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Batch 3 – DevOps

Lab Exercise 8

Setting up Maven Build Job in Jenkins

Objective: To set up Maven build job in Jenkins for automating the build process, enabling continuous integration to enhance the software development lifecycle

Tools required: Jenkins

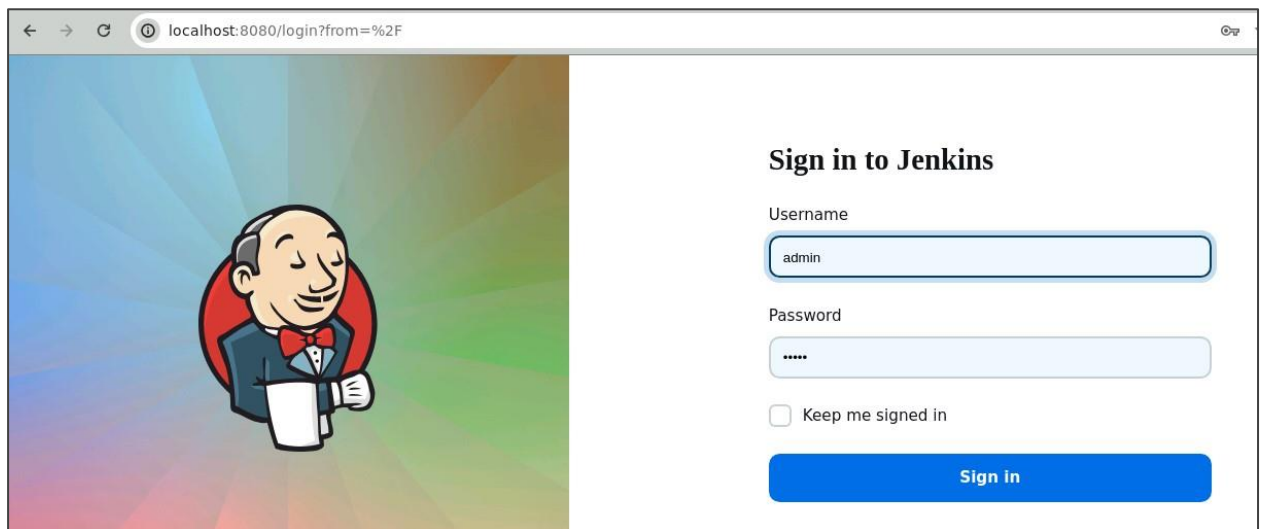
Prerequisites: You need to have a Jenkins up and running.

Steps to be followed:

1. Log in to Jenkins CI tool and configure Maven freestyle job

Step 1: Log in to Jenkins CI tool and configure Maven freestyle job

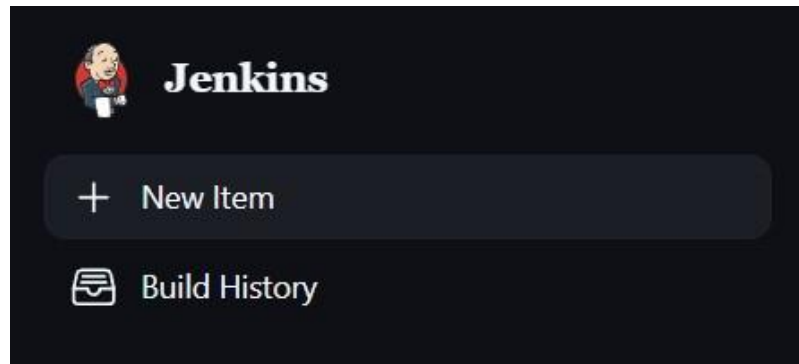
1.1 Log in to Jenkins using your credentials



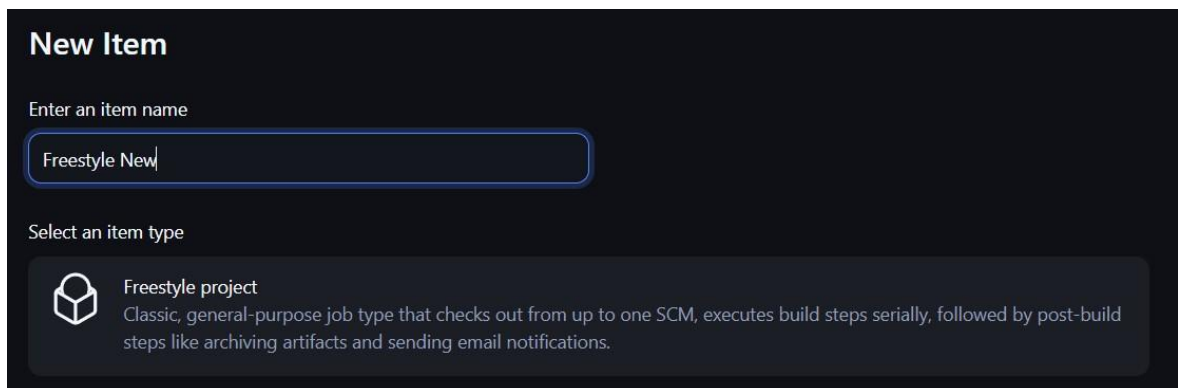
Note: The credentials for accessing Jenkins in the lab are Username: **admin** and

Password: **admin**.

