

Lab Exercise 9

Setting up Poll SCM Configuration in Jenkins

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Objective: To set up poll SCM configuration in Jenkins for automating build triggering and optimizing resource usage on Jenkins servers

Tools required: Jenkins

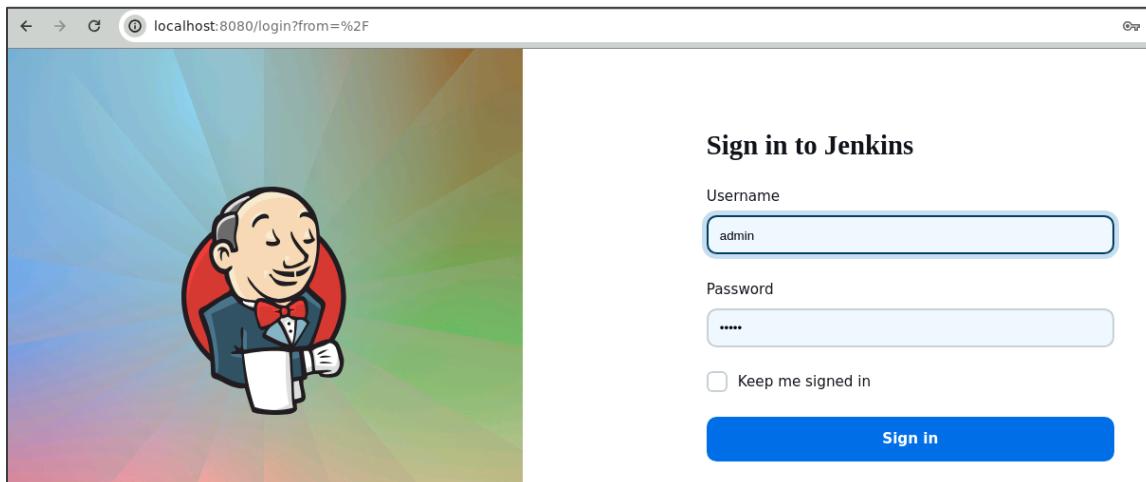
Prerequisites: You need to have a Jenkins up and running.

Steps to be followed:

1. Log in to the Jenkins CI tool and set up poll SCM configuration

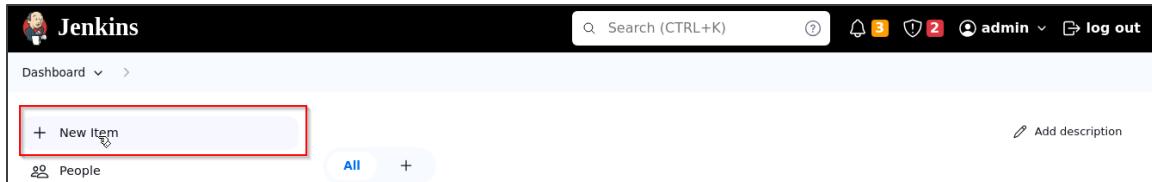
Step 1: Log in to the Jenkins CI tool and set up poll SCM configuration

