Fix the JenkinsAPI No valid crumb error

📅 June 7, 2017 (https://thepracticalsysadmin.com/fix-the-jenkinsapi-no-valid-crumb-error/)   👤 Josh Reichardt (https://thepracticalsysadmin.com/author/jmreicha/)   🗁 Jenkins (https://thepracticalsysadmin.com/category/jenkins/), Programming (https://thepracticalsysadmin.com/category/programming/), Python (https://thepracticalsysadmin.com/category/python/), Scripting (https://thepracticalsysadmin.com/category/scripting/), Security (https://thepracticalsysadmin.com/category/security/)

If you are working with the Python based JenkinsAPI library you might run into the **No valid crumb was included in the request** error. The error below will probably look familiar if you've run into this issue.

```
Traceback (most recent call last):
 File "myscript.py", line 47, in <module>
 deploy()
 File "myscript.py", line 24, in deploy
 jenkins.build_job('test')
 File "/usr/local/lib/python3.6/site-packages/jenkinsapi/jenkins.py", line 165, in bu
 self[jobname].invoke(build_params=params or {})
 File "/usr/local/lib/python3.6/site-packages/jenkinsapi/job.py", line 209, in invoke
 allow_redirects=False
 File "/usr/local/lib/python3.6/site-packages/jenkinsapi/utils/requester.py", line 14
 response.text.encode('UTF-8')
jenkinsapi.custom_exceptions.JenkinsAPIException: Operation failed. url=https://jenki
```

It is good practice to enable additional security in Jenkins by turning on the "Prevent Cross Site Forgery exploits" option in the security settings, so if you see this error it is a good thing. The below example shows this security feature in Jenkins.

(https://i0.wp.com/thepracticalsysadmin.com/wp-content/uploads/2017/06/Screen-Shot-2017-06-07-at-12.40.19-PM.png?ssl=1)

The Fix

This error threw me off at first, but it didn't take long to find a quick fix. There is a crumb_requester class in the jenkinsapi that you can use to create the crumbed auth token. You can use the following example as a guideline in your own code.

```
from jenkinsapi.jenkins import Jenkins
from jenkinsapi.utils.crumb_requester import CrumbRequester

JENKINS_USER = 'user'
JENKINS_PASS = 'pass'
JENKINS_URL = 'https://jenkins.example.com'

# We need to create a crumb for the request first
crumb=CrumbRequester(username=JENKINS_USER, password=JENKINS_PASS, baseurl=JENKINS_UR

# Now use the crumb to authenticate against Jenkins
jenkins = Jenkins(JENKINS_URL, username=JENKINS_USER, password=JENKINS_PASS, requeste

...
```

The code looks very similar to creating a normal Jenkins authentication object, the only difference being that we create and then pass in a crumb for the request, rather than just a username/password combination. Once the crumbed authentication object has been created, you can continue writing your Python code as you would normally. If you're interested in learning more about crumbs and CSRF you can find more here (https://en.wikipedia.org/wiki/Cross-site_request_forgery), or just Google for CSRF for more info.

This issue was slightly confusing/annoying, but I'd rather deal with an extra few lines of code and know that my Jenkins server is secure.

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Jason Goyer • 2 years ago

How can you use the crumb and also ssl_verify=false?

j = Jenkins('https://jenks:8443', requester=Requester('testaccount', '123455cc8761ea1265345063b6b8b5', baseurl='https://jenks:8443', ssl_verify=False))

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> **Jason Goyer** ➜ Jason Goyer • 2 years ago
>
> nevermind, figured it out:
>
> crumb=CrumbRequester(username=JENKINS_USER, password=JENKINS_PASS, baseurl=JENKINS_URL, ssl_verify=False)
>
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Chas Herren — Really good, but more precision in description would be better: "manage search engines" is where I had to go.

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jmreicha — Thanks for contributing and feel free to add anything else you find or are working on.

∧

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