

# Jenkins Api Token

Jenkins API token is used to access Jenkins remotely.

This API Token is a Jenkins generated code that allow you to use the HTTP BASIC authentication in order to make operations using CLI or REST calls to the Jenkins API.

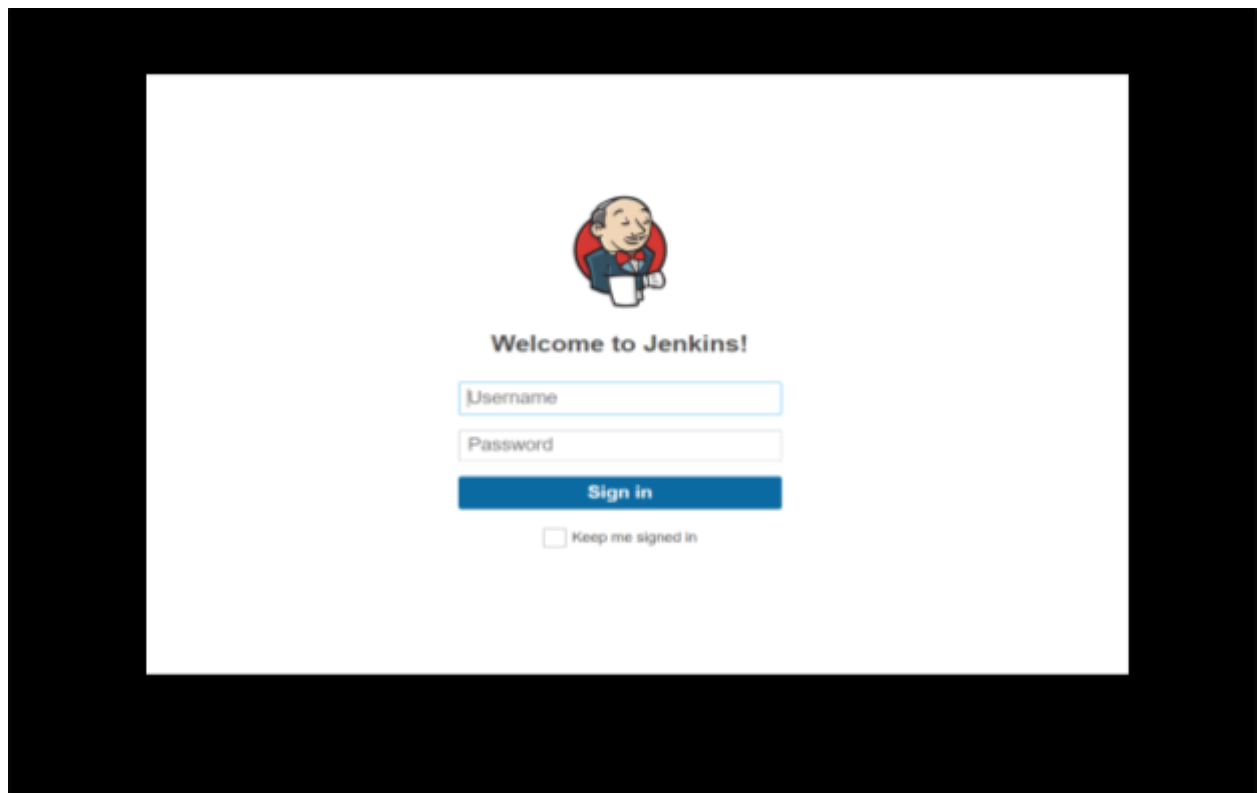
There is Two way to generate Jenkins API token