1. Log in to Jenkins using the credentials

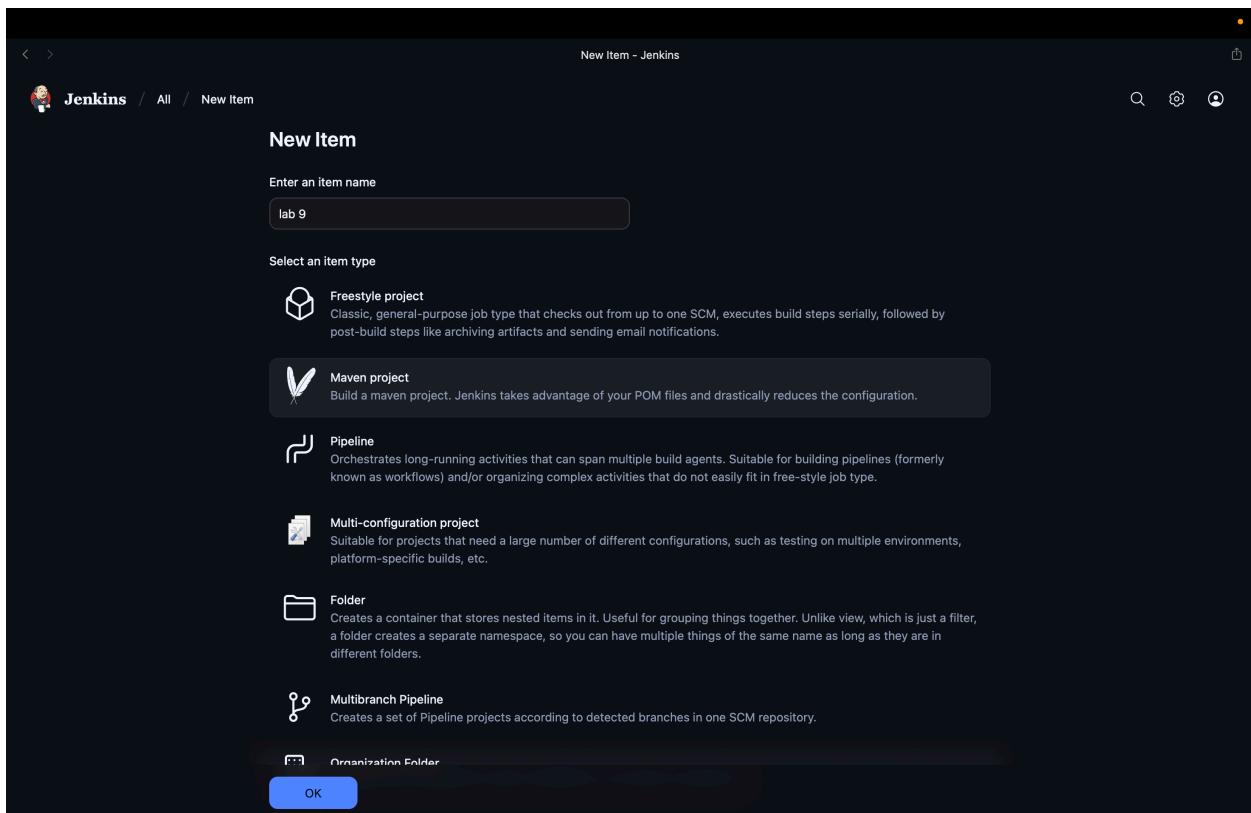


Note: The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

2. In the Jenkins dashboard, click on **New Item**

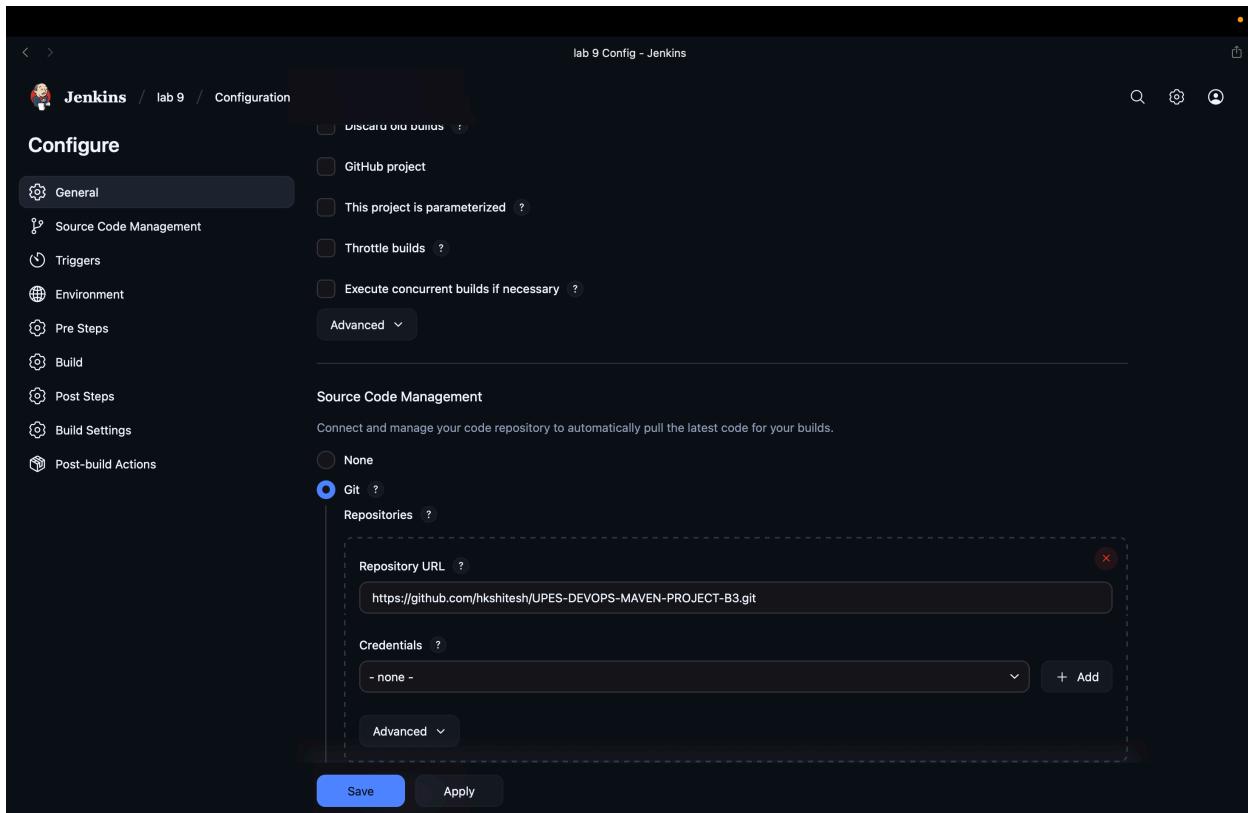


