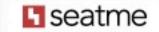




- 1. WHO IS SEATME
- 2. WHAT WE USE
- 3. HOW IT GETS DEPLOYED



SEATME





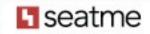
SEATME

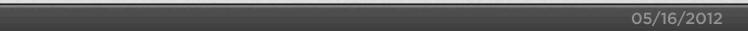
THE GOAL: IMPROVE RESTAURANT RESERVATIONS

- Help restaurants harness demand
- Easy to use for restaurants and guests
- The latest technology
 - •iPad app and website for managing the books
 - Restaurant profile site where you can make a reservation

FOUNDED 15 MONTHS AGO

- •15 people
- •6 1/2 engineers
- •3 web devs





WE'RE LIVE

LAUNCHED 3 MONTHS AGO

- •12 active restaurants/bars
- More on the way





WHAT WE USE

PIP FREEZE



6



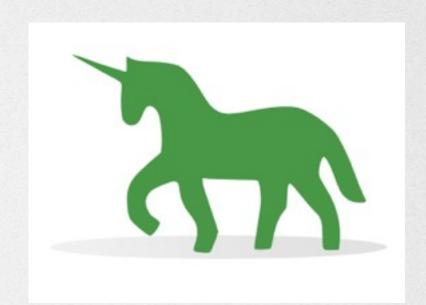
SEATME.COM

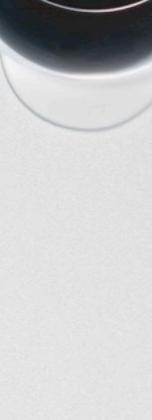
LAPP STACK

- Linux (Ubuntu LTS)
- Apache
 - -Gunicorn
 - -HAProxy
- PostgreSQL
- •Python 2.7
 - -Django 1.3 (1.4 Soon)

MORE

- Redis for caching
- Celery for background tasks







MORE BACKEND

BUILDOUT

- Bootstrap
- Version lock everything
 - -"pip outdated" for buildout?
- Vendor fork when necessary
 - -own your packages
 - -everything on github

MAIN LIBRARIES

- South for database migrations
- Piston for REST API
- Fabric for simple server commands
- •Glue for css sprites





DJANGO APPS

SHOULD BE DEFAULT

- •django-debug-toolbar
- django-extensions

USEFUL APPS

- django-storages + boto for S3 storage
- •sorl-thumbnail for thumbnails
- django-guardian for per object permissions
- django-compressor + pyScss for LESS
- django-lazysignup for easier user API
- django-longer-username for the obvious





FRONTEND

THE USUAL

- •jQuery + jQuery UI
- Backbone.js
 - -OO Javascript
 - -Easy integration with Django templates





PROCESS

CONTINUOUS INTEGRATION

- Jenkins
- •Linting
- Code coverage

SCRUM

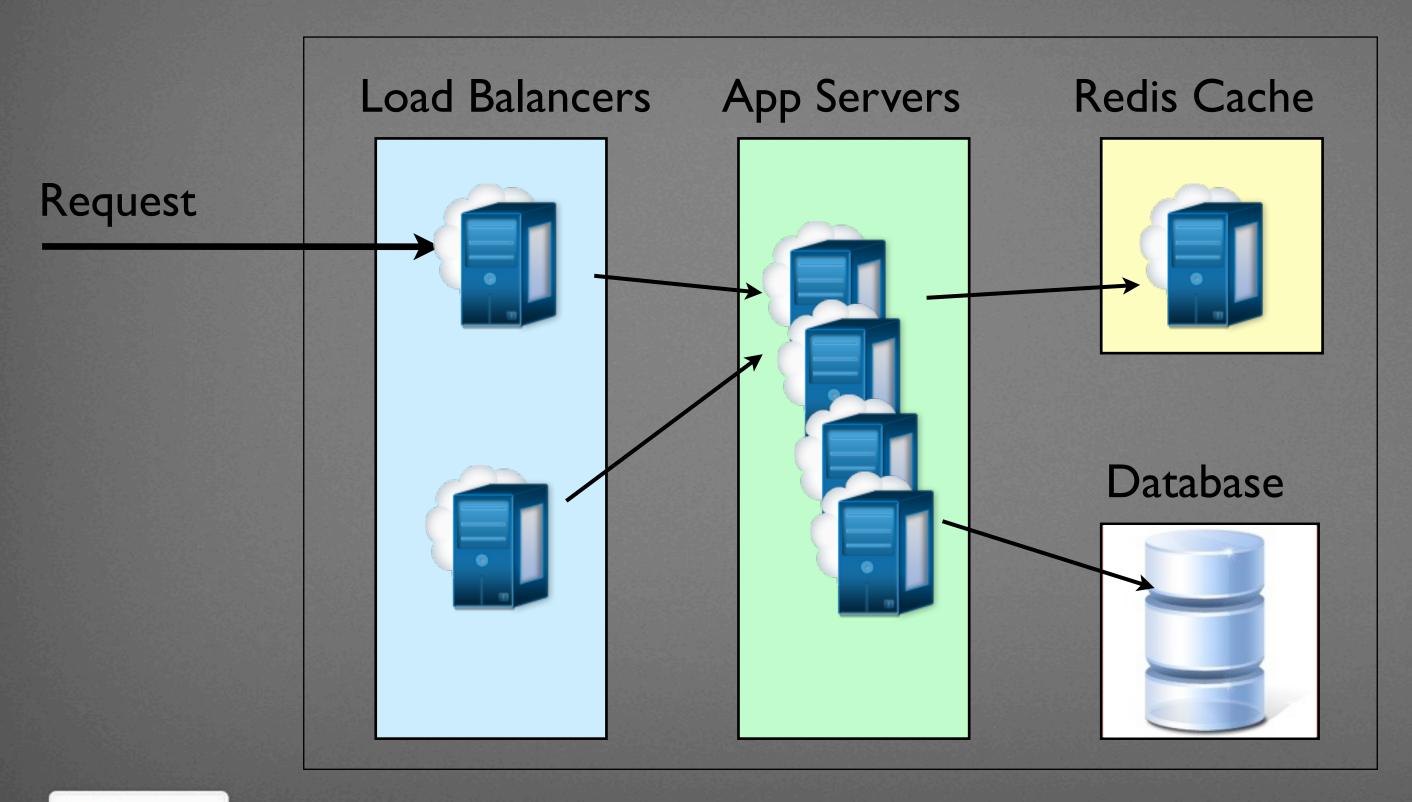
- •2 week sprint
- •Deployable code at the end of the sprint



