



# Rubyizing the Devs and Ops of an Enterprise

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## About me

Technologist @ **TCS** since last 13 years

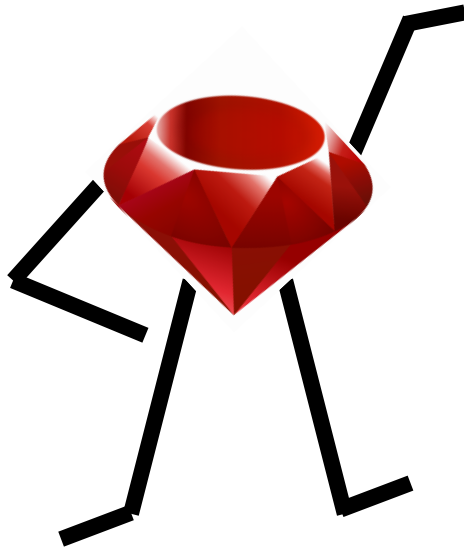
An **Agile Ruby** developer since 2007

&

I'm lovin' it



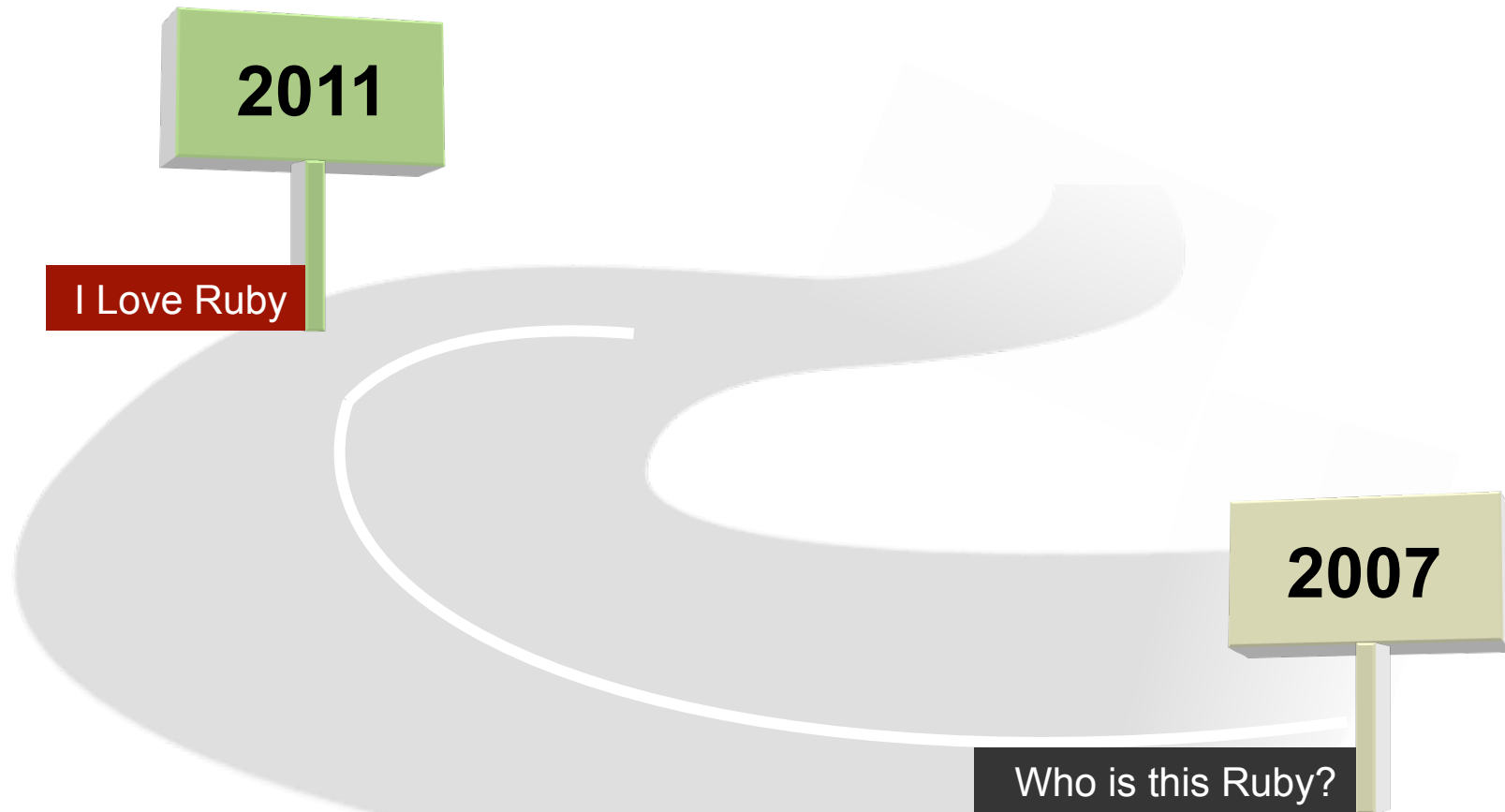
Back in 2007



Who is this **Ruby**?

