



Cloud Foundry

The platform for building great software

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Agenda

- PaaS Definition
- The old way to develop software
- The new way to develop software
- Why do developers love Pivotal CF?
- Why do operators love Pivotal CF?
- Demo
- Q&A

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Know your aaS from your elbow!

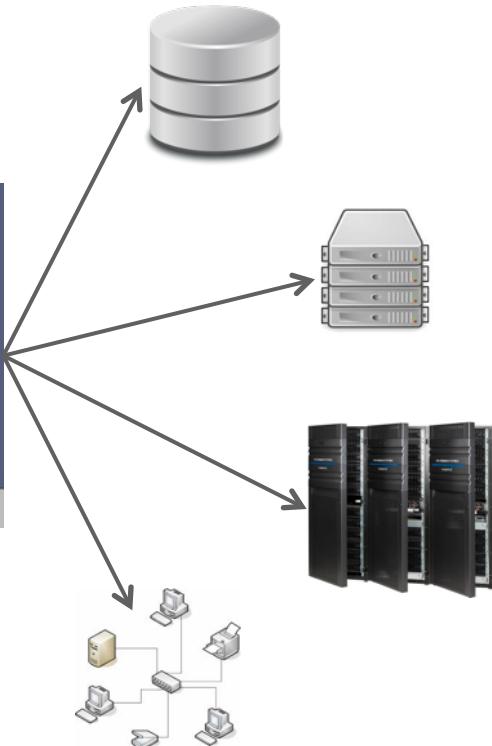


PaaS definition:

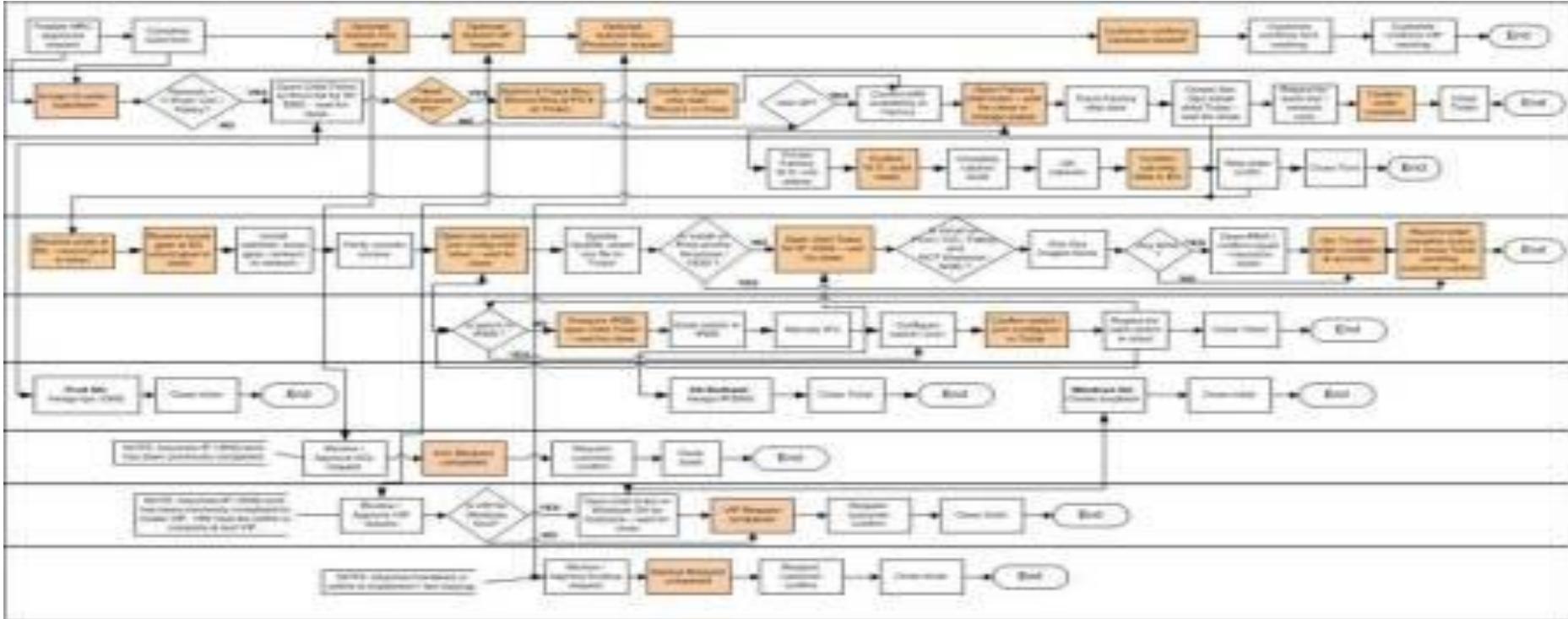
Platform as a service (PaaS) is the delivery of a computing platform and solution stack as a service. PaaS offerings facilitate deployment of applications without the cost and complexity of buying and managing the underlying hardware and software and provisioning hosting capabilities



