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Batch 3 – DevOps

Lab Exercise 6.2

Creating a New Jenkins Job to Checkout Source Code

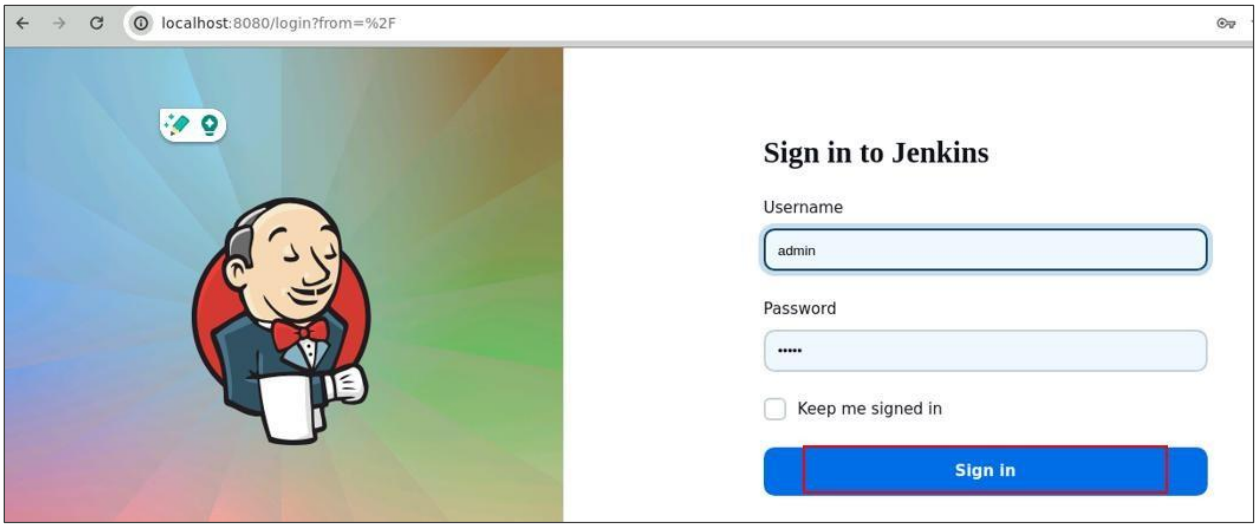
Objective: To set up a Jenkins job to manage source code, specifically by configuring the Source Code Management section to check out code from a Git repository **Tools required:** Jenkins **Prerequisites:** Jenkins must be operational.

Steps to be followed:

1. Log in and create a Jenkins job
2. Configure source code management

Step 1: Log in and create a Jenkins job

1.1 Navigate to **localhost:8080** in your web browser, enter your credentials, and click on **Sign In**



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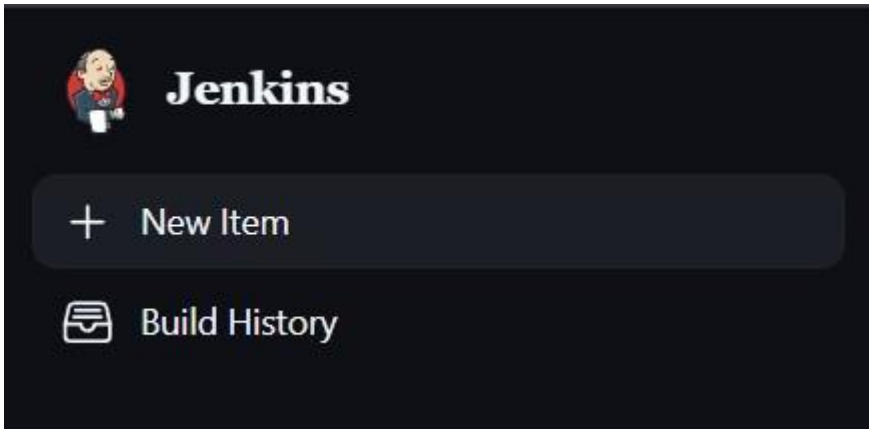
Note: The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

1.2 Create a new Jenkins job by clicking on **New Item**



1.3 Provide custom job name inside the field **Enter an item name,** select the **Freestyle project** option, and click on the **OK** button to save the job