3. Select the **Maven Project** while creating a Jenkins job, provide a custom job name, and click on **OK**



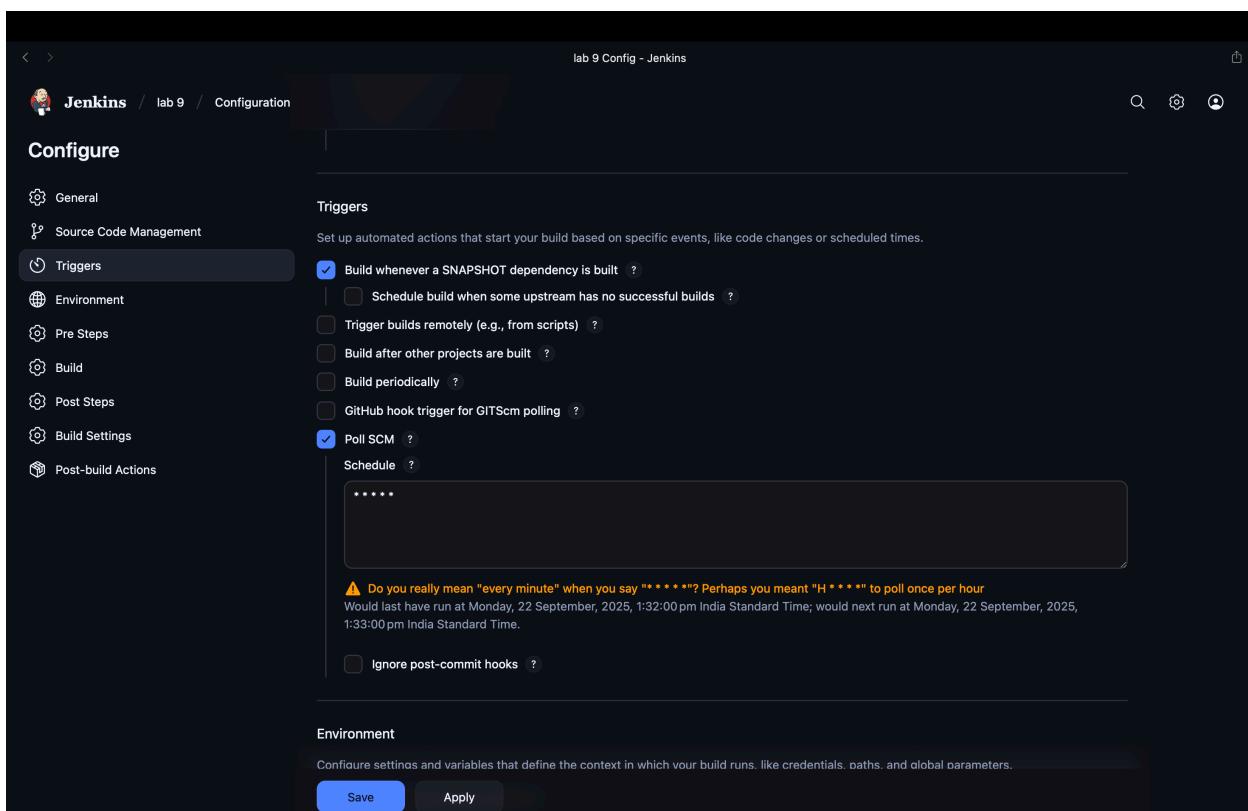
4. Now, in the Configure page, navigate to **Source Code Management** from the left navigation bar, select **Git**, and then provide the Git repository URL

