



Deployment



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Deployment

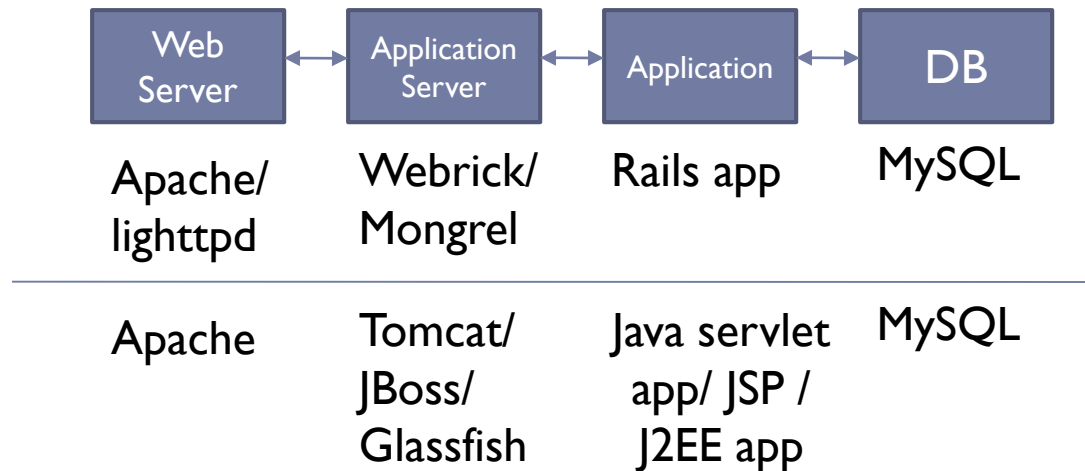
- ▶ Eventually, want to run from single laptop to production environment
- ▶ Webrick just won't cut it in the long run
 - ▶ single-threaded
 - ▶ Potentially slow
- ▶ Multiple threads, multiple front-end machines, multiple database servers, etc.
- ▶ How do you scale from one machine to a roomful?
 - ▶ Always a bit ad-hoc

Issues to think about

- ▶ You might be deploying to a shared hosting provider, dedicated server, or even a cluster of machines
- ▶ industry or government standards might apply – HIPAA, Visa CISP ...
- ▶ different network setups, requirements for database access, firewall protections...
- ▶ Finally but surely – each application will display its own quirks upon deployment
- ▶ The trick is to start early!