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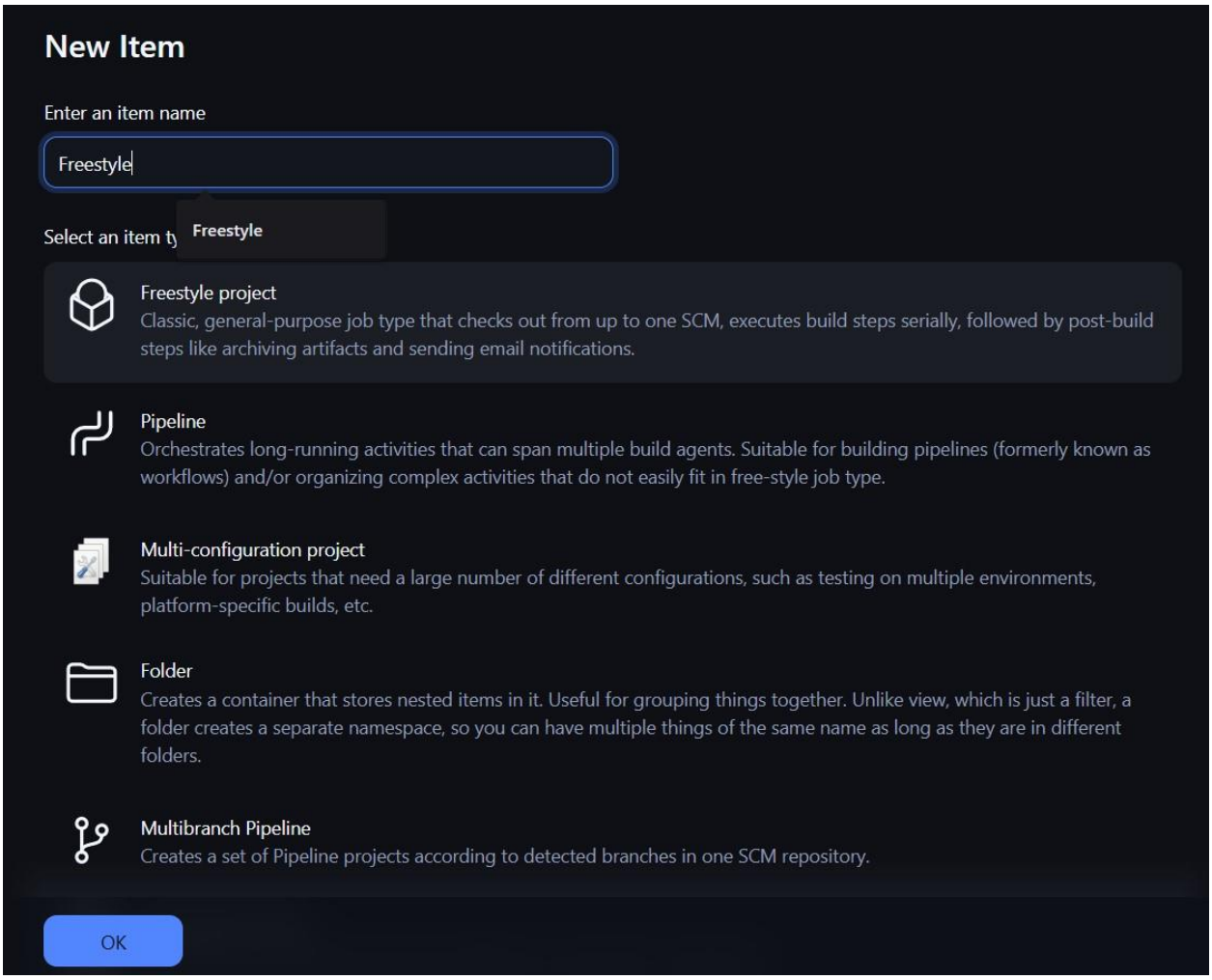

