



# Jenkins

**Open Source Continuous Integration Server**

# WHO AM I?



**Matt Anderson**

**Moved to Dayton from Detroit eight years ago**

**Software Engineer at Northrop Grumman**





# Jenkins

**Open Source Continuous Integration Server**

# WHAT IS JENKINS?



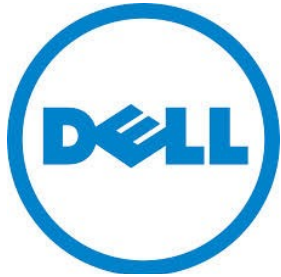
**Monitors executions of repeated jobs**

**Used primarily for continuously building and testing software projects, i.e. “Continuous Integration” or “CI”**

**Previously known as “Hudson”**

<http://jenkins-ci.org>

# WHO USES JENKINS?



SONY



intuit®



YAHOO!

# WHY USE JENKINS?



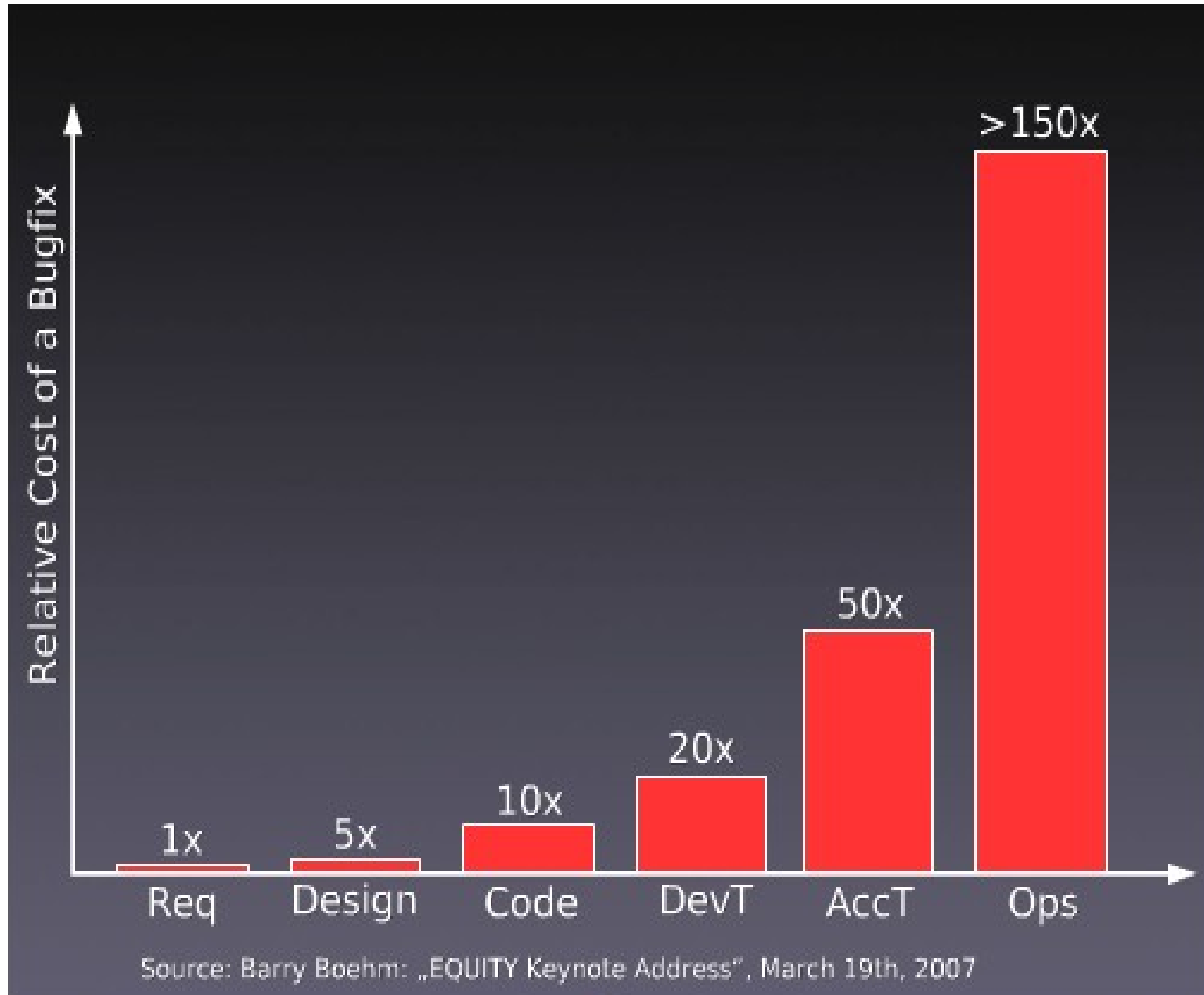
**Immediate feedback on broken builds**

**No building from dev machines and manually copying files**

**Automated deployment**

**Automated test execution and feedback**

# WHY USE JENKINS?



# DASHBOARD



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[ENABLE AUTO](#)


-  New Item
-  People
-  Build History
-  Credentials
-  My Views
-  Disk usage

FTC Jenkins Server

 [edit description](#)

All						
DIODE IDEAS InfoGraph TIGEAR Web Products +						
S	W	Name ↓	Last Success	Last Failure	Last Duration	
		<a href="#">DIODE - KPS Integration Branch</a>	7 mo 21 days - <a href="#">#105</a>	N/A	52 sec	
		<a href="#">DIODE - Trunk</a>	4 hr 26 min - <a href="#">#332</a>	N/A	1 min 37 sec	