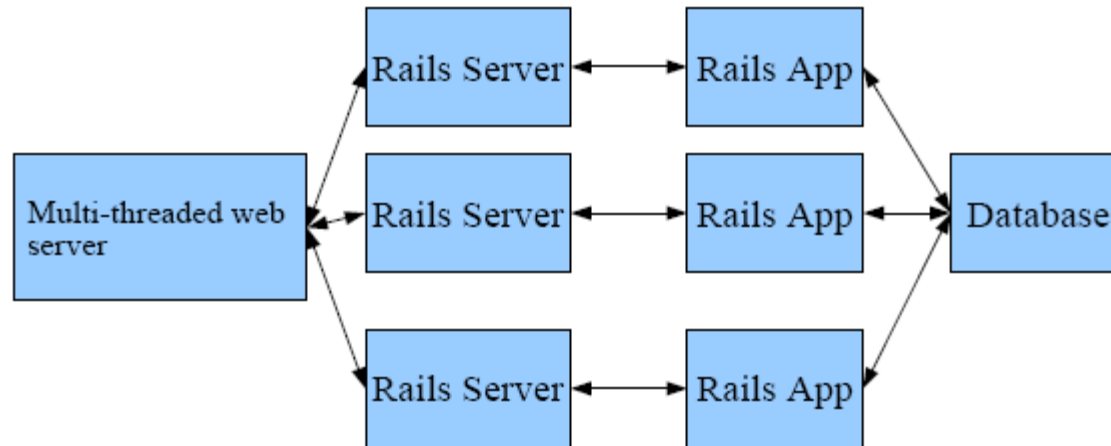
Rails web architecture

- Development – all on one machine



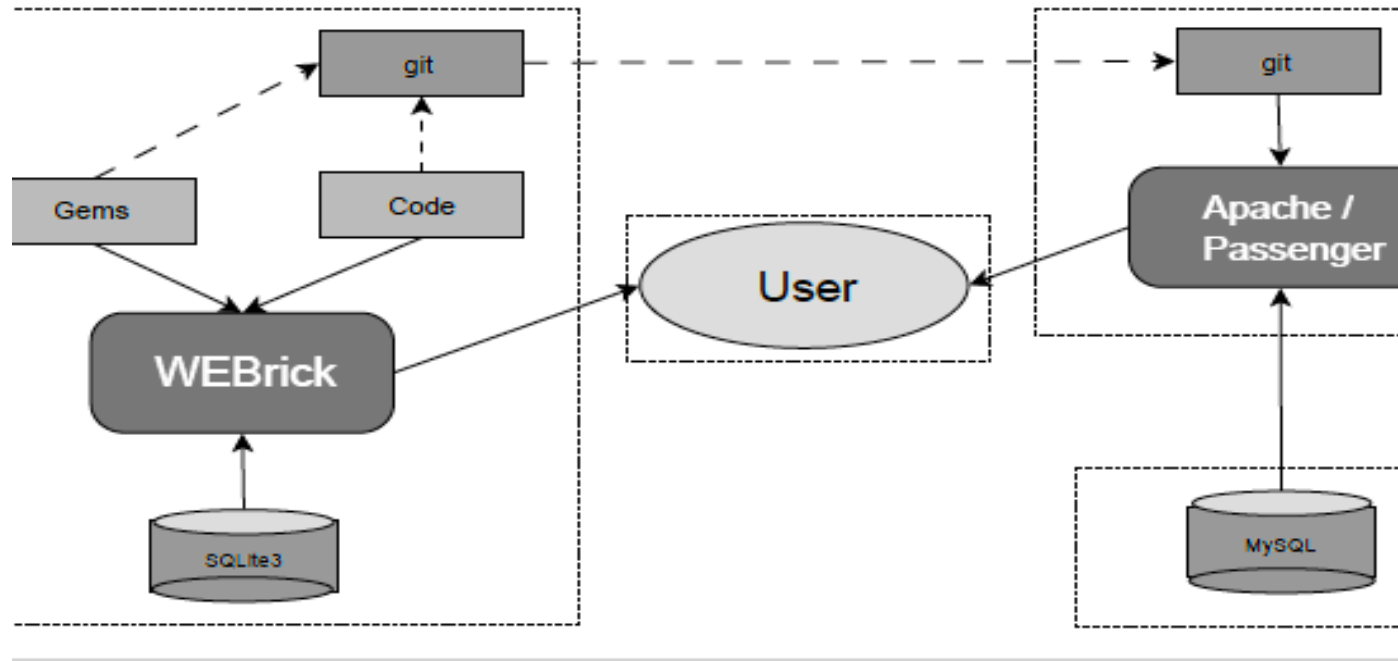
rails architectures

- ▶ production with multi-threaded server



- ▶ Apache loading balancing over different instances of mongrel (phusion passenger is used for this)
- ▶ mongrel running on different ports
- ▶ one DB, stores sessions and all other common information

Copying application from Development to Production



Deploying on the Cloud

- ▶ Heroku is a common Rails deployment platform on the Cloud. - <http://heroku.com/>
- ▶ Quite easy to deploy your app.
 - ▶ Look at the quick start guide - <https://devcenter.heroku.com/articles/getting-started-with-ruby#introduction>
- ▶ Uses Git
- ▶ Lets look at deploying an app.

Deploying using Heroku

- ▶ Using the Heroku tool-belt on Windows/Mac/Ubuntu
- ▶ See caveats:
 - ▶ Heroku uses postgres not sqlite so change your gemfile to include pg (<https://devcenter.heroku.com/articles/getting-started-with-rails4>)
 - ▶ If you continue to use sqlite3 in your dev work, move the sqllite3 to the 'dev' group in your gemfile ([what is the dev group?](#))
 - ▶ After you change you need to run rake db:migrate on deployed app
 - ▶ heroku run rake db:migrate
 - ▶ heroku run rake db:seed
 - ▶ Heroku does not support 'therubyracer' – remove it from your gemfile
 - ▶ If you get denied in the push due to publickey – add your keys to heroku:
 - ▶ heroku keys:add