

WHO AM I?

- Undergrad and graduate degree in Software Engineering
- At Table XI for 8 years
- Developer, Devops, Project Manager,
 Client Principal, Partner
- Never served in the military, but thank you for your service

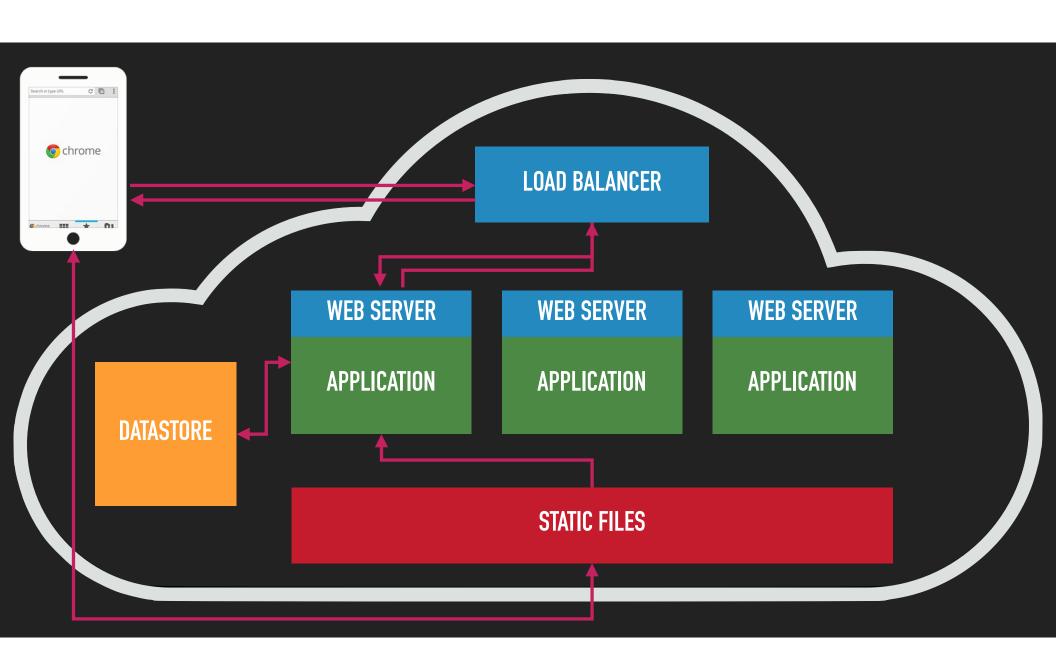


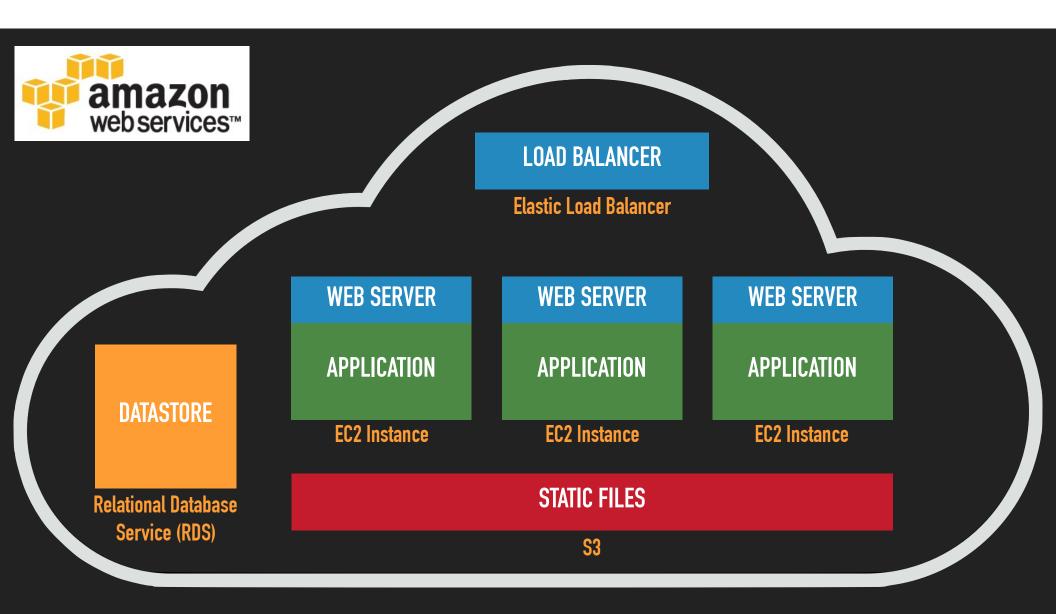
FROM YOUR LAPTOP TO THE CLOUD

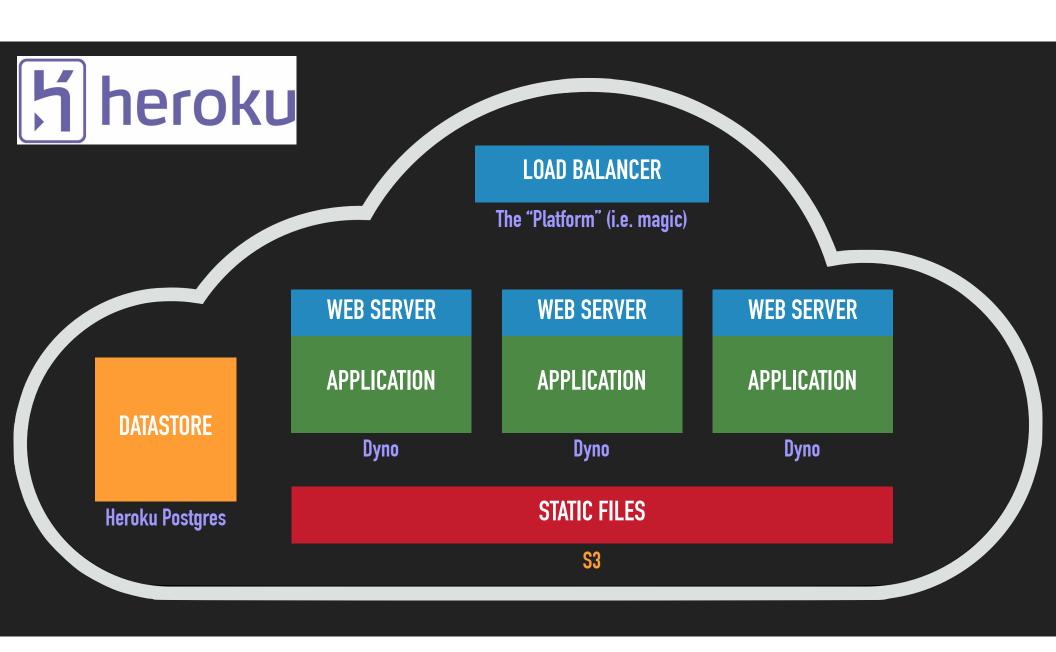
TYPICAL ARCHITECTURE

WEB SERVER APPLICATION DATASTORE STATIC FILES









SETTING UP A HEROKU OR AWS ACCOUNT

- 1. Enter payment information
- 2. Purchase a domain name
- 3. Spin up services
- 4. Manage domain name servers (DNS)











NO!

YOUR APP ISN'T UPLOADED

- Heroku: Use the Heroku toolset
- AWS: Capistrano gem + (Passenger or Unicorn gem)



YOUR APP ISN'T SECURE

- HTTPS keeps things private
- HTTPS is SEO friendly
- Purchase a SSL certificate



