EXPERIMENT – 8

Aim: Remote Triggering of a Parameterized Build

1. Open manage Jenkins and install the "Build with parameters" Plugin.

Plugins

Name ↓		Enabled
Q build with para	⊗	
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		

2. Select Freestyle project as the build job type.

Enter an item name

CICD-Lab-8

» 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.

OK

3. Configure it as per the Remote Triggering of a Parameterized Build.

✅ This project is parameterized ?

≡ **String Parameter** ?

Name ?

> My_Param

Default Value ?

> Devops

Build Triggers

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

Authentication Token

> sdk

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
```

Configure the Global Security.

Security Realm

> Jenkins' own user database

✅ Allow users to sign up ?

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

Authorization

> Anyone can do anything

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

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

5. Check the Output.

✅ **Console Output**

```
Started by remote host [0:0:0:0:0:0:0:1]
Running as SYSTEM
Building on the built-in node in workspace C:\ProgramData\Jenkins\.jenkins\workspace\CICD-Lab-08
[GitCheckoutListener] SCM 'hudson.scm.NullSCM' is not of type GitSCM
[CICD-Lab-08] $ cmd /c call C:\WINDOWS\TEMP\jenkins7700665781173499474.bat

C:\ProgramData\Jenkins\.jenkins\workspace\CICD-Lab-08>java --version
java 17.0.4 2022-07-19 LTS
Java(TM) SE Runtime Environment (build 17.0.4+11-LTS-179)
Java HotSpot(TM) 64-Bit Server VM (build 17.0.4+11-LTS-179, mixed mode, sharing)

C:\ProgramData\Jenkins\.jenkins\workspace\CICD-Lab-08>exit 0
Finished: SUCCESS
```