		<a href="#">IDEAS-trunk</a>	41 min - <a href="#">#216</a>	N/A	2 min 1 sec	
		<a href="#">IDEAS-TRY-0.1.0</a>	1 hr 16 min - <a href="#">#586</a>	N/A	4 min 16 sec	
		<a href="#">InfoGraph Editor - Installation Package</a>	1 mo 9 days -	1 mo 3 days - <a href="#">#13</a>	57 sec	
		<a href="#">RTISA - WB-1.1.2 - Build + Deploy (DEV)</a>	4 mo 18 days - <a href="#">#22</a>	N/A	1 min 15 sec	
		<a href="#">SAMT - trunk</a>	1 hr 44 min - <a href="#">#132</a>	N/A	3 min 3 sec	
		<a href="#">Static</a>	19 hr - <a href="#">#19</a>	N/A	7 sec	
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		<a href="#">VPS - Trunk</a>	16 hr - <a href="#">#191</a>	23 hr - <a href="#">#190</a>	36 sec	
		<a href="#">VPS Fortify Scan</a>	1 day 15 hr - <a href="#">#58</a>	N/A	3 hr 2 min	

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No builds in the queue.

**Build Executor Status** 

#	Status
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# PROJECT VIEW



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[Back to Dashboard](#)

[Status](#)

[Changes](#)

[Workspace](#)

[Build Now](#)

[Delete Project](#)

[Configure](#)

[Subversion Polling Log](#)

## 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 -)

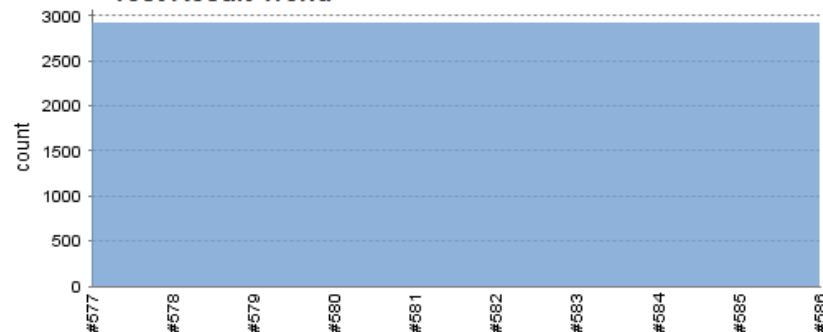


[Recent Changes](#)



