

Module 3: Build Jobs and Jenkins Security

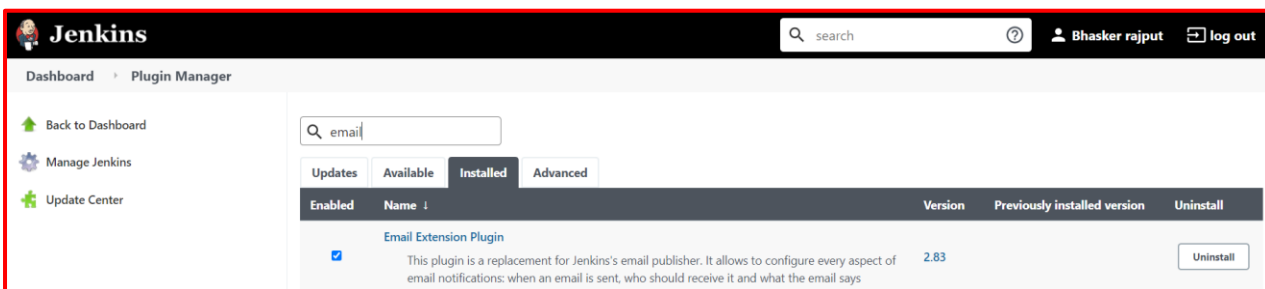
Demo Document - 5

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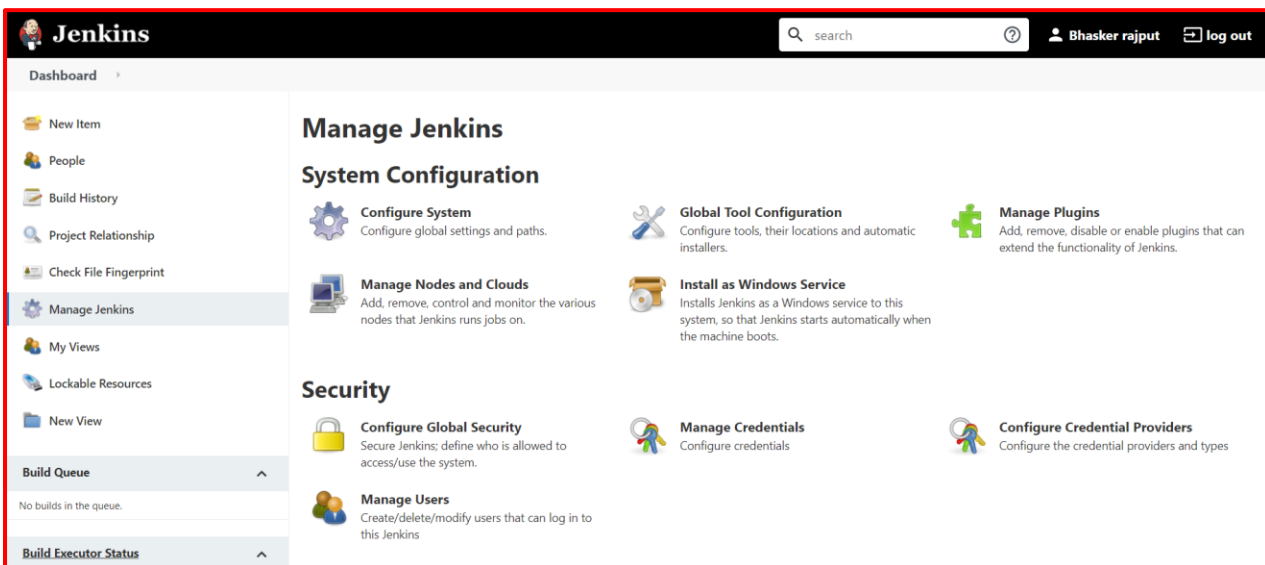
Demo: Configuring and use smtp plugin for email notification.

NOTE: - You are going to setup **email notification using smtp** on **JAVA MAVEN pipeline** that you have already created under **Module 3 Demo 2** hence refer **Module 3 Demo 2** and perform **steps 1 to 12** as mentioned in the document then follow the below steps.

13. Now navigate to **‘Manage Jenkins’** and search for **‘Email extension plugin’** under **‘Installed’** tab and if **‘Email extension plugin’** is not already installed then search for the plugin under **‘Available’** tab and install it as per the below screenshot.



