

Integração Contínua e Entrega Contínua com



Jenkins

whoami



Arquiteto de soluções na Everis Brasil, formado em Sistemas de Informação, a mais de 12 anos de experiência no mercado de TI atuando em áreas de infra e desenvolvimento de software, como DevOps utilizando ferramentas como Docker, Kubernetes, Ansible, Puppet, Chef, Jenkins, Cloud Computing com AWS, Azure, Google Cloud Platform, Infra com servidores Linux e Windows, desenvolvimento em PHP, Python e Ruby, possuo certificações como AWS Solutions Architect, Ethical Hacker dentre outras, apaixonado Linux e Open Sources e Instrutor de vários treinamentos como certificação LPI, Docker e DevOps.

Agenda



O que é CI?


O que é CD?

O que é Jenkins?

Instalação

Overview

Instrutor: Diogo A. M. Barbosa

 <https://github.com/diogoab>

 diogo.alves.barbosa@gmail.com



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**O que é Continuous Integration
(CI)**

O que Continuous Integration (CI)



Os desenvolvedores que utilizam a integração contínua "**mergeam**" suas alterações em uma "**Branch**" sempre que possível. As mudanças do desenvolvedor são validadas criando um "**Build**" e executando testes automatizados na compilação. Ao fazer isso, você evita vários conflitos de integração que geralmente acontece quando as pessoas esperam pelo dia da liberação para "**mergear**" suas alterações na "**Branch**" de "**release**".

A integração contínua coloca uma grande ênfase na automação de testes para verificar se o aplicativo não está corrompido sempre que novos commits são integrados ao branch principal.



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**O que Continuous Delivery
(CD)**


O que Continuous Delivery (CD)



A entrega contínua é uma extensão da integração contínua para garantir que você possa liberar novas alterações para seus clientes rapidamente e de maneira sustentável. Isso significa que, além de automatizar seus testes, você também automatizou seu processo de liberação e pode implantar seu aplicativo a qualquer momento, clicando em um botão.

Em teoria, com a entrega contínua, você pode decidir liberar diariamente, semanalmente, quinzenalmente, ou o que for adequado às suas necessidades comerciais. No entanto, se você realmente deseja obter os benefícios da entrega contínua, implante-a na produção o mais cedo possível para ter certeza de liberar pequenos lotes que sejam fáceis de solucionar em caso de um problema.

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O que é JENKINS?


O que é JENKINS?



- Monitora execução de Jobs que precisam ser repetidos várias vezes,
- Usado principalmente para criar e testar continuamente projetos de software, por exemplo, "Integração contínua" ou "CI"
- Anteriormente conhecido como "Hudson"

