





 Python Testing Cookbook.

 **PREV**
Configuring Jenkins to run Python tests upon commit



NEXT 
How to do it...

Getting ready

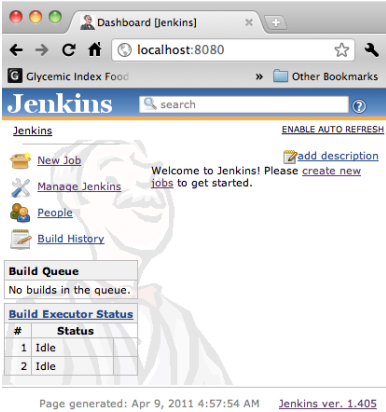
- 1. Download Jenkins from <http://mirrors.jenkins-ci.org/latest/jenkins.war>.

```
war" (http://mirrors.jenkins-ci.org/latest/jenkins.war)
(gtc)gturquid@bbp:~$ curl http://mirrors.jenkins-ci.org/latest/jenkins.war
2018-04-08 04:45:35* http://mirrors.jenkins-ci.org/latest/jenkins.war
Resolving mirrors.jenkins-ci.org (mirrors.jenkins-ci.org)... 63.246.28.95
Connecting to mirrors.jenkins-ci.org (mirrors.jenkins-ci.org)[63.246.28.95]:80... connected.
HTTP request sent, waiting response... 302 Found
Location: http://ftp-myc.ssausa1.org/pub/jenkins/var/1.405/jenkins.war [following]
2018-04-09 04:45:35* http://ftp-myc.ssausa1.org/pub/jenkins/var/1.405/jenkins.war
Resolving ftp-myc.ssausa1.org (ftp-myc.ssausa1.org)... 64.50.233.186
Connecting to ftp-myc.ssausa1.org (ftp-myc.ssausa1.org)[64.50.233.186]:80... connected.
HTTP request sent, waiting response... 200 OK
Length: 3624204 (3.7M) [text/plain]
Saving to: "jenkins.war"
```

- 2. Start it up by running `java -jar jenkins.war`. It's important that no other applications are listening on port 8080:

```
(ptc)gturquist-mbp:Downloads gturquist$ java -jar jenkins.war
Running from: /Users/gturquist/Downloads/jenkins.war
Webroot: $user.home/.jenkins
(Winstone 2011/04/09 04:54:02) - Beginning extraction from war file
Hudson home directory: /Users/gturquist/.jenkins found at: $user.home
Apr 9, 2011 4:54:06 AM hudson.util.CharacterEncodingFilter init
INFO: CharacterEncodingFilter initialized. DISABLE_FILTER: false FOR:
(Winstone 2011/04/09 04:54:06) - HTTP Listener started: port=8080
(Winstone 2011/04/09 04:54:06) - AJP13 Listener started: port=8009
Using one-time self-signed certificate
(Winstone 2011/04/09 04:54:06) - Winstone Servlet Engine v0.9.10 running
Apr 9, 2011 4:54:06 AM hudson.model.Hudson$5 onAttained
INFO: Started initialization
Apr 9, 2011 4:54:08 AM hudson.model.Hudson$5 onAttained
INFO: Listed all plugins
Apr 9, 2011 4:54:08 AM hudson.model.Hudson$5 onAttained
INFO: Prepared all plugins
Apr 9, 2011 4:54:08 AM hudson.model.Hudson$5 onAttained
INFO: Started all plugins
Apr 9, 2011 4:54:08 AM hudson.model.Hudson$5 onAttained
INFO: Augmented all extensions
Apr 9, 2011 4:54:08 AM hudson.model.Hudson$5 onAttained
INFO: Loaded all jobs
Apr 9, 2011 4:54:09 AM hudson.model.Hudson$5 onAttained
INFO: Completed initialization
Apr 9, 2011 4:54:09 AM hudson.TcpSlaveAgentListener <init>
INFO: JNLP slave agent listener started on TCP port 56937
```

3. Open the console to confirm Jenkins is working:



- 4. Click on Manage Jenkins.
- 5. Click on Manage Plugins.
- 6. Click on the Available tab.
- 7. Find the Git Plugin and click the checkbox next to it.
- 8. At the bottom of the page, click on the Install button. Verify that the plugin has successfully installed.
- 9. Navigate back to the dashboard screen.
- 10. Shut down Jenkins and start it back up again.
- 11. Install Git source code control on your machine. You can visit <http://git-scm.com/> to find downloadable packages. It is also possible that your system may include package installation options like MacPorts or Homebrew for Macs, `yum` for Red Hat-based Linux distributions, and `apt-get` for Debian/Ubuntu systems.
- 12. Create an empty folder for this recipe:

```
gturnquist$ mkdir /tmp/recipe46
```

13. Initialize the folder for source code maintenance:

```
gturnquist$ git init /tmp/recipe46  
Initialized empty Git repository in /private/tmp/recipe46/.git
```

14. Copy the Shopping Cart application into the folder, add it, and commit the changes:

```
gturnquist$ cp cart.py /tmp/recipe46/  
gturnquist$ cd /tmp/recipe46/  
gturnquist$ git add cart.py  
  
gturnquist$ git commit -m "Added shopping cart application to  
[master (root-commit) 057d936] Added shopping cart applicatio  
1 files changed, 35 insertions(+), 0 deletions(-)  
create mode 100644 cart.py
```

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◀ PREV

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NEXT ▶

[How to do it...](#)