14. Navigate back to **‘Manage Jenkins’** and click on **‘Configure System’**.



15. On configuration console scroll to the end of the page and search for **‘Extended E-mail Notification’** as shown in the screenshot below. Provide the following details:

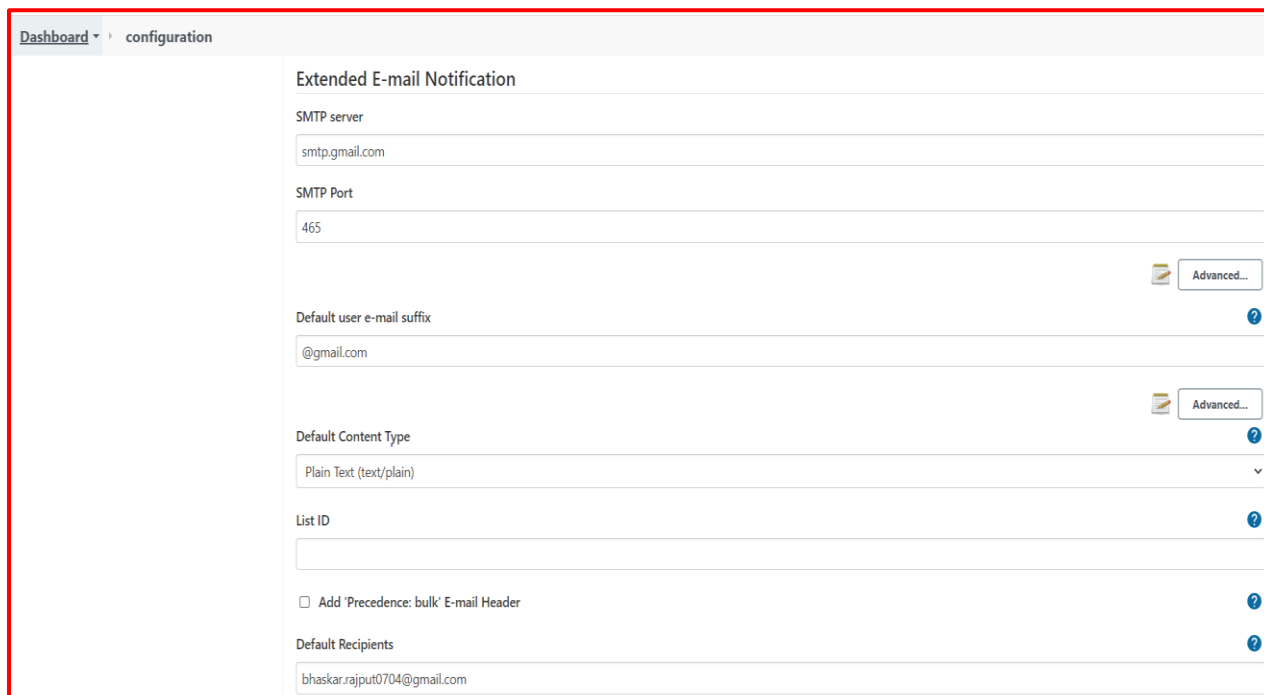
SMTP server – smtp.gmail.com

SMTP Port – 465

Default user e-mail suffix - @gmail.com

Default Recipients- <your Gmail id>

Leave other fields as default and now click on **‘Advanced’** option just above **‘Default user e-mail suffix’**.



The screenshot shows the 'Extended E-mail Notification' configuration page in Jenkins. The breadcrumb navigation at the top indicates 'Dashboard' > 'configuration'. The page contains several input fields and checkboxes for email notification settings. The 'SMTP server' field is set to 'smtp.gmail.com'. The 'SMTP Port' field is set to '465'. The 'Default user e-mail suffix' field is set to '@gmail.com'. The 'Default Content Type' is set to 'Plain Text (text/plain)'. The 'List ID' field is empty. There is an unchecked checkbox for 'Add 'Precedence: bulk' E-mail Header'. The 'Default Recipients' field is set to 'bhaskar.rajput0704@gmail.com'. On the right side of the page, there are two 'Advanced...' buttons, each with a question mark icon next to it.

Dashboard > configuration

Extended E-mail Notification

SMTP server
smtp.gmail.com

SMTP Port
465

Default user e-mail suffix
@gmail.com

Default Content Type
Plain Text (text/plain)

List ID

☐ Add 'Precedence: bulk' E-mail Header

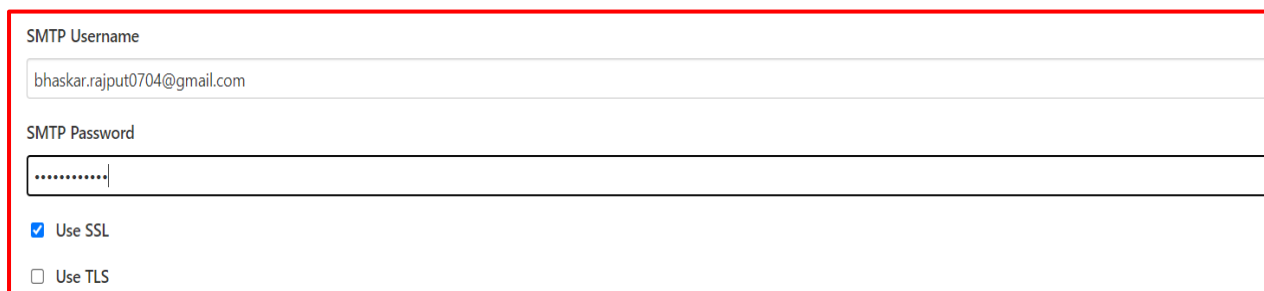
Default Recipients
bhaskar.rajput0704@gmail.com

16. Under '**Advanced**' option you need to provide the following details:

SMTP Username - <your Gmail id>

SMTP Password - <your password>

Now select the '**Use SSL**' checkbox



This screenshot shows the 'Advanced' section of the SMTP configuration. It includes an 'SMTP Username' field with the value 'bhaskar.rajput0704@gmail.com' and an 'SMTP Password' field with masked characters. Below these fields are two checkboxes: 'Use SSL' which is checked, and 'Use TLS' which is unchecked.

