



ESCUELA SUPERIOR POLITÉCNICA DEL LITORAL

Ingeniería de Software II

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Integración Continua y Jenkins

1. Funcionamiento de Jenkins

The screenshot shows the Jenkins main dashboard. At the top, there's a header with the Jenkins logo, a search bar, and the user 'luis angel' with a 'Desconectar' button. Below the header, there's a sidebar on the left with links: Nueva Tarea, Personas, Historial de trabajos, Administrar Jenkins, Mis vistas, Credentials, and Lockable Resources. The main area displays a table of jobs. The first job is 'PrimaJenkins' with a status of 'S' (Success) and a sun icon. The table has columns: S, W, Nombre, Último Éxito, Último Fallo, and Última Duración. Below the table, there are links for 'Icono: S M L' and 'Guía de iconos'. At the bottom right, there are links for 'Atom feed para todos', 'Atom feed para fallas', and 'Atom feed para los más recientes'.

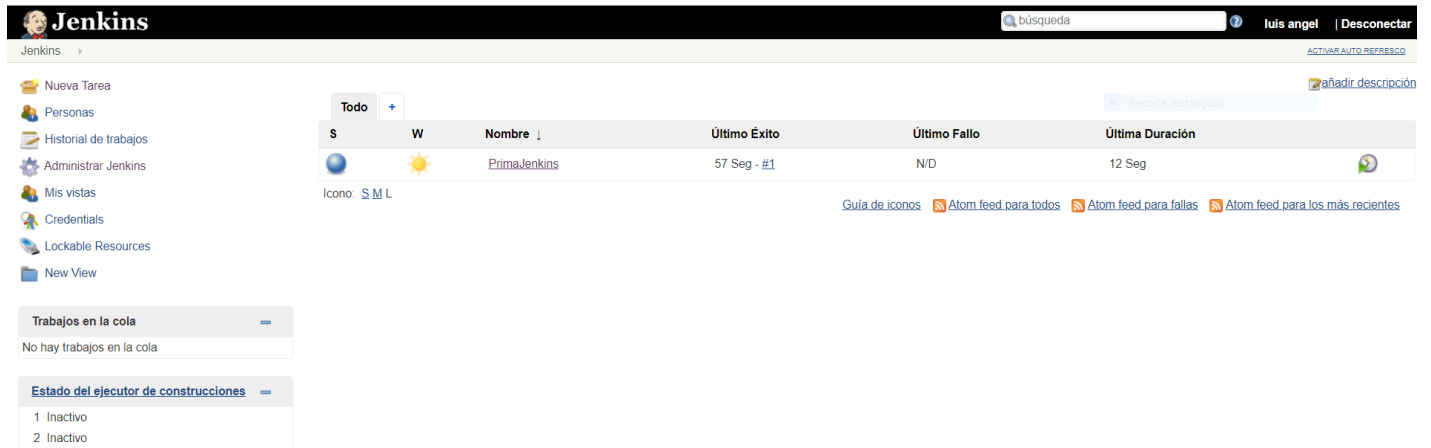
S	W	Nombre	Último Éxito	Último Fallo	Última Duración
		PrimaJenkins	4 Min 5 Seg - #6	N/D	1,4 Seg

The screenshot shows the Jenkins 'PrimaJenkins' job page. The header includes the Jenkins logo and the job name 'PrimaJenkins'. On the left, there's a sidebar with links: Volver al Panel de Control, Estado Actual, Cambios, Zona de Trabajo, Construir ahora, Borrar Proyecto, Configurar, GitHub Hook Log, and Rename. The main area is titled 'Proyecto PrimaJenkins' and contains links for 'Espacio de trabajo' and 'Cambios recientes'. Below this, there's a section 'Enlaces permanentes' with a list of links: 'Última ejecución (#6) hace 5 Min 4 Seg', 'Última ejecución estable (#6) hace 5 Min 4 Seg', 'Última ejecución correcta (#6) hace 5 Min 4 Seg', and 'Last completed build (#6) hace 5 Min 4 Seg'. At the bottom, there are links for 'Atom feed Para Todos' and 'Atom feed para los errores'. A 'Historia de tareas' section is also visible, showing a list of builds with their status, number, and timestamp.

