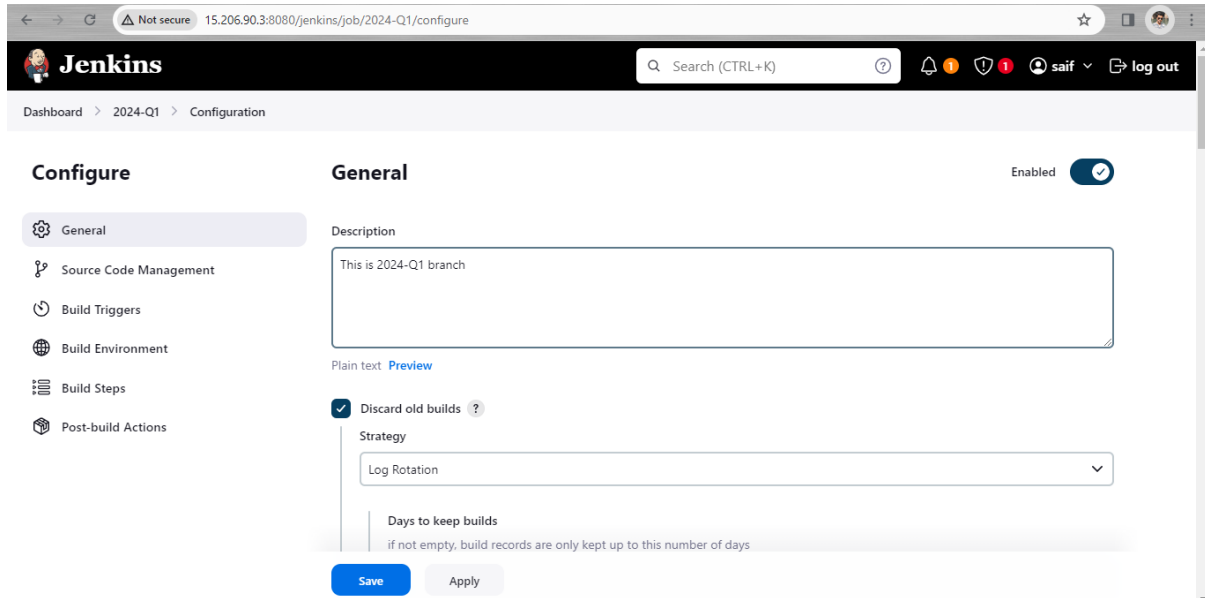


Assignment 3 :- Quarterly released code deployed on Tomcat server using Jenkins Automation Tool

1. Build job



The screenshot shows the Jenkins Configuration page for a job named '2024-Q1'. The 'General' tab is selected in the left sidebar. The main content area shows the 'General' configuration section, which is enabled. The 'Description' field contains the text 'This is 2024-Q1 branch'. Below the description, there is a 'Discard old builds' checkbox which is checked. The 'Strategy' dropdown menu is set to 'Log Rotation'. The 'Days to keep builds' field is empty, with a note below it stating 'if not empty, build records are only kept up to this number of days'. At the bottom, there are 'Save' and 'Apply' buttons.

Dashboard > 2024-Q1 > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

General

Enabled ☒

Description

This is 2024-Q1 branch

Plain text [Preview](#)

☒ Discard old builds ?