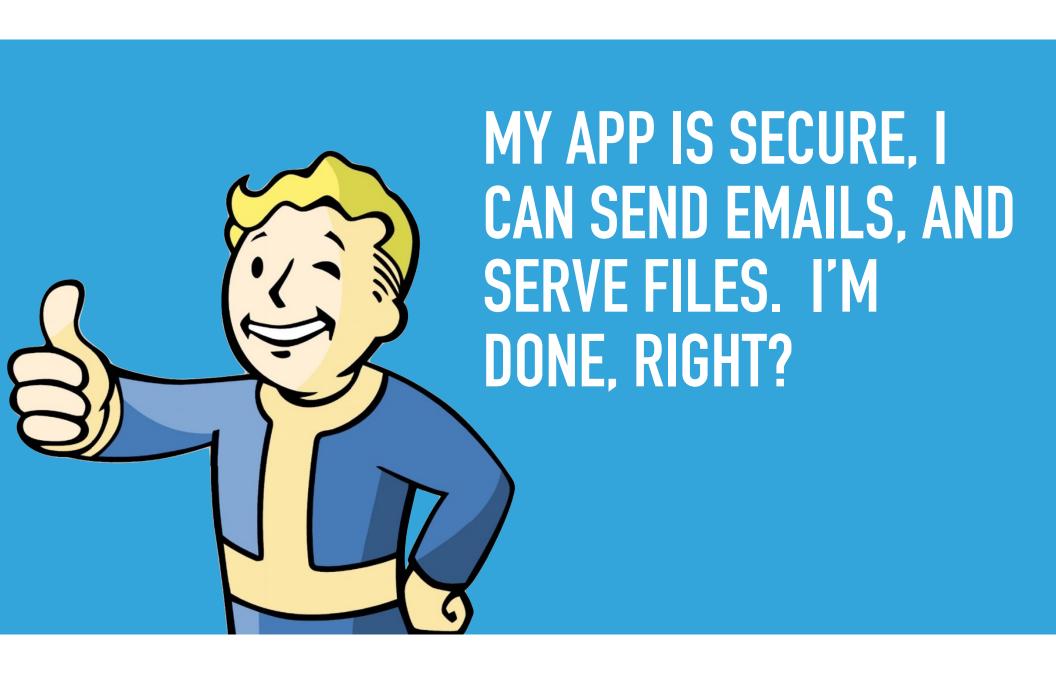


YOUR APP CAN'T SEND EMAIL

- Cloud hosts restrict outbound email
- Even if your host doesn't, your email could still be "suspicious"
- SMTP through email provider: Google Apps, Office 365, Zoho
- Dedicated email sending: Sendgrid, Amazon SES

YOUR APP CAN'T SEND FILES

- Application servers are "disposable"; your uploaded files are not
- Multiple servers require shared storage
- Store files using Paperclip or Carrierwave or Dragonfly gem and Amazon S3





YES, BUT...

YOUR APP STYLESHEETS AND JAVASCRIPT AREN'T LOADING

- The Asset Pipeline converts code you want to write (Coffeescript, SASS) to something a browser can read (CSS, JS)
- Assets are compiled on the fly in dev, but not in production
- It's easy to forget to include assets in precompilation or reference assets incorrectly

YOUR APP ERROR PAGES ARE UGLY

- Unfortunately, your users WILL experience 500 and 404 error, so style them
- Rescue known errors and show helpful error page

YOUR APP BREAKS WHEN OTHER SERVICES ARE DOWN

- Most apps will rely on some third party services: SendGrid, Twilio, TaxCloud,
 Authorize.net); assume these services are unreliable
- Handle service errors gracefully
- Decouple services from user web requests by using background workers:
 Delayed Job, Sidekiq

YOUR APP MAKES GOOGLE SAD

- Make smart use of page titles, headings, canonical tags, and URL's
- Generate a sitemap and verify it with Google Webmaster Tools
- Metatag all the things: Open Graph, Google Rich Snippets

YOUR APP IS A BLACK BOX

- Use Google Analytics to track traffic and events
- Monitor uptime: Pingdom, StatusCake

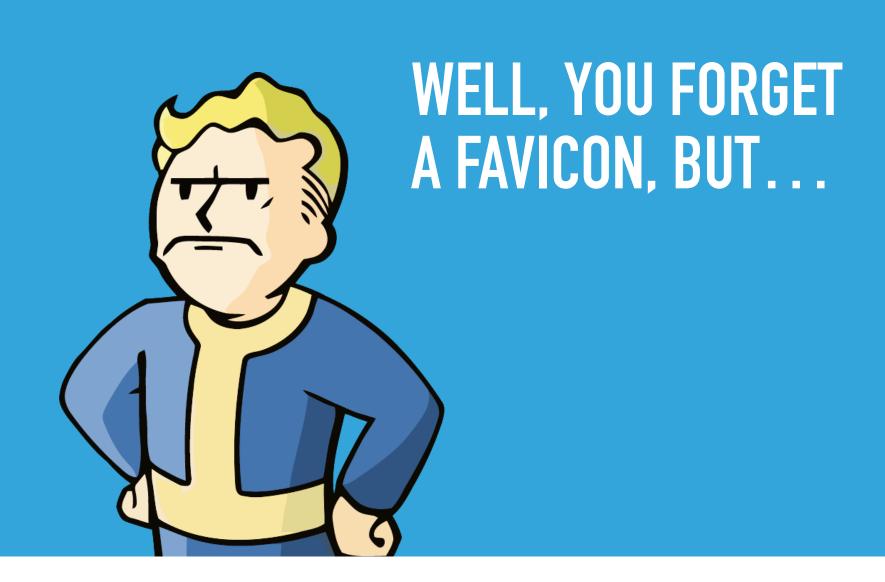
YOUR APP IS SLOW

- Use Google PageSpeed and WebPagetest to find blocking JS and large images
- Add appropriate database indexes
- Avoid N + 1 queries: Bullet gem

- Monitor errors: New Relic, Rollbar, Exception Notifier
- Monitor performance: New Relic, Skylight

- You might need caching, but probably not
- You might need more server horsepower, but probably not







GOOD ENOUGH! KICK BACK AND CELEBRATE!