Historia de tareas [Tendencia](#)

#	Timestamp
#6	19-dic-2019 1:06
#5	19-dic-2019 0:47
#3	18-dic-2019 22:35
#2	18-dic-2019 22:35
#1	18-dic-2019 21:40

2. Configurar un proyecto (freestyle project) en Jenkins











The screenshot shows the Jenkins dashboard. On the left is a sidebar with navigation links: Nueva Tarea, Personas, Historial de trabajos, Administrar Jenkins, Mis vistas, Credentials, Lockable Resources, and New View. Below these are sections for 'Trabajos en la cola' (No hay trabajos en la cola) and 'Estado del ejecutor de construcciones' (1 Inactivo, 2 Inactivo). The main area displays a table of jobs:

S	W	Nombre ↓	Último Éxito	Último Fallo	Última Duración
		PrimaJenkins	57 Seg - #1	N/D	12 Seg

Below the table are links for 'Guía de iconos', 'Atom feed para todos', 'Atom feed para fallas', and 'Atom feed para los más recientes'. At the top right, there is a search bar and user information 'luis angel | Desconectar'.



The screenshot shows the Jenkins configuration page for the 'PrimaJenkins' project. The left sidebar contains a list of actions: Volver al Panel de Control, Estado Actual, Cambios (highlighted), Zona de Trabajo, Construir ahora, Borrar Proyecto, Configurar, and Rename. The main area has a heading 'Cambios' with the text 'No changes in any of the builds.' Below this is a section titled 'Historia de tareas' with a search bar containing 'find' and a list of tasks. The first task is '#1' with a timestamp of '18-dic-2019 21:40'. At the bottom, there are links for 'Atom feed Para Todos' and 'Atom feed para los errores'.

-  [Volver al proyecto](#)
-  [Estatus](#)
-  [Cambios](#)
-  [Console Output](#)
-  [Editar información de la ejecución](#)
-  [Delete build '#1'](#)
-  [Git Build Data](#)
-  [No Tags](#)



Compilar #1 (18-dic-2019 21:40:40)



No changes.












Iniciado por el usuario [luis_angel](#)



Revision: dd1ba926d6a3a399a4300eac215dba5eeb2a4ea2

- refs/remotes/origin/master

-  [Volver al proyecto](#)
-  [Estatus](#)
-  [Cambios](#)
-  [Console Output](#)
-  [View as plain text](#)
-  [Editar información de la ejecución](#)
-  [Delete build '#1'](#)
-  [Git Build Data](#)
-  [No Tags](#)



Salida de consola

```
Lanzada por el usuario luis\_angel
Running as SYSTEM
Ejecutando en el espacio de trabajo C:\Program Files (x86)\Jenkins\workspace\PrimaJenkins
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/l-AngelMoya/PrimaJenkins.git
> git.exe init C:\Program Files (x86)\Jenkins\workspace\PrimaJenkins # timeout=10
Fetching upstream changes from https://github.com/l-AngelMoya/PrimaJenkins.git
> git.exe --version # timeout=10
> git.exe fetch --tags --progress -- https://github.com/l-AngelMoya/PrimaJenkins.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/l-AngelMoya/PrimaJenkins.git # timeout=10
> git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/l-AngelMoya/PrimaJenkins.git # timeout=10
Fetching upstream changes from https://github.com/l-AngelMoya/PrimaJenkins.git
> git.exe fetch --tags --progress -- https://github.com/l-AngelMoya/PrimaJenkins.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
> git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10
Checking out Revision dd1ba926d6a3a399a4300eac215dba5eeb2a4ea2 (refs/remotes/origin/master)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f dd1ba926d6a3a399a4300eac215dba5eeb2a4ea2 # timeout=10
Commit message: "Prima"
First time build. Skipping changelog.
Finished: SUCCESS
```

I-AngelMoya / PrimaJenkins

Unwatch

1

Star

0

Fork

0

Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Options

Collaborators

Branches

Webhooks

Notifications

Integrations & services

Deploy keys

Secrets

Actions

Moderation

Interaction limits

Webhooks

Add webhook

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

✓ http://50109115.ngrok.io/github-webhook/ (push)

EditDelete

Seleccionar C:\Users\Angel\Downloads\ngrok-stable-windows-amd64\ngrok.exe - ngrok http 8080

ngrok by @inconshreveable (Ctrl+C to quit)

Session Statusonline

Session Expires7 hours, 57 minutes

Version2.3.35

RegionUnited States (us)

Web Interfacehttp://127.0.0.1:4040

Forwardinghttp://50109115.ngrok.io -> http://localhost:8080

Forwardinghttps://50109115.ngrok.io -> http://localhost:8080

Connections

ttl opn rt1 rt5 p50 p90

1 0 0.01 0.00 1.06 1.06

HTTP Requests

POST /github-webhook/ 200 OK

3. Evidencias de haber logrado que cada vez que se produce un cambio en el repositorio Github entonces Jenkins se dispara automáticamente.