The *old* way



Is Your Enterprise Ready?

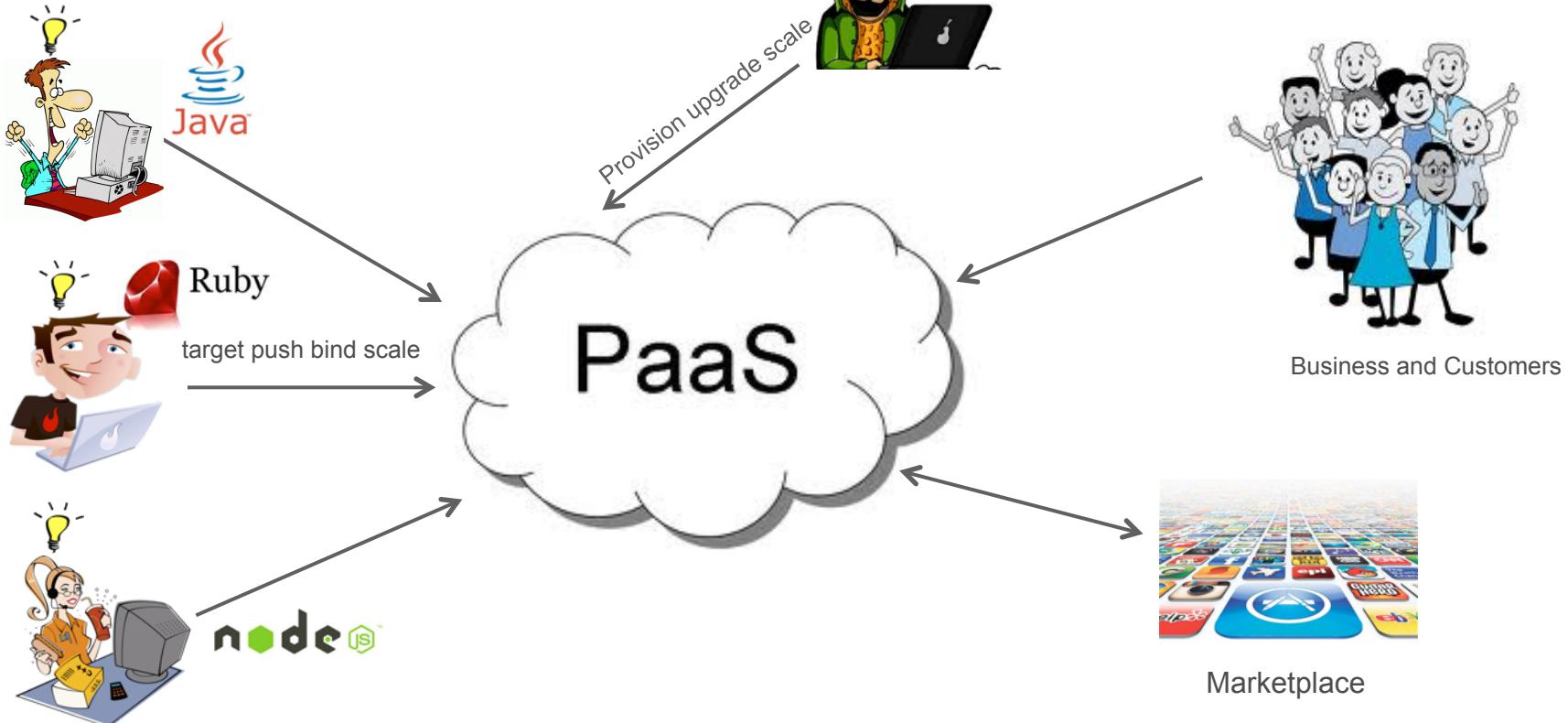




Issues with the old way

- How do you size this environment correctly?
- How do you scale and add capacity when required? Start the whole process again?
- How do you synchronize updates to the code, database, middleware and network simultaneously?
- How do you do continuous delivery?
- Slow GTM 6-12 months
- Brittle software with hard coded dependencies.
- Hard to move code/config from DEV->UAT->PROD

The *new* way





Build for Agile Teams

provision <my cloud>

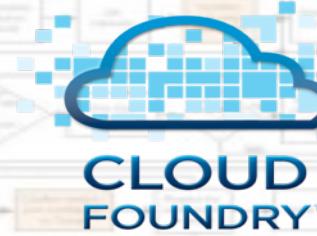
target <my cloud>

push <my app>

bind <my services>

scale <my app> +100

upgrade/scale <my cloud>





Benefits of the new way

- Developers don't have to worry about the “plumbing”
- Less dependencies in the code so applications can be moved between DEV, UAT and PROD much easier OR to other clouds
- Frequent updates means business and customers happier
- PaaS is easier to manage from an operations perspective (single distributed system rather than a collection of separate components)
- Feedback loop is quicker, code, deploy, test, fix, deploy etc..
- Easy to scale horizontally both from an application and data point of view
- Continuous Delivery is a reality
- Allows tighter governance and policy



*The industry's open
platform as a service*



**Deploy and scale applications in
seconds on your choice of clouds**

Productivity, Scalability, Extensibility, Openness

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The Industry Leading Open Source PaaS



ospero.

canopy

COMIC
RELIEF

MONSANTO

bluebox®



IBM



CloudCredo

SAP



Rakuten

at&t

anynines

Northern Trust

CISCO™



WARNER MUSIC



swisscom

SAVVIS™

Silver Spring
NETWORKS

vmware

Piston
PISTON [CLOUD] COMPUTING™

NTT Communications

Pivotal

Broad Technology Ecosystem



Instances &
Multi-Cloud
Providers



Polyglot
Frameworks
and
Services



Add-On
Marketplace
And
Partnerships

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Why developers love Cloud Foundry?

