

How to greatly build, test,
deploy and scale an
application in 2018?



Cloudfoundry cf

19 av.

■ New Visitor ■ Returning Visitor

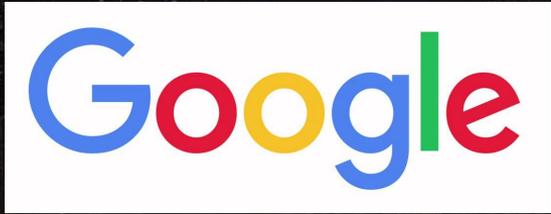


Create Apps, Not the Platform

Typical e-com

- *1-3 man-hours*
- *Thousands \$*
- *~ 20 % of the total cost*

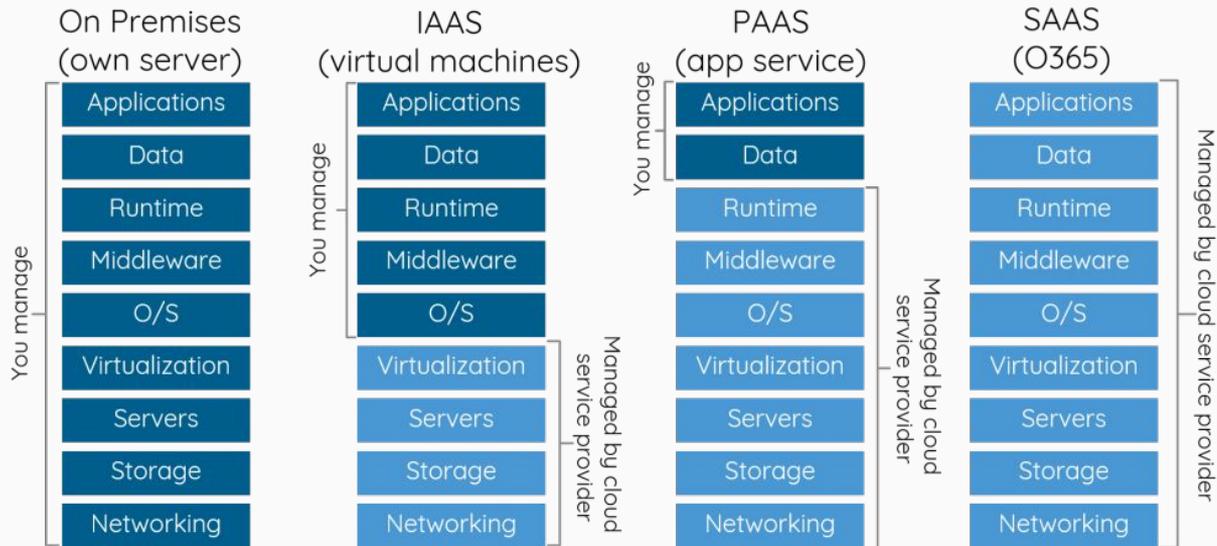
Backed by the best ...



Pivotal™



PaaS & serverless



Serverless = be only worried by your functions you write

What's behind ?

Main (mandatory) components



Another (pluggable) components



Do you speak CF ?



- Software provisioning & deployment
- Support many IaaS + can run on a VM
- Monitoring, failure recovery, soft update