Jenkins

búsqueda

luis angel

Jenkins > PrimaJenkins >

Volver al Panel de Control

Estado Actual

Cambios

Zona de Trabajo

Construir ahora

Borrar Proyecto

Configurar

GitHub Hook Log

Rename

Historia de tareas

Tendencia

find X

#6

(pending—En el periodo de gracia. Termina en 2,3 Seg)

#5

19-dic-2019 0:47

#3

18-dic-2019 22:35

#2

18-dic-2019 22:35

#1

18-dic-2019 21:40

Atom feed Para Todos

Atom feed para los errores

Proyecto PrimaJenkins

C:\Windows\System32\cmd.exe

Microsoft Windows [Versión 10.0.18362.476]
(c) 2019 Microsoft Corporation. Todos los derechos reservados.

C:\Users\Angel\Desktop\PrimaJenkins>git add .
warning: LF will be replaced by CRLF in CalculadoraPrima/bin/main/.gitignore.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in CalculadoraPrima/bin/test/.gitignore.
The file will have its original line endings in your working directory

C:\Users\Angel\Desktop\PrimaJenkins>git commit -m "Prueba de lanzamiento de jenkins"
[master f14068e] Prueba de lanzamiento de jenkins
5 files changed, 5 insertions(+), 2 deletions(-)
create mode 100644 CalculadoraPrima/bin/main/.gitignore
create mode 100644 CalculadoraPrima/bin/test/.gitignore

C:\Users\Angel\Desktop\PrimaJenkins>git push
Enumerating objects: 26, done.
Counting objects: 100% (26/26), done.
Delta compression using up to 12 threads
Compressing objects: 100% (10/10), done.
Writing objects: 100% (15/15), 1.17 KiB | 597.00 KiB/s, done.
Total 15 (delta 4), reused 0 (delta 0)
remote: Resolving deltas: 100% (4/4), completed with 4 local objects.
To https://github.com/I-AngelMoya/PrimaJenkins.git
d1ba92..f14068e master -> master

C:\Users\Angel\Desktop\PrimaJenkins>

Salida de consola

```
Started by GitHub push by l-AngelMoya
Running as SYSTEM
Ejecutando en el espacio de trabajo C:\Program Files (x86)\Jenkins\workspace\PrimaJenkins
No credentials specified
> C:\Program Files\Git\bin\git.exe rev-parse --is-inside-work-tree # timeout=10
Fetching changes from the remote Git repository
> C:\Program Files\Git\bin\git.exe config remote.origin.url https://github.com/l-AngelMoya/PrimaJenkins.git # timeout=10
Fetching upstream changes from https://github.com/l-AngelMoya/PrimaJenkins.git
> C:\Program Files\Git\bin\git.exe --version # timeout=10
> C:\Program Files\Git\bin\git.exe fetch --tags --progress -- https://github.com/l-AngelMoya/PrimaJenkins.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
> C:\Program Files\Git\bin\git.exe rev-parse "refs/remotes/origin/origin/master^{commit}" # timeout=10
Checking out Revision f14068e38729fa2afdce41576824863b163db48f (refs/remotes/origin/master)
> C:\Program Files\Git\bin\git.exe config core.sparsecheckout # timeout=10
> C:\Program Files\Git\bin\git.exe checkout -f f14068e38729fa2afdce41576824863b163db48f # timeout=10
Commit message: "Prueba de lanzamiento de jenkins"
> C:\Program Files\Git\bin\git.exe rev-list --no-walk dd1ba926d6a3a399a4300eac215dba5eeb2a4ea2 # timeout=10
Finished: SUCCESS
```

4. Link del Repositorio GitHub

<https://github.com/l-AngelMoya/PrimaJenkins.git>

5. Bibliografía

- [1] guru99, «guru99,» [En línea]. Available: <https://www.guru99.com/create-builds-jenkins-freestyle-project.html>.
- [2] guides.gradle, «guides.gradle,» [En línea]. Available: <https://guides.gradle.org/executing-gradle-builds-on-jenkins/>.
- [3] P. Dixit, «medium,» medium, [En línea]. Available: <https://medium.com/faun/triggering-jenkins-build-on-push-using-github-webhooks-52d4361542d4>. [Último acceso: 19 Diciembre 2019].
- [4] ngrok, «ngrok,» [En línea]. Available: <https://ngrok.com/docs>. [Último acceso: 19 Diciembre 2019].