1.2 In the Jenkins dashboard, click on **New Item**



1.3 Select the **Freestyle project** while creating a Jenkins job, provide a custom job name, and click on **OK**



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

Source Code Management

Connect and manage your code repository to automatically pull the latest code for your builds.

☐ None

☒ Git ?

Repositories ?

Repository URL ?

`https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO.git`

Credentials ?

- none -

+ Add

Advanced ▾

Note: Here, the repository URL is <https://github.com/hkshitesh/DEVSECOPS-MAVEN-REPO.git>.

1.5 Now, navigate to **Build Steps**, click on **Add build step**, and then select the option **Invoke top-level Maven targets**

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

Add build step ^

Filter

Execute Windows batch command

Execute shell

Invoke Ant

Invoke Gradle script

Invoke top-level Maven targets

Run with timeout

Set build status to "pending" on GitHub commit

... sending notifications, archiving artifacts, or triggering other jobs.

1.6 Provide clean install under **Goals** section and then click on **Save**

≡ Invoke top-level Maven targets ?

Maven Version

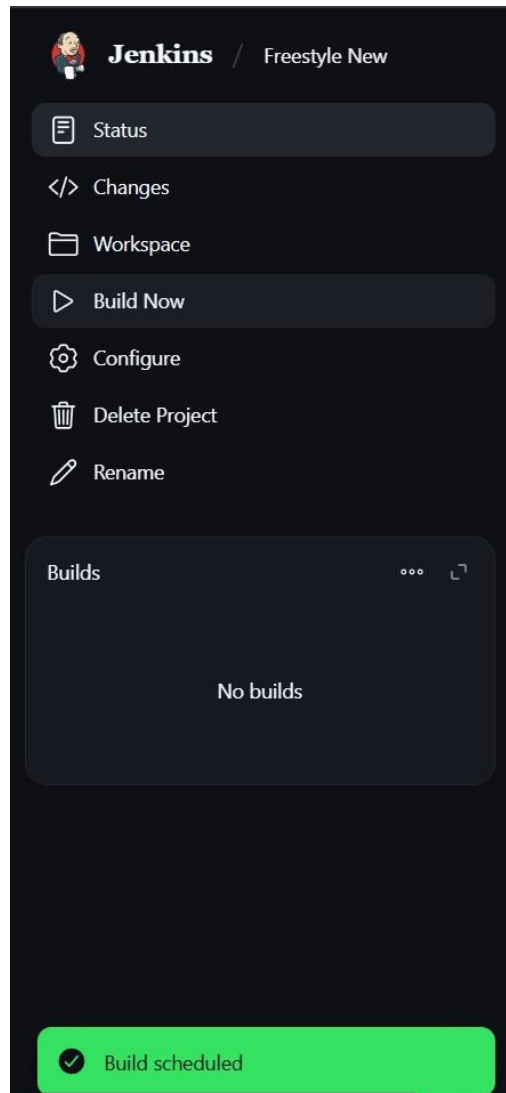
MAVEN_HOME

Goals

clean install

Advanced ▾

1.7 You will be navigated to the project after clicking on Save. Now, click on **Build Now** to initiate a new build, and the build logs will display the progress of the build process.



```
Downloaded from central: https://repo.maven.apache.org/maven2/org/apache/maven/resolver/maven-resolver-api/1.9.18/maven-resolver-api-1.9.18.jar (157 kB at 1.6 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/4.0.1/plexus-utils-4.0.1.jar (193 kB at 1.4 MB/s)
[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\Freestyle New\pom.xml to
C:\WINDOWS\system32\config\systemprofile\.m2\repository\upes\devops\upes.devops\0.0.1-SNAPSHOT\upes.devops-0.0.1-SNAPSHOT.pom
[INFO] Installing C:\ProgramData\Jenkins\.jenkins\workspace\Freestyle New\target\upes-calc.jar to
C:\WINDOWS\system32\config\systemprofile\.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: 24.221 s
[INFO] Finished at: 2025-08-28T18:46:42+05:30
[INFO] -----
Finished: SUCCESS
```

You can see that the build is configured successfully.

By following these steps, you have successfully set up Maven build job in Jenkins for automating the build process, enabling continuous integration to enhance the software development lifecycle.