Step 2: Configure source code management

2.1 Access the newly created job's configuration screen by clicking on **Configure**

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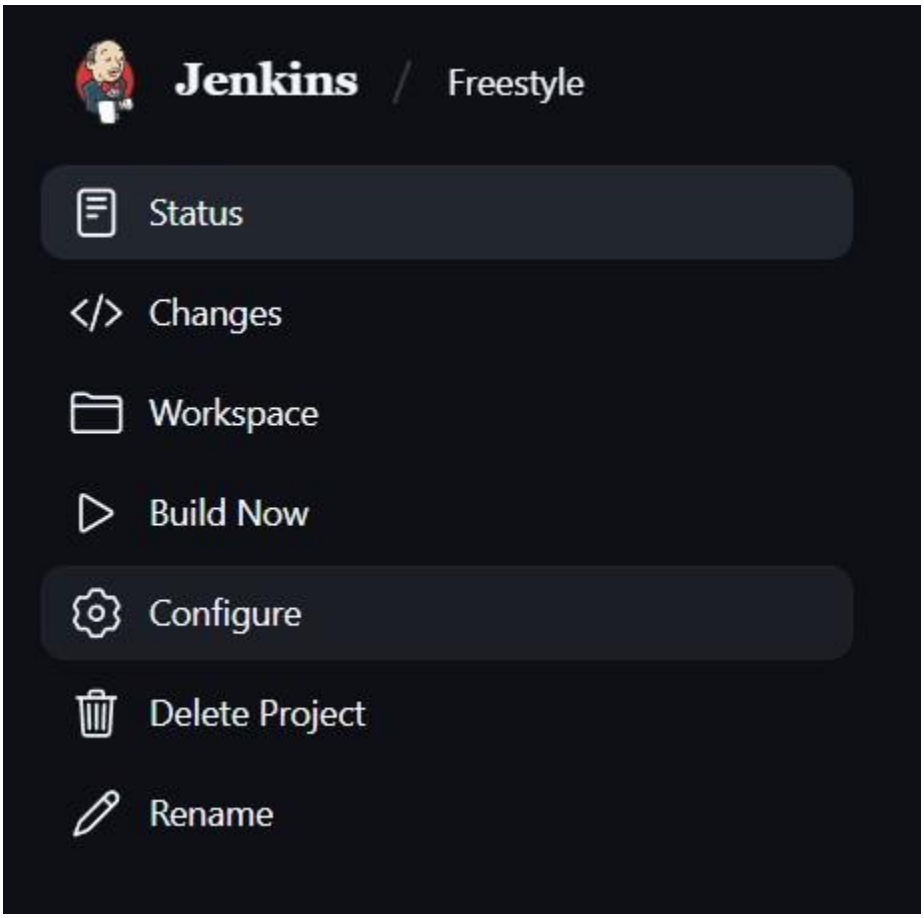
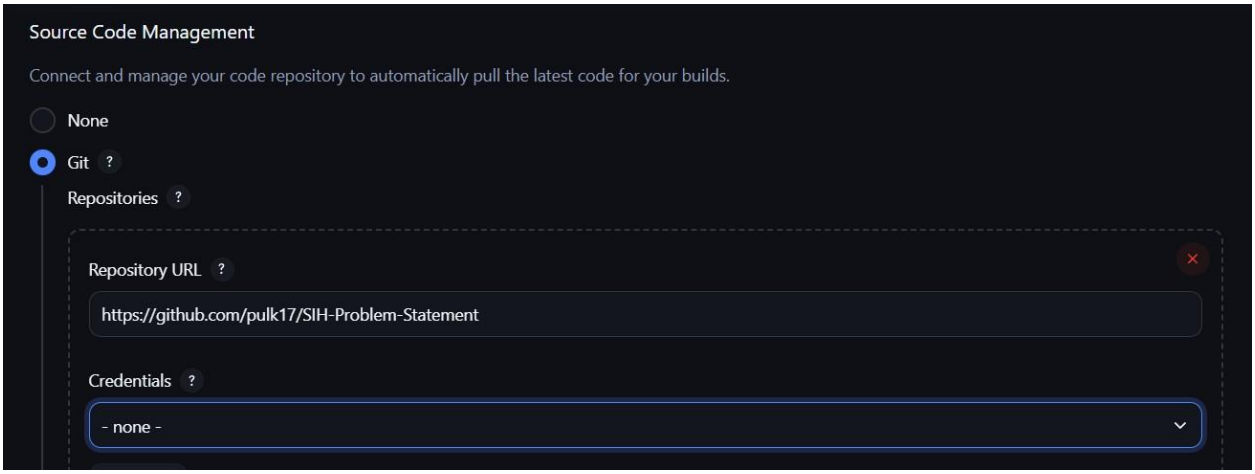


2.2 Navigate to the **Source Code Management** tab, provide Git repository configuration inside the **Repository URL** field, and click on the **Save** button