<http://jenkins-ci.org>

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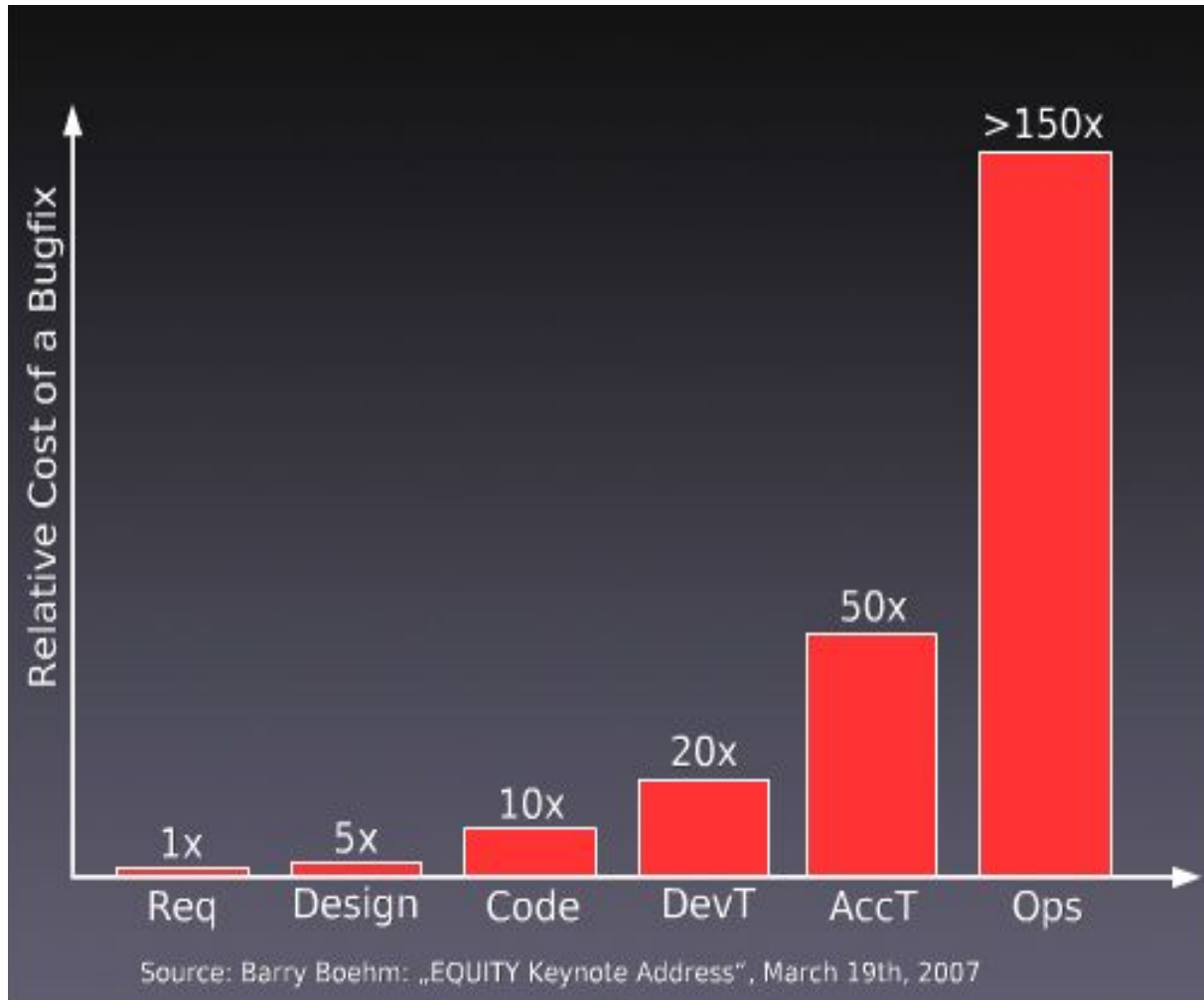
 diogo.alves.barbosa@gmail.com

POR QUE USAR JENKINS?




- **Feedback imediato sobre construções quebradas**
- **Nenhum Build em máquinas DEV e copiando arquivos manualmente**
- **Implantação automatizada**
- **Execução de teste e feedback automatizados**

POR QUE USAR JENKINS?

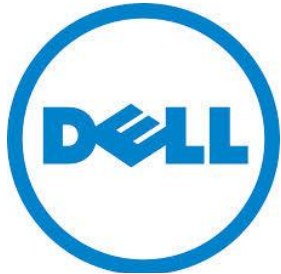


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QUEM USA JENKINS?



SONY



intuit®





Jenkins

Instalação

Instalação



```
# wget -q -O -  
https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo  
apt-key add -
```

```
# echo "deb https://pkg.jenkins.io/debian-stable binary/"  
>> /etc/apt/sources.list
```

```
# apt-get update
```

```
# openjdk-8-jre-headless
```

Instalação



```
# apt-get install jenkins -y
```


```
# cat
```

```
/var/lib/jenkins/secrets/initialAdminPassword
```

```
# cat /var/log/jenkins/jenkins.log
```

```
# vi /etc/default/jenkins
```

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Overview

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-  Disk usage


FTC Jenkins Server

 [edit description](#)

All						
DIODE IDEAS InfoGraph TIGEAR Web Products +						
S	W	Name ↓	Last Success	Last Failure	Last Duration	
		DIODE - KPS Integration Branch	7 mo 21 days - #105	N/A	52 sec	
		DIODE - Trunk	4 hr 26 min - #332	N/A	1 min 37 sec	
		IDEAS-trunk	41 min - #216	N/A	2 min 1 sec	
		IDEAS-TRY-0.1.0	1 hr 16 min - #586	N/A	4 min 16 sec	
		InfoGraph Editor - Installation Package	1 mo 9 days -	1 mo 3 days - #13	57 sec	
		RTISA - WB-1.1.2 - Build + Deploy (DEV)	4 mo 18 days - #22	N/A	1 min 15 sec	
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		Static	19 hr - #19	N/A	7 sec	
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		VPS Fortify Scan	1 day 15 hr - #58	N/A	3 hr 2 min	




Build Queue 

No builds in the queue.