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CLOUD FOUNDRY

FOUNDRY

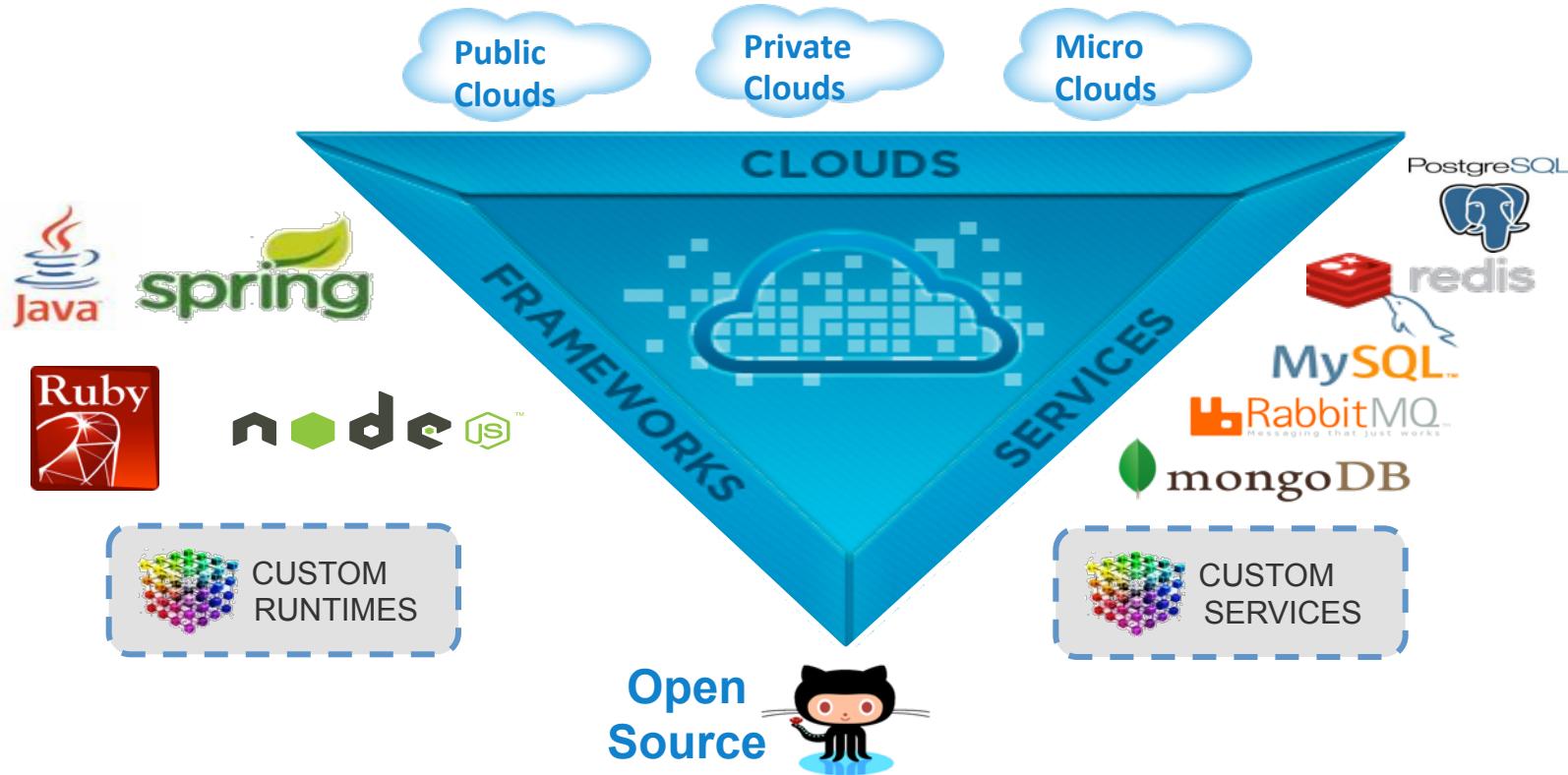
Open



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What does “Open” PaaS mean? Choice!



Why DevOps love Cloud Foundry?

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Product Dashboard

Pivotal Elastic Runtime

Settings

Status

Credentials

Logs

Upgrade

✓ HAProxy
✓ Cloud Controller
✓ Router
✓ SAML Login
✓ Web Console
✓ Resource sizes

100%

JOB	INSTANCES	CPU	RAM (MB)	EPHEMERAL DISK (MB)	PERSISTENT DISK (MB)
HAProxy	1	1	1024	2048	0
NATS	1	1	1024	2048	0
Health Manager	1	1	1024	2048	0
NFS Server	1	1	1024	2048	62400
Cloud Controller Database	1	1	1024	2048	2048
Cloud Controller	1	1	2024	10240	0
Router	1	1	1024	2048	0
Syslog	1	1	1024	2048	8192
Collector	1	1	1024	2048	0
UAA Database	1	1	1024	2048	8192
UAA	1	1	1024	2048	0
SAML Login	1	1	1024	2048	0

Pending Changes

No updates

Install Updates

Recent install logs

01/22 09:52 UTC - 01/22 10:16 UTC
01/22 09:31 UTC - 01/22 09:48 UTC
01/22 09:03 UTC - 01/22 09:27 UTC
01/22 08:41 UTC - 01/22 08:59 UTC
01/22 04:06 UTC - 01/22 05:02 UTC

[← Product Dashboard](#)

Installation in progress. Show progress

Installation in Progress

42%

- ✓ Setting Micro BOSH deployment manifest
- ✓ Deploying Micro BOSH
- ✓ Checking Micro BOSH status
- ✓ Logging into director
- ✓ Creating director user
- ✓ Removing director bootstrap user
- ✓ Targeting director for Elastic Runtime
- ✓ Logging into director for Elastic Runtime
- ✓ Uploading release for Elastic Runtime
- ✓ Uploading stemcell for Elastic Runtime
- ✓ Setting deployment manifest for Elastic Runtime
- Deploying Elastic Runtime
- Checking Elastic Runtime
- Deleting Elastic Runtime
- Verifying app push









