



Integración continua:

La **integración continua** es una práctica de desarrollo de software mediante la cual los desarrolladores combinan los cambios en el código en un repositorio central de forma periódica, tras lo cual se ejecutan versiones y pruebas automáticas.

Para adoptar la integración continua, **deberás ejecutar tus pruebas cada vez que se envíe un cambio a la rama principal**. Para ello, deberás contar con un servicio que pueda supervisar tu repositorio y que esté atento a los nuevos envíos al código base. Hay muchas soluciones para elegir, tanto locales como en la nube.

Jenkins:

\$ curl -sSL

<https://raw.githubusercontent.com/bitnami/containers/main/bitnami/jenkins/docker-compose.yml> >

docker-compose.yml

\$ docker-compose up -d

```
1 version: '2'
2 services:
3   master:
4     build: .
5     image: aprenderdevops/jenkins:latest
6     restart: unless-stopped
7     hostname: jenkins
8     ports:
9       - "8080:8080"
10      - "50000:50000"
11     volumes:
12       - jenkins_home:/var/jenkins_home
13
14 volumes:
15   jenkins_home:
```

```

estudiante@DAW1:~/Pictures/jenkin$ curl -sSL https://raw.githubusercontent.com/bitnami/containers/main/bitnami/jenkins/docker-compose.yml > docker-compose.yml
estudiante@DAW1:~/Pictures/jenkin$ docker-compose up
Creating volume "jenkin_jenkins_data" with local driver
Pulling jenkins (docker.io/bitnami/jenkins:2)...
2: Pulling from bitnami/jenkins
5abaa98846c4: Downloading [>
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5abaa98846c4: Pull complete
Digest: sha256:4c13d9105953490a3aee4a01f589b383b3925bb2c8426a4b2dc35731c6913129

```

```

Activities Terminal Feb 7 10:20
estudiante@DAW1: ~/Pictures/jenkin

$, ^SSL_.*$, ^*_NULL_.*$, ^*_anon_.*$]
jenkins_1 | 2023-02-07 09:19:41.722+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: jetty-10.0.12; built: 2022-09-14T01:54:40.076Z; git: 408d0139887e27a57b54ed52e2d92a36731a7e88; jvm 11.0.18+10-LTS
jenkins_1 | 2023-02-07 09:19:42.395+0000 [id=1] INFO o.e.j.w.StandardDescriptorProcessor#visitServlet: NO JSP Support for /, did not find org.eclipse.jetty.jsp.JettyJspServlet
jenkins_1 | 2023-02-07 09:19:42.572+0000 [id=1] INFO o.e.j.s.DefaultSessionIdManager#doStart: Session workerName=node0
jenkins_1 | 2023-02-07 09:19:43.354+0000 [id=1] INFO hudson.WebAppMain#contextInitialized: Jenkins home directory: /bitnami/jenkins/home found at: EnvVars.masterEnvVars.get("JENKINS_HOME")
jenkins_1 | 2023-02-07 09:19:43.628+0000 [id=1] INFO o.e.j.s.handler.ContextHandler#doStart: Started w.@6d91790b{Jenkins v2.375.2,/file:///bitnami/jenkins/home/war/,AVAILABLE}{/bitnami/jenkins/home/war}
jenkins_1 | 2023-02-07 09:19:43.667+0000 [id=1] INFO o.e.j.server.AbstractConnector#doStart: Started ServerConnector@6a2f6f80{HTTP/1.1, (http/1.1)}{0.0.0.0:8080}
jenkins_1 | 2023-02-07 09:19:43.684+0000 [id=1] INFO o.e.j.util.ssl.SslContextFactory#load: x509=X509@bdecc21(,h=[],a=[],w=[]) for Server@52a36910[provider=null,keyStore=null,trustStore=null]
jenkins_1 | 2023-02-07 09:19:43.929+0000 [id=1] INFO o.e.j.server.AbstractConnector#doStart: Started ServerConnector@18d87d80{SSL, (ssl, http/1.1)}{0.0.0.0:8443}
jenkins_1 | 2023-02-07 09:19:43.946+0000 [id=1] INFO org.eclipse.jetty.server.Server#doStart: Started Server@5ba3f27a{STARTING}[10.0.12,sto=0] @3303ms
jenkins_1 | 2023-02-07 09:19:43.951+0000 [id=26] INFO winstone.Logger#logInternal: Winstone Servlet Engine running: controlPort=disabled
jenkins_1 | 2023-02-07 09:19:44.215+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Started initialization
jenkins_1 | 2023-02-07 09:19:44.274+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: Listed all plugins
jenkins_1 | 2023-02-07 09:19:46.060+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: Prepared all plugins
jenkins_1 | 2023-02-07 09:19:46.085+0000 [id=32] INFO jenkins.InitReactorRunner$1#onAttained: Started all plugins
jenkins_1 | 2023-02-07 09:19:46.094+0000 [id=34] INFO jenkins.InitReactorRunner$1#onAttained: Augmented all extensions
jenkins_1 | 2023-02-07 09:19:46.624+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: System config loaded
jenkins_1 | 2023-02-07 09:19:46.625+0000 [id=33] INFO jenkins.InitReactorRunner$1#onAttained: System config adapted
jenkins_1 | 2023-02-07 09:19:46.625+0000 [id=31] INFO jenkins.InitReactorRunner$1#onAttained: Loaded all jobs
jenkins_1 | 2023-02-07 09:19:46.633+0000 [id=32] INFO jenkins.InitReactorRunner$1#onAttained: Configuration for all jobs updated
jenkins_1 | WARNING: An illegal reflective access operation has occurred
jenkins_1 | WARNING: Illegal reflective access by org.codehaus.groovy.vmplugin.v7.Java7$1 (file:/bitnami/jenkins/home/war/WEB-INF/lib/groovy-all-2.4.21.jar) to constructor java.lang.invoke.MethodHandles$Lookup(java.lang.Class,int)
jenkins_1 | WARNING: Please consider reporting this to the maintainers of org.codehaus.groovy.vmplugin.v7.Java7$1
jenkins_1 | WARNING: Use --illegal-access=warn to enable warnings of further illegal reflective access operations
jenkins_1 | WARNING: All illegal access operations will be denied in a future release
jenkins_1 | 2023-02-07 09:19:46.941+0000 [id=34] INFO jenkins.InitReactorRunner$1#onAttained: Completed initialization
jenkins_1 | 2023-02-07 09:19:46.954+0000 [id=23] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running

```