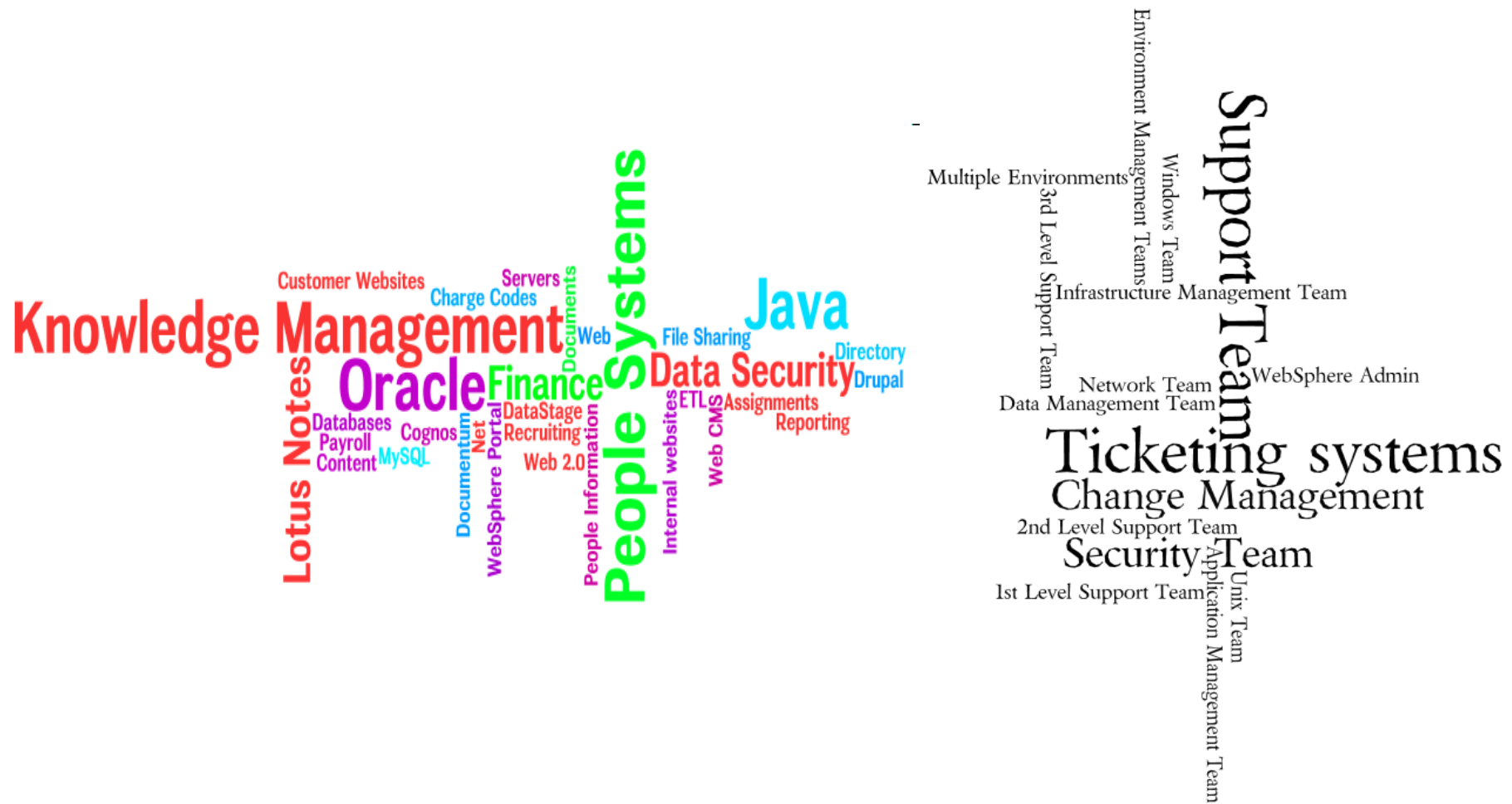


## A Rewarding Journey





## 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 