1. Jenkins UI
2. Programmatically

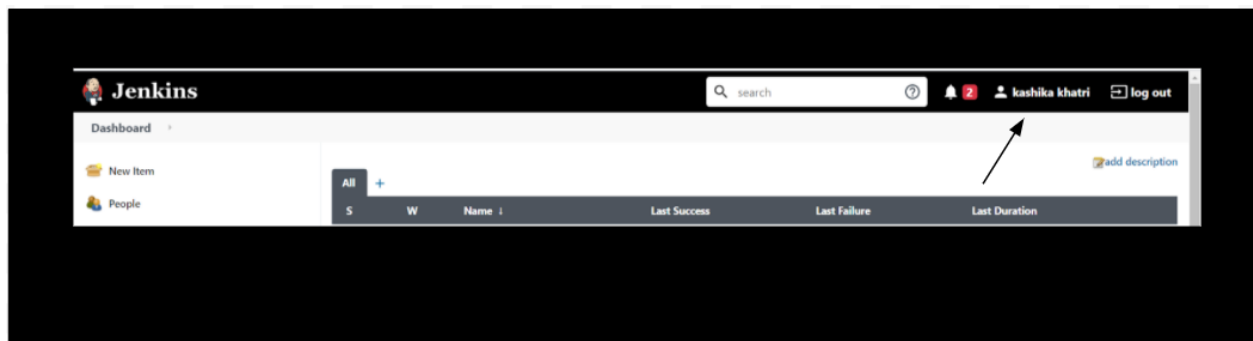
## ***1.Creating token using Jenkins API***

Steps to follow for Generate a Jenkins API token using Jenkins UI:

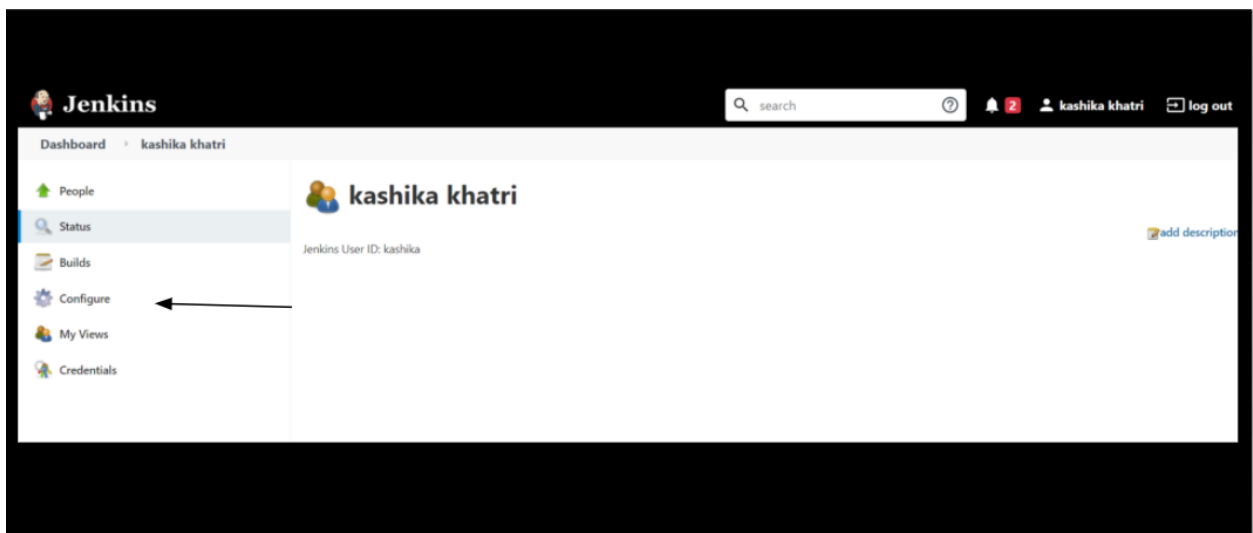
**Step 1:** Login into Jenkins instance with username and password.



