

Tilling the Brownfield

A container story



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Agenda

- A bit of context
- The 3 year road to containers
- Looking forward
- Lessons learned
- Questions

A bit of context



- IAC Publishing Labs (IACPL) is part of IAC, the Internet and media portfolio company behind brands like About.com, Vimeo and HomeAdvisor
- IACPL operates sites like Ask.com, we also drive growth for IAC's premium publishing brands
- Fairly significant global hardware footprint
- Lived through the physical to VM transition

The road to containers

2014 - Testing the water

- Developer interest in PaaS concept
- Evaluation of OpenShift Origin
- Impasse between ops/dev
- Left to rot in place

2015 - Docker in the game

- Rekindled interest from dev
- Docker buzz is everywhere
- Battle of the container orchestration platforms

2016 - Full steam ahead

- Frontend prototype sites running in Docker
- Kubernetes now being used in CI pipelines
- Majority of IACPL dev teams on platform to some degree
- “Docker-on-VM” ramp goes to production
- Suddenly OpenShift

Right now



- Running portions of our customer facing applications on Docker.
- OpenShift build-out on going.

Looking Forward

Containerize all the things!

- Not all the things...
- On the path to a significant portion of our frontend applications running in containers.
- Some percentage on OpenShift

Lessons learned

Business Driver

- Can't get buy in until there is prioritization
- Difficult to find clear driver across multiple teams.

Learning Curve

- Huge leaps from status quo
- Need for focus
- Careful communication

Keep it simple...

- May not be as simple as it sounds
- Some efforts to remove as much complexity as possible
 - Moving away from CoreOS
 - Migrate from physical to our private cloud
- Sometimes the complexity is unavoidable

It's new... (bugs)

- Buggy hardware
- Blocking issues with docker 1.7 and 1.8
 - Image pulling
 - Network access
- Device mapper bugs
- LRO's revenge (Remember to read the manual)

Questions?