

Jenkins CLI

To set up the Jenkins CLI (Command Line Interface), follow these steps:

1. Download the Jenkins CLI JAR file from the Jenkins server. You can do this by navigating to **http://<jenkins-server>/jnlpJars/jenkins-cli.jar** in your web browser and saving the file to your computer.

```
..Dash_History
root@jenkinsserver:~# wget http://192.168.40.129:8080/jnlpJars/jenkins-cli.jar
--2023-05-09 17:11:14-- http://192.168.40.129:8080/jnlpJars/jenkins-cli.jar
Connecting to 192.168.40.129:8080... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3447531 (3.3M) [application/java-archive]
Saving to: 'jenkins-cli.jar'

jenkins-cli.jar          100%[=====]
2023-05-09 17:11:15 (25.0 MB/s) - 'jenkins-cli.jar' saved [3447531/3447531]

root@jenkinsserver:~# ls
```

2. Install Java on your computer, if it's not already installed.
3. Open a command prompt or terminal window on your computer.
4. Navigate to the directory where you saved the Jenkins CLI JAR file.
5. Test the CLI by running the following command:

```
java -jar jenkins-cli.jar -s <jenkins-url> help
```

Replace **<jenkins-url>** with the URL of your Jenkins server. This command should display the list of available Jenkins CLI commands.

```
root@jenkinsserver:~# java -jar jenkins-cli.jar -s http://192.168.40.129:8080 help

ERROR: You must authenticate to access this Jenkins.
Jenkins CLI
Usage: java -jar jenkins-cli.jar [-s URL] command [opts...] args...
Options:
  -s URL           : the server URL (defaults to the JENKINS_URL env var)
  -http           : use a plain CLI protocol over HTTP(S) (the default; mutually exclusive with -ssh)
  -websocket      : like -http but using WebSocket (works better with most reverse proxies)
  -ssh            : use SSH protocol (requires -user; SSH port must be open on server, and user must have registe:
public key)
  -i KEY          : SSH private key file used for authentication (for use with -ssh)
  -noCertificateCheck : bypass HTTPS certificate check entirely. Use with caution
  -noKeyAuth      : don't try to load the SSH authentication private key. Conflicts with -i
  -user           : specify user (for use with -ssh)
  -strictHostKey  : request strict host key checking (for use with -ssh)
  -logger FINE    : enable detailed logging from the client
  -auth [ USER:SECRET | @FILE ] : specify username and either password or API token (or load from them both from a fi:
                                for use with -http.
                                Passing credentials by file is recommended.
```

6. If the above step worked, then you can now use the Jenkins CLI to perform tasks on your Jenkins server. To run a command, use the following syntax:

```
java -jar jenkins-cli.jar -s <jenkins-url> <command>
```

```
java -jar jenkins-cli.jar -s http://192.168.40.129:8080 -auth admin:Welcome1 help
```

```
root@jenkinsserver:~# java -jar jenkins-cli.jar -s http://192.168.40.129:8080 -auth admin>Welcome1 help
add-job-to-view
  Adds jobs to view.
build
  Builds a job, and optionally waits until its completion.
cancel-quiet-down
  Cancel the effect of the "quiet-down" command.
clear-queue
  Clears the build queue.
connect-node
  Reconnect to a node(s)
console
  . . . . .
```

```
java -jar jenkins-cli.jar -s http://192.168.40.129:8080 -auth admin>Welcome1 list-jobs
```