FOSDEM conference in Brazil 2005

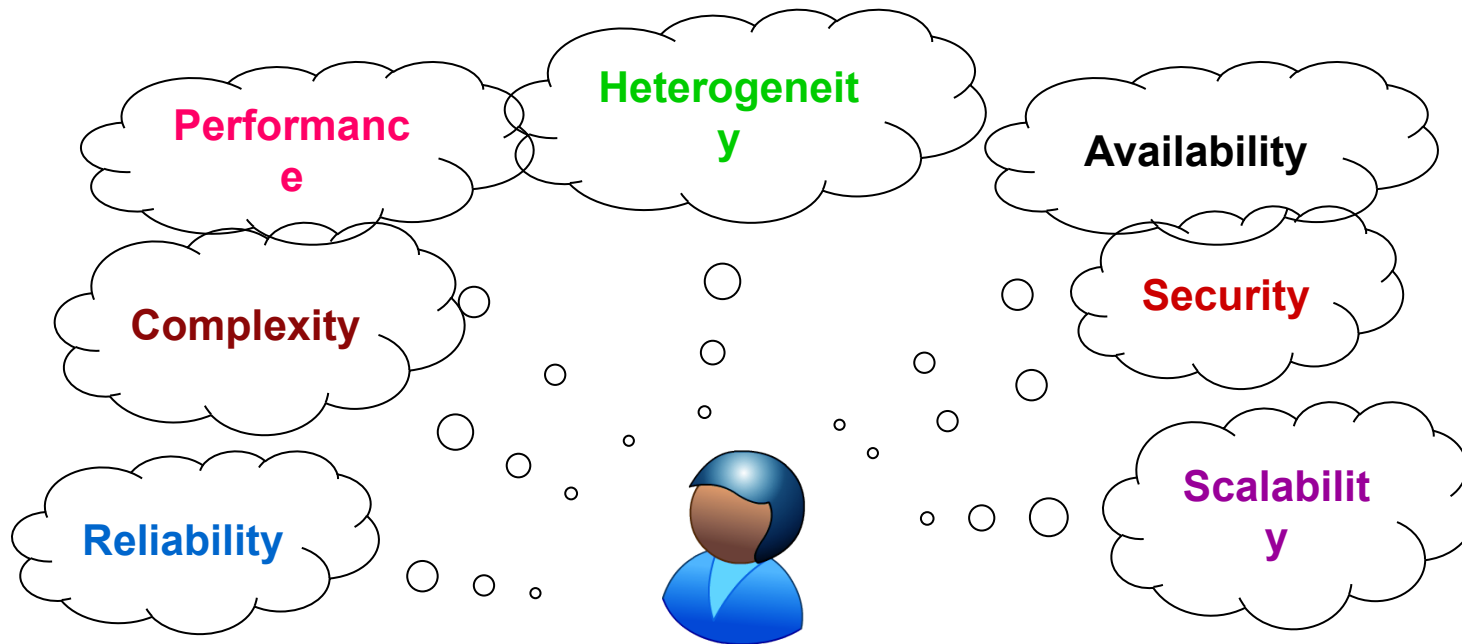


Let us try **Ruby** and **Rails**!