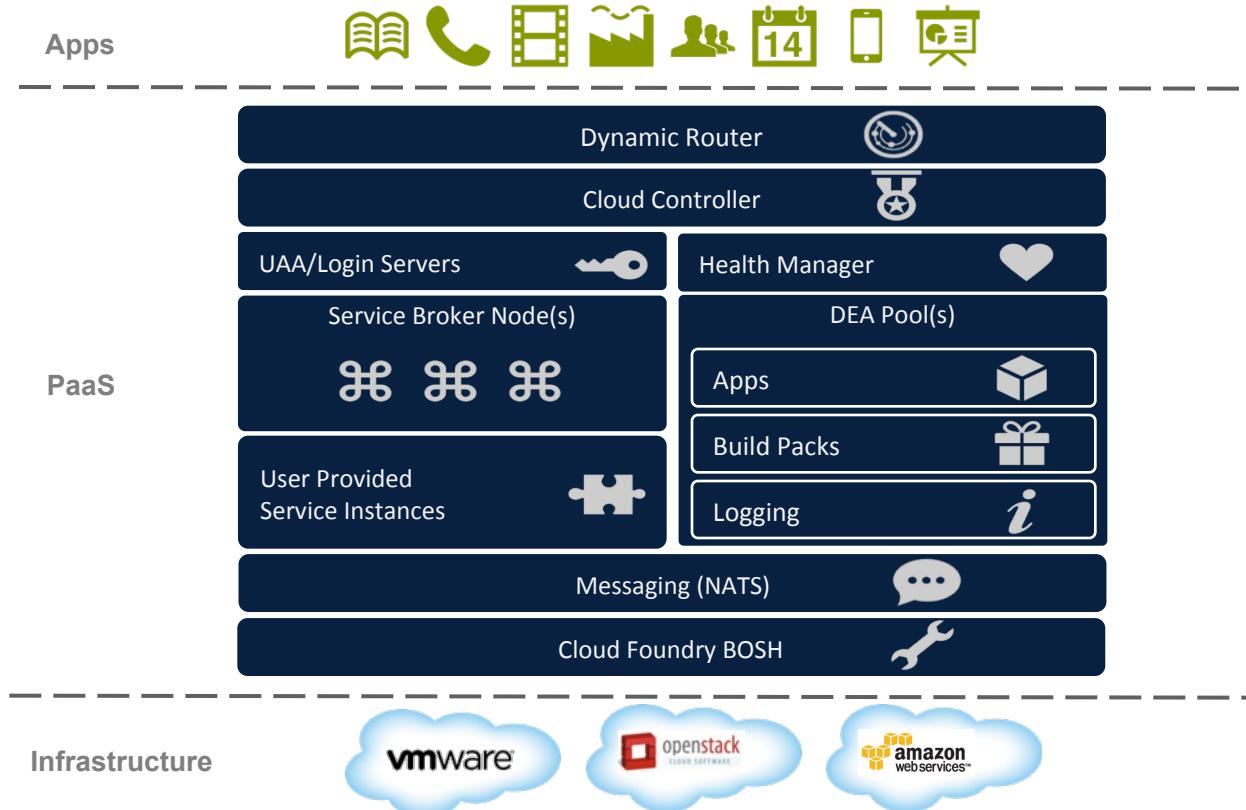




BOSH



Cloud Foundry Architecture





Demo

1. Deploy app to PaaS
2. Scale app from both an application and infrastructure
POV
3. Show continuous delivery, zero downtime



How to get started

1. Open Source - <https://github.com/cloudfoundry>
2. Community - <http://cloudfoundry.org/>
3. Pivotal Web Services – <http://run.pivotal.io>
4. Pivotal CF - www.gopivotal.com/paas
5. Spring Cloud - <https://github.com/spring-projects/spring-cloud>
6. Spring Music Demo - <https://github.com/cloudfoundry-samples/spring-music>

7. Spring Training: 7th April 2014
gopivotal.com/training#spring

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BUILT FOR THE SPEED OF BUSINESS