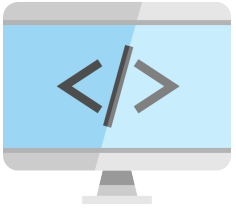


# O que é DevOps?

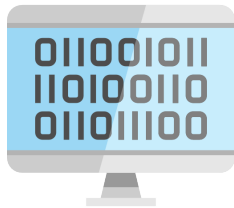
## Uma abordagem prática com Bluemix

[paulocavoto@br.ibm.com](mailto:paulocavoto@br.ibm.com)

Develop



Build



Test



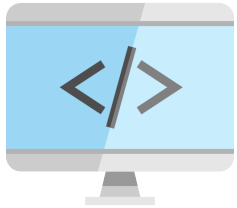
Deploy



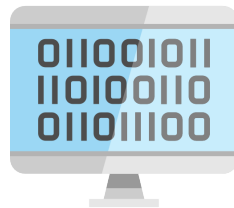
Monitor



Develop



Build



Test



Deploy



Monitor



---

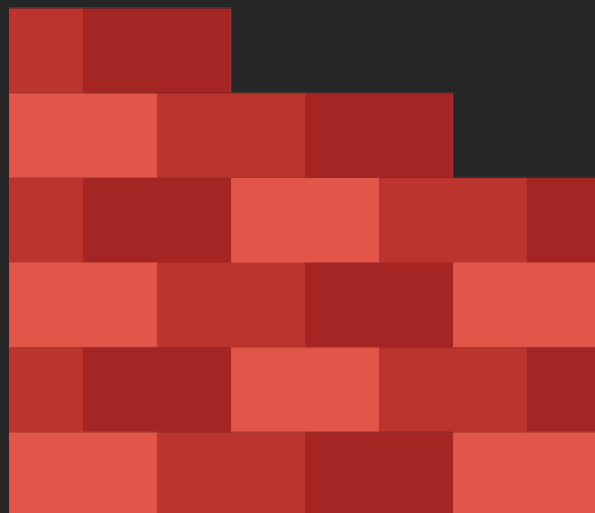
Desenvolvedor

Sys Admin



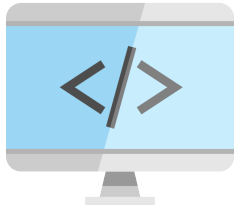


**Desenvolvedor**

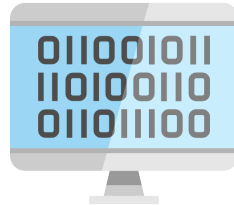


**Sys Admin**

Develop



Build



Test



Deploy



Monitor



Comunicação  
Colaboração  
Integração  
Responsabilidade

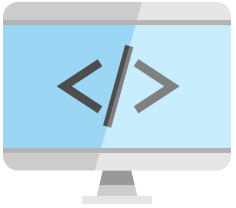
”Com grandes poderes vêm grandes responsabilidades”