SMTP Username
bhaskar.rajput0704@gmail.com

SMTP Password
.....

☒ Use SSL

☐ Use TLS

17. Scroll down and select the '**Enable Debug Mode**' checkbox and click on '**Default Triggers**' as shown in the below screenshot.

Dashboard > configuration

Default Post-send Script

Additional groovy classpath

Add

☒ Enable Debug Mode

☐ Require Administrator for Template Testing

☐ Enable watching for jobs

☐ Allow sending to unregistered users

Content Token Reference

Default Triggers...

18. Select **'Always'** under **'Default Triggers'** this means email will be triggered after each build regardless of whether build is successful or failed.

Dashboard > configuration

Additional groovy classpath

Add

☒ Enable Debug Mode

☐ Require Administrator for Template Testing

☐ Enable watching for jobs

☐ Allow sending to unregistered users

Default Triggers

☐ Aborted

☒ Always

☐ Before Build

☐ Failure - 1st

☐ Failure - 2nd

☐ Failure - Any

☐ Failure - Still

☐ Failure - X

☐ Failure -> Unstable (Test Failures)

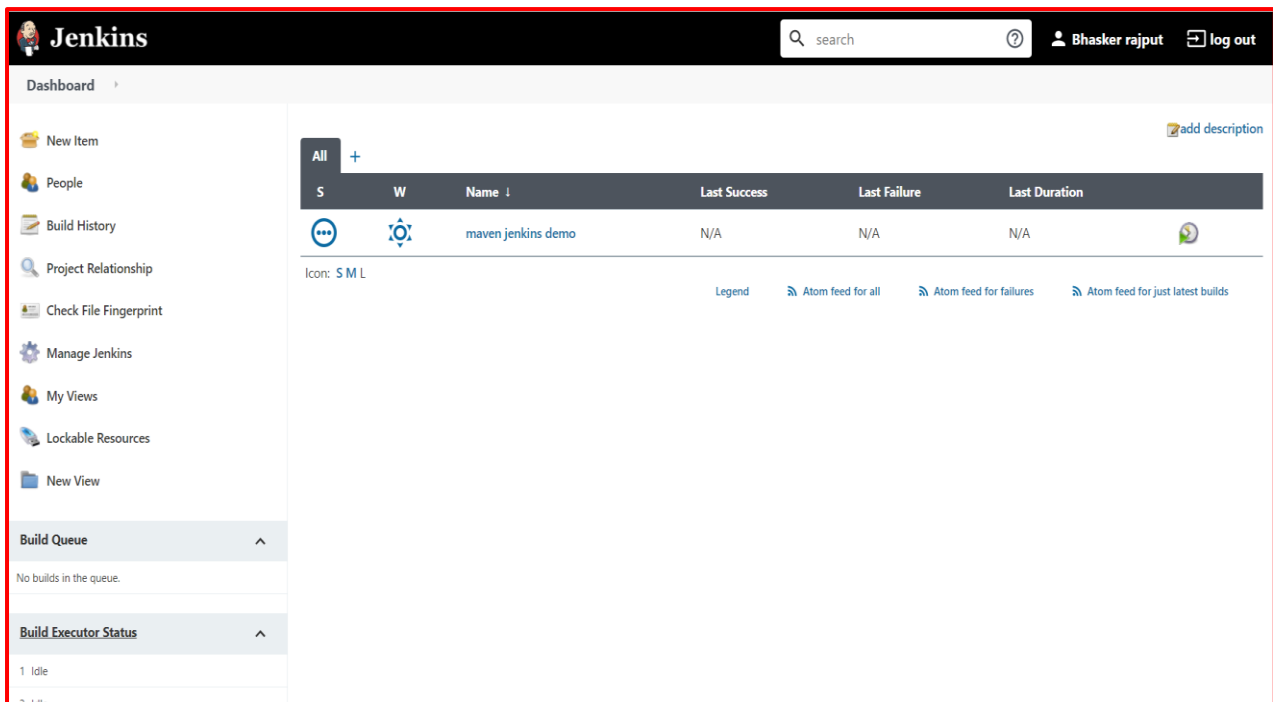
☐ Fixed

☐ Not Built

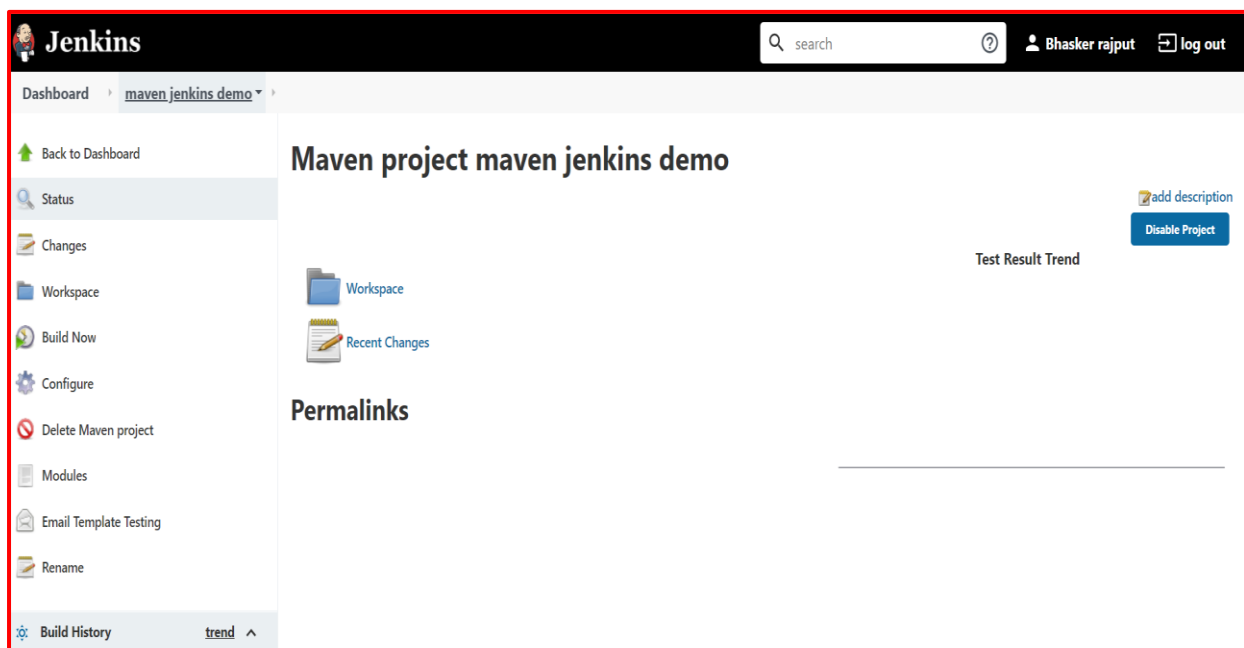
☐ Script - After Build

Save Apply

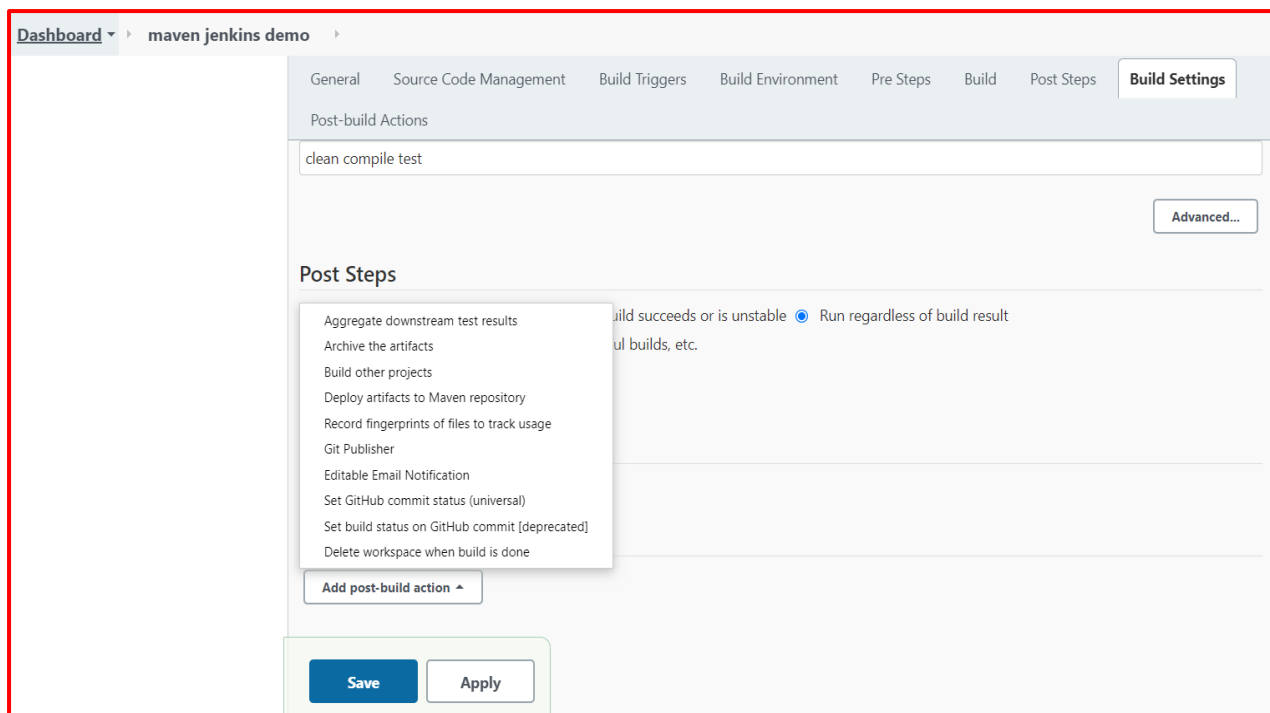
19. Navigate back to Jenkins dashboard and click on **'Maven Jenkins Demo'** job.



