HEROKU STARTER PROJECT

Heroku Connect with Multiple Organisations and Search







Rob Anderton February 2015



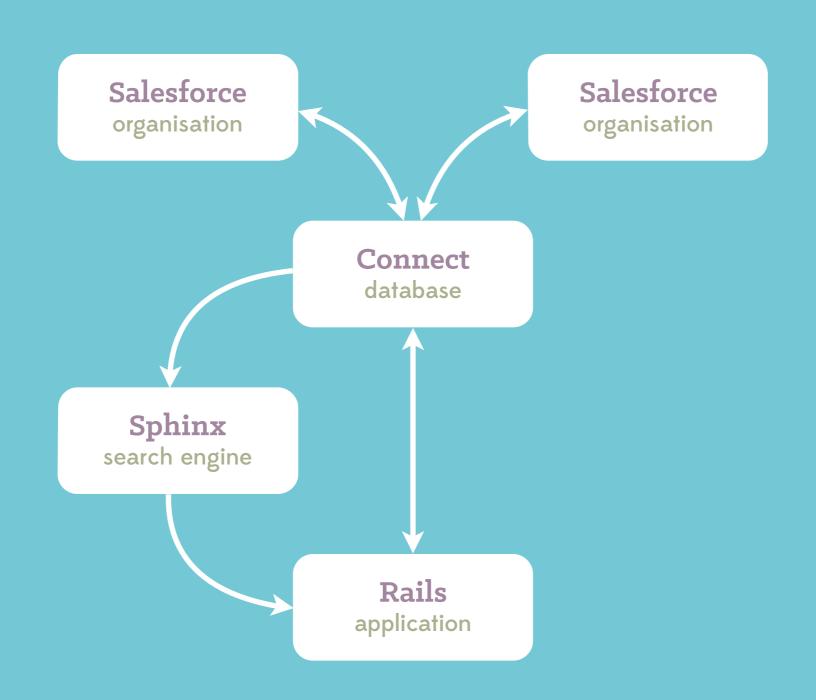
INTRODUCTION Who am I?



Rob Anderton

- ★ Co-founder of TheWebFellas
- * Technical Architect and Senior Developer
- * Ruby, Rails, JavaScript, Sphinx, AWS

INTRODUCTION The project



TECHNOLOGY Heroku Connect



- Synchronises data between Salesforce and Heroku platforms
- Provides point and click configuration of data mappings
- Separates Salesforce integration from application code

TECHNOLOGY Sphinx



- Open source full text search engine
- * Fast and flexible
- * Works directly with Heroku Postgres data

TECHNOLOGY Ruby on Rails



- Web development framework
- Sphinx integration using Thinking Sphinx
- Flying Sphinx add-on for Heroku

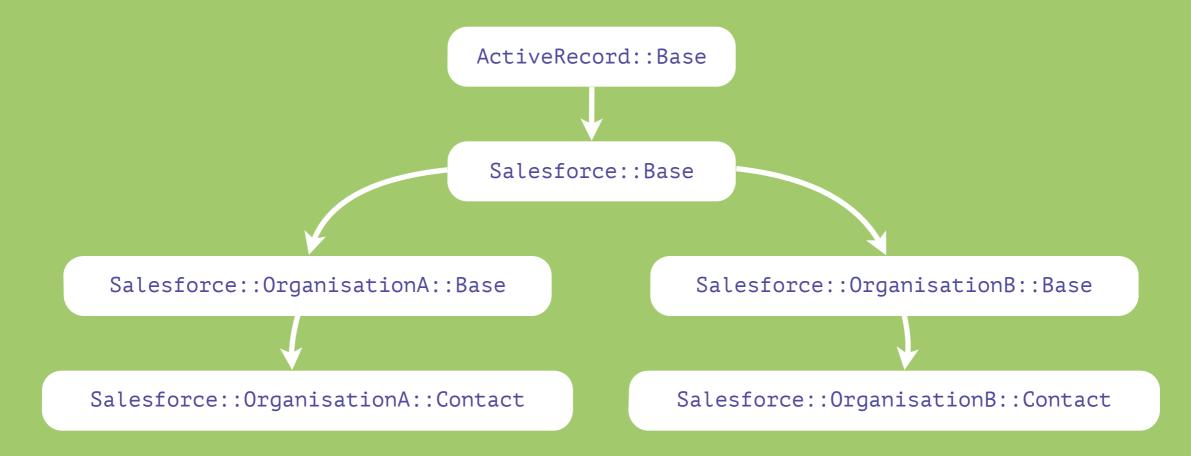
Connect mappings

- * New! Heroku Connect Demo Edition
- ★ Free to use with some limitations
- ★ Free Salesforce Developer Edition organisation

- \$ heroku addons:add herokuconnect:demo
- \$ heroku addons:open herokuconnect:demo

Rails models

- ★ No code required for Salesforce integration
- * ActiveRecord models much like any other
- ★ Use namespaces to organise code



Sphinx integration

- * Flying Sphinx add-on for Heroku
- ★ Client libraries for Ruby, Rails, Python & Node.js
- * Handles configuration, indexing and search
- ★ Hosted service running on AWS
- ★ Multiple pricing plans for different usage requirements

\$ heroku addons:add flying_sphinx:wooden

Indexing data

- ★ Define indices for models using Thinking Sphinx
- ★ Index the data using Flying Sphinx

```
ThinkingSphinx::Index.define 'salesforce/organisation_a/contact', with: :active_record do
  indexes email
  indexes firstname, as: :first_name
  indexes lastname, as: :last_name
  indexes title
  indexes [ lastname, firstname ], as: :name, sortable: true
  where sanitize_sql([ 'isdeleted = ?', false ])
end
```

\$ heroku run bundle exec flying-sphinx index

Searching data

- ★ Thinking Sphinx provides powerful DSL for search
- * Supports filtering, sorting, pagination and more
- ★ Global search across multiple indices
- No code required for Salesforce integration

```
Salesforce::OrganisationA::Contact.search('bob')
=> # Returns Contacts from Organisation A that match 'bob'
ThinkingSphinx::Search('bob')
=> # Returns matches from any index that match 'bob'
```

FURTHER WORK Delta indexing

- Sphinx index has to be periodically rebuilt
- Large datasets take time to process
- Delta index only contains updates
- Handled transparently by Sphinx
- Flying Sphinx provides delayed delta support

FURTHER WORK Delta indexing

- Custom fields in Connect mapping table
- Custom triggers to handle updates from Salesforce
- Wrapper models in Rails for custom metadata
- Need to research and define best practice

SUMMARYSeamless Salesforce integration

- Heroku Connect makes it easy to work with Salesforce data
- * Multiple organisation support
- No need to spend time writing complex integration code
- Postgres database allows other tools to interact with data without awareness of Salesforce
- * Developers can focus on their applications

THANKS

TAM Team

- ⋆ Peter Braswell
- ★ Mike Jerome
- ★ Andy Macdonald
- ★ Niklas Richardson
- ⋆ Phil Ripperger

Connect Team

- ★ Margaret Francis
- ★ Scott Persinger
- ★ Marc Sibson

THE END Any questions?

Try the app

https://rob-anderton-starter-project.herokuapp.com

View the code

https://github.com/rob-at-thewebfellas/heroku-connect-search