Tio Ben, 1987

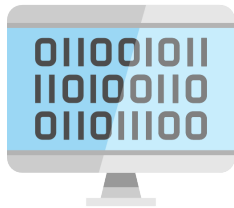


# Automação e Cultura

Develop



Build



Test



Deploy



Monitor







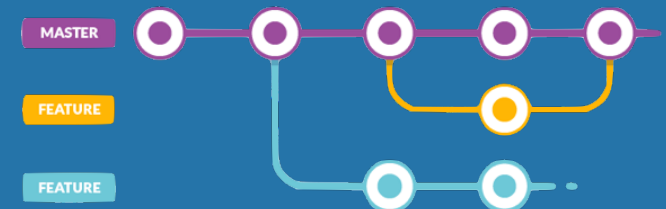
+

Bitbucket

+

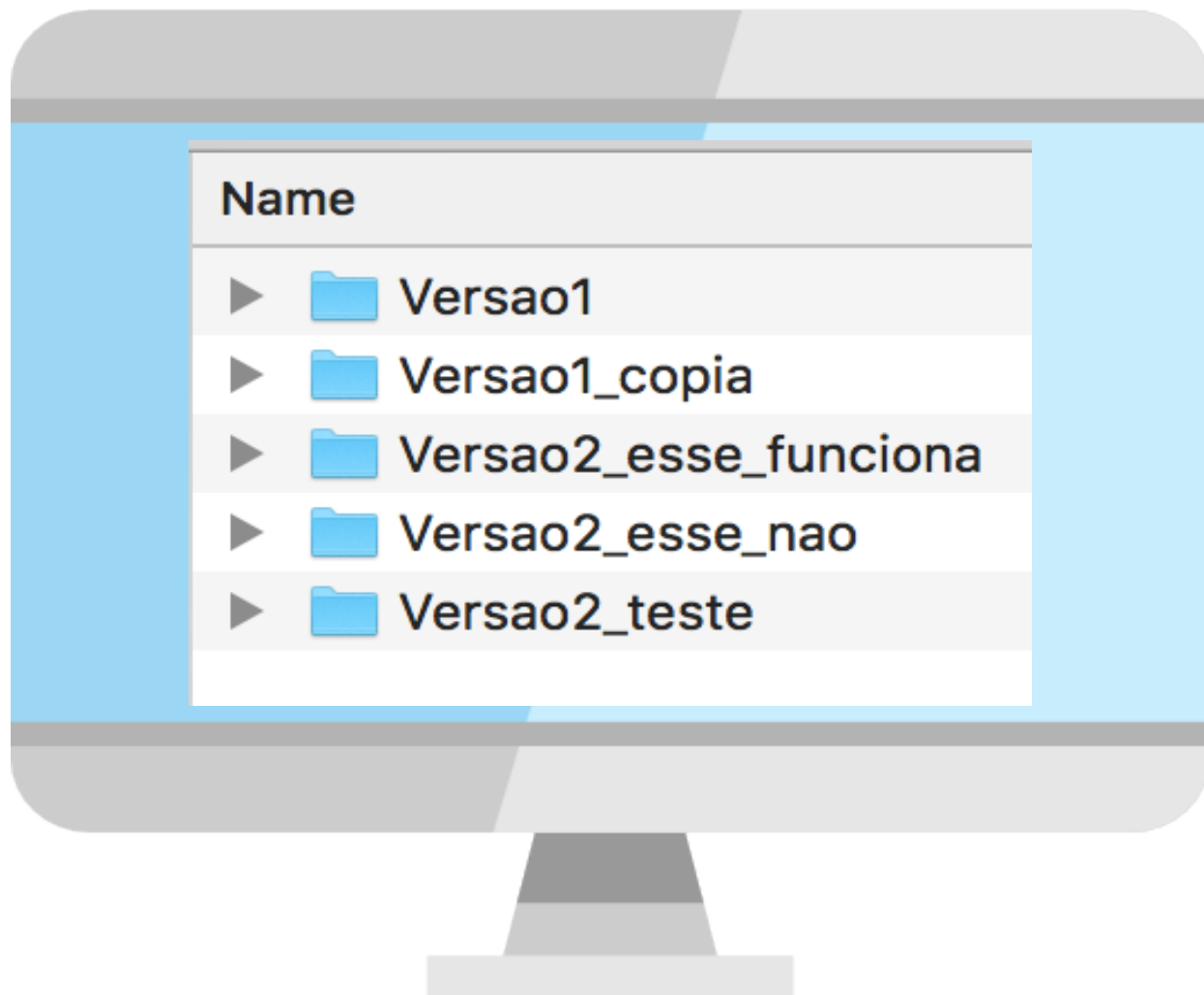


GitLab



IDE

Controle  
de VersãoProcesso de controle de  
versão  
(branches)



Mas ontem estava funcionando professora,  
eu juro! É uma dessas versões aqui ... vou  
achar



# Demo!



+



+



IBM **Bluemix**




IDE

Controle  
de Versão


Automação


<https://github.com/cavoto/justanexample>







## Authorize IBM Bluemix Toolchains


**IBM Bluemix Toolchains by IBM-Bluemix**  
wants to access your cavoto account


**Personal user data**  
Full access


**Repositories**  
Public and private

**Organization access**  
 IBM-Bluemix ✓

**Authorize IBM-Bluemix**  
Authorizing will redirect to  
<https://devops.ng.bluemix.net>

 Not owned or operated by GitHub



 Created 2 years ago

 More than 1K GitHub users


[Learn more about OAuth](#)