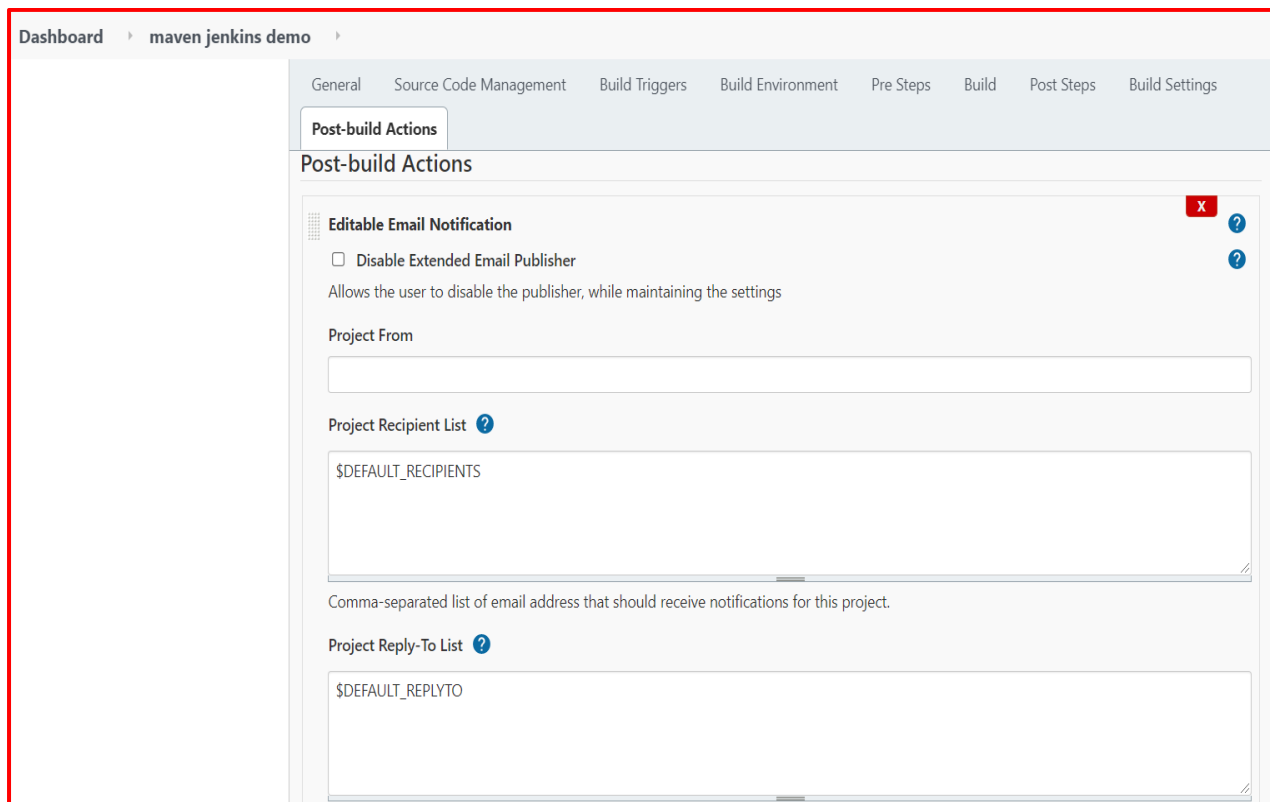
20. Click on ‘Configure’ available in left side menu.



