HOW I STOPPED WORRYING AND LEARNED TO LOVE THE CLOUD

DEPLOYING FLASK ON ELASTIC BEANSTALK

Richmond Code Camp 2012
6 October 2012
Adam Crosby
adam@uptill3.com

FLASK QUICK OVERVIEW

http://flask.pocoo.org

Developed by Armin Ronacher (@mitsuhiko)

Very light weight, easy to use web framework

Runs on WSGI, Fast-CGI, built-in dev server

Jinja2 templates

Based on Werkzeug

A COMPLETE, FUNCTIONAL FLASK WEB APP

```python
from flask import Flask
app = Flask(__name__)


@app.route("/")
def hello():
    return "Hello World!"


if __name__ == "__main__":
    app.run()
```

BROKEN DOWN

```
1  from flask import Flask
2  app = Flask(__name__)
3
4  @app.route("/")
5  def hello():
6      return "Hello World!"
7
8  if __name__ == "__main__":
9      app.run()
```

Create Flask context object (and give it a name)

Define a URL mapping decorator

Run the app (either dev server or WSGI callback)

IT REALLY IS THAT EASY

DEMO TIME!

GIT, VIRTUALENV, PIP AND FLASK

AWS ELASTIC BEANSTALK

ELASTIC BEANSTALK QUICK OVERVIEW

http://aws.amazon.com/elasticbeanstalk/

Easy to use API wrapper around AWS EC2, S3, EBS, and RDS services
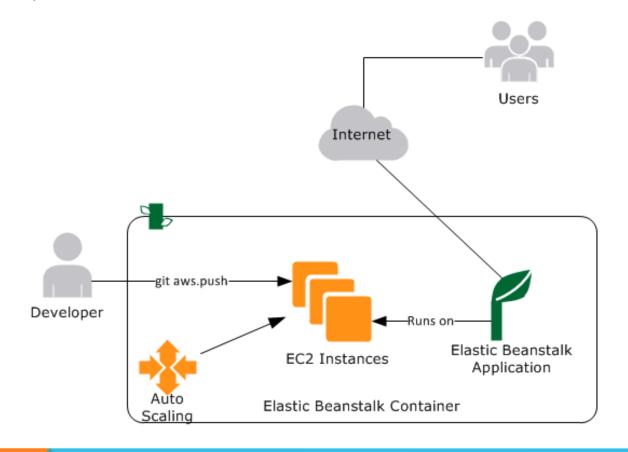
Extremely rapid deployment of applications

'git push' gets you an entire cloud-based environment with load balancers, auto-
    scaling, managed datastores, etc.

Supports Java (Tomcat), PHP & Python (Apache WSGI), and .NET (IIS 7.5)

Integration with Eclipse and Visual Studio – single click deployment from the IDE

Pay per-hour / usage based billing (free tier available for first year of new accounts)

PYTHON / GIT DEPLOYMENT FOR AWS ELASTIC BEANSTALK

DEMO TIME!

EB, GIT, FLASK, AWS CONSOLE

URLS / REFERNECES

Learn More Here!

https://github.com/adamcrosby/elastic-flask-baseline