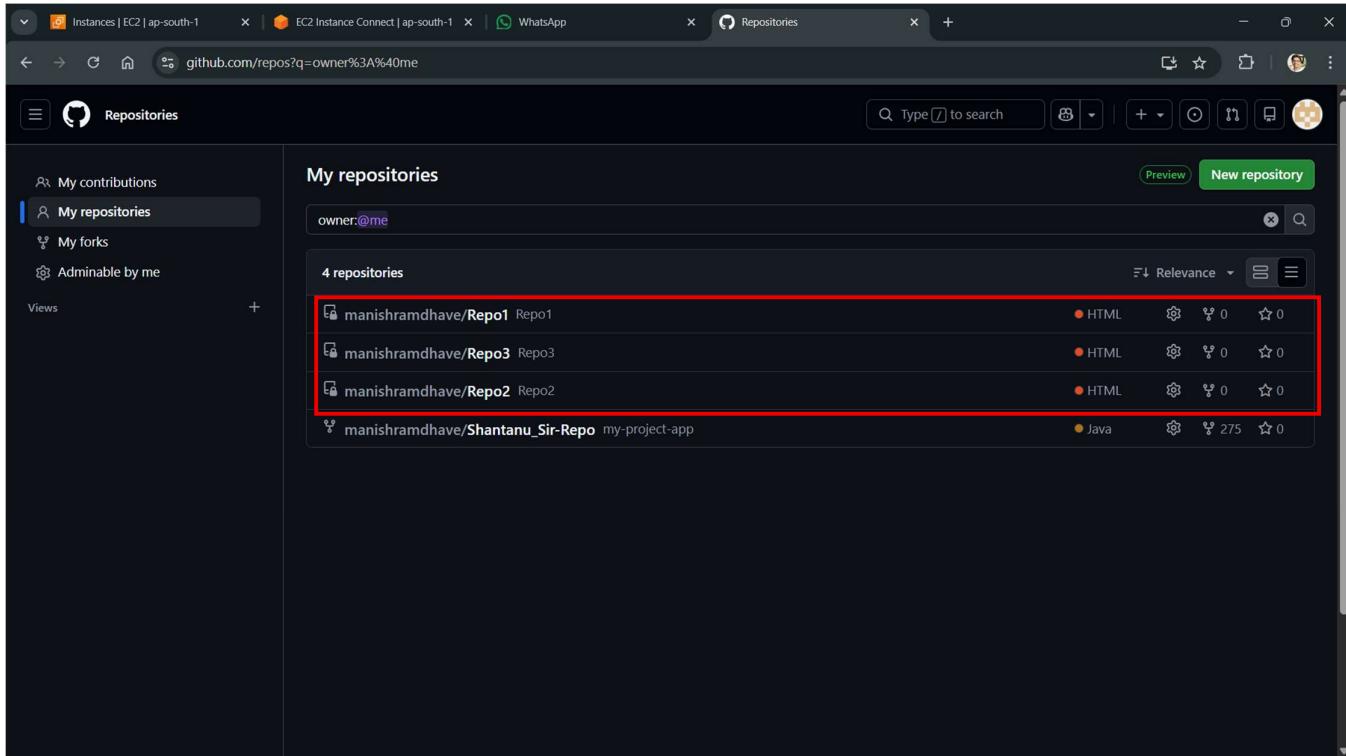


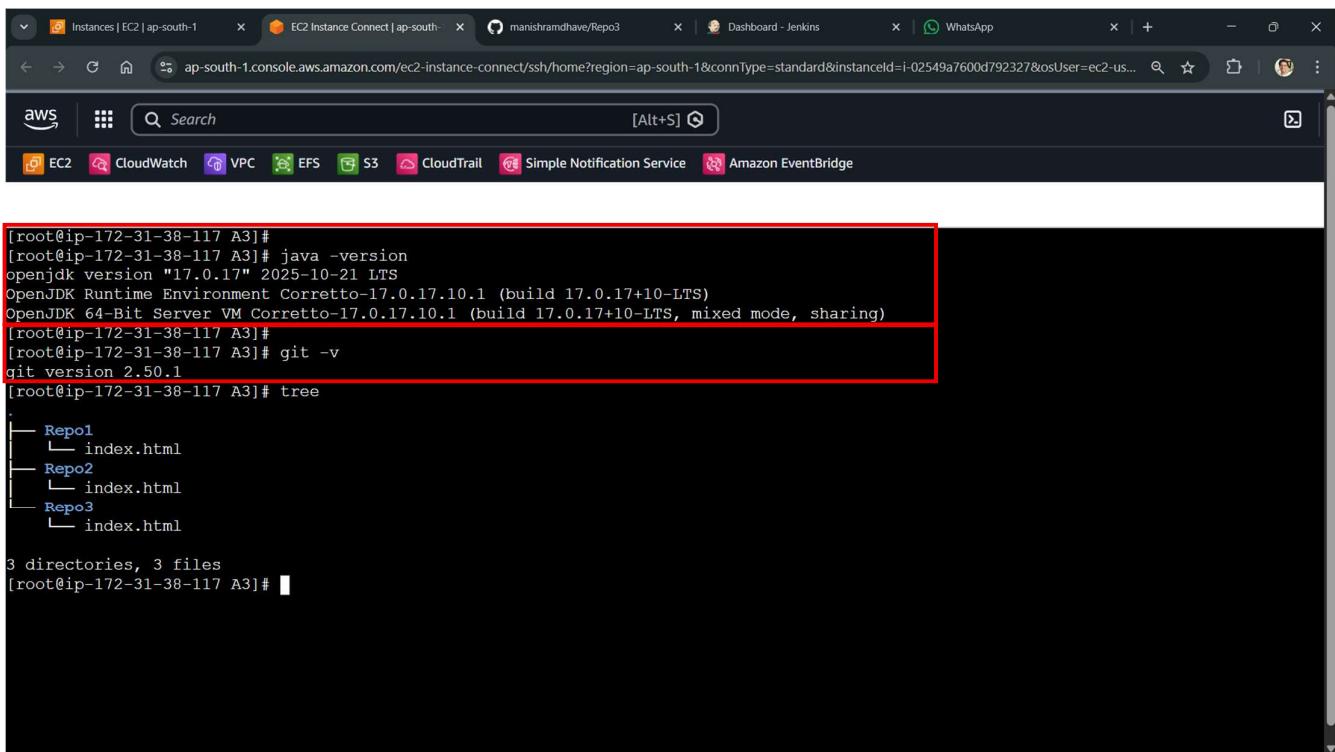
Jenkins Assignment 1

Step 1: Made three Private Repositories Repo1, Repo2 and Repo3 in GitHub account:



The screenshot shows a browser window with multiple tabs. The active tab is 'github.com/repos?q=owner%3A%40me'. The left sidebar shows navigation options like 'My contributions', 'My repositories' (which is selected), 'My forks', and 'Admirable by me'. The main area is titled 'My repositories' and shows a search bar with 'owner:@me'. Below it, a table lists four repositories: 'manishramdhave/Repo1 Repo1', 'manishramdhave/Repo3 Repo3', 'manishramdhave/Repo2 Repo2', and 'manishramdhave/Shantanu_Sir-Repo my-project-app'. A red box highlights the first three repositories.

Step 2: Launched an instance and installed Java -17 and Git on it:



The screenshot shows an EC2 terminal session. The user has run several commands:
- java -version: Output shows OpenJDK version "17.0.17" 2025-10-21 LTS and OpenJDK Runtime Environment Corretto-17.0.17.10.1 (build 17.0.17+10-LTS).
- git -v: Output shows git version 2.50.1.
- tree: Output shows a directory structure with three repositories: Repo1, Repo2, and Repo3, each containing an index.html file.
A red box highlights the output of the java -version command and the directory listing from tree.

```
[root@ip-172-31-38-117 A3]# [root@ip-172-31-38-117 A3]# java -version openjdk version "17.0.17" 2025-10-21 LTS OpenJDK Runtime Environment Corretto-17.0.17.10.1 (build 17.0.17+10-LTS) OpenJDK 64-Bit Server VM Corretto-17.0.17.10.1 (build 17.0.17+10-LTS, mixed mode, sharing) [root@ip-172-31-38-117 A3]# [root@ip-172-31-38-117 A3]# git -v git version 2.50.1 [root@ip-172-31-38-117 A3]# tree . ├── Repo1 │   └── index.html ├── Repo2 │   └── index.html └── Repo3     └── index.html 3 directories, 3 files [root@ip-172-31-38-117 A3]#
```

Step 3: Installed Apache-Tomcat-10 and Jenkins on the instance:

The screenshot shows a terminal session on an AWS EC2 instance. The user has navigated to the directory /var/lib/tomcat10/webapps and listed the contents. The output shows several files and directories, with two specific files highlighted in red boxes: 'jenkins' and 'jenkins.war'. These files are the Jenkins WAR file and its configuration directory.

```
[root@ip-172-31-38-117 ~]# cd server
[root@ip-172-31-38-117 server]# ll
total 16
drwxrwxrwx. 9 root root 16384 Dec 2 22:57 [REDACTED]
[root@ip-172-31-38-117 server]# cd apache-tomcat-10.1.50/
[root@ip-172-31-38-117 apache-tomcat-10.1.50]#
[root@ip-172-31-38-117 apache-tomcat-10.1.50]#
[root@ip-172-31-38-117 apache-tomcat-10.1.50]#
[root@ip-172-31-38-117 apache-tomcat-10.1.50]# cd webapps
[root@ip-172-31-38-117 webapps]#
[root@ip-172-31-38-117 webapps]# ll
total 94056
drwxrwxrwx. 3 root root 16384 Dec 2 22:57 [REDACTED]
drwxrwxrwx. 16 root root 16384 Dec 2 22:57 [REDACTED]
drwxrwxrwx. 7 root root 99 Dec 2 22:57 [REDACTED]
drwxrwxrwx. 6 root root 79 Dec 2 22:57 [REDACTED]
drwxr-x---. 10 root root 16384 Jan 27 17:35 jenkins
-rwxrwxrwx. 1 root root 96260165 Jan 21 09:32 jenkins.war
drwxrwxrwx. 6 root root 114 Dec 2 22:57 [REDACTED]
[root@ip-172-31-38-117 webapps]#
```

Step 4: Pushed three different index.html files using the branches 2026Q1, 2026Q2 and 2026Q3 respectively:

The screenshot shows a terminal session where the user has pushed three different index.html files to three separate GitHub repositories. Each repository has a different branch name: 2026Q1, 2026Q2, and 2026Q3. The commits are dated January 27, 2026, at various times. The commits are highlighted with red boxes.

```
[root@ip-172-31-38-117 A3]# cd Repol
[root@ip-172-31-38-117 Repol]# git log
commit a42a777c322ac1c735ac7b6b1608c2e1lef3eb4 (HEAD -> 2026Q1, origin/2026Q1, master)
Author: root <root@ip-172-31-38-117.ap-south-1.compute.internal>
Date: Tue Jan 27 17:59:58 2026 +0000

    Added index.html in Repol
[root@ip-172-31-38-117 Repol]#
[root@ip-172-31-38-117 Repol]# cd ..
[root@ip-172-31-38-117 A3]# cd Repo2
[root@ip-172-31-38-117 Repo2]# git log
commit c8f31040fibba719af73e190e76270097b8211cae (HEAD -> 2026Q2, origin/2026Q2, master)
Author: root <root@ip-172-31-38-117.ap-south-1.compute.internal>
Date: Tue Jan 27 18:02:53 2026 +0000

    Added index.html in Repo2
[root@ip-172-31-38-117 Repo2]#
[root@ip-172-31-38-117 Repo2]# cd ..
[root@ip-172-31-38-117 A3]# cd Repo3
[root@ip-172-31-38-117 Repo3]# git log
commit 699fe4681b85786a1bb20d120afe5bc1160d4278 (HEAD -> 2026Q3, origin/2026Q3, master)
Author: root <root@ip-172-31-38-117.ap-south-1.compute.internal>
Date: Tue Jan 27 19:11:42 2026 +0000

    Added index.html in Repo3
[root@ip-172-31-38-117 Repo3]#
```

Step 5: Launched the Jenkins and created three different Jobs Job1, Job2 and Job3:

The screenshot shows the Jenkins dashboard with three jobs listed in a table:

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀️	Job1	1 hr 20 min #2	N/A	2.3 sec
✓	☀️	Job2	1 hr 30 min #2	N/A	2.3 sec
✓	☀️	Job3	1 hr 17 min #1	N/A	2.2 sec

Job details:
Job1: Last success 1 hr 20 min, last failure N/A, duration 2.3 sec.
Job2: Last success 1 hr 30 min, last failure N/A, duration 2.3 sec.
Job3: Last success 1 hr 17 min, last failure N/A, duration 2.2 sec.