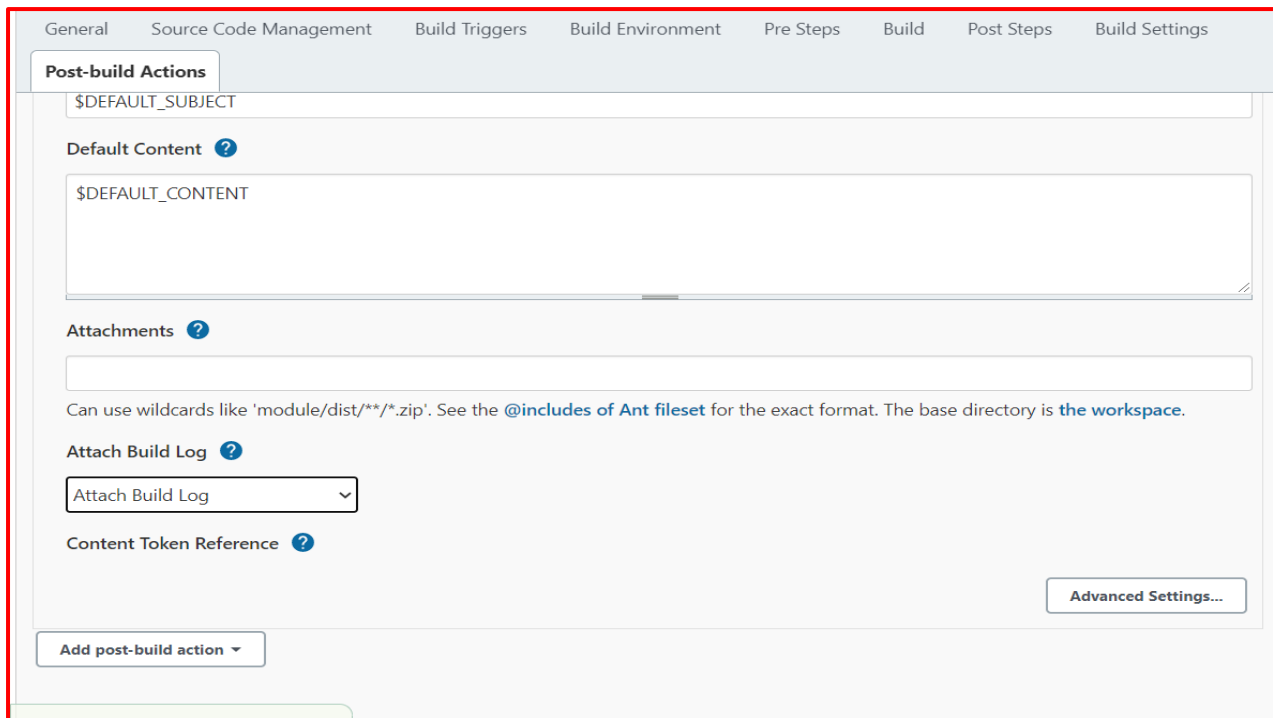
21. Navigate to ‘Build Settings’ and click on ‘Add post-build action’ under ‘Post Steps’. Now select ‘Editable Email Notification’ from the list as shown in the below screenshot.



22. 'Editable Email Notification' is shown in the screenshot below. Keep the configuration as default and scroll down.

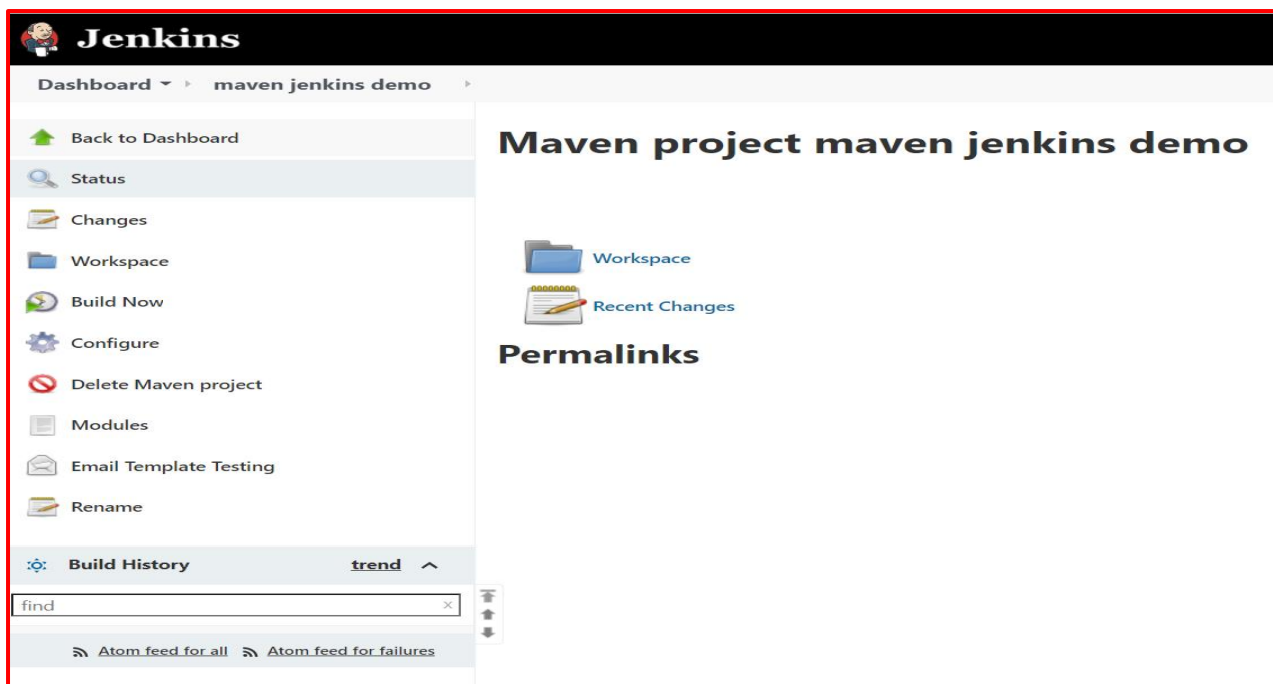


23. Under 'Attach Build Log' of 'Editable Email Notification' select 'Attach Build Log', this will attach the build logs in the email notification. Now click on APPLY and SAVE.