## But This is An Enterprise...





How to **eat** an **Elephant**?  
**One bite at a time!**



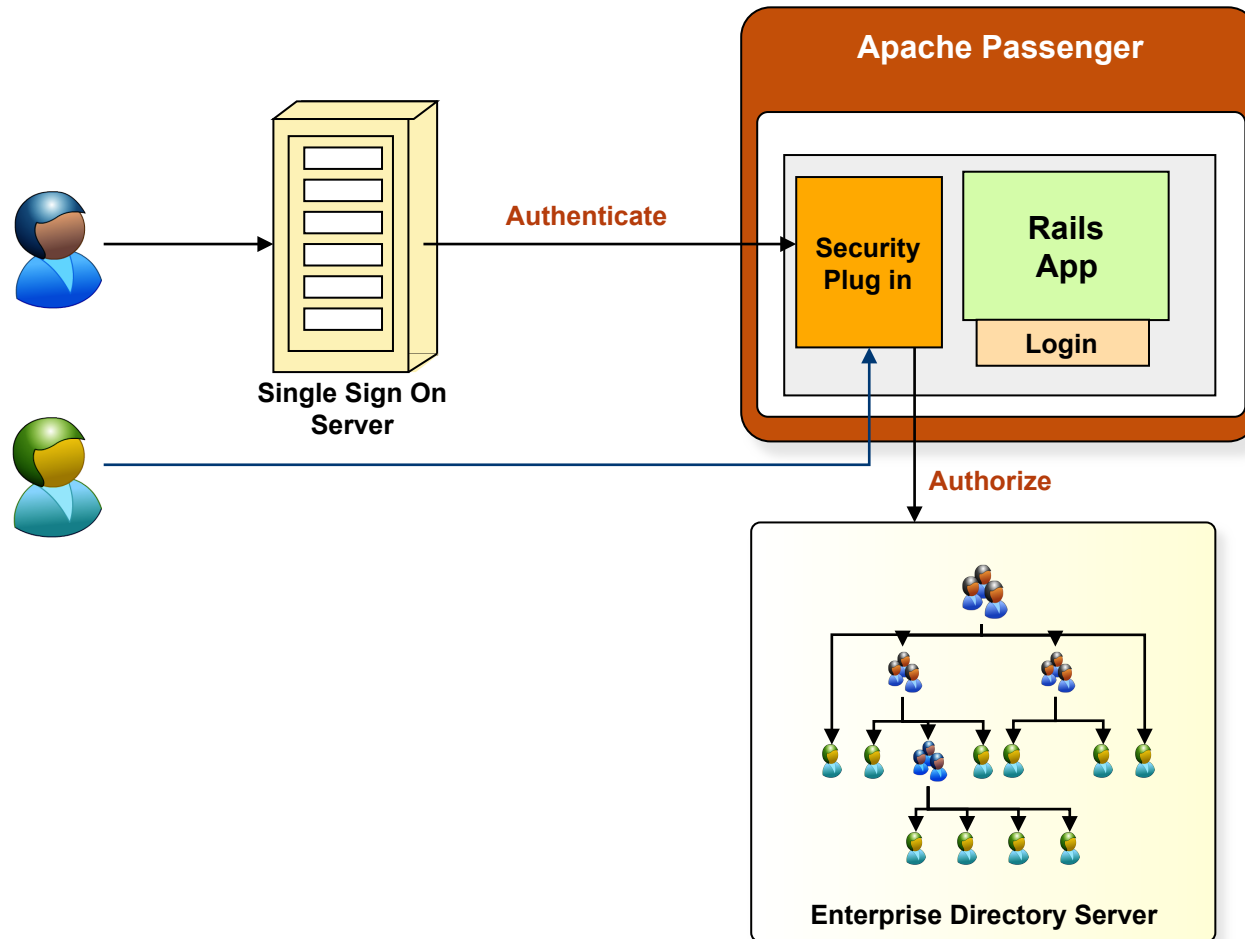
# THE RAILS WAY



**Believe it or not,**  
most big