

Introduction to AWS



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Bio

- > 1 year at Narrative Science, 7 years at Amazon
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Takeaways

- Understand the basics of “Cloud Computing”
- Learn how to launch a web service
- Learn how to make it scalable and available
- AWS Best Practices (at least some of them)

Overview

1. AWS
2. Getting Started
3. My First Instance
4. Databases
5. Automation
6. Availability, Scaling, and Monitoring
7. Wrap up

AWS aka Cloud Computing

On-demand delivery of IT resources
via the Internet with **pay-as-you-go**
pricing

Don't have to buy physical computers

Programmatic access for automating your
infrastructure

Lots of services available to accelerate
development

Flexibility to try things out and change your mind

AWS Services

- Compute
- Storage
- Databases
- Networking
- Analytics
- Application Services
- Deployment & Management



What are we going to use today?



EC2



CloudFormation



RDS



Route53



ELB



Autoscaling



amazon
web services™

EC2



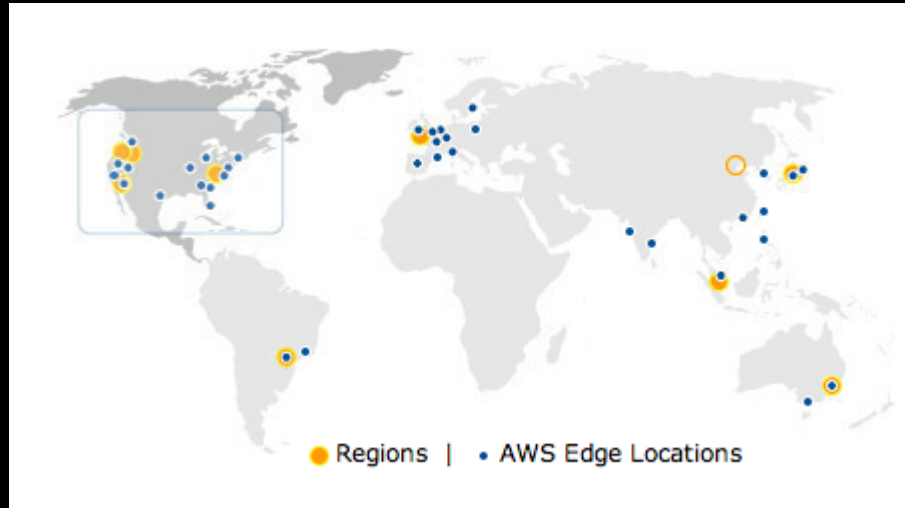
Repo

<https://github.com/mtrahan/fuzzy-octo-computing-machine>



EC2
Instance

Regions





Ruby app on EC2 Instance