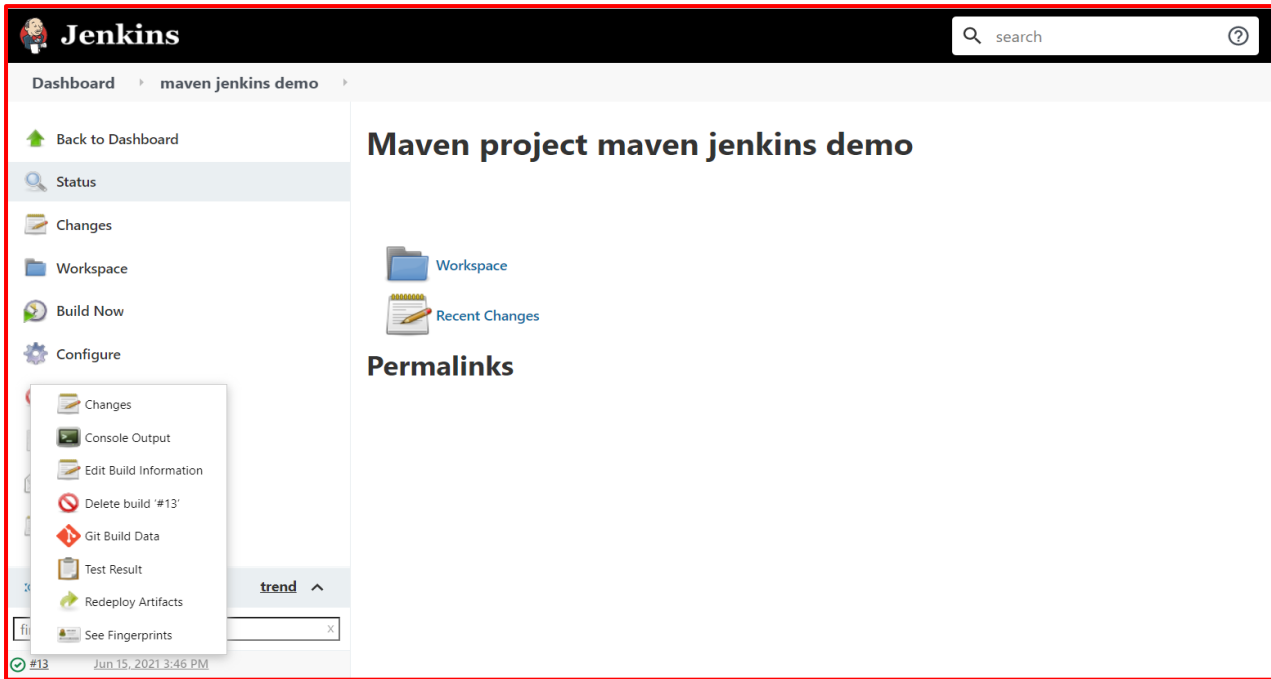


The screenshot shows the 'Post-build Actions' configuration page in Jenkins. The page has a top navigation bar with tabs: General, Source Code Management, Build Triggers, Build Environment, Pre Steps, Build, Post Steps, and Build Settings. The 'Post-build Actions' tab is selected. Below the tabs, there are several input fields and sections: a text field for '\$DEFAULT_SUBJECT', a 'Default Content' section with a text area for '\$DEFAULT_CONTENT', an 'Attachments' section with a text area, an 'Attach Build Log' section with a dropdown menu set to 'Attach Build Log', and a 'Content Token Reference' section. At the bottom right, there is an 'Advanced Settings...' button. At the bottom left, there is an 'Add post-build action' button.