Note: Here, the repository URL is <https://github.com/hkshitesh/UPES-DEVOPS-MAVEN-PROJECT-B3.git>



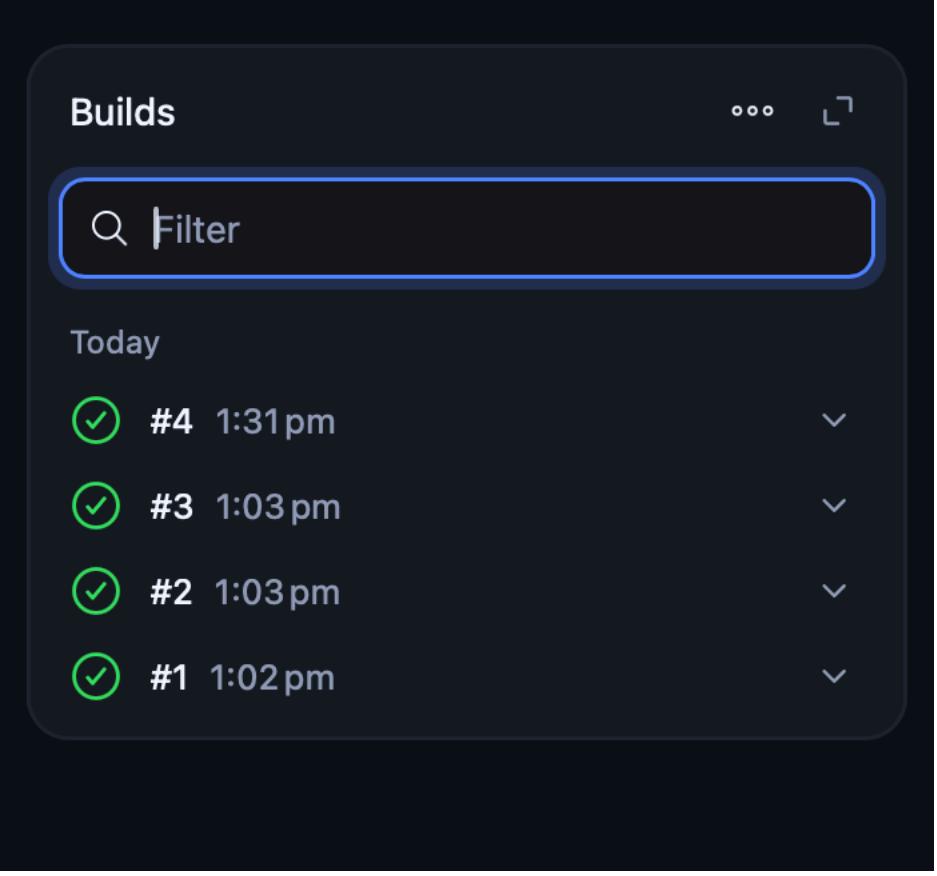
The screenshot shows the Jenkins configuration interface for a project named 'lab 9'. The 'Source Code Management' section is open, showing the 'Git' option selected. The 'Repository URL' is set to `https://github.com/hkshitesh/UPES-DEVOPS-MAVEN-PROJECT-B3.git`. The 'Credentials' dropdown is set to '- none -'. At the bottom, there are 'Save' and 'Apply' buttons.

