

School of Computer Science

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
DEHRADUN, UTTARAKHAND**



**Continuous Integration and Continuous Delivery
Lab**

**Lab File
(2023-2024)**

for

5th Semester

Submitted To:

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B2- Devops (Non-Hons)

EXPERIMENT – 8

Aim: Remote Triggering of a Parameterized Build

1] Open manage Jenkins and install “Build with parameters” Plugin.


Plugins


Name	Enabled
Build With Parameters 76.v9382db_f78962 Allows the user to provide parameters for a build in the url (similar to /job/JOBNAME/buildWithParameters), prompting for confirmation before triggering the job. Report an issue with this plugin	<input checked="" type="checkbox"/>


2] Select the **Freestyle project** as the build job type.


Enter an item name


» Required field

**Freestyle project**
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.

**Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**External Job**
This type of job allows you to record the execution of a process run outside Jenkins, even on a remote machine. This is designed so that you can use Jenkins as a dashboard of your existing automation system.

**Multi-configuration project**
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific etc.

3] Configure as per Remote Triggering of a Parameterized Build.

☒ This project is parameterized ?

≡ String Parameter ?

Name ?

Default Value ?

Build Triggers

☒ Trigger builds remotely (e.g., from scripts) ?

Authentication Token

Use the following URL to trigger build remotely: JENKINS_URL/job/CICD-Lab-08/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.

Build Steps

≡ Execute Windows batch command ?

Command

See [the list of available environment variables](#)

```
java --version|
```

4] Configure Global Security.

Security Realm

☒ Allow users to sign up ?

⚠ With signup enabled, anyone on your network can become an authentic

Authorization

5] “curl -X GET <YourJenkinsJobUrl>/buildWithParameters?token=Sam”.Configure as per your URL and run it on Command Line.

```
C:\Users\kamdi>curl -X GET http://localhost:8080/job/CICD-Lab-08/buildWithParameters?token=sdk
C:\Users\kamdi>
```

6] Check the Console Output.