Strategy

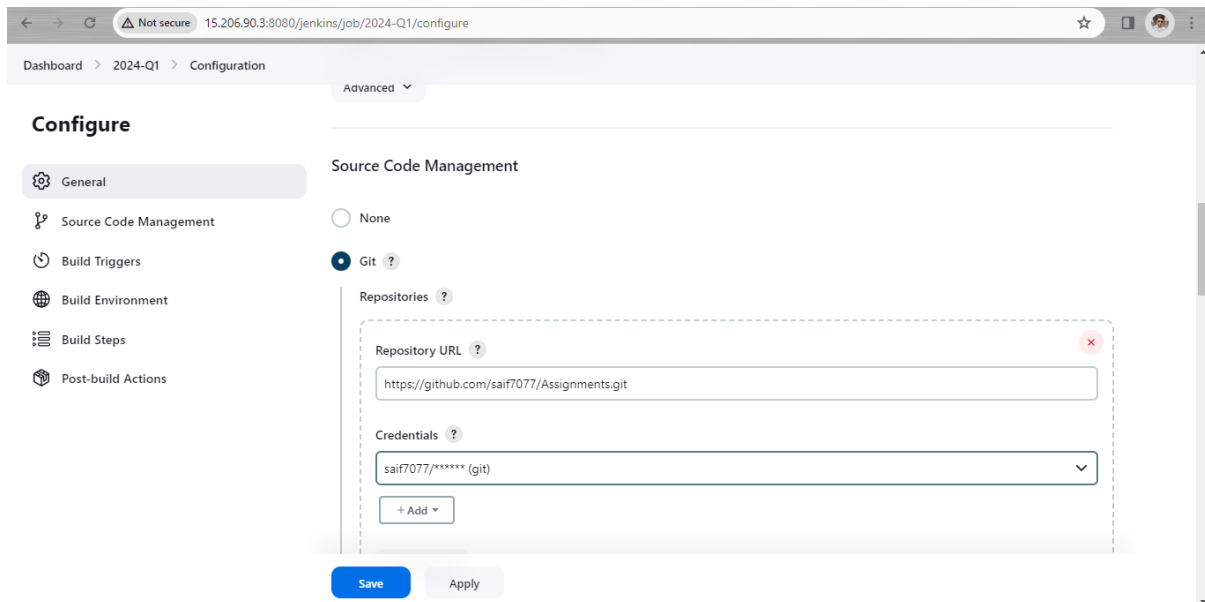
Log Rotation

Days to keep builds

if not empty, build records are only kept up to this number of days

[Save](#) [Apply](#)

2. Add Github Repo URL



The screenshot shows the Jenkins Configuration page for a job named '2024-Q1'. The 'Source Code Management' tab is selected in the left sidebar. The main content area shows the 'Source Code Management' configuration section. The 'None' radio button is selected, and the 'Git' radio button is also selected. The 'Repositories' section is expanded, showing a 'Repository URL' field with the value 'https://github.com/saif7077/Assignments.git'. Below the URL field, there is a 'Credentials' dropdown menu set to 'saif7077/***** (git)'. At the bottom, there are 'Save' and 'Apply' buttons.

Dashboard > 2024-Q1 > Configuration

Advanced

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Source Code Management

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/saif7077/Assignments.git

Credentials ?

saif7077/***** (git)

[+ Add](#)

[Save](#) [Apply](#)

3. Select branch

Dashboard > 2024-Q1 > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

/2024-Q1

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add

Save Apply

4. Execute shell

Dashboard > 2024-Q1 > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Execute shell ?

Command

See [the list of available environment variables](#)

```
yum install httpd -y
service httpd start
chkconfig httpd on
echo "This is 2024-Q1 branch" >> /var/www/html/index.html
chmod -R 777 /var/www/html/index.html
cp -r /var/www/html/index.html /mnt/servers/apache-tomcat-9.0.86/webapps/index.html
```

Advanced

Add build step

Save Apply

5. Check build status

The screenshot shows the Jenkins web interface in a browser. The address bar indicates the URL is `15.206.90.3:8080/jenkins/job/2024-Q1/`. The Jenkins logo is in the top left, and a search bar is in the top right. The main content area shows the build status for the `2024-Q1` branch, which is green, indicating a successful build. Below the status, there are links for 'Changes', 'Workspace', 'Build Now', 'Configure', 'Delete Project', and 'Rename'. A 'Permalinks' section lists various build links, including 'Last build (#20)', 'Last stable build (#20)', 'Last successful build (#20)', 'Last failed build (#19)', 'Last unsuccessful build (#19)', and 'Last completed build (#20)'. On the left sidebar, the 'Build History' section is expanded, showing a list of builds with a filter dropdown set to 'trend'. The build history shows build #20 as successful and build #19 as failed.

6.console output

The screenshot shows the Jenkins console output for build #25 of the 2024-Q1 branch. The address bar indicates the URL is `15.206.90.3:8080/jenkins/job/2024-Q1/25/console`. The console output shows the following commands and their results:

```
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/2024-Q1^{commit} # timeout=10
Checking out Revision e223927d5ebbb8b83bcc40e30eeb8efae52e61ce (refs/remotes/origin/2024-Q1)
> git config core.sparsecheckout # timeout=10
> git checkout -f e223927d5ebbb8b83bcc40e30eeb8efae52e61ce # timeout=10
Commit message: "Add files via upload"
> git rev-list --no-walk e223927d5ebbb8b83bcc40e30eeb8efae52e61ce # timeout=10
[2024-Q1] $ /bin/sh -xe /mnt/servers/apache-tomcat-9.0.86/temp/jenkins966121422577925182.sh
+ yum install httpd -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Package httpd-2.4.58-1.amzn2.x86_64 already installed and latest version
Nothing to do
+ service httpd start
Redirecting to /bin/systemctl start httpd.service
+ chkconfig httpd on
Note: Forwarding request to 'systemctl enable httpd.service'.
+ echo 'This is 2024-Q1 branch'
+ chmod -R 777 /var/www/html/index.html
+ cp -r /var/www/html/index.html /mnt/servers/apache-tomcat-9.0.86/webapps/index.html
Finished: SUCCESS
```