company security break-ins  
involve your employees!



## Security Plug in



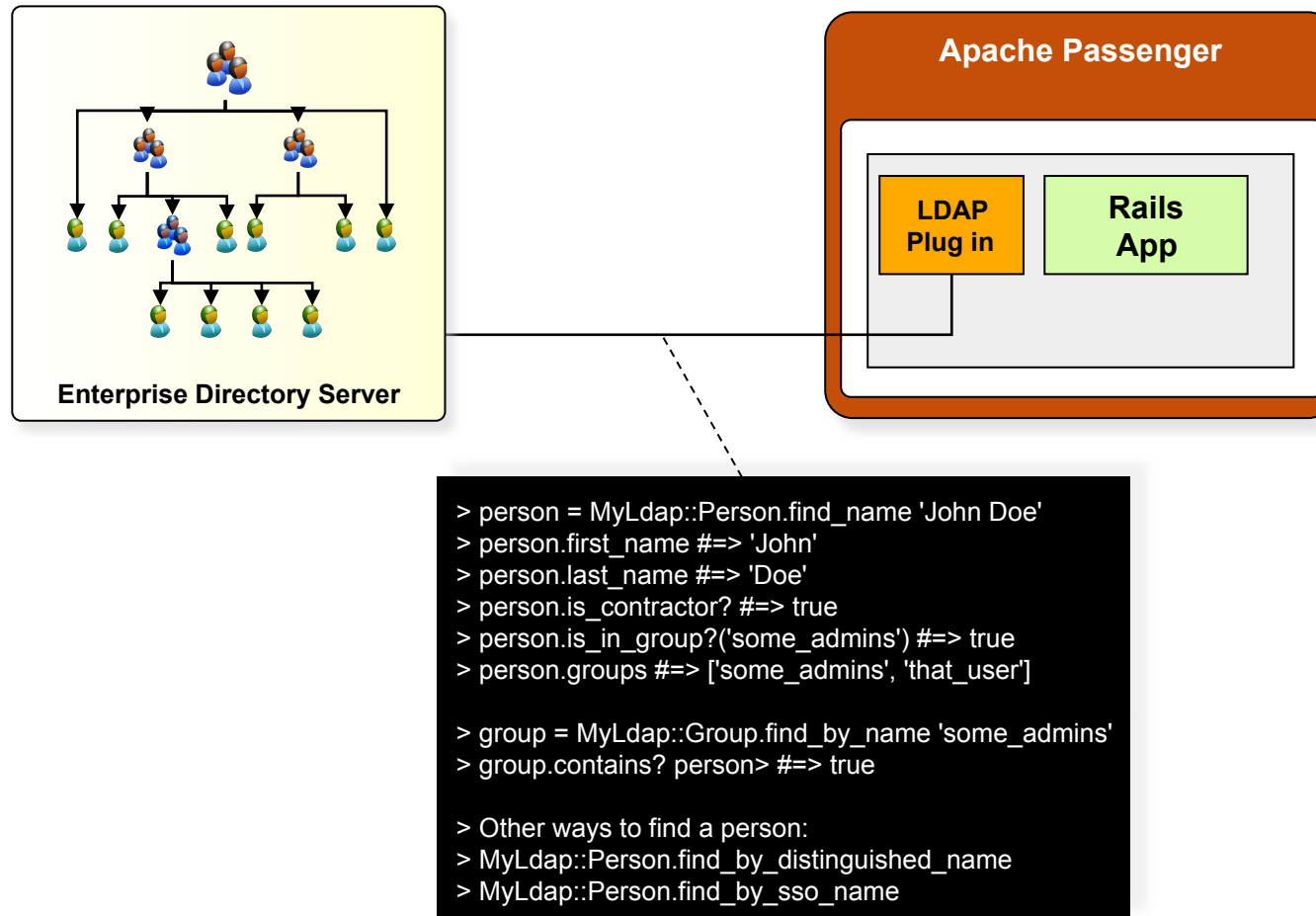


Microsoft ADS  
Domino LDAP  
IBM ITDS

Support **ALL** of those!



