New Technologies – Docker, CloudFoundry and NodeJS

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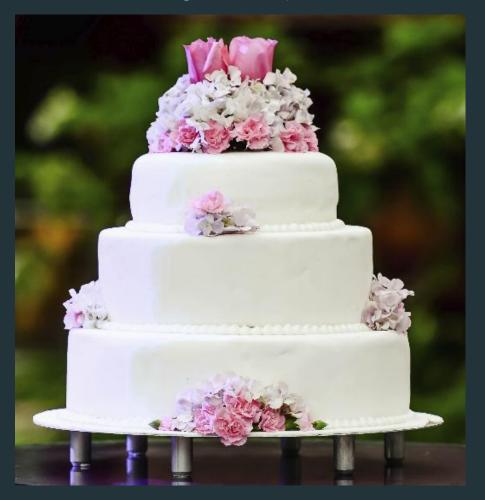
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Applications are Architected Differently

Monolithic

(Tightly-coupled dependent, waterfall, change intolerant)



Microservices

(Agile, loosely-coupled, independent, continuous delivery)



Why Microservices?







Portable

Flexible

Speed

BRING APPS & DIFFERENTIATION TO MARKET QUICKLY

Enabling Technologies & Enterprise Adoption







- All-Time Leader in Enterprise Buying Intention ¹
- 94% are either using or investigating the technology 2
- 65% expect to deploy containers in production in the next 12 months ²

- JavaScript top spot for programming languages - RedMonk 3
- "the biggest shift in enterprise development in more than a decade"- Forrester Research 4
- Used by Uber, Netflix, Walmart, LinkedIn, PayPal, New York Times, Groupon.. more
- Used in two of the top three US insurance companies, two of the top three North American telecommunications companies and seven Fortune 500 industrial companies ⁵
- to be installed "in 20%-35% of the Fortune 500" 6

....just a few, many more



https://d3oypxn00j2a10.cloudfront.net/assets/img/ETR%20Net%20Score/ETRNetScore.pdf

² http://www.enterprisetech.com/2015/06/17/barriers-to-container-adoption-persist-survey-finds

³ http://redmonk.com/sogrady/2015/07/01/language-rankings-6-15/

http://www.infoworld.com/article/2907190/javascript/javascript-will-lead-a-massive-shift-in-enterprise-development.htm

⁵ https://pivotal.io/platform/press-release/pivotal-cloud-foundry-record-breaking-fastest-first-year-sales-growth-for-an-open-source-product



Elegance @Scale

Smart Instrumentation
Collect what you need when you need it

Scale MonitoringMonitor @scale and clustering

Ease AdministrationGet control with CA APM ACC

 Simply Visualize Large Complex Data
CA APM Team Center Perspectives role-base task views based on pivotable attributes

Support for Modern Development Technologies







Monitor apps deployed to Docker containers with java agent

Real time monitoring of Application and Node.js health/performance

Easily monitor apps deployed using CF java build pack

Collects basic container health metrics (Field Pack) Automatic collection of deep dive diagnostic details

Collects basic health metrics from Pivotal CF (Field Pack)

Visualize app performance and Docker health in one view

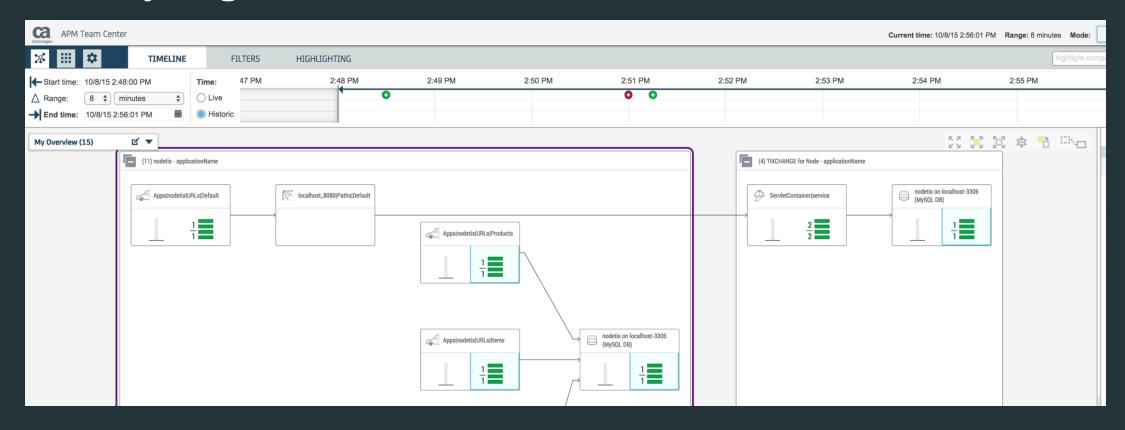
Easily install and deploy agents without having to modify the Node.js app source code