Toolchains / empty-toolchain-2017... / dsdasd

## dsdasd | Delivery Pipeline


**MyStage**

STAGE NOT RUN

LAST INPUT  
Not yet run  [Git URL](#)

JOBS  
No jobs configured

LAST EXECUTION RESULT  
No results

**Add Stage** 

<https://github.com/cavoto/justanexample>



***maven***



Frameworks de build

+



**Travis CI**



**Jenkins**

Ferramentas de build



# Demo!



+



Frameworks de build


Automação




MyStage

STAGE RUNNING...

LAST INPUT

 Last commit by Paulo Cavoto  
[Initial commit](#)

JOBS

 Build Running


LAST EXECUTION RESULT

No results


MyStage

STAGE PASSED


LAST INPUT

 Last commit by Paulo Cavoto  
[Initial commit](#) 4h ago

JOBS

 Build Passed now

LAST EXECUTION RESULT

 Build 1

MyStage

RUN

CONFIGURE

1

Passed now

 Build Passed

 Build 1 Passed now

STARTED Today at 2:28 PM

DURATION 14 seconds

DEPLOYED TO No spaces

LOGS

```
Preparing to start the job...
Cloning the 'develop' branch from repo 'https://github.com/cavoto/justanexample.git'
Repository successfully cloned
npm WARN deprecated jade@0.26.3: Jade has been renamed to pug, please install the latest version of pug instead of jade
npm WARN deprecated to-iso-string@0.0.2: to-iso-string has been deprecated, use @segment/to-iso-string instead.
npm WARN deprecated minimatch@0.3.0: Please update to minimatch 3.0.2 or higher to avoid a RegExp DoS issue
cookie-parser@1.4.3 node_modules/cookie-parser
├─ cookie-signature@1.0.6
└─ cookie@0.3.1

ejs@2.5.7 node_modules/ejs
```

# JUnit

# *ma*ven



+



Frameworks de teste

Orquestração



# Demo!



+



+



IBM **Bluemix**

Frameworks de teste

Orquestração

Automação

```
11 describe('Simple api test', function () {
12   /*
13    * Test the /GET route
14    */
15   describe('/GET theUltimateAnswer', function () {
16     it('it should GET the the answer to life the universe and everything', function (done) {
17       chai.request(server)
18         .get('/api/theUltimateAnswer')
19         .end(function (err, res) {
20           res.should.have.status(200);
21           expect(res.body.is).to.equal(42);
22           done();
23         });
24     });
25   });
26 });
```

## MyStage



STAGE NOT RUN

LAST II

Not ye

## MyStage



STAGE PASSED

JOBS

LAST INPUT

Stage: MyStage / Job: Build



Build 1

```
> justanexample@0.0.0 test /home/pipeline/9bd31a68-b202-4682-b2e3-2c2dff9153f9
> mocha --timeout 10000
```

LAST E

No res

JOBS



Test Passed now

```
Simple api test
  /GET theUltimateAnswer
    GET /api/theUltimateAnswer 200 6.182 ms - 9
      ✓ it should GET a response with 42 as the answer
```

1 passing (35ms)