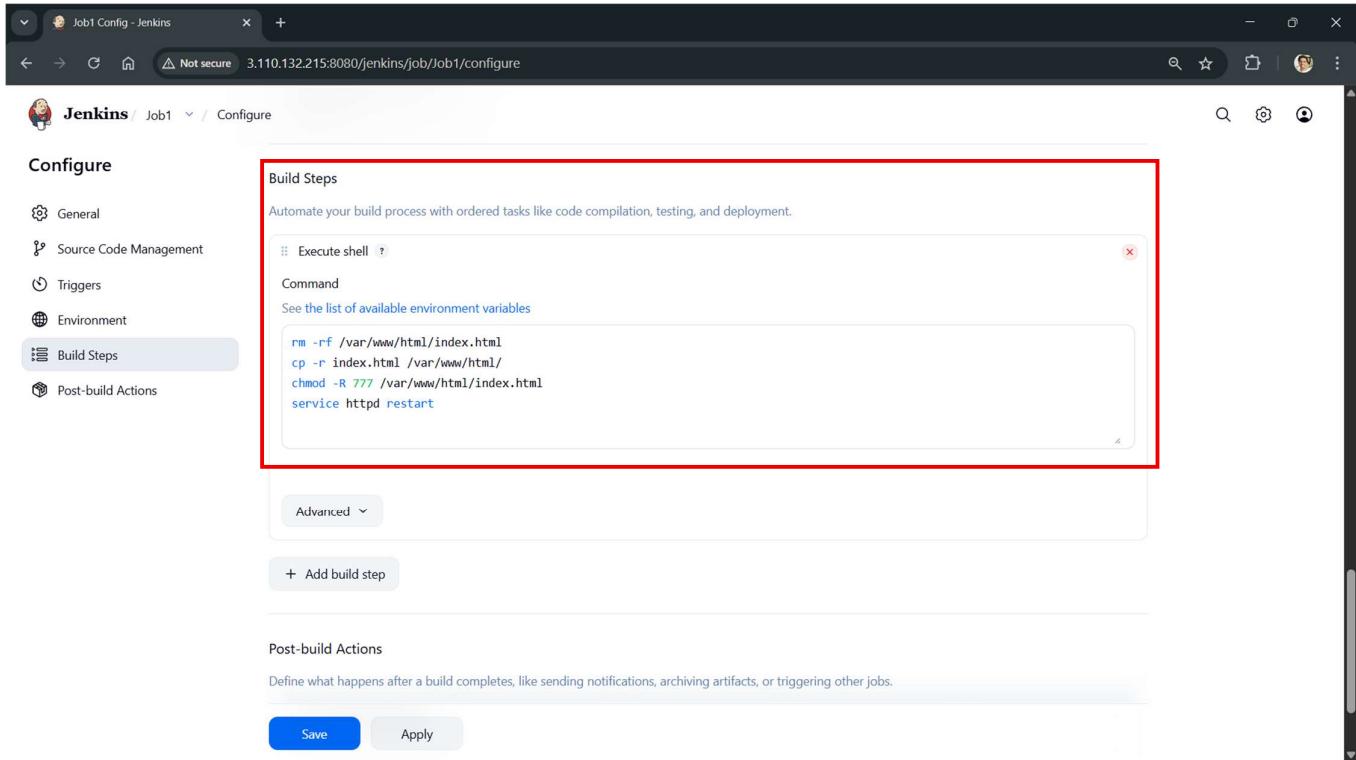
Step 6: Integrated Git with Jenkins by creating ‘Credentials’ by using the Git Token:

The screenshot shows the Jenkins configuration page for Job1. Under the 'Source Code Management' section, the 'Git' option is selected, and its configuration is shown in a red box:

- Repository URL: https://github.com/manishramdhave/Repo1.git
- Credentials: Git-token/******** (Git-token)

Below this, there are sections for 'Advanced' settings, 'Add Repository', and 'Branches to build'. At the bottom are 'Save' and 'Apply' buttons.

Step 7: Executed Shell Script Commands whenever a Build is done by the user:



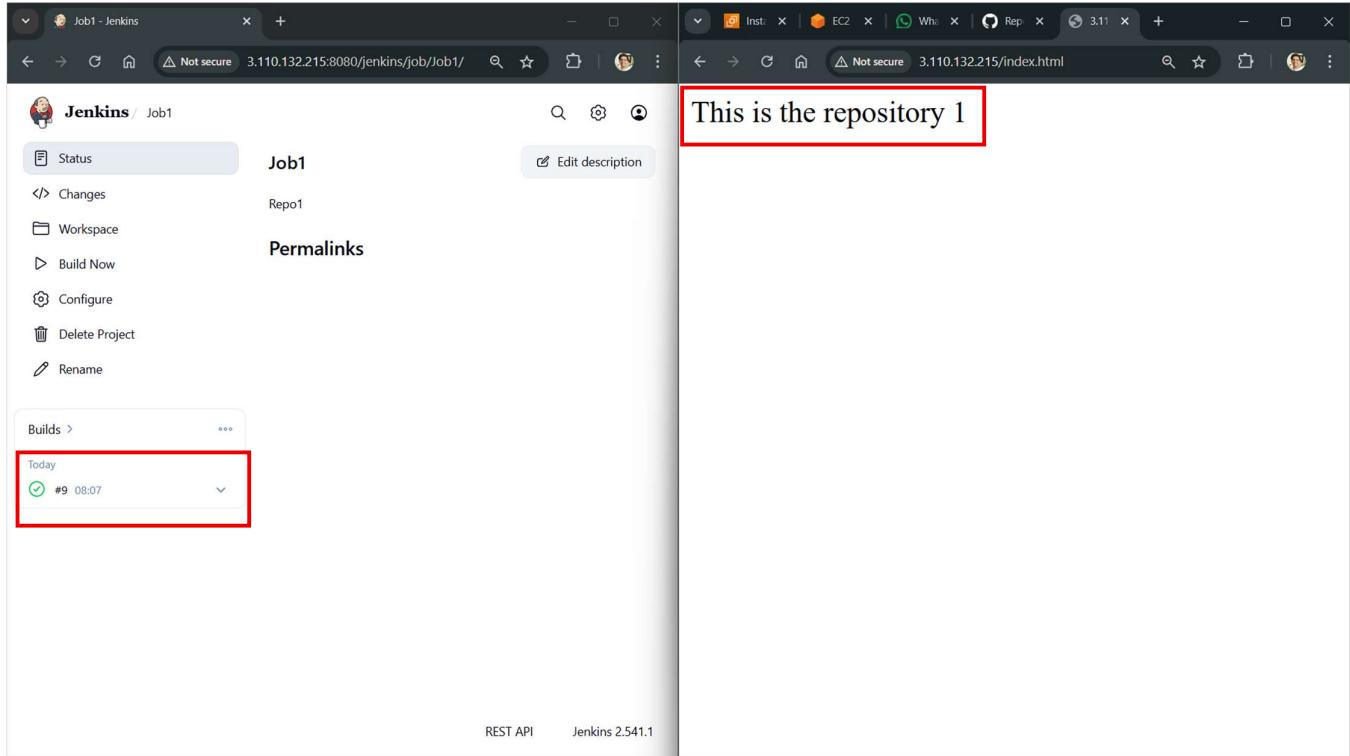
The screenshot shows the Jenkins Job1 configuration page. On the left, a sidebar lists 'General', 'Source Code Management', 'Triggers', 'Environment', 'Build Steps' (which is selected and highlighted in grey), and 'Post-build Actions'. The main content area is titled 'Configure' and contains a 'Build Steps' section. A red box highlights the 'Execute shell' step, which contains the following command:

```
rm -rf /var/www/html/index.html  
cp -r index.html /var/www/html/  
chmod -R 777 /var/www/html/index.html  
service httpd restart
```

Below the build steps, there is an 'Advanced' button and a '+ Add build step' button. The 'Post-build Actions' section is collapsed. At the bottom are 'Save' and 'Apply' buttons.

Result:

1. When Build Now is done by Job1, the index.html file is hosted which is available in Repo1:



The screenshot shows two windows side-by-side. The left window is the Jenkins Job1 status page, showing the job name 'Job1', workspace 'Repo1', and a 'Build Now' button. The right window is a web browser displaying the URL '3.110.132.215/index.html', which contains the text 'This is the repository 1'.

In the Jenkins status window, a red box highlights the 'Builds' section under 'Today', showing a successful build #9 from 08:07. In the browser window, a red box highlights the text 'This is the repository 1'.

2. When Build Now is done by Job2, the index.html file is hosted which is available in Repo2:

The screenshot shows two browser tabs. The left tab is titled "Job2 - Jenkins" and displays the Jenkins interface for Job2. It shows a green checkmark next to "Status" and "Job2". Below the status bar are links for "Changes", "Workspace", "Build Now", "Configure", "Delete Project", and "Rename". A "Builds" section shows a dropdown menu with "Filter" and a list of builds for "Today": "#8 08:07" (selected, highlighted with a red box). To the right of the Jenkins interface is another browser tab titled "Not secure 3.110.132.215/index.html" showing the content "Hi there. This is Repo2" enclosed in a red box.

3. When Build Now is done by Job3, the index.html file is hosted which is available in Repo3:

The screenshot shows two browser tabs. The left tab is titled "Job3 - Jenkins" and displays the Jenkins interface for Job3. It shows a green checkmark next to "Status" and "Job3". Below the status bar are links for "Changes", "Workspace", "Build Now", "Configure", "Delete Project", and "Rename". A "Builds" section shows a dropdown menu with "Filter" and a list of builds for "Today": "#10 08:08" (selected, highlighted with a red box). To the right of the Jenkins interface is another browser tab titled "Not secure 3.110.132.215/index.html" showing the content "Hi there. This is repo3" enclosed in a red box.