Build Executor Status 

#	Status
1	Idle
2	Idle

Icon: [S](#) [M](#) [L](#)

[Legend](#)  [RSS for all](#)  [RSS for failures](#)  [RSS for just latest builds](#)

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






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Project IDEAS-TRY-0.1.0


 [add description](#)

[Disable Project](#)

Project disk usage information + trend graph



[Workspace](#)

 **Disk Usage:** Workspace 1 GB (On slaves -, Non slave workspaces 1 GB), Builds 30 MB (Locked -)

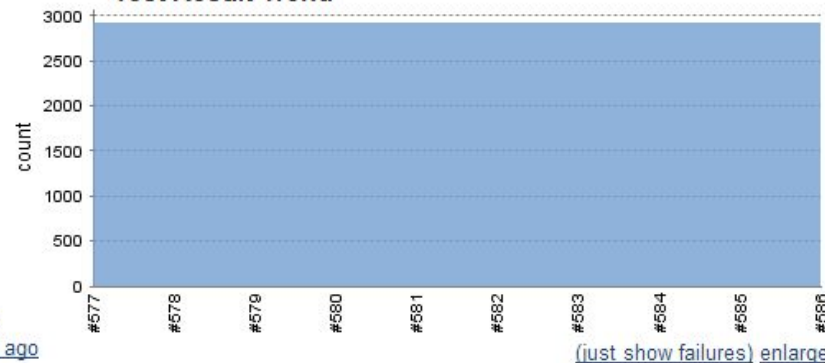


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[Latest Test Result](#) (no failures)

Test Result Trend



[\(just show failures\)](#) [enlarge](#)

Build History (trend) -		
#587	Oct 21, 2014 10:54:49 AM	3 MB
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Permalinks

- [Last build \(#587\), 3 min 7 sec ago](#)
- [Last stable build \(#586\), 1 hr 33 min ago](#)
- [Last successful build \(#586\), 1 hr 33 min ago](#)

PROJECT VIEW



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Project IDEAS-TRY-0.1.0


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[Disable Project](#)

Project disk usage information + trend graph

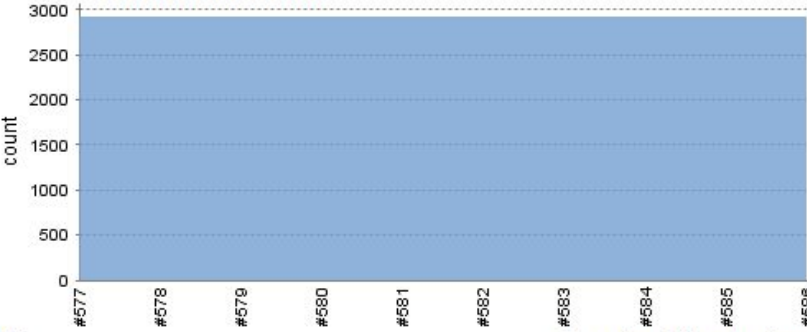
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Test Result Trend





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Project IDEAS-TRY-0.1.0

 [add description](#)

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Project disk usage information + trend graph




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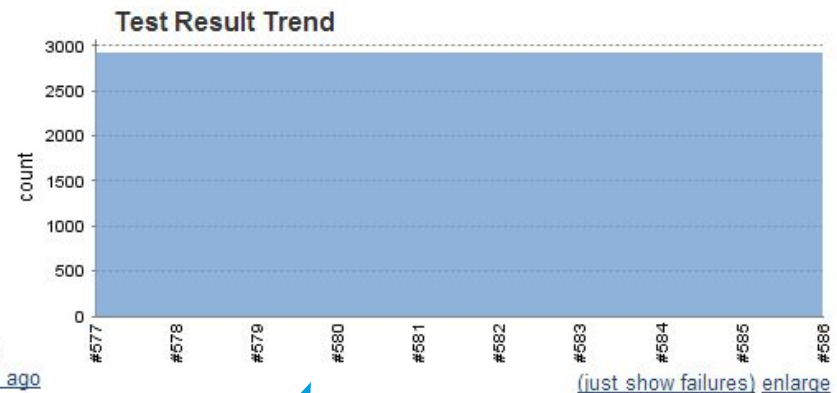
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Project IDEAS-TRY-0.1.0


