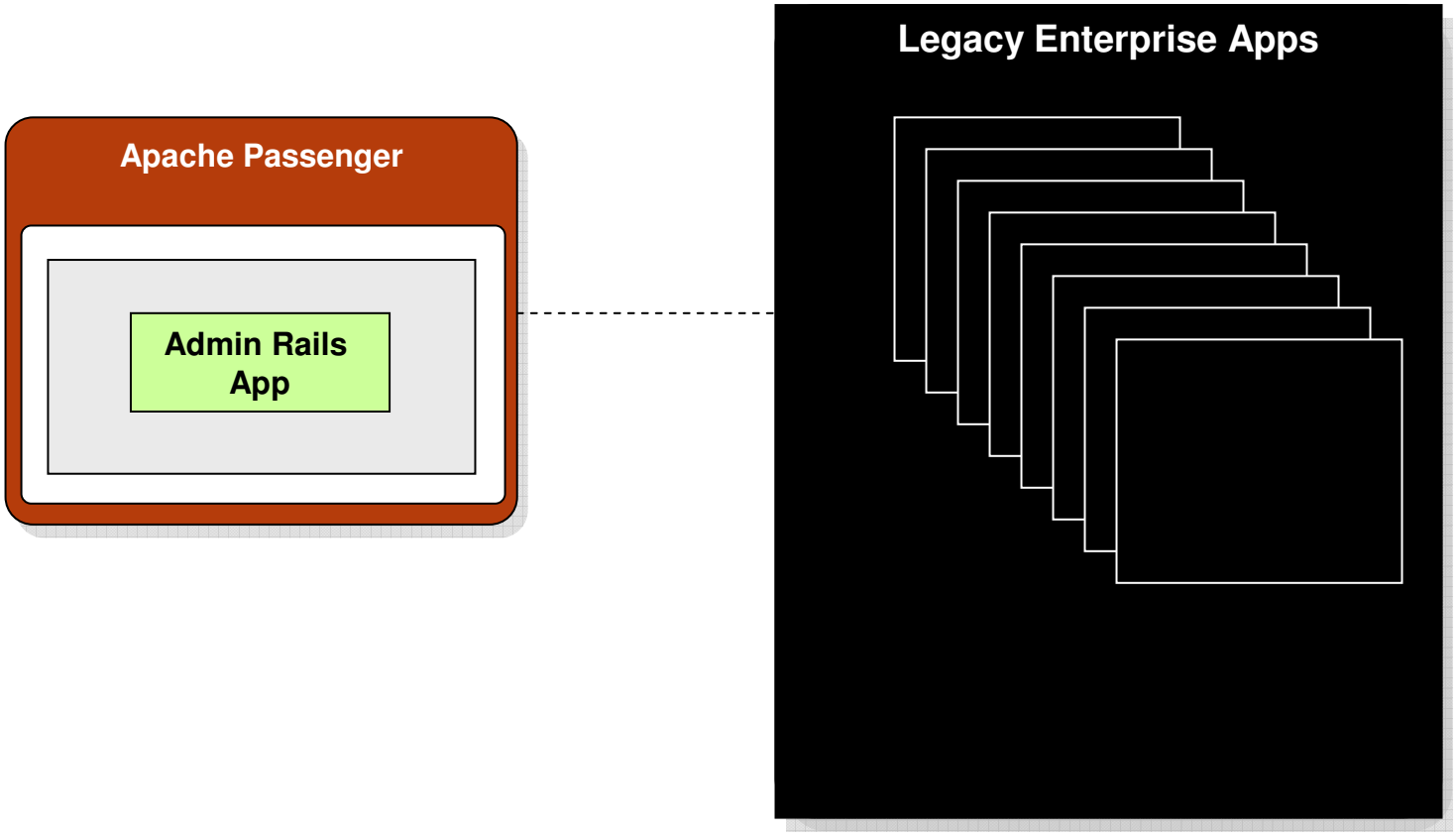
Powered by Capistrano and Passenger

Towards One Click deployment

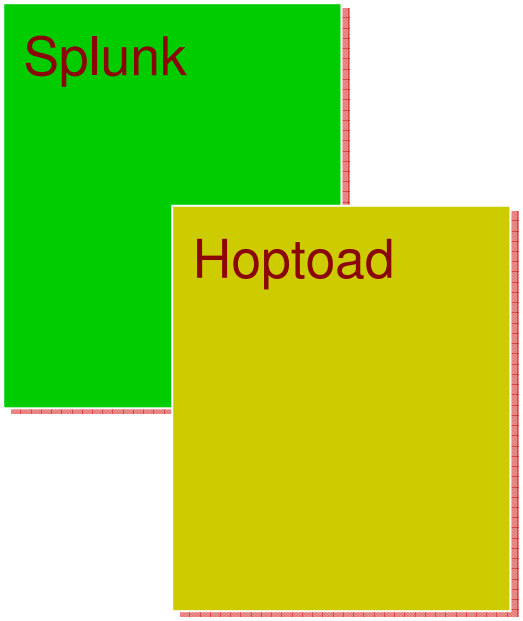


Inspired by Heroku

Busting those Tickets!



More Transparency



Chef at work

Infrastructure as a code
and
The code is **Ruby**

Envisioning the Provisioning

- Monitor the App Performance
- Spin a virtual server to scale horizontally

Dev
Ops

This presentation would not have been possible without

My fellow Rubyists

Amit Kumar

Thomas Newton

Patrick Shaughnessy

&

My creative designer buddy

Mayura Sawant

Thanks mates!

Thank you all for being patient and hearing me out.

Hope this helps you!

Any questions?