LAST EXECUTION RESULT

No results

Finished: SUCCESS



Travis CI



Jenkins

urban{code}

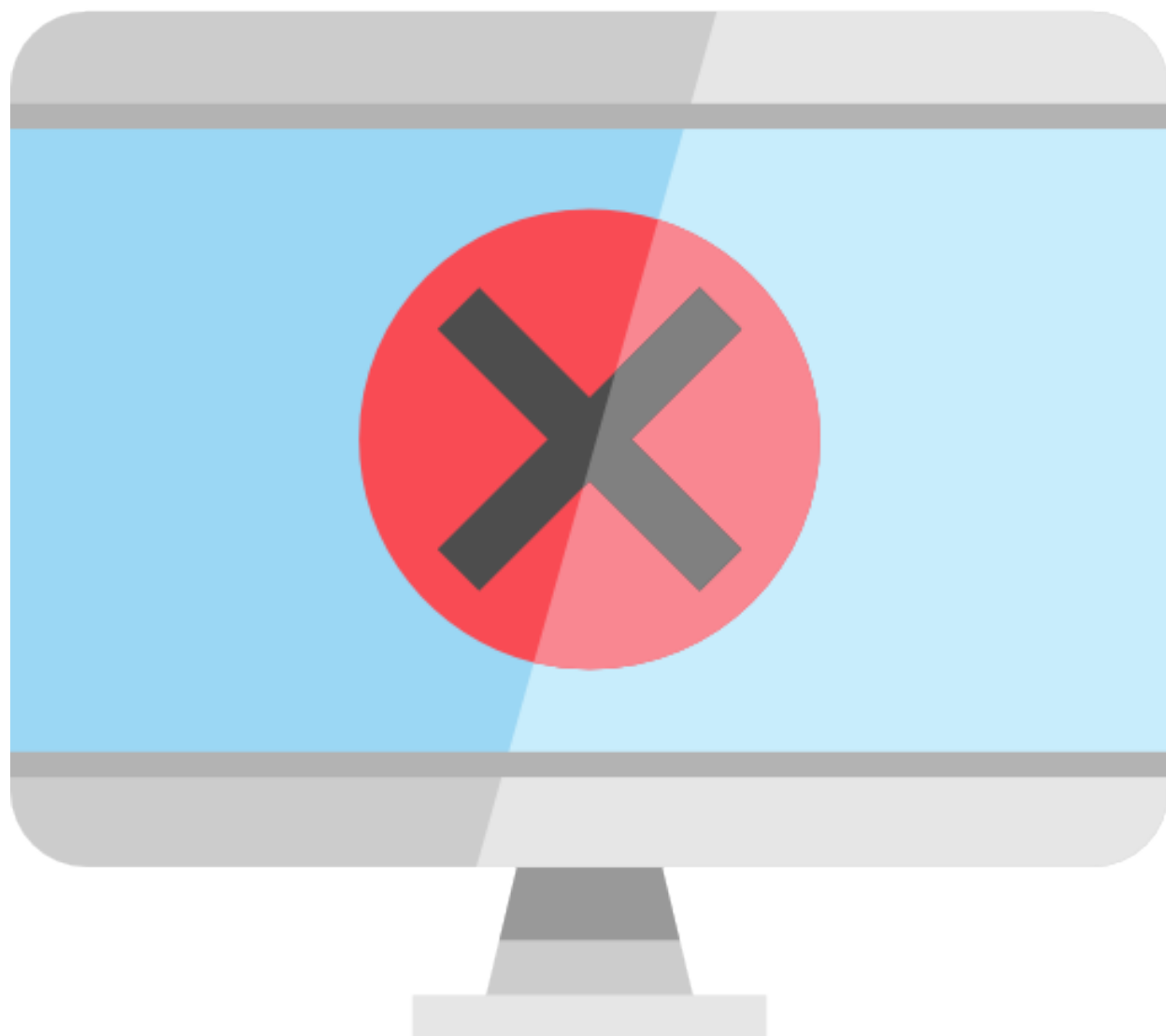
+



Microsoft Azure



Ferramentas



Mas na minha máquina funciona professora!

# Demo!



**IBM Bluemix**

# Sobre o que eu NÃO falei hoje

- **Buzz words:** Continuous Integration, Continuous Build, Agile, Infrastructure as Code
- Esse é o único jeito de fazer isso
- Você precisa implementar todos os processos
- Demos Metricas, Monitoramento e colaboração

# O que eu gostaria de ter falado hoje

- **Cultura > Ferramenta**
- Responsabilidade + Colaboração
- Agilidade (putz.... Não consegui escapar dessa)



Perguntas



# O que é DevOps?

## Uma abordagem prática com Bluemix

[paulocavoto@br.ibm.com](mailto:paulocavoto@br.ibm.com)

## Fontes e credits

- <http://www.cbr.com/when-we-first-met-when-did-uncle-ben-first-say-with-great-power-comes-great-responsibility/>
- <https://guides.github.com/activities/hello-world/>
- Icons made by [Freepik](#) from [www.flaticon.com](http://www.flaticon.com)