2.3 Then, click on the **Build Now** option to schedule a build

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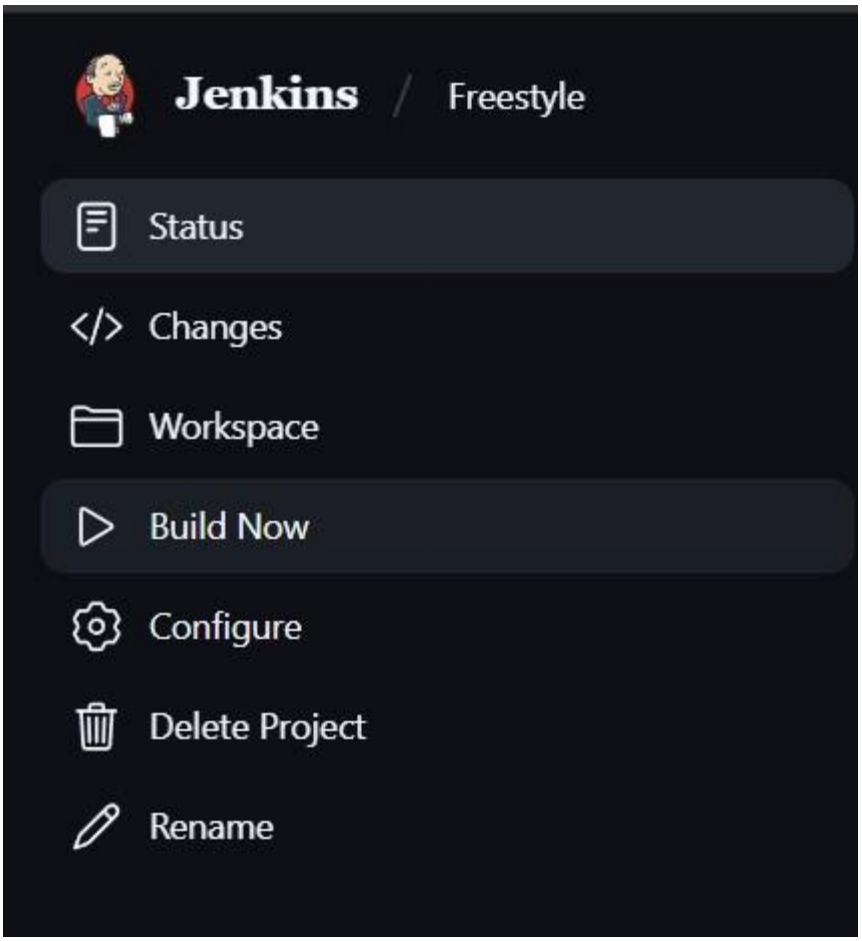
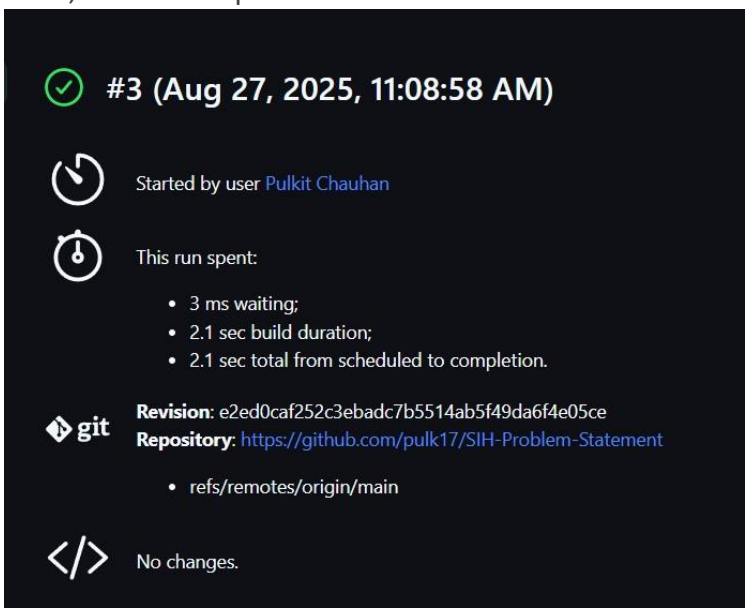


2.4 To schedule the build, click the required link under **Permalinks**



2.5 Click on **Console Output** to check out the process during the build process

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Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\Freestyle
The recommended git tool is: NONE
No credentials specified
 > git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\.jenkins\workspace\Freestyle\.git # timeout=10
Fetching changes from the remote Git repository
 > git.exe config remote.origin.url https://github.com/pulk17/SIH-Problem-Statement # timeout=10
Fetching upstream changes from https://github.com/pulk17/SIH-Problem-Statement
 > git.exe --version # timeout=10
 > git --version # 'git version 2.47.1.windows.2'
 > git.exe fetch --tags --force --progress -- https://github.com/pulk17/SIH-Problem-Statement +refs/heads/*:refs/remotes/origin/* # timeout=10
 > git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision e2ed0caf252c3ebadc7b5514ab5f49da6f4e05ce (refs/remotes/origin/main)
 > git.exe config core.sparsecheckout # timeout=10
 > git.exe checkout -f e2ed0caf252c3ebadc7b5514ab5f49da6f4e05ce # timeout=10
Commit message: "another fix"
First time build. Skipping changelog.
Finished: SUCCESS
```

By following these steps, you have successfully set up a Jenkins job to automatically check out source code from a Git repository, enabling seamless integration and automation in your CI/CD pipeline.