

## ## Jenkins CLI

Jenkins has a built-in **command line interface (CLI)** that allows users and administrators to access Jenkins from a script or shell environment.

This can be convenient for scripting of routine tasks, bulk updates, troubleshooting, and more.

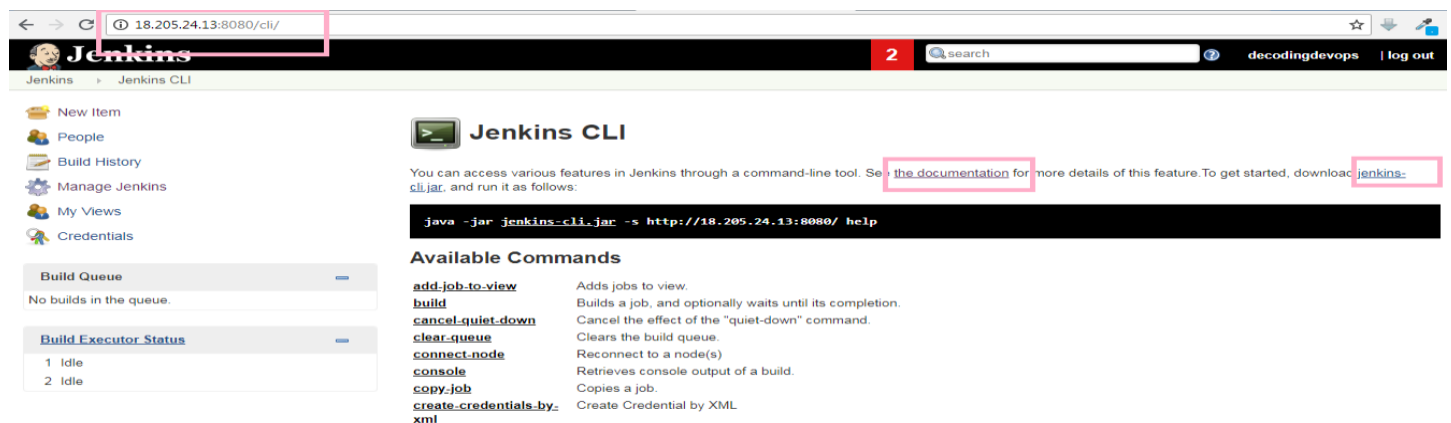
We can do all the things from Jenkins GUI, but Jenkins CLI is also easier and faster and you **can access Jenkins from remote machine** by using Jenkins CLI commands.

## ## Jenkins CLI Configuration

Go to **manage Jenkins** → go to **Jenkins cli** you will get **Jenkins cli commands window**

or in browser **<your Jenkins URL>/cli** and enter it will take you to Jenkins cli window

**example:** `http://18.205.24.13:8080/cli/`



in this window you can see **jenkins-cli.jar**, we will need to download this jar file wherever we want to run the Jenkins CLI commands.

## ### access Jenkins cli commands from Linux

to run the Jenkins cli command in Linux machine, you need to install java in your Linux machine.

### ### Install Java

#### On Ubuntu Linux OS

```
sudo add-apt-repository ppa:openjdk-r/ppa
sudo apt-get update
sudo apt-get install -y openjdk-8-jdk
```

download **jenkins-cli.jar** file from the Jenkins UI as shown above

**Jenkins CLI**

You can access various features in Jenkins through a command-line tool. See [the documentation](#) for more details of this feature. To get started, download [jenkins-cli.jar](#)

```
java -jar jenkins-cli.jar -s http://10.128.0.17:8080/ -webSocket help
```

**Available Commands**

Name	Description
<a href="#">add-job-to-view</a>	Adds jobs to view.
<a href="#">build</a>	Builds a job, and optionally waits until its completion.
<a href="#">cancel-quiet-down</a>	Cancel the effect of the "quiet-down" command.
<a href="#">clear-queue</a>	Clears the build queue.
<a href="#">connect-node</a>	Reconnect to a node(s)
<a href="#">console</a>	Retrieves console output of a build.
<a href="#">copy-job</a>	Copies a job.
<a href="#">create-credentials-by-xml</a>	Create Credential by XML
<a href="#">create-credentials-domain-by-xml</a>	Create Credentials Domain by XML
<a href="#">create-job</a>	Creates a new job by reading stdin as a configuration XML file.

To download use below command

wget http://<**Jenkins-URL**>/jnlpJars/jenkins-cli.jar

```
nareshwar@mbpro ~ %  
nareshwar@mbpro ~ % mkdir apps  
nareshwar@mbpro ~ % cd apps  
nareshwar@mbpro apps % ls -l  
total 0  
nareshwar@mbpro apps % wget http://34.123.116.47:8080/jnlpJars/jenkins-cli.jar  
--2022-06-03 17:26:01-- http://34.123.116.47:8080/jnlpJars/jenkins-cli.jar  
Connecting to 34.123.116.47:8080... connected.  
HTTP request sent, awaiting response... 200 OK  
Length: 3568879 (3.4M) [application/java-archive]  
Saving to: 'jenkins-cli.jar'  
  
jenkins-cli.jar          18%[=====>] 645.90K  53.0KB/s   in 12s  
  
2022-06-03 17:26:14 (53.0 KB/s) - Connection closed at byte 661406. Retrying.  
  
--2022-06-03 17:26:15-- (try: 2) http://34.123.116.47:8080/jnlpJars/jenkins-cli.jar  
Connecting to 34.123.116.47:8080... connected.  
HTTP request sent, awaiting response... 206 Partial Content  
Length: 3568879 (3.4M), 2907473 (2.8M) remaining [application/java-archive]  
Saving to: 'jenkins-cli.jar'  
  
jenkins-cli.jar          100%[+++++>] 3.40M  545KB/s   in 6.2s  
  
2022-06-03 17:26:22 (458 KB/s) - 'jenkins-cli.jar' saved [3568879/3568879]  
  
nareshwar@mbpro apps % ls -l  
total 8200  
-rw-r--r-- 1 nareshwar  staff  3568879 May 26 14:24 jenkins-cli.jar  
nareshwar@mbpro apps %
```

go to the location where you downloaded the jenkins-cli.jar file and execute below Jenkins cli commands as below

### # To List All Jenkins Jobs

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password list-jobs
```

In the above command

http://18.205.24.13:8080/ → is my Jenkins URL or path.

admin → is my username

password → is my password

ensure to replace your Jenkins Login Credential accordingly

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth username:password
```

### # To List all Jenkins CLI Commands

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password
```

### # Run Jenkins Jobs from Command line

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password build jobname
```

### # See the Console output after executing Job

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password build jobname -s -v
```

### # Run Jenkins job from command line with parameters

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password build jobname -p name=value
```

### # Jenkins safe-restart

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password safe-restart
```

### # to know about particular command

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password help build
```

## # To Copy a Job

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password copy-job SRC DEST
```

SRC: name of the job to copy

DEST: name of the new job to be created

## # To Delete a Job

```
java -jar jenkins-cli.jar -s http://18.205.24.13:8080/ -auth admin:password delete-job test
```