Visibility into application performance and CF Pivotal health

New Node.js agent



Node.js Agent



Monitors apps written in node.js

Correlates performance to application tiers

Automatically collects deep dive diagnostic snapshots

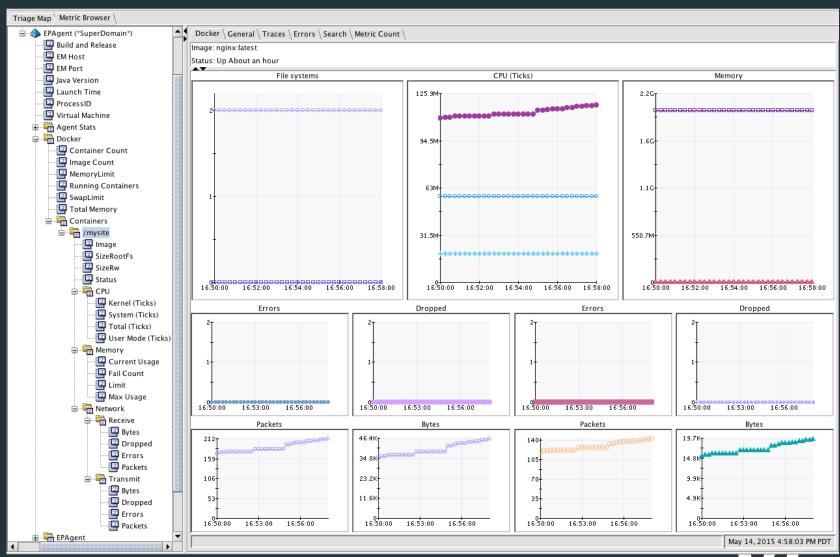
Does not require any modifications to the Node.js app source code



Docker Containers

Monitors the performance of apps deployed in Docker Containers (agent)

Collects health metrics of Docker Containers (field pack)



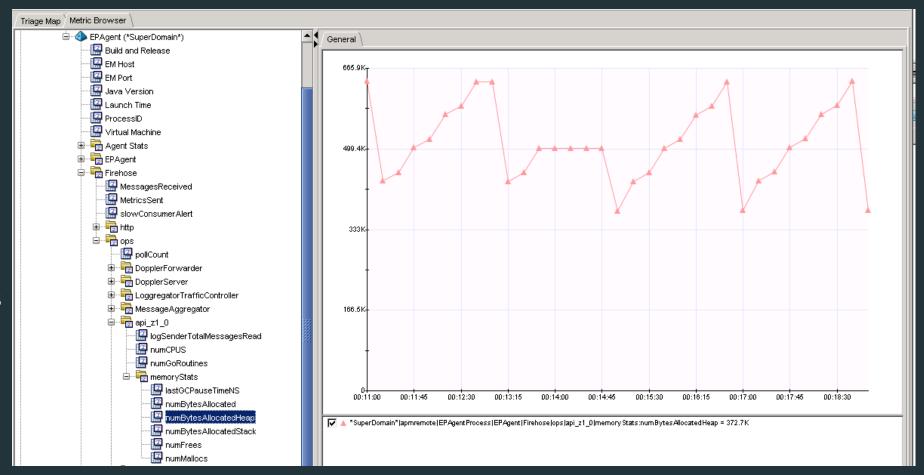


Cloud Foundry

Monitors apps deployed to CF (agent 9.7/later)

Easily deploy agent using CF BuildPack

Collects basic perf metrics from Pivotal CF (Field Pack)





EASY

PROACTIVE

INTELLIGENT

COLLABORATIVE

Driving Toward

E.P.I.C. APM

The Key to Stimulate User Loyalty and Differentiate Your Business in the App Economy