5. Now, navigate to **Build Environment**, click on **Poll SCM**, provide **H/2****** under the **Schedule** section, and then click on **Save**



The screenshot shows the Jenkins configuration interface for a project named 'lab 9'. The 'Triggers' section is open, showing the 'Poll SCM' option selected. The 'Schedule' dropdown is set to 'H/2****'. A warning message at the bottom states: '⚠ Do you really mean "every minute" when you say "*****"? Perhaps you meant "H * * * *" to poll once per hour'. At the bottom, there are 'Save' and 'Apply' buttons.

6. Then, automatic build will be trigger within a minute, and you will be able to view the successful build in the **Console output** section.



The screenshot shows the Jenkins 'Builds' page with a dark theme. At the top, there is a 'Builds' header, a 'Filter' search bar with a magnifying glass icon, and three small icons. Below the header, the text 'Today' is displayed. A list of four builds is shown, each with a green circular icon containing a white checkmark and the build number followed by the timestamp. The builds are listed in descending order of time: #4 at 1:31pm, #3 at 1:03pm, #2 at 1:03pm, and #1 at 1:02pm. Each build entry has a downward-pointing arrow icon to its right.

Build	Timestamp
#4	1:31pm
#3	1:03pm
#2	1:03pm
#1	1:02pm

You can see that the build is configured successfully.

By following these steps, you have successfully set up poll SCM configuration in Jenkins for automating build triggering and optimizing resource usage on Jenkins servers.

lab 9 #4 Console - Jenkins

Jenkins / lab 9 / #4 / Console Output

```
[INFO] --- resources:3.3.1:testResources (default-testResources) @ upes.devops ---
[WARNING] Using platform encoding (UTF-8 actually) to copy filtered resources, i.e. build is platform dependent!
[INFO] skip non existing resourceDirectory /Users/pulkit/.jenkins/workspace/lab 9/src/test/resources
[INFO]
[INFO] --- compiler:3.13.0:testCompile (default-testCompile) @ upes.devops ---
[INFO] No sources to compile
[INFO]
[INFO] --- surefire:3.2.5:test (default-test) @ upes.devops ---
[INFO] No tests to run.
[JENKINS] Recording test results
[INFO]
[INFO] --- jar:3.1.0:jar (default-jar) @ upes.devops ---
[INFO]
[INFO] --- install:3.1.2:install (default-install) @ upes.devops ---
[INFO] Installing /Users/pulkit/.jenkins/workspace/lab 9/pom.xml to
/Users/pulkit/.m2/repository/upes/devops/upes.devops/0.0.1-SNAPSHOT/upes.devops-0.0.1-SNAPSHOT.pom
[INFO] Installing /Users/pulkit/.jenkins/workspace/lab 9/target/upes-calc.jar to
/Users/pulkit/.m2/repository/upes/devops/upes.devops/0.0.1-SNAPSHOT/upes.devops-0.0.1-SNAPSHOT.jar
[INFO]
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 0.704 s
[INFO] Finished at: 2025-09-22T13:31:59+05:30
[INFO] -----
Waiting for Jenkins to finish collecting data
[JENKINS] Archiving /Users/pulkit/.jenkins/workspace/lab 9/pom.xml to upes.devops/upes.devops/0.0.1-
SNAPSHOT/upes.devops-0.0.1-SNAPSHOT.pom
[JENKINS] Archiving /Users/pulkit/.jenkins/workspace/lab 9/target/upes-calc.jar to upes.devops/upes.devops/0.0.1-
SNAPSHOT/upes.devops-0.0.1-SNAPSHOT.jar
channel stopped
Finished: SUCCESS
```

REST API Jenkins 2.516.3