



Introduction to Pivotal Cloud Foundry

Cloud Foundry

1. **Overview of Cloud Computing**
2. What is Cloud Foundry?
3. Open Source and the Cloud Foundry Foundation
4. Case Studies

What is “the cloud”?



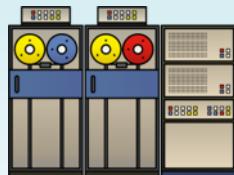
“The cloud is not about **where** computing is done,
it’s about **how** computing is done.”

Paul Maritz
Executive Chairman, Pivotal

The shift to the 3rd generation platform

1st

Mainframe



2nd

Client-Server
& Web

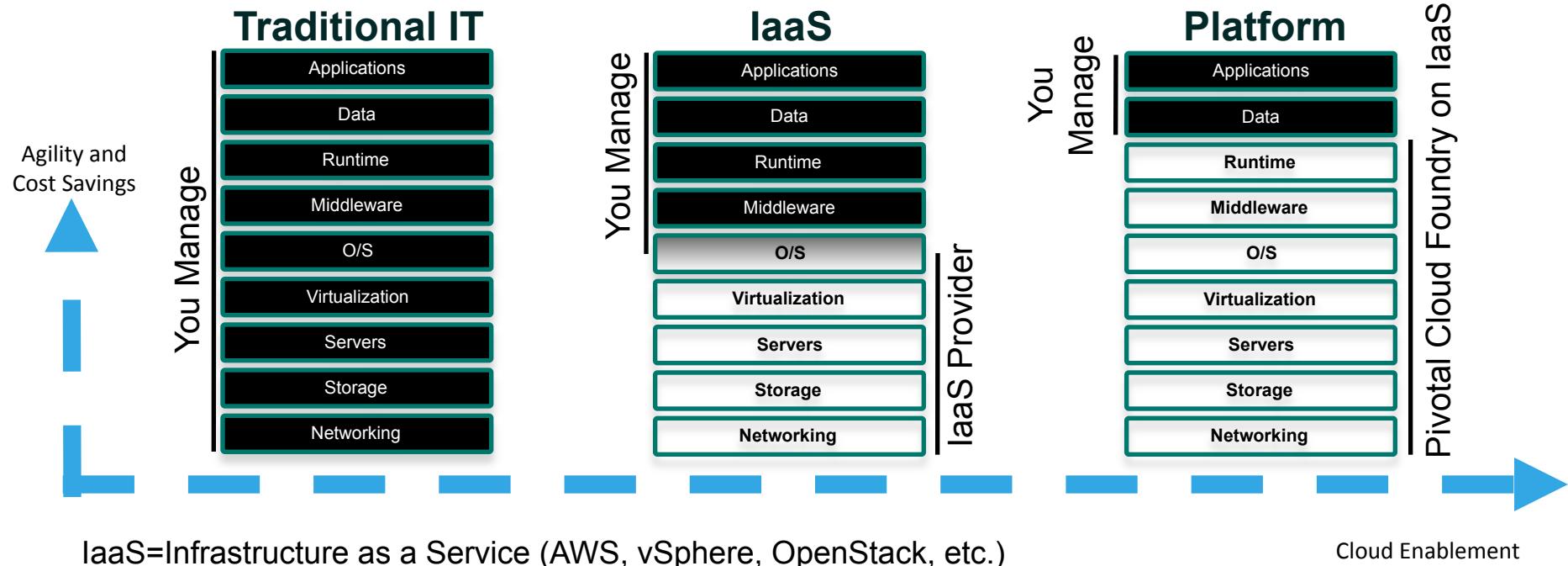


3rd

Cloud



The Power of a Platform



Software is Changing Industries



Square

Financial Services



Transportation



Entertainment



Travel & Hospitality



Home Automation

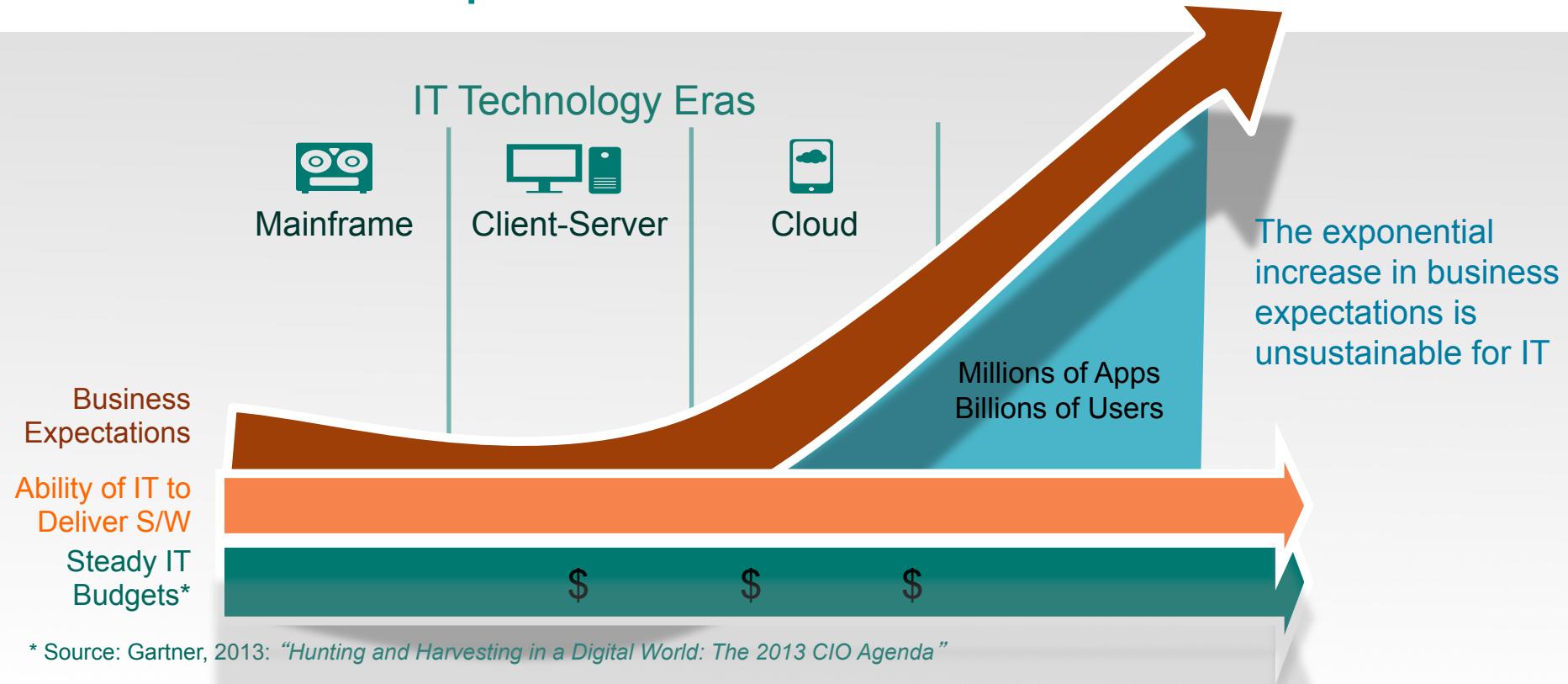


Monsanto--Agriculture

Pivotal

Business Expectations Exceed IT Capabilities

The Unsustainable Path for Traditional IT



* Source: Gartner, 2013: "Hunting and Harvesting in a Digital World: The 2013 CIO Agenda"

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What is Cloud Foundry?



Cloud Foundry is a platform for developing and running cloud applications

Cloud Foundry is a bit ironic...

- It is opinionated
 - It allows you to organize, simplify and lock down your IT infrastructure
- Yet, it is open and flexible
 - It works on multiple infrastructures
 - Amazon Web Services, vSphere, OpenStack...
 - It works in conjunction with your existing applications, tools and services
 - It works with many languages and frameworks



....and more

CEO Perspective- Focus on the Business Domain

What is Cloud Foundry from a CEO's perspective?