running database locally



Ruby app on EC2 Instance
running database locally

RDS





Ruby app on single EC2
Instance



Postgres on RDS



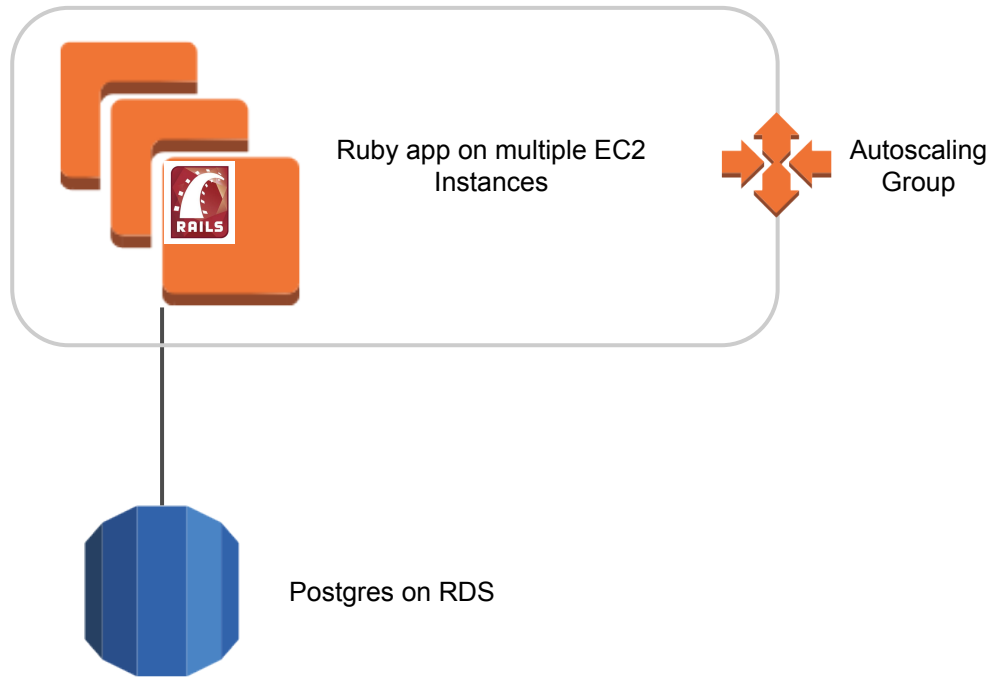
Ruby app on multiple EC2
Instances



Postgres on RDS

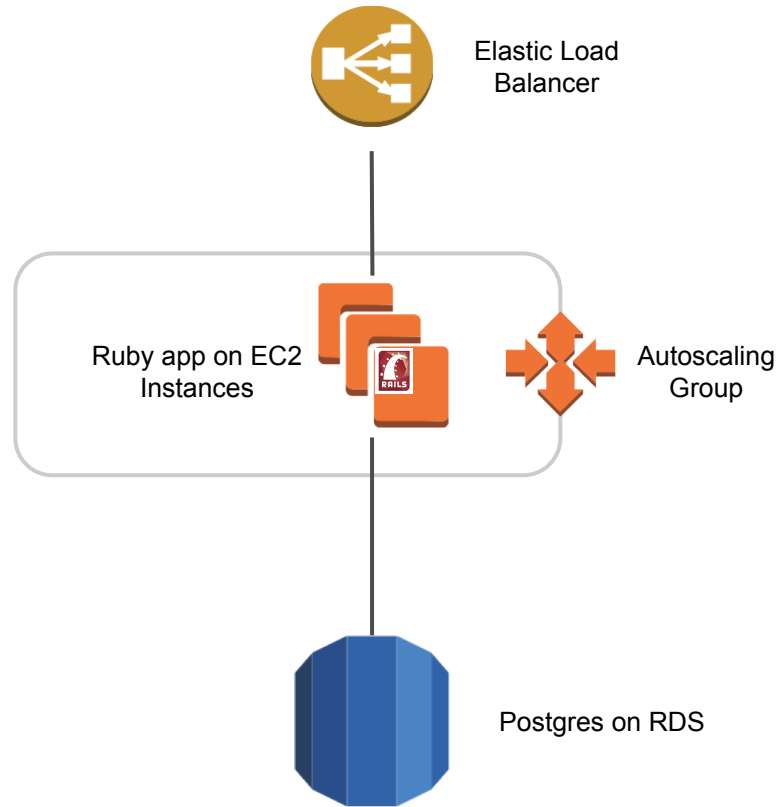
AutoScaling





Elastic Load Balancer



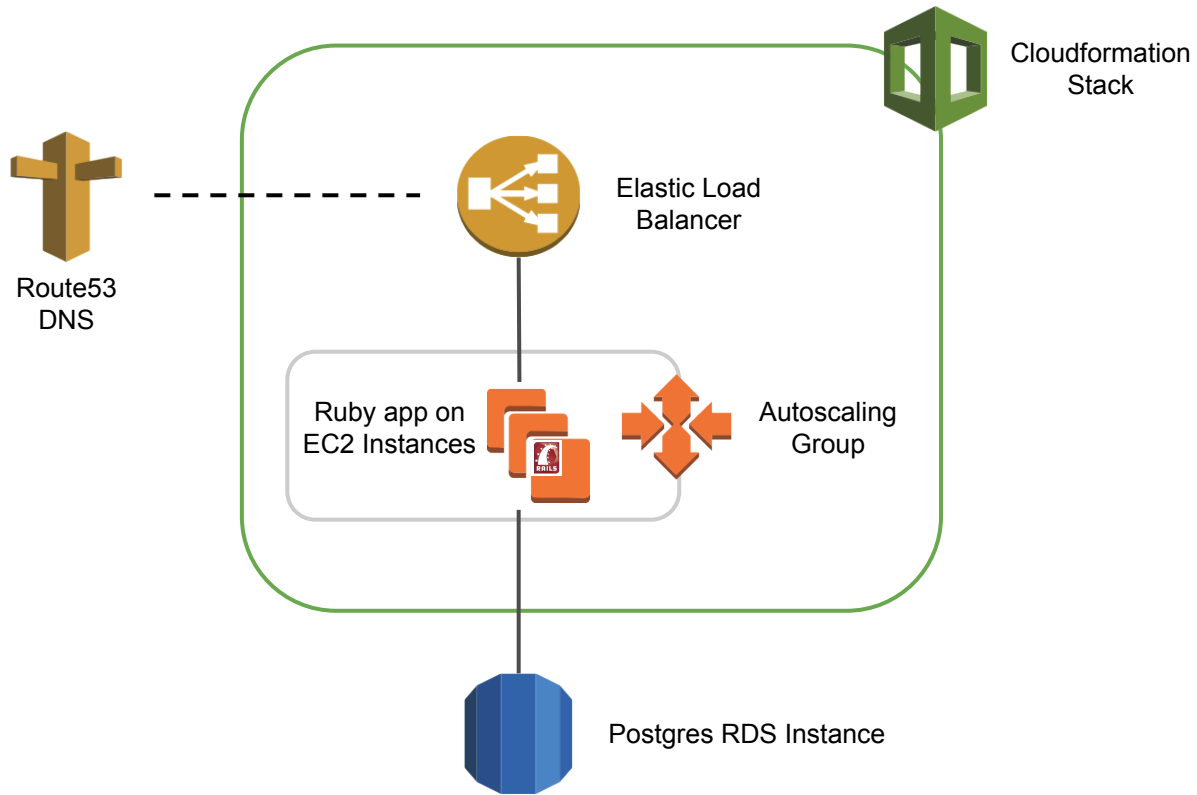


CloudFormation

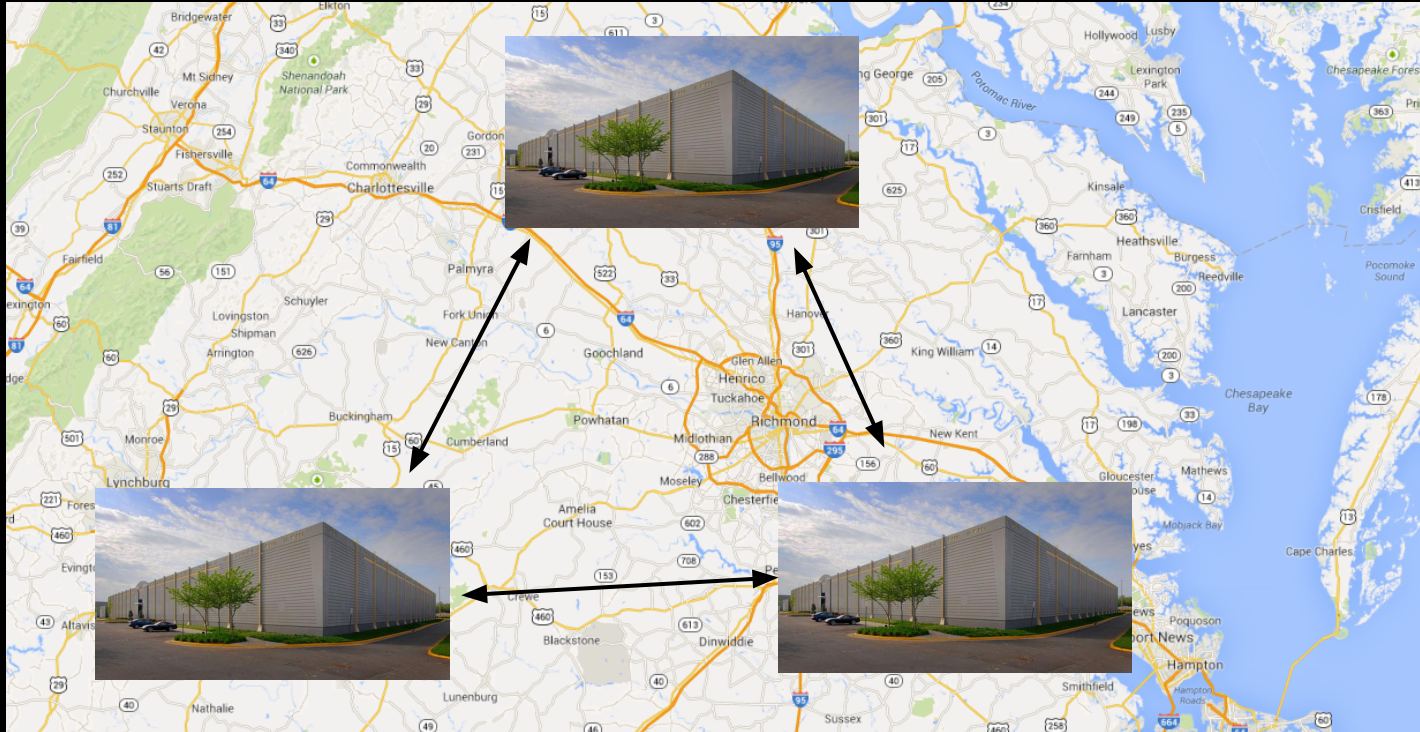


Route53





Availability Zones



* Not accurate

RDS

- Multi-Availability Zone Master/Slave
- Simple Scaling
- Backups
- Automatic maintenance

PaaS

- Beanstalk
- Heroku

Thanks!