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

### Test Result Trend



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

Build History <span>(trend) —</span>		
#587	<a href="#">Oct 21, 2014 10:54:49 AM</a>	3 MB
#586	<a href="#">Oct 21, 2014 9:24:51 AM</a>	3 MB
#585	<a href="#">Oct 20, 2014 4:24:49 PM</a>	3 MB
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[RSS for all](#) [RSS for failures](#)

### 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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Jenkins > IDEAS-TRY-0.1.0 >

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Back to Dashboard

Status

Changes

Workspace

Build Now

Delete Project

Configure

Subversion Polling Log

## Project IDEAS-TRY-0.1.0

add description

Disable Project

Project disk usage information + trend graph



[Workspace](#)



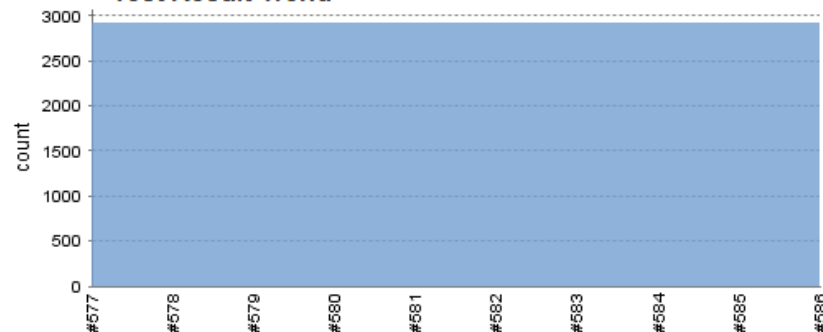
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[ENABLE AU](#)

 [Back to Dashboard](#)

 [Status](#)

 [Changes](#)














 [Workspace](#)

 [Build Now](#)

 [Delete Project](#)

 [Configure](#)

 [Subversion Polling Log](#)

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 [RSS for all](#)  [RSS for failures](#)

## Project IDEAS-TRY-0.1.0


 [add description](#)

[Disable Project](#)

Project disk usage information + trend graph



[Workspace](#)

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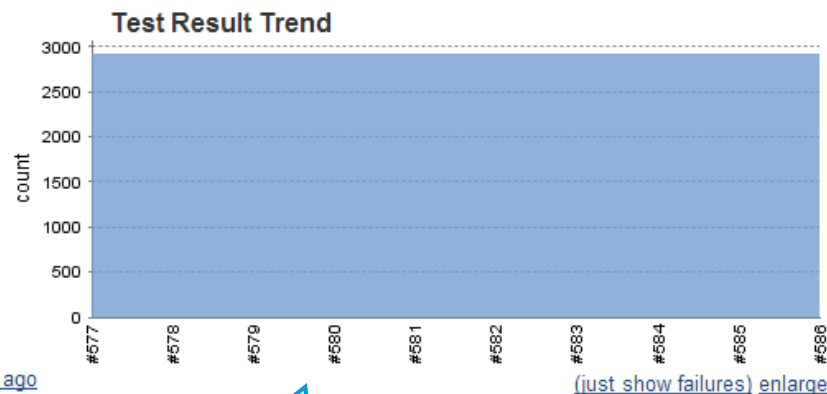
[Recent Changes](#)



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

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# PROJECT VIEW



 [Back to Dashboard](#)

 [Status](#)

 [Changes](#)

 [Workspace](#) ←

 [Build Now](#)

 [Delete Project](#)

 [Configure](#)

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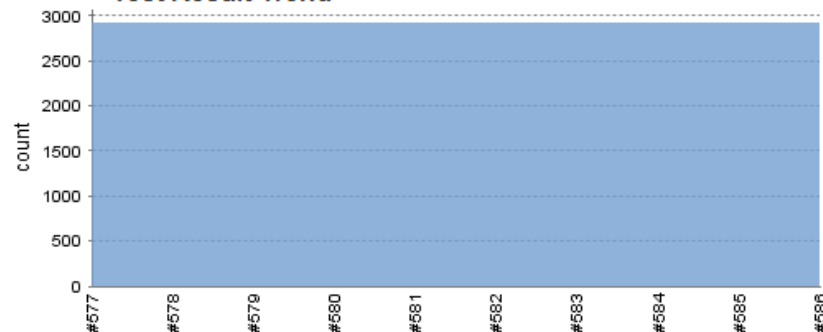
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# WORKSPACE