- Google, Facebook, Twitter, Netflix, etc. have thousands of engineers working on their unique, consumer-grade platforms
- Cloud Foundry encapsulates industry best practices in a platform, allowing enterprises to focus on their business domain
- Specifically, Pivotal is a partner who focuses on the platform



CEO Perspective- Transformational

- Cloud Foundry is transformational in two ways:
 - Business: it facilitates the change to agile, cloud-native software development processes
 - Technology: enables a simplified, efficient, scalable infrastructure



butterfly from <http://catherine-reyes.com>

Operations Team Perspective

- Enables operations team to provide the enterprise with a self-service platform
- A platform that enables the complete automation of the software development pipeline



Developer Perspective

- A platform that allows you to automatically provision resources
- Enables continuous integration/continuous delivery
- Allows you to focus on writing cloud native applications



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Cloud Foundry Foundation- The Open Platform

The Cloud Foundry Foundation



Platinum members



Gold members

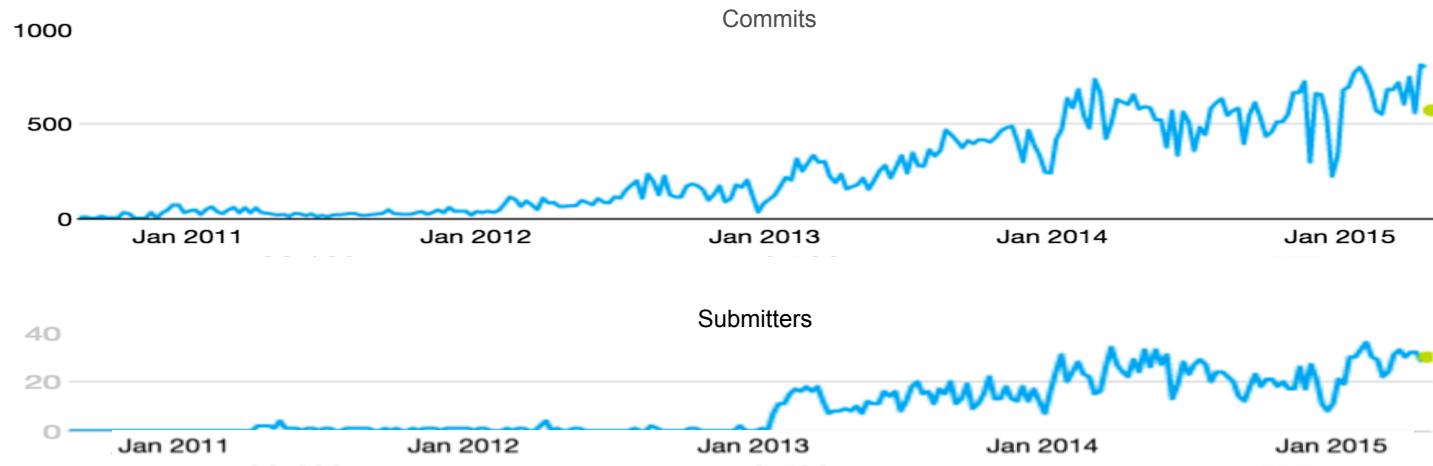


Silver members

The largest open source platform ecosystem

Pivotal

Cloud Foundry Open Source Momentum



53 corporations are contributing members

139 meetups in 48 countries

~2200 developers, ~650 code submitters

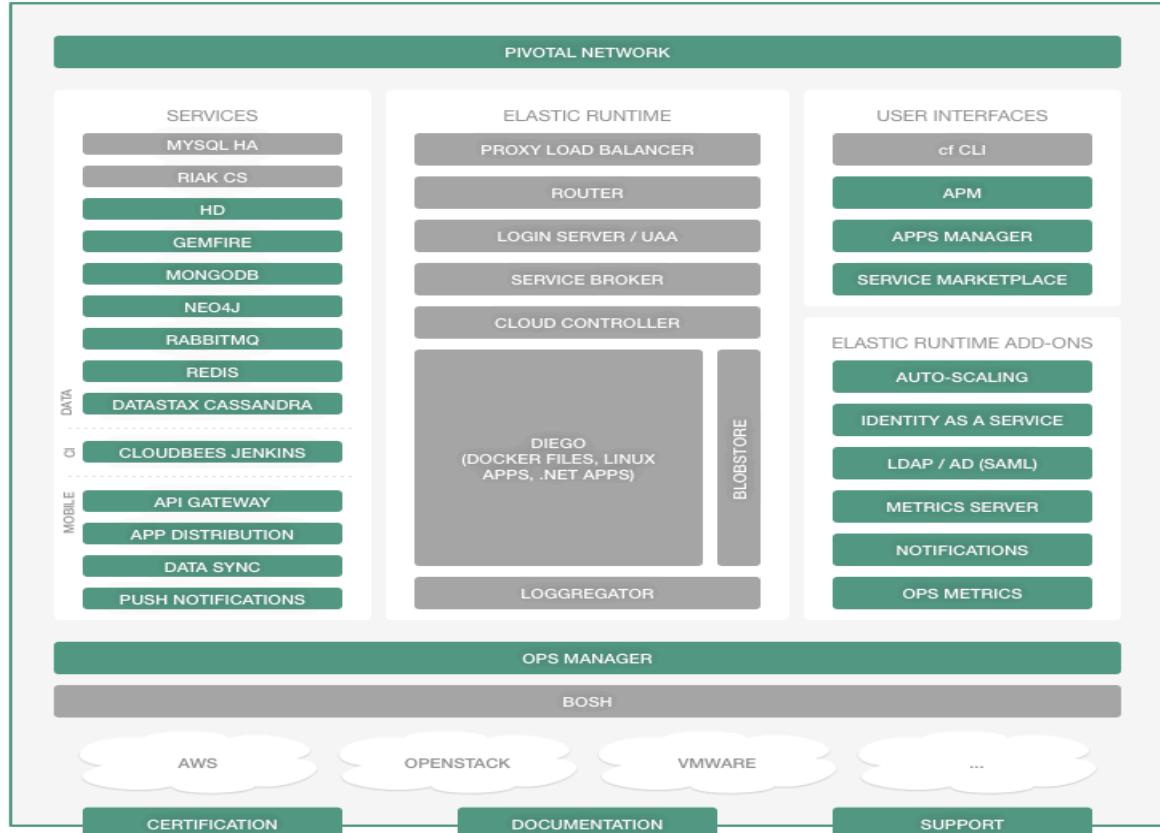
65K commits

Pivotal Cloud Foundry Commercialization Model

Open source software provides the basis for the platform

Commercial distribution provides value add features, enterprise services, support, docs, certs, etc.

- open source
- commercial



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新闻 网页 贴吧 知道 音乐 图片 视频 地图

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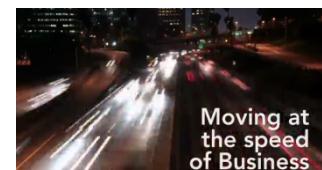