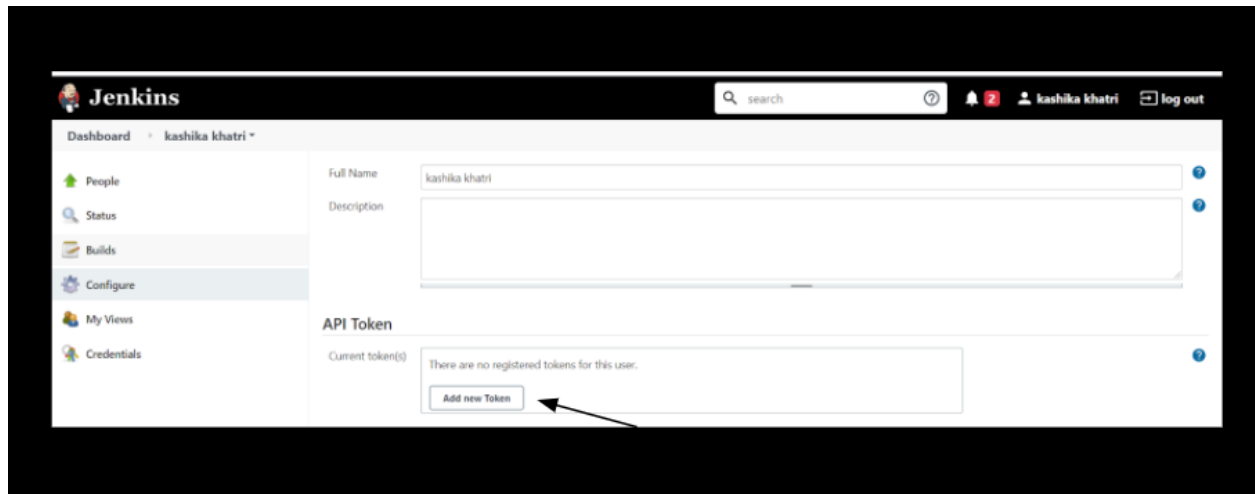
**Step2:-** Click on User name to open the user profile page.



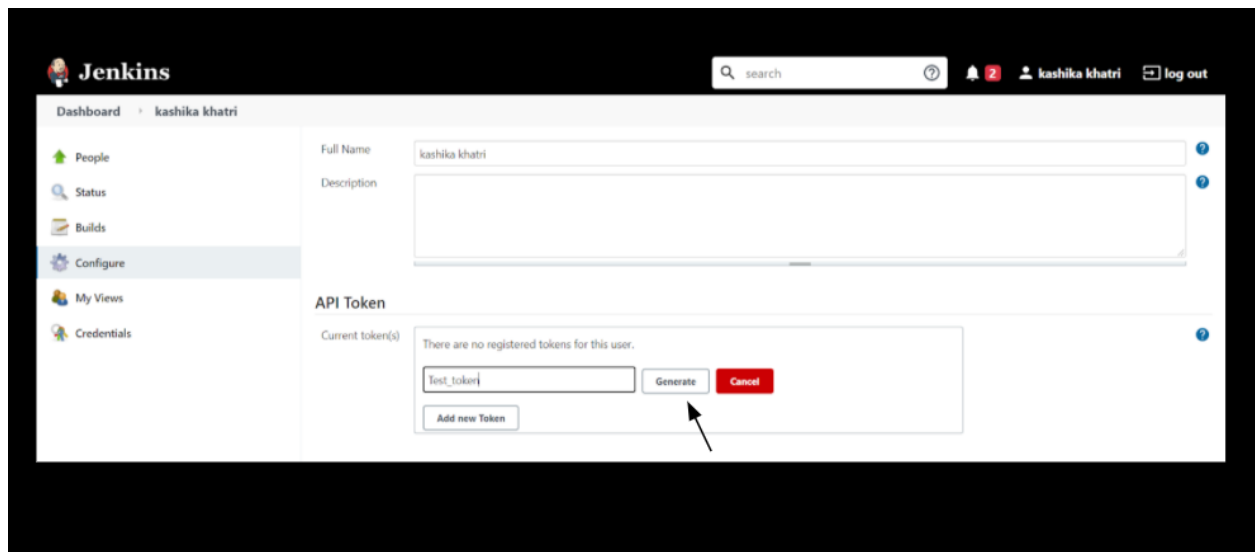
**Step3:-** Click on Configure to open the user configuration page.