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Project disk usage information + trend graph



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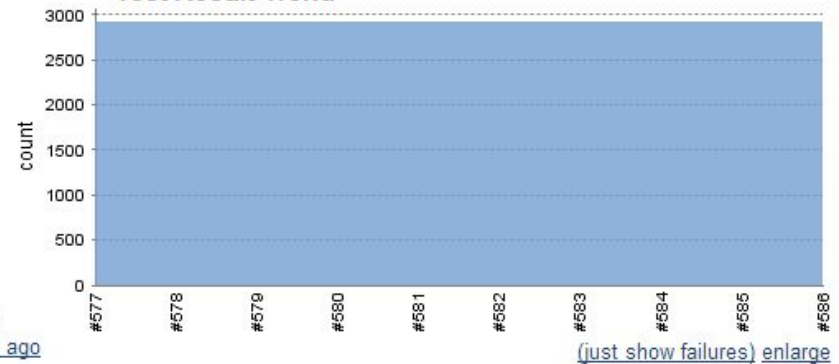


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WORKSPACE





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Workspace of IDEAS-TRY-0.1.0 on master





 [_svn](#)


 [bin](#)


 [Common](#)


 [FMC/Src](#)


 [IDEAS/Src](#)


 [LiquidControls](#)


 [RTISA/Src](#)


 [SilverFlowControls](#)


 [Test](#)


 [IdeasJenkinsDevDeploy.bat](#) 1.66 KB [view](#)


 [IdeasService.sln](#) 82.93 KB [view](#)


 [IdeasService.testsettings](#) 965 B [view](#)


 [IdeasService.vsmproj](#) 24.94 KB [view](#)


 [IdeasServiceFull.sln](#) 107.09 KB [view](#)



 [IdeasSilverlight.sln](#) 22.03 KB [view](#)











 [NuGet.config](#) 136 B [view](#)

 [nunit-result.xml](#) 1.27 MB [view](#)

 [TestSettings.testsettings](#) 780 B [view](#)

 [\(all files in zip\)](#)

 **Build History** [\(trend\)](#) 

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Project IDEAS-TRY-0.1.0

[add description](#)

[Disable Project](#)

Project disk usage information + trend graph



[Workspace](#)

Disk Usage: Workspace 1 GB (On slaves -, Non slave workspaces 1 GB), Builds 30 MB (Locked -)



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CONFIGURE



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 **Configure**

 [Subversion Polling Log](#)

Project name

IDEAS-TRY-0.1.0

Description

[Raw HTML] [Preview](#)

☒ Discard Old Builds

Strategy

Log Rotation

Days to keep builds

if not empty, build records are only kept up to this number of days

Max # of builds to keep

10

if not empty, only up to this number of build records are kept

[Advanced...](#)

☐ Configure Build Authorization

☐ This build is parameterized

☐ Prepare an environment for the run

☐ Disable Build (No new builds will be executed until the project is re-enabled.)













☐ Execute concurrent builds if necessary

JDK

(Default)


JDK to be used for this project

Advanced Project Options


Build History (trend) —		
	#587 Oct 21, 2014 10:54:49 AM	3 MB
	#586 Oct 21, 2014 9:24:51 AM	3 MB
	#585 Oct 20, 2014 4:24:49 PM	3 MB
	#584 Oct 20, 2014 3:24:48 PM	3 MB
	#583 Oct 20, 2014 10:09:48 AM	3 MB
	#582 Oct 20, 2014 9:09:46 AM	3 MB
	#581 Oct 17, 2014 4:26:52 PM	3 MB
	#580 Oct 17, 2014 2:24:42 PM	3 MB
	#579 Oct 17, 2014 10:24:39 AM	3 MB
	#578 Oct 16, 2014 9:39:41 PM	3 MB
 RSS for all  RSS for failures		