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1 billion page views a day
ads powered by Cloud Foundry!



Fail, Learn, Adapt, Repeat
6 Months to 6 Weeks
\$1.1M Saving per App

<https://www.youtube.com/watch?v=Llg7TO0CaKA>



Pivotal

Allstate- Developing the Freedom to Disrupt

The Transformation Journey

- Waterfall
- "Enterprise" tools
- Governance for Everything
- Monolithic Applications
- Manual Deployments
- Agile + Extreme Programming
- Open Source tools developers want to use
- Empower the innovators
- Microservices
- Continuous Delivery

Developing the Freedom to Disrupt

infrastructure Services Driving IT

15

MAY 11-12, 2015 | SANTA CLARA, CA

CLOUD FOUNDRY SUMMIT

**"Start your project on Monday and ship it on Friday.
No longer is it going to take 9 months." —Andy Zitney, Allstate**

<https://www.youtube.com/watch?v=04QFKBt6LCI>

Garmin- Why Adopt PCF?

The image consists of two side-by-side panels. The left panel is a screenshot of a presentation slide titled "Summary". It features the Garmin logo at the top left, followed by the Cloud Foundry logo (a blue cloud icon with the text "CLOUD FOUNDRY" below it). Below these logos is a bulleted list of challenges: Infrastructure Build-out Workload, Suboptimal Infrastructure Utilization, Roadblocks to Developer Productivity, Labor-intensive Monitoring & Security, Hard-to-reach Uptime Goals, Response Time to Business Needs, and Improve Project Costs. The right panel shows a video frame of a man with glasses and a dark shirt speaking on stage. At the bottom of the video frame is the Cloud Foundry Summit logo, which includes the text "MAY 11-12, 2015 | SANTA CLARA, CA" and "CLOUD FOUNDRY SUMMIT" inside a gear-shaped border.

https://www.youtube.com/watch?v=7vd4_lVr2sg

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