Droplet

A packaged application which runs on a CF instance

Buildpacks

A software that links your app to CF

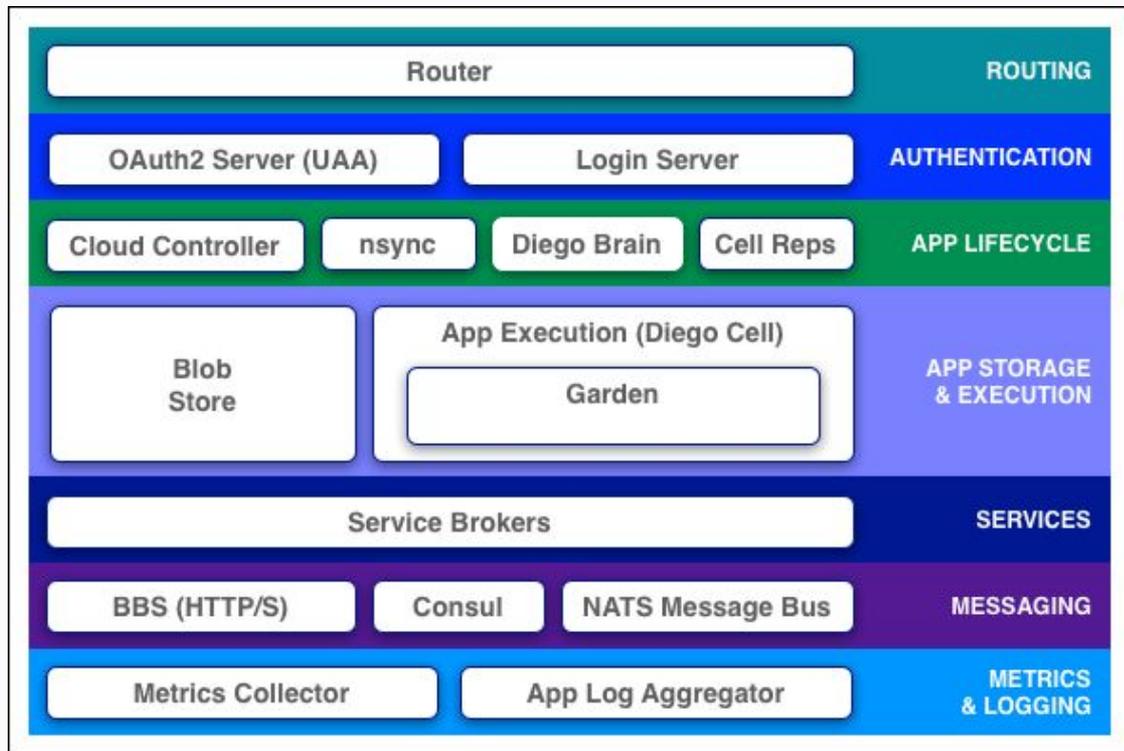
- One per language

Stemcell

A versioned OS wrapping IaaS specific packaging

- Bare minimum OS + common utilities

Architecture



Providers ("certified platforms")



Atos



Pivotal.



swisscom

On-premise

Runs on an existing cloud platform



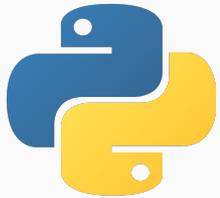
Local machine

PCF-dev

- 14 GB ISO
- Contains
 - a cloud stack (Kubernetes ?)
 - BOSH Director
 - cf stack
- 8 GB RAM, 100 GB disk space required !

How to use / Step 1 : choose your poison & code

Develop a *cloud-native* application



1 language = 1 *buildpack*

How to use / Step 2 : deploy

Cf stack operations

Build your *cloud-native* application

then

- Log-in to the endpoint (the CF instance)
- Create the management users and roles

then

```
cf push
```

Traditional operations

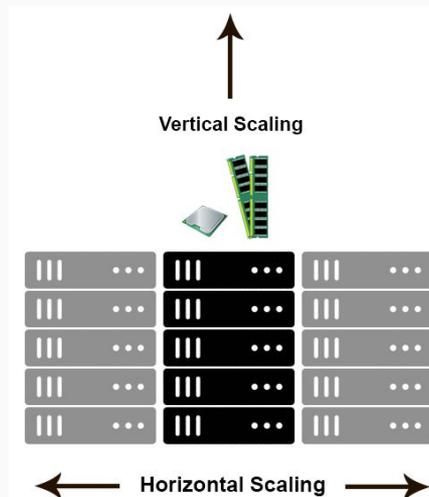
```
npm build  
ssh me@f*cking-machine  
git clone  
npm start  
install elk  
Install centreon
```

Bla bla bla...

How to use / Step 3 : have some rest

- ★ It scales automatically (using plugin)
- ★ It wires up networking and routing
- ★ Let the monitoring platforms do their jobs

If you really, really want
You wanna, you wanna
Scale it manually



```
cf scale myApp -k  
512M
```

```
cf scale myApp -m 1G
```

```
cf scale myApp -i 5
```

It's demo time !



