Running jenkins jobs via command line

04/06/2017 - JENKINS

This example shows us how to trigger jenkins job/build via curl command in terminal. Step by step we will be building curl command below in order to trigger jenkins jobs from command line.

```
1. $ curl -X POST http://API_USER_ID:API_TOKEN@JENKINS_URL/job/JOB_NAME/build -H "CRUMB"
```

Info

The name of my job is `Football` . I would also suggest you to create a dedicated jenkins user and password rather than using `admin:admin` as I'll use in this example. My jenkins GUI URL is `http://192.168.99.20:8080` as I am on vagrant.

Create job

1. Login to jenkins in `http://192.168.99.20:8080` address.

2. Create a "Free Style" project named as "Football".

3. Open it's configuration.

4. Go to "Build Triggers" section.

5. Tick "Trigger builds remotely (e.g., from scripts)" option just to take a note of the text written in there and untick it again. Text reads `Use the following URL to trigger build remotely: JENKINS_URL/job/Football/build?token=TOKEN_NAME or /buildWithParameters?token=TOKEN_NAME. Optionally append &cause=Cause+Text to provide text that will be included in the recorded build cause.` .

6. Save and exit.

Get API user and token

1. Login to jenkins in `http://192.168.99.20:8080` address.

2. Click your username (mine is `admin`) on right hand side of the page.

3. Select "Configure" option which will take you to `http://192.168.99.20:8080/user/admin/configure` page.

4. In "API Token" section click "Show API token" button.

5. Note "User ID" and "API Token" to use in your curl command later on. e.g. `admin:85703fb68927f04968630e192e4927cb`
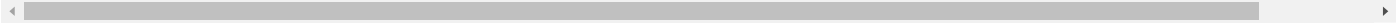
Obtain crumb

For more information, visit Remote access API (https://wiki.jenkins-ci.org/display/JENKINS/Remote+access+API) page.

```
1. $ wget -q --auth-no-challenge --user admin --password admin --output-document - 'http://192.168.99.20:8080/crumbIssuer/api/xml?xpath=concat(
```

This will give you something like `Jenkins-Crumb:44e7033af70da95a47403c3bed5c10f8` . Without crumb information, running curl command will result in example errors such as `HTTP/1.1 403 Forbidden` or `Error 403 No valid crumb was included in the request` .

Test

```
1. $ curl -I -X POST http://admin:85703fb68927f04968630e192e4927cb@192.168.99.20:8080/job/Football/build -H "Jenkins-Crumb:44e7033af70da95a474
2. HTTP/1.1 201 Created
3. Date: Fri, 02 Jun 2017 06:17:51 GMT
4. X-Content-Type-Options: nosniff
5. Location: http://192.168.99.20:8080/queue/item/17/
6. Content-Length: 0
7. Server: Jetty(9.2.z-SNAPSHOT)
```

Note: You can remove `-I` flag if you don't want output.   2/2