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Jenkins > IDEAS-TRY-0.1.0 > [ENABLE AUT](#) [Back to Dashboard](#) [Status](#) [Changes](#) **Workspace** [Build Now](#) [Delete Project](#) [Configure](#) [Subversion Polling Log](#)

## 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.vsmDI](#) 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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 [Back to Dashboard](#)

 [Status](#)

 [Changes](#)

 [Workspace](#)

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 [Delete Project](#)

 [Configure](#) ←

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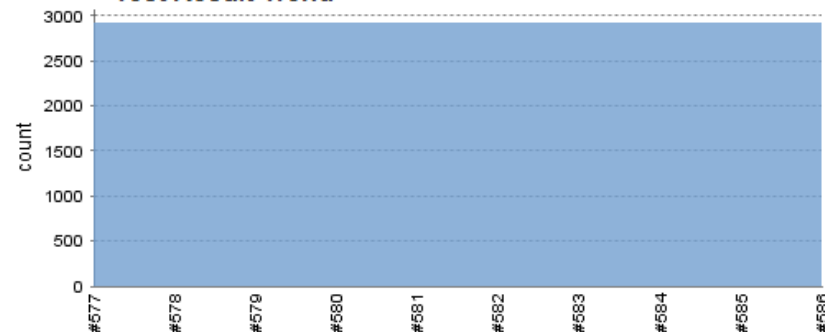
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 [RSS for all](#)  [RSS for failures](#)

### 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](#)


# CONFIGURE



 [Back to Dashboard](#)

 [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

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

# ADVANCED PROJECT OPTIONS



Jenkins > IDEAS-TRY-0.1.0 > configuration

RSS for all RSS for failures

### Advanced Project Options

- ☐ Quiet period
- ☐ Retry Count
- ☐ Block build when upstream project is building
- ☐ Block build when downstream project is building
- ☒ Use custom workspace

Directory

Display Name

[Jenkins:8080/](#) want to log in

Styles Editing Clipboard Slides Font Paragraph Drawing Editing

Slides Outline

Configure

NORTHROP GRUMMAN

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Jenkins > IDEAS-TRY-0.1.0 > configuration

RSS for all RSS for failures

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NORTHROP GRUMMAN



# 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

▼ ?

# SOURCE CODE MANAGEMENT



## Source Code Management

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

Modules

Repository URL

Credentials

https://someurl.com/svn/IDEAS/branches/TRY-0.1.0

jenkins/\*\*\*\*\*

Add

Local module directory

.

Repository depth

infinity

Ignore externals

☐

Additional Credentials

Realm

<https://someurl.com> VisualSVN Server

Credentials

jenkins/\*\*\*\*\*

Add

Check-out Strategy

Emulate clean checkout by first deleting unversioned/ignored files, then 'svn update'

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

(Auto)

# SOURCE CODE MANAGEMENT



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  - ☐ CVS
  - ☐ CVS Projectset
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- Modules

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Credentials

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Local module directory

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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  ?

→ Additional Credentials

# 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

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## Build Environment

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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 ▼

# POST BUILD ACTIONS



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Send separate e-mails to individuals who broke the build

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# POST BUILD ACTIONS



**Customized email notifications**

**Build other projects**

**Create/update JIRA issues**

**Publish Javadocs**

# PLUG-INS



**Over 600 plug-ins available for customization**

**Examples:**

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

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

# LET'S DO THIS



**A final word of encouragement**

<https://www.youtube.com/v/LkCNJRfSZBU&start=84&end=90&autoplay=1>

# QUESTIONS?

