

Lab Exercise 7–Email Notification in Jenkins

Below is a lab exercise that will help you understand and practice setting up email

Task 1: Installation and Setup

Install Jenkins on your local machine or server. You can follow the instructions provided on the Jenkins website for installation.

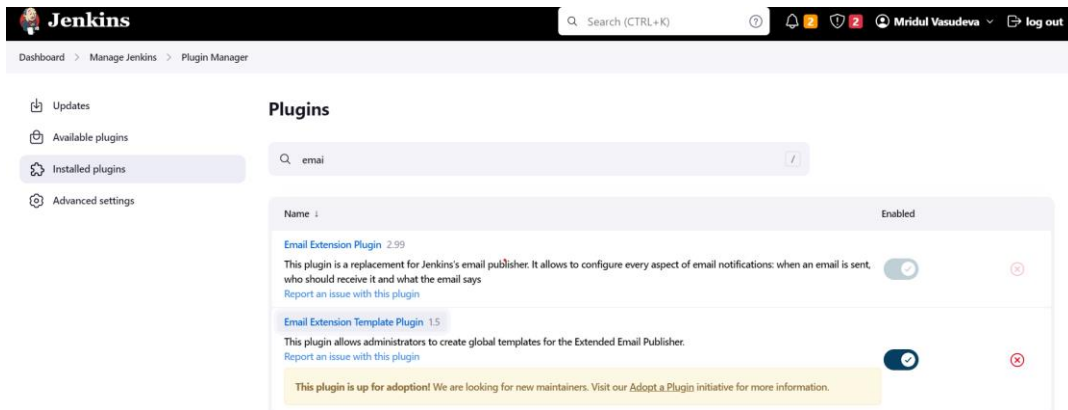
Task 2: Configuring SMTP Server

- Configure the SMTP server settings in the Jenkins system configuration to enable email notifications. Provide the necessary SMTP server details, such as the host, port, and credentials.

The screenshot shows the Jenkins 'Configure System' page for 'E-mail Notification'. The breadcrumb trail is 'Dashboard > Manage Jenkins > Configure System >'. The 'SMTP server' field contains 'smtp.gmail.com'. The 'Default user e-mail suffix' field is empty. The 'Use SMTP Authentication' checkbox is checked, with a user name 'mridulvasudeva.03@gmail.com' and a masked password. The 'Use SSL' checkbox is also checked, while 'Use TLS' is unchecked. Below this, the 'SMTP Port' is set to '465', the 'Reply-To Address' is 'mridulvasudeva.03@gmail.com', and the 'Charset' is 'UTF-8'. At the bottom, the 'Test configuration by sending test e-mail' checkbox is checked, with a 'Test e-mail recipient' field containing 'mridulvasudeva.03@gmail.com'. A message 'Email was successfully sent' is displayed, and a 'Test configuration' button is visible.

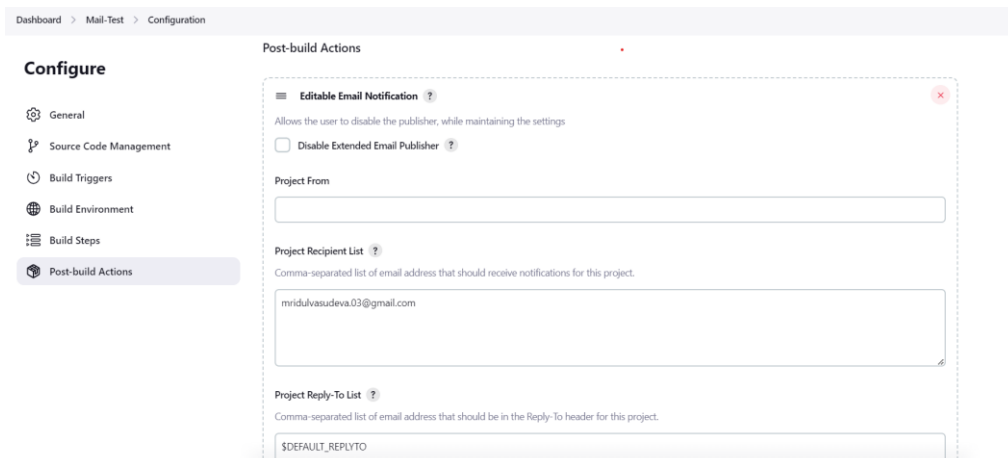
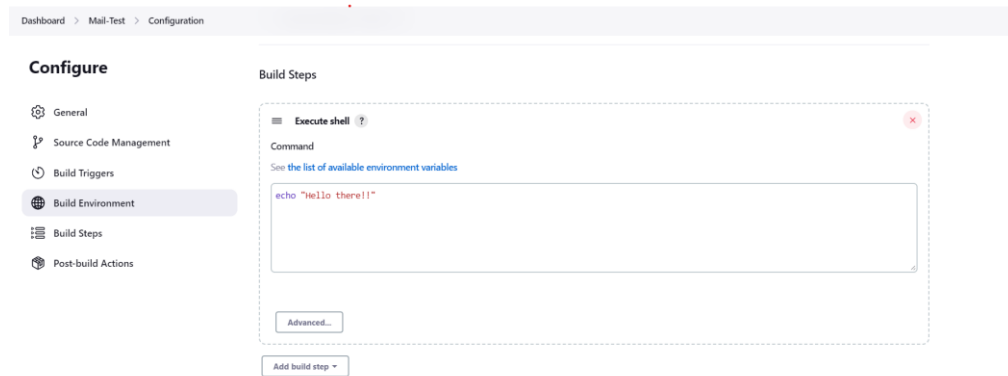
Task 3: Installing Email Notification Plugin

- Install the Email Extension plugin in Jenkins. Navigate to the Jenkins dashboard, click on "Manage Jenkins," select "Manage Plugins," and search for the "Email Extension" plugin. Install the plugin and restart Jenkins if necessary.