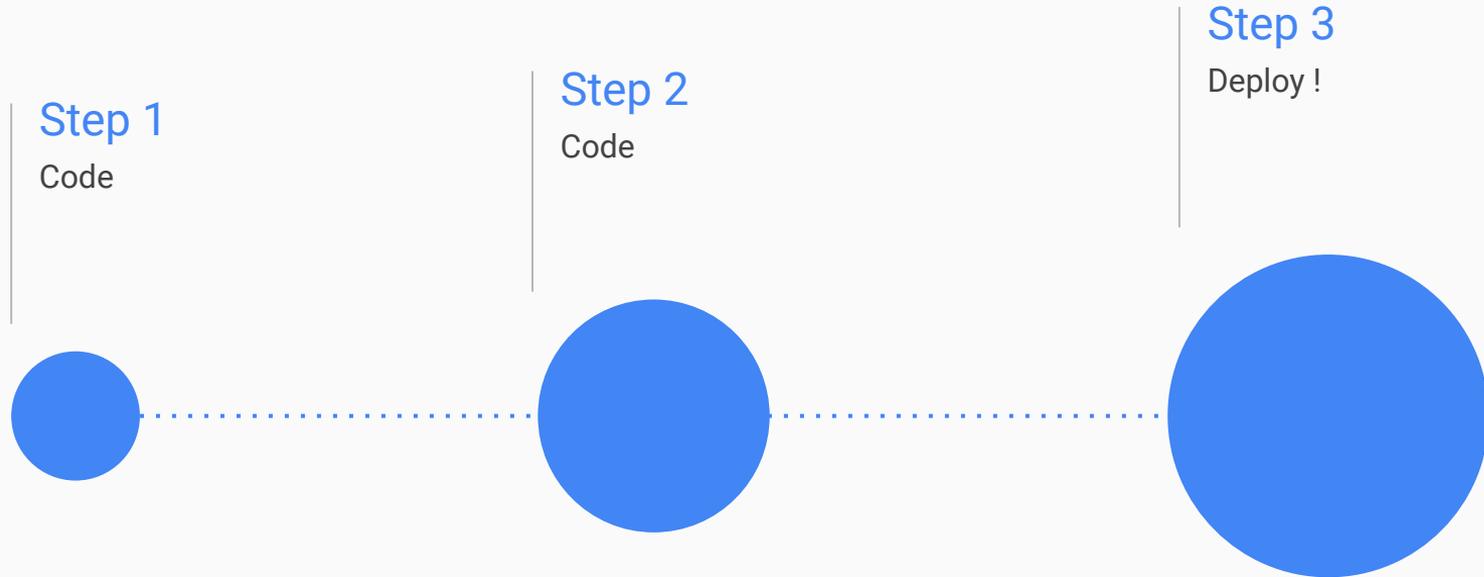
What you gain

- Speed
- homogeneity
- Scaling
- Soft cycle automated management

What you loose

- Flexibility / customization
- Unsupported services
 - statefulness

To sum up



Do it

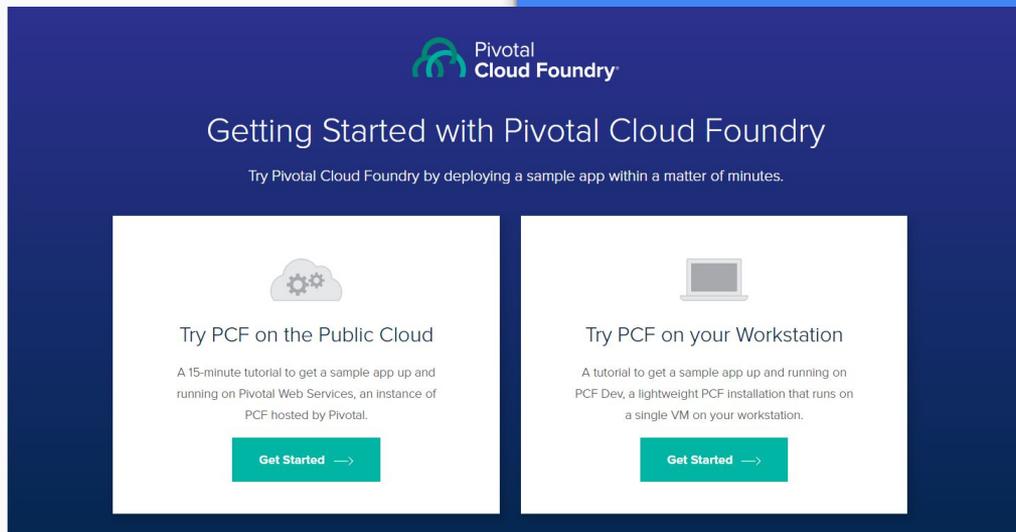
On cloud

Free trial on many official providers
(essentially provides a Director)

yourself

On Premise

Local installation “PCF Dev” with a local
Director



The screenshot shows the Pivotal Cloud Foundry Getting Started page. At the top, the Pivotal Cloud Foundry logo is displayed. Below the logo, the title "Getting Started with Pivotal Cloud Foundry" is centered. Underneath the title, a subtitle reads: "Try Pivotal Cloud Foundry by deploying a sample app within a matter of minutes." The page is divided into two main sections, each with a white background and a dark blue border. The left section is titled "Try PCF on the Public Cloud" and features a cloud icon with gears. It includes a 15-minute tutorial description and a green "Get Started" button with a right-pointing arrow. The right section is titled "Try PCF on your Workstation" and features a laptop icon. It includes a tutorial description and a green "Get Started" button with a right-pointing arrow.

 Pivotal
Cloud Foundry

Getting Started with Pivotal Cloud Foundry

Try Pivotal Cloud Foundry by deploying a sample app within a matter of minutes.



Try PCF on the Public Cloud

A 15-minute tutorial to get a sample app up and running on Pivotal Web Services, an instance of PCF hosted by Pivotal.

[Get Started →](#)



Try PCF on your Workstation

A tutorial to get a sample app up and running on PCF Dev, a lightweight PCF installation that runs on a single VM on your workstation.

[Get Started →](#)

References

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