← → ↻ ⚠ Not secure 15.206.90.3:8080/jenkins/job/2024-Q1/20/console ☆ 📄 👤 ?

Jenkins 🔍 Search (CTRL+K) 🔔 1 🛡 1 👤 saif ↵ log out

Dashboard > 2024-Q1 > #20 > Console Output

📄 Status

</> Changes

📄 Console Output

📄 View as plain text

📄 Edit Build Information

🗑 Delete build '#20'

🔍 Git Build Data

← Previous Build

✅ **Console Output**

```
Started by user saif
Running as SYSTEM
Building in workspace /root/.jenkins/workspace/2024-Q1
[WS-CLEANUP] Deleting project workspace...
[WS-CLEANUP] Deferred wipeout is used...
[WS-CLEANUP] Done
The recommended git tool is: NONE
using credential git
Cloning the remote Git repository
Cloning repository https://github.com/saif7077/Assignments.git
> git init /root/.jenkins/workspace/2024-Q1 # timeout=10
Fetching upstream changes from https://github.com/saif7077/Assignments.git
> git --version # timeout=10
> git --version # 'git version 2.40.1'
using GIT_ASKPASS to set credentials git
> git fetch --tags --force --progress -- https://github.com/saif7077/Assignments.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> git config remote.origin.url https://github.com/saif7077/Assignments.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
```

7. 2024-Q1 branch deployed

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This is 2024-Q1 branch This is 2024-Q1 branch This is 2024-Q1 branch This is 2024-Q1 branch This is 2024-Q1 branch This is 2024-Q1 branch This is 2024-Q1 branch This is 2024-Q1 branch This is 2024-Q1 branch This is 2024-Q1 branch

8. 2024-Q2 branch

← → ↻ ⚠ Not secure 15.206.90.3:8080/jenkins/job/2024-Q2/configure ☆ 📄 👤 ?

Dashboard > 2024-Q2 > Configuration

⚙ General

🔗 Source Code Management

🕒 Build Triggers

🌐 Build Environment

📋 Build Steps

🔧 Post-build Actions

Configure

☐ Terminate a build if it's stuck

☐ With Ant ?

Build Steps

≡ **Execute shell** ?

Command

See [the list of available environment variables](#)

```
echo "This is 2024-Q2 branch" >> /var/www/html/index.html
chmod -R 777 /var/www/html/index.html
cp -r /var/www/html/index.html /mnt/servers/apache-tomcat-9.0.86/webapps
```

Advanced ▾

Save Apply

←

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Not secure15.206.90.3:8080/jenkins/job/2024-Q2/

☆


🔍

🔒

🔔

👤saif

🚪log out

Jenkins

Search (CTRL+K)

Dashboard > 2024-Q2 >

Status

Changes

Workspace

Build Now

Configure

Delete Project

Rename

Build History

trend

Filter...

#2

Feb 27, 2024, 10:43 AM

#1

2024-Q2

Edit description

Disable Project

Permalinks

- Last build (#2), 1 min 21 sec ago
- Last stable build (#2), 1 min 21 sec ago
- Last successful build (#2), 1 min 21 sec ago
- Last failed build (#1), 1 min 57 sec ago
- Last unsuccessful build (#1), 1 min 57 sec ago
- Last completed build (#2), 1 min 21 sec ago

←

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Not secure15.206.90.3:8080/jenkins/job/2024-Q2/2/console