HOW WE DEPLOY

NOT VIA STORK

DIAGRAMS





WEBSCALE

VIA RIGHTSCALE

- AWS or Rackspace interface
- •Managed Chef basically?
- •Built-in monitoring, alerting, audit logs
 - -Munin graphs for everything
 - -Alerts for everything + escalation chains
- Recommended server templates
 - -PostgreSQL master+slave auto failover + backup scripts
- SSH key management
- Credential stores



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THE GOOD STUFF

./BIN/DEPLOY

- •Ruby script!
- Create unique git tag && git push

ON EACH SERVER

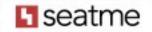
- Disconnect from LB
- Create new symlinked folder from deploy timestamp
- •Git clone latest deploy tag
- Bootstrap + buildout
- collectstatic + migrate
- •Restart gunicorn + reconnect to LB



```
* a9d7b38 (deploy_20120515_00) (12 hours ago) [Matt Behrens]
* 78651dd (12 hours ago) [Matt Behrens] Text format

* 6ff2b89 (13 hours ago) [Trey Doig] Need to show reservation
* acf663c (14 hours ago) [Trey Doig] Fix for the bugs in smca
* af8f17f (30 hours ago) [Matt Behrens] better way to delete
* 94e4806 (30 hours ago) [Matt Behrens] Enable this!

* 4388a75 (deploy_20120514_03) (32 hours ago) [Trey Doig] Yik
* c94f2af (32 hours ago) [Trey Doig] Adding tests for the uti
* 865b118 (deploy_20120514_02) (32 hours ago) [Matt Behrens]
* 674a683 (deploy_20120514_01) (32 hours ago) [Matt Behrens]
* e2a6efb (32 hours ago) [Matt Behrens] post editing reservat
* 1719ec3 (deploy_20120514_00) (33 hours ago) [Matt Behrens]
* e7b71e3 (33 hours ago) [Matt Behrens] make mark bright's de
* 31d4f2e (2 days ago) [Matt Behrens] add line breaks to the
* bb3e937 (2 days ago) [Trey Doig] Removing the feature switch
```



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MASTER IS ALWAYS STABLE

- •Use feature branches for unstable code
- •Be careful about merging sprites + migrations

FEATURE FLAGS

- •If features broken, turn them off automatically/without deploy
- •Minor usage right now, looking to expand

DEPLOY EARLY

So you have the rest of the day to catch errors





HOOKED UP TO THE RS API

Also for Linode



WHAT TO IMPROVE?



IMPROVEMENTS

LOCAL PYPI MIRRORING

Looking at basketweaver or ClueReleaseManager

COLLECTSTATIC

Need to use CDN

PIECEMEAL DEPLOYS

Different deploys for different servers

TAR CODE DEPLOYMENT

- Don't need git history on the server
- •4x speed increase from full git clone



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QUESTIONS?

MATT BEHRENS @ASKEDRELIC

THANKS:
OPEN SOURCE COMMUNITY
DISQUS, INSTAGRAM, GITHUB

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