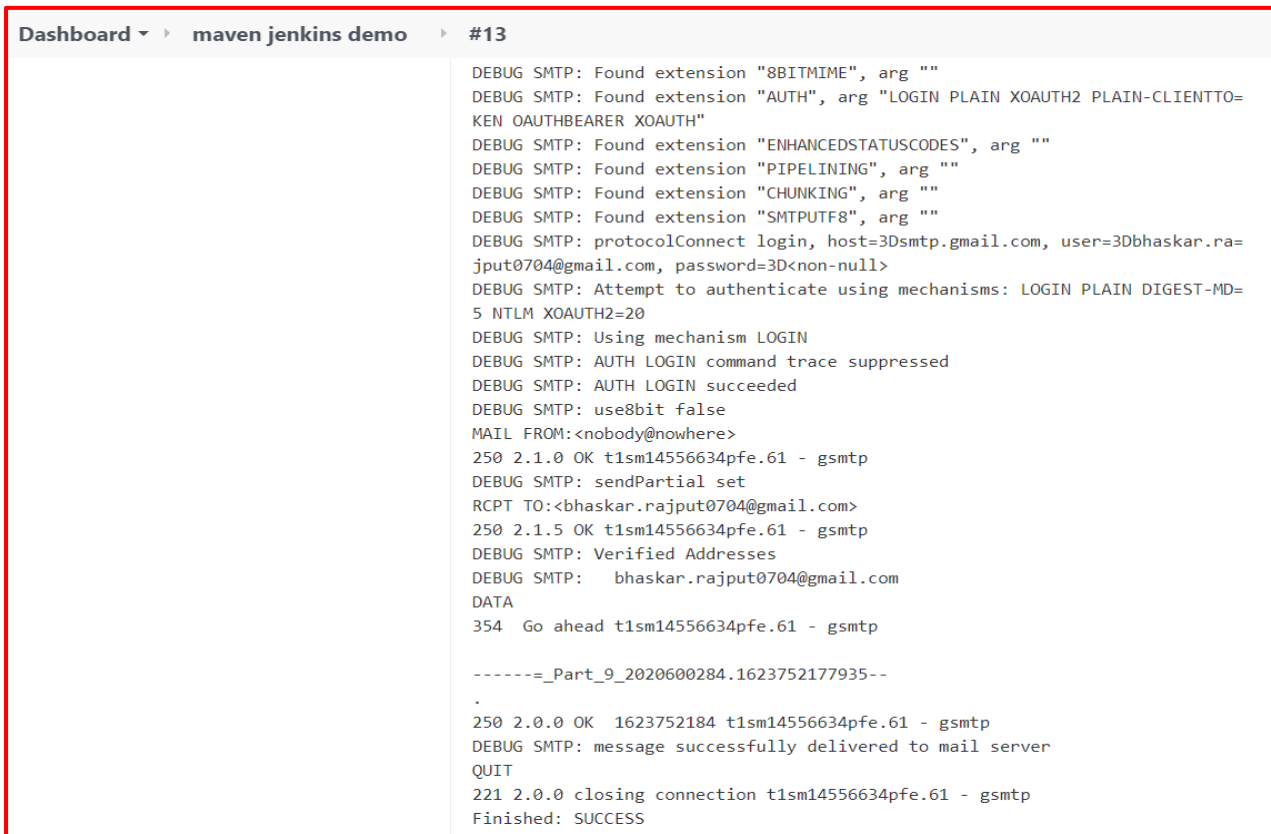
24. NOW build your Jenkins pipeline using **'Build Now'**.



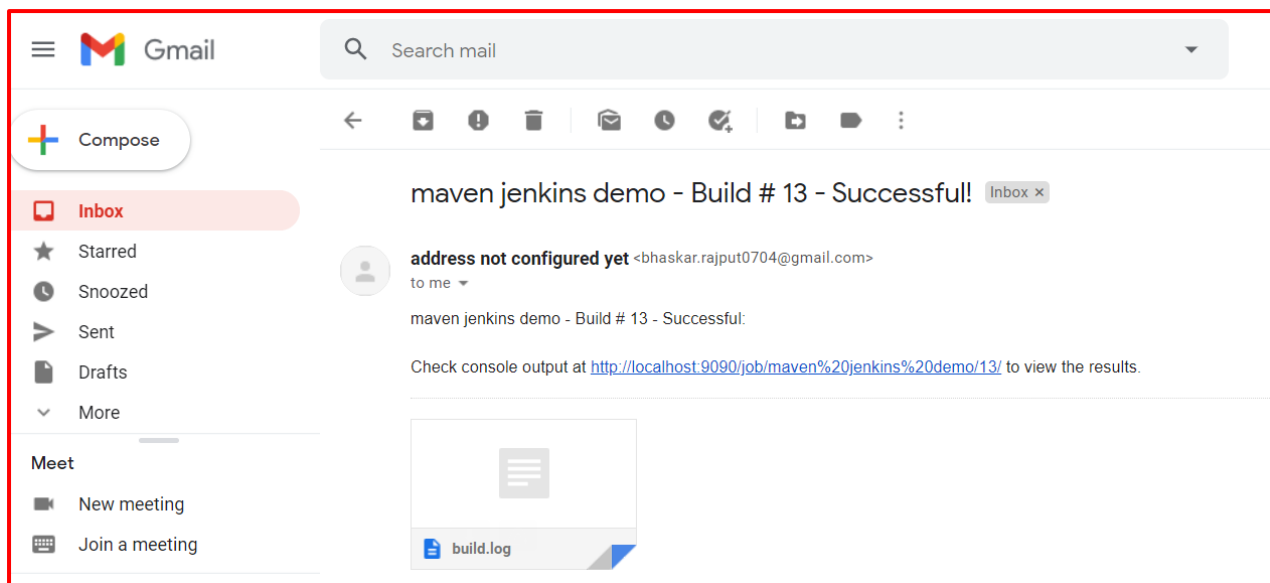
25. Now click on **'build number'** that is generated under Build History and further click on **'Console Output'** to check the logs.



26. Once you scroll down the **console logs** there you will find the message: '**message successfully delivered to the mail server**'.



27. For final validation you can navigate to your **Gmail account** that you have configured for email notification. You will receive the **Jenkins pipeline build email with attached build logs** as shown in the below attachment.



NOTE – If you are not receiving notification email and getting error in console output then you can fix the issue using the following steps:

- **Disable the 2-step authentication for your Gmail account.**
- **Turn ON less secure app access for your Gmail account.**

Google Account

← Less secure app access

Some apps and devices use less secure sign-in technology, which makes your account vulnerable. You can turn off access for these apps, which we recommend, or turn it on if you want to use them despite the risks. Google will automatically turn this setting OFF if it's not being used. [Learn more](#)

Allow less secure apps: ON