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👤saif

🚪log out

Dashboard > 2024-Q2 > #2 > Console Output

← Previous Build

```
> git init /root/.jenkins/workspace/2024-Q2 # timeout=10
Fetching upstream changes from https://github.com/saif7077/Assignments.git
> git --version # timeout=10
> git --version # 'git version 2.40.1'
using GIT_ASKPASS to set credentials git
> git fetch --tags --force --progress -- https://github.com/saif7077/Assignments.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> git config remote.origin.url https://github.com/saif7077/Assignments.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/2024-Q2^{commit} # timeout=10
Checking out Revision e223927d5ebbb8b83bcc40e30eeb8efae52e61ce (refs/remotes/origin/2024-Q2)
> git config core.sparsecheckout # timeout=10
> git checkout -f e223927d5ebbb8b83bcc40e30eeb8efae52e61ce # timeout=10
Commit message: "Add files via upload"
First time build. Skipping changelog.
[2024-Q2] $ /bin/sh -xe /mnt/servers/apache-tomcat-9.0.86/temp/jenkins2682860285044816198.sh
+ echo 'This is 2024-Q2 branch'
+ chmod -R 777 /var/www/html/index.html
+ cp -r /var/www/html/index.html /mnt/servers/apache-tomcat-9.0.86/webapps
Finished: SUCCESS
```

REST APIJenkins 2.440.1

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Not secure15.206.90.3

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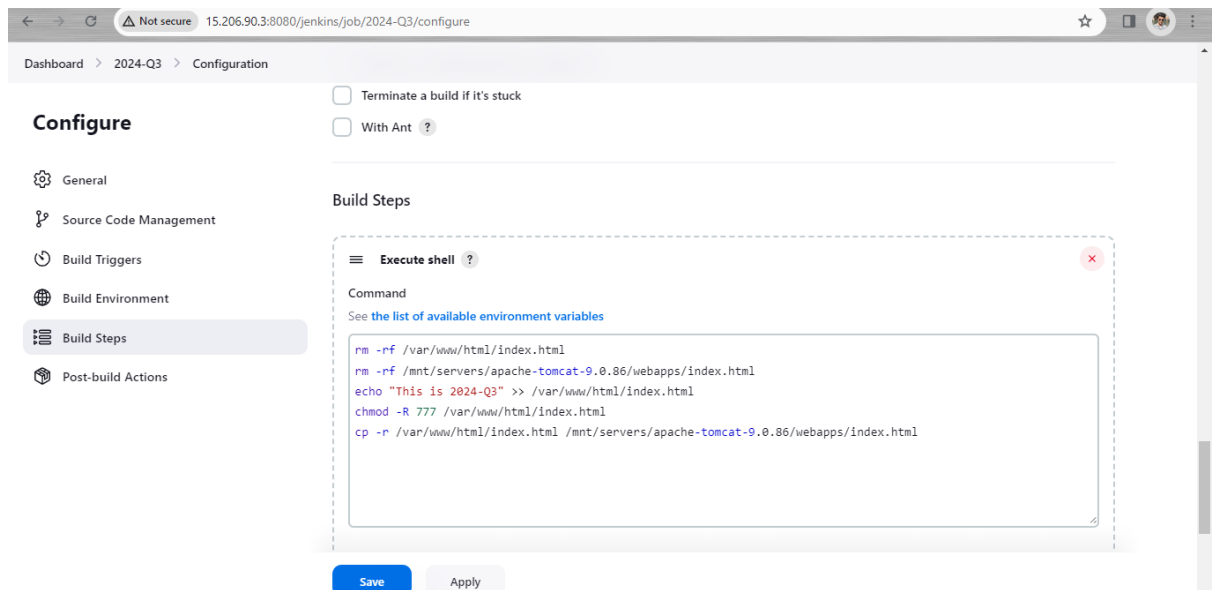
🔔