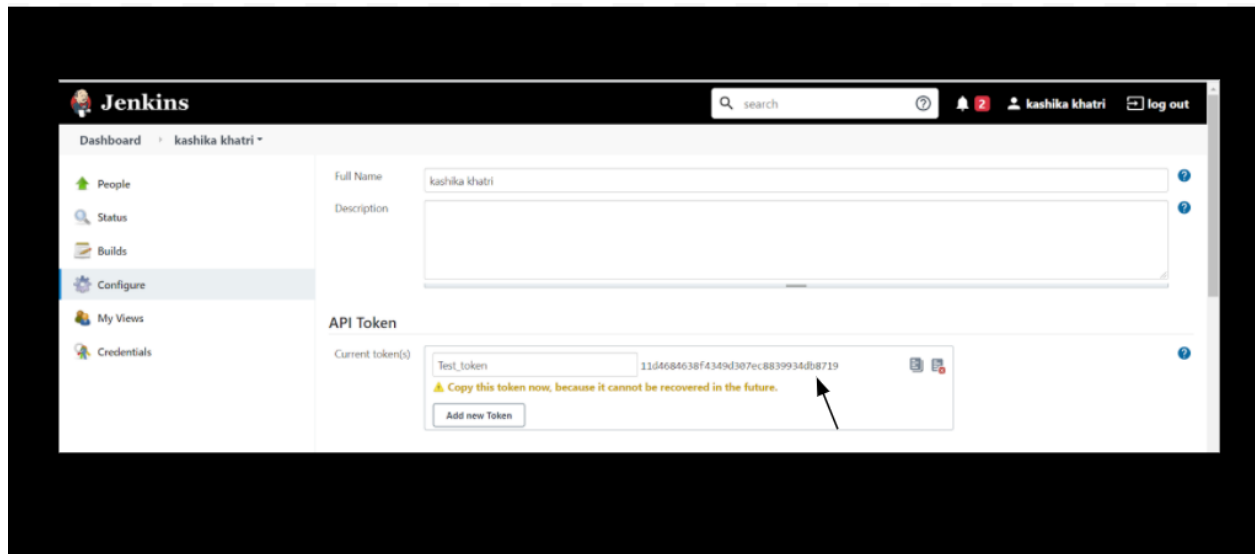
**Step 4:-**Click on the “add API token” button in API token section.



**Step 5:-**Give the token name and click on the “Generate” button.



**Step6:-**Retrieve the token. It won't be displayed again so if you lose it you will have to delete it and recreate it.



## 2. Programmatically creating a API token

### a. Using Groovy

- As a Jenkins administrator, creation a token for any user from the Groovy Console:

```
import hudson.model.*
import jenkins.model.*
import jenkins.security.*
import jenkins.security.apitoken.*

// script parameters
def userName = 'User_name'
def tokenName = 'API_Token_Name'

def user = User.get(userName, false)
def apiTokenProperty =
user.getProperty(ApiTokenProperty.class)
def result =
apiTokenProperty.tokenStore.generateNewToken(tokenName
)
user.save()

return result.plainValue
```

The return of the script will be the token.

## b. Using the RestAPI

- To create an API token through the REST API, first create a crumb token and a session cookie.

```
CRUMB=$(curl  
<jenkinsURL>/crumbIssuer/api/xml?xpath=concat(//crumbRequestFi  
eld,%22:%22,//crumb\) \  
-c cookies.txt \  
--user '<username>:<password>')
```

- create a token with the command:

```
curl  
'<jenkinsURL>/user/admin/descriptorByName/jenkins.security.  
ApiTokenProperty/generateNewToken' \  
--data 'newTokenName=kb-token' \  
--user '<username>:<password>' \  
-b cookies.txt
```

- The return of the call will contain a JSON with the token:

```
{"status":"ok","data":{"tokenName":"kb-token","tokenUuid":"8c  
42630b-4be5-4f51-b4e9-f17a8ac07521","tokenValue":"112fe6  
e9b1b94eb1ee58f0ea4f5a1ac7bf"}}
```

- The user running this command should have Administrator rights.