CONFIGURE



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 [Status](#)

 [Changes](#)

 [Workspace](#)

 [Build Now](#)

 [Delete Project](#)

 **Configure**

 [Subversion Polling Log](#)

Project name

IDEAS-TRY-0.1.0

Description

[\[Raw HTML\]](#) [Preview](#)

☒ Discard Old Builds 

Strategy

Log Rotation

Days to keep builds

if not empty, build records are only kept up to this number of days

Max # of builds to keep

10

if not empty, only up to this number of build records are kept

[Advanced...](#)

☐ Configure Build Authorization

☐ This build is parameterized

☐ Prepare an environment for the run

☐ Disable Build (No new builds will be executed until the project is re-enabled.)













☐ Execute concurrent builds if necessary

JDK

(Default)


JDK to be used for this project

Advanced Project Options

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SOURCE CODE MANAGEMENT



Source Code Management

- ☐ None
- ☐ CVS
- ☐ CVS Projectset
- ☒ Subversion

Modules

Repository URL ?

Credentials ▼

Add

Local module directory

Repository depth ▼

Ignore externals ☐

Additional Credentials

Realm

Credentials ▼

Add

?

Check-out Strategy

▼

Jenkins will first remove all the unversioned/modified files/directories, as well as files/directories ignored by "svn:ignore", then execute "svn update". This emulates the fresh check out behaviour without the cost of full checkout.

Repository browser

▼ ?

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BUILD TRIGGERS



Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts)
- ☐ Build after other projects are built
- ☐ Build periodically
- ☒ Poll SCM

Schedule

H/15 * * * *



Would last have run at Wednesday, October 22, 2014 11:30:24 AM EDT; would next run at Wednesday, October 22, 2014 11:45:24 AM EDT.

Ignore post-commit hooks ☐

Build Environment

- ☐ Inject environment variables to the build process
- ☐ Inject passwords to the build as environment variables

Instrutor: Diogo A. M. Barbosa

 <https://github.com/diogoab>
 diogo.alves.barbosa@gmail.com

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BUILD



Build

Build a Visual Studio project or solution using MSBuild

MSBuild Version

MSBuild 4 x86

MSBuild Build File

IdeasService.sln

Command Line Arguments

Build a Visual Studio project or solution using MSBuild

MSBuild Version

MSBuild 4 x86

MSBuild Build File

IdeasSilverlight.sln

Command Line Arguments

Execute Windows batch command

Command



IdeasJenkinsDevDeploy.bat IdeasWcfService

Execute Windows batch command

Command

"C:\Program Files (x86)\Jenkins\workspace\Static\trunk\NUnit\NUnit-2.6.3\bin\nunit-console.exe"
IdeasService.sln /exclude:IntegrationTest /xml=nunit-result.xml /domain:Multiple

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POST BUILD ACTIONS



Post-build Actions

Publish NUnit test result report

Test report XMLs


[Fileset 'includes'](#) setting that specifies the generated raw XML report files, such as 'myproject/target/test-reports/*.xml'. Basedir of the fileset is [the workspace root](#).

Delete

E-mail Notification

Recipients


Whitespace-separated list of recipient addresses. May reference build parameters like \$PARAM. E-mail will be sent when a build fails, becomes unstable or returns to stable.

- ☒ Send e-mail for every unstable build
- ☒ Send separate e-mails to individuals who broke the build 

Delete

Add post-build action ▼

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POST BUILD ACTIONS



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Publish NUnit test result report

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POST BUILD ACTIONS



- **Notificações de email personalizadas**
- **Construa outros projetos**
- **Criar / atualizar problemas do JIRA**
- **Publicar Javadocs**

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PLUG-INS




Mais de 600 plug-ins disponiveis para customizar

Exemplos:

- JIRA
- Ant
- Maven
- JUnit
- Javadoc
- SSH
- MSBuild
- NUnit
- PowerShell
- Email Notifications

<https://wiki.jenkins-ci.org/display/JENKINS/Plugins>

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Jenkins

Até a próxima!