👤saif

🚪log out

This is 2024-Q2 branch

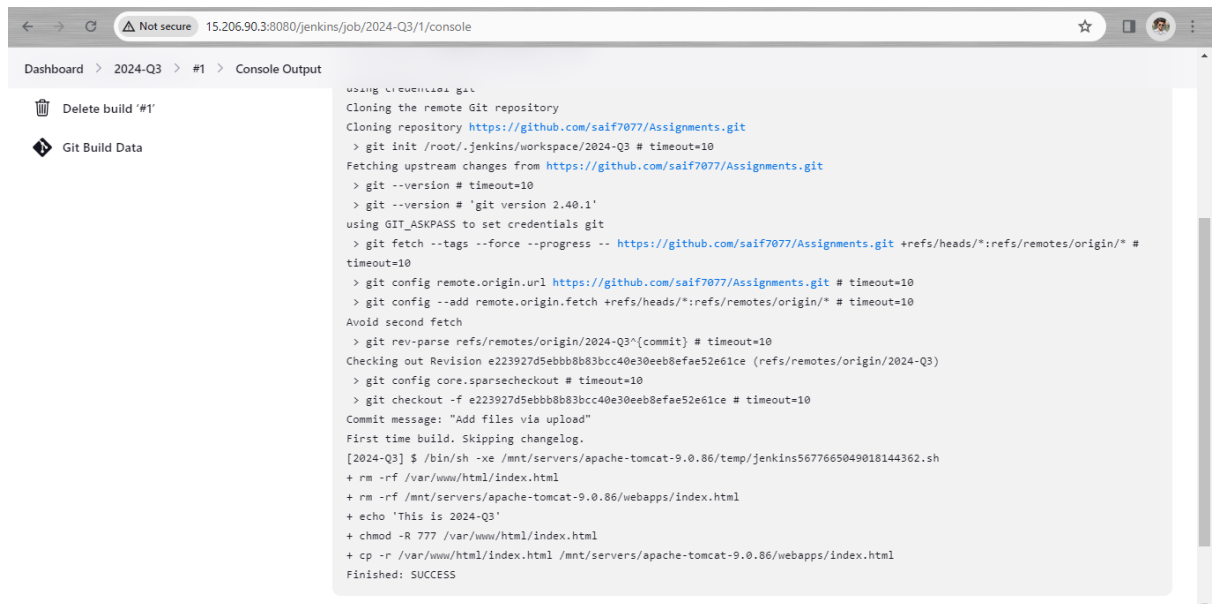
9. 2024-Q3 Branch



The screenshot shows the Jenkins configuration page for job '2024-Q3'. The left sidebar contains a menu with 'Configure' at the top, followed by 'General', 'Source Code Management', 'Build Triggers', 'Build Environment', 'Build Steps' (which is highlighted), and 'Post-build Actions'. The main content area is titled 'Configure' and has two checkboxes: 'Terminate a build if it's stuck' and 'With Ant'. Below these is the 'Build Steps' section, which contains a single step named 'Execute shell'. The 'Command' field for this step contains the following shell script:

```
rm -rf /var/www/html/index.html
rm -rf /mnt/servers/apache-tomcat-9.0.86/webapps/index.html
echo "This is 2024-Q3" >> /var/www/html/index.html
chmod -R 777 /var/www/html/index.html
cp -r /var/www/html/index.html /mnt/servers/apache-tomcat-9.0.86/webapps/index.html
```

At the bottom of the configuration page are 'Save' and 'Apply' buttons.



The screenshot shows the Jenkins console output for job '2024-Q3'. The left sidebar contains a menu with 'Delete build #1' and 'Git Build Data'. The main content area displays the console output, which includes the following text:

```
Using C:\CIBUILD\B4L
Cloning the remote Git repository
Cloning repository https://github.com/saif7077/Assignments.git
> git init /root/.jenkins/workspace/2024-Q3 # timeout=10
Fetching upstream changes from https://github.com/saif7077/Assignments.git
> git --version # timeout=10
> git --version # 'git version 2.40.1'
using GIT_ASKPASS to set credentials git
> git fetch --tags --force --progress -- https://github.com/saif7077/Assignments.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> git config remote.origin.url https://github.com/saif7077/Assignments.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/2024-Q3^{commit} # timeout=10
Checking out Revision e223927d5ebbb8b3bcc40e30eeb8efae52e61ce (refs/remotes/origin/2024-Q3)
> git config core.sparsecheckout # timeout=10
> git checkout -f e223927d5ebbb8b3bcc40e30eeb8efae52e61ce # timeout=10
Commit message: "Add files via upload"
First time build. Skipping changelog.
[2024-Q3] $ /bin/sh -xe /mnt/servers/apache-tomcat-9.0.86/temp/jenkins5677665049018144362.sh
+ rm -rf /var/www/html/index.html
+ rm -rf /mnt/servers/apache-tomcat-9.0.86/webapps/index.html
+ echo 'This is 2024-Q3'
+ chmod -R 777 /var/www/html/index.html
+ cp -r /var/www/html/index.html /mnt/servers/apache-tomcat-9.0.86/webapps/index.html
Finished: SUCCESS
```



The screenshot shows a web browser address bar with the URL '15.206.90.3' and a search icon.

This is 2024-Q3