## Directory Server Plug in



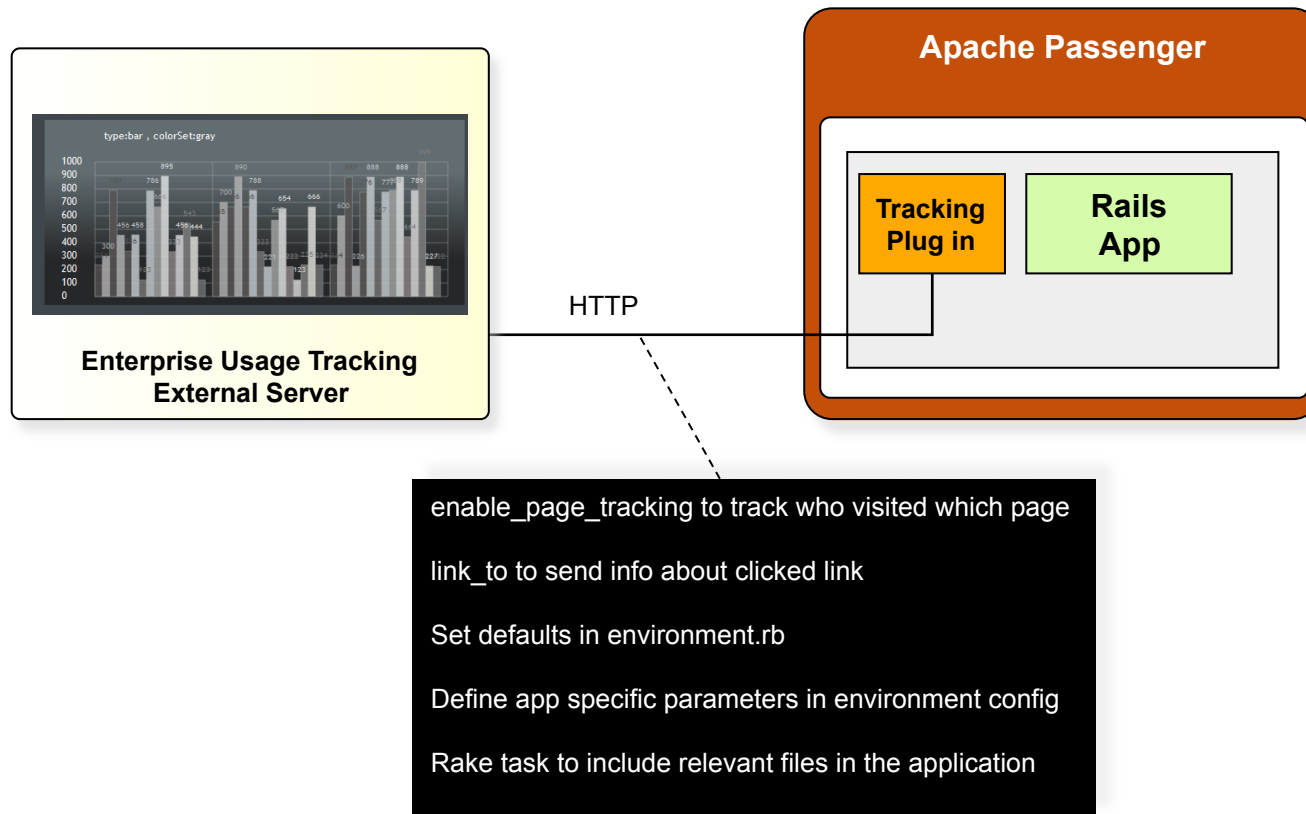


every **Page** you **See**  
every **Click** you **Make**





# Usage Tracking



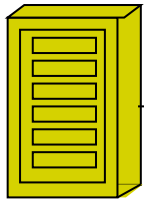


## Plug ins that DRYed us

url encrypt  
tracking async  
repeated auto complete  
sso ajax fix  
branded ui  
common services  
diagnostics  
asset minifier  
extra sanitize

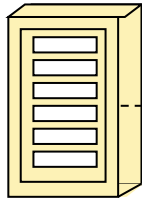


## Hosting Internally



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

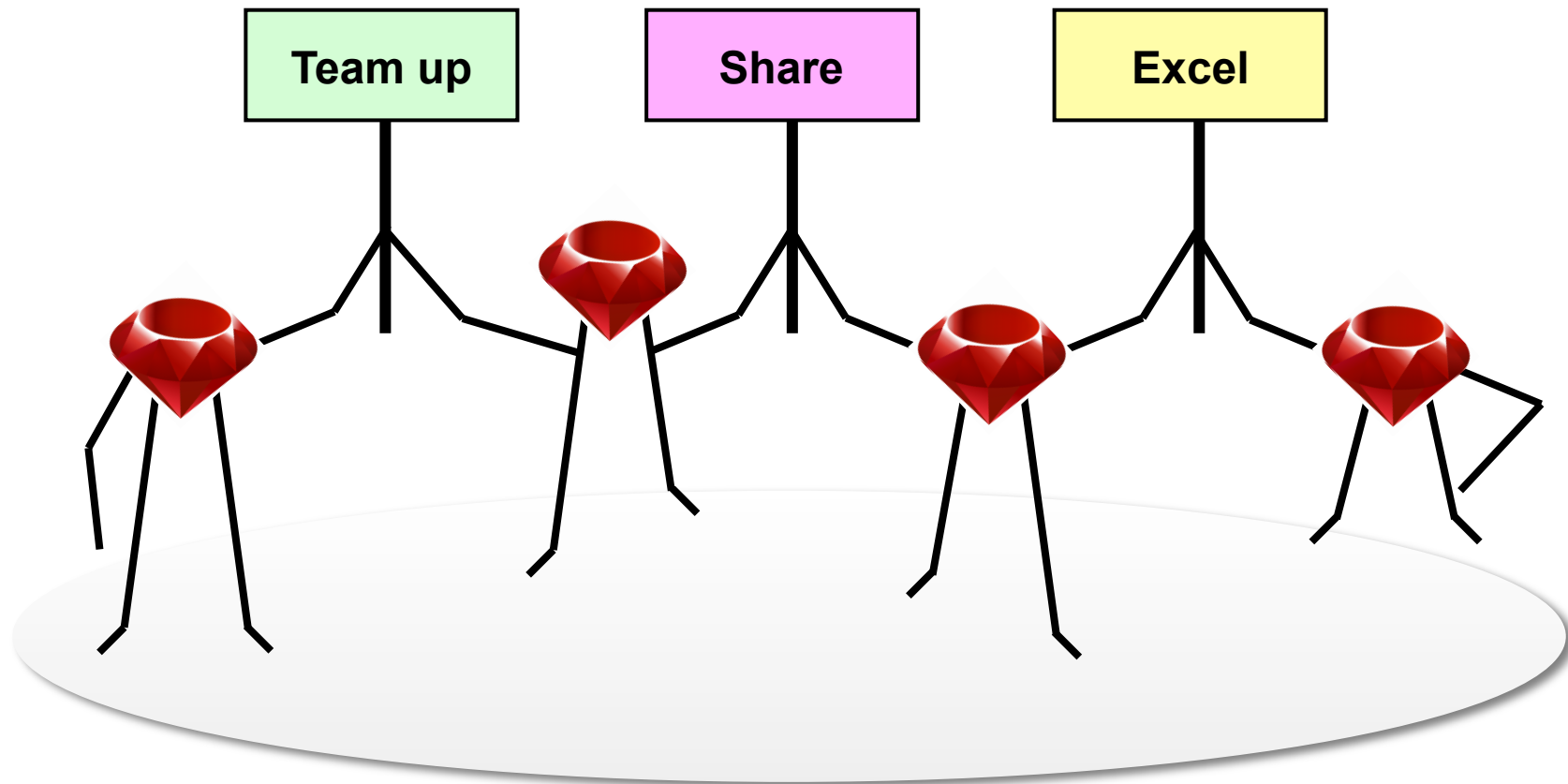
Keep it  
Simple.

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

### Applications

RBCNF

revision\_number

integration

Command

App Logs

No Logs Found

ILVHRKU

revision\_number

integration

Command

App Logs

ilvhrku44944 deploy\_migration.integration.txt  
ilvhrku44947 deploy\_migration.integration.txt  
ilvhrku44948 deploy\_migration.integration.txt

FNTF5

revision\_number

integration

Command

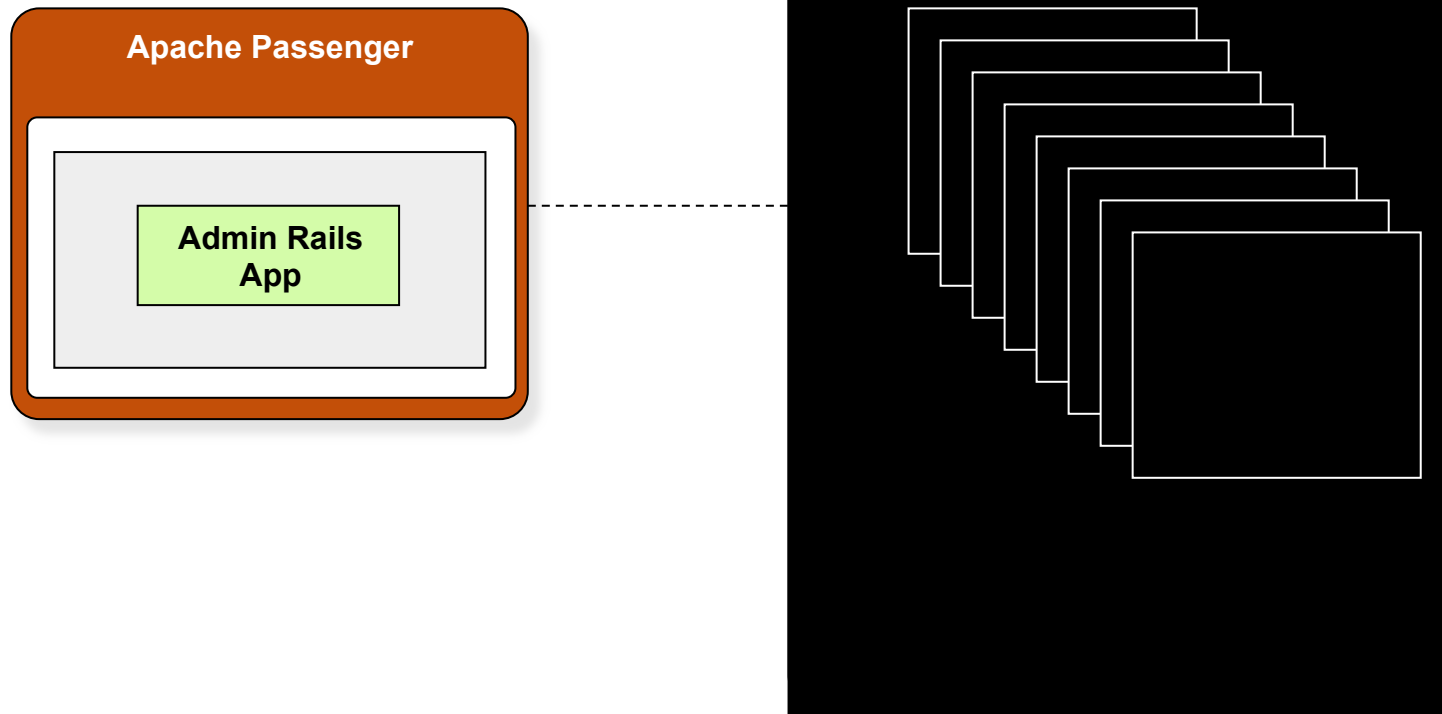
App Logs

No Logs Found

*Inspired by Heroku*



## Busting those Tickets!





## More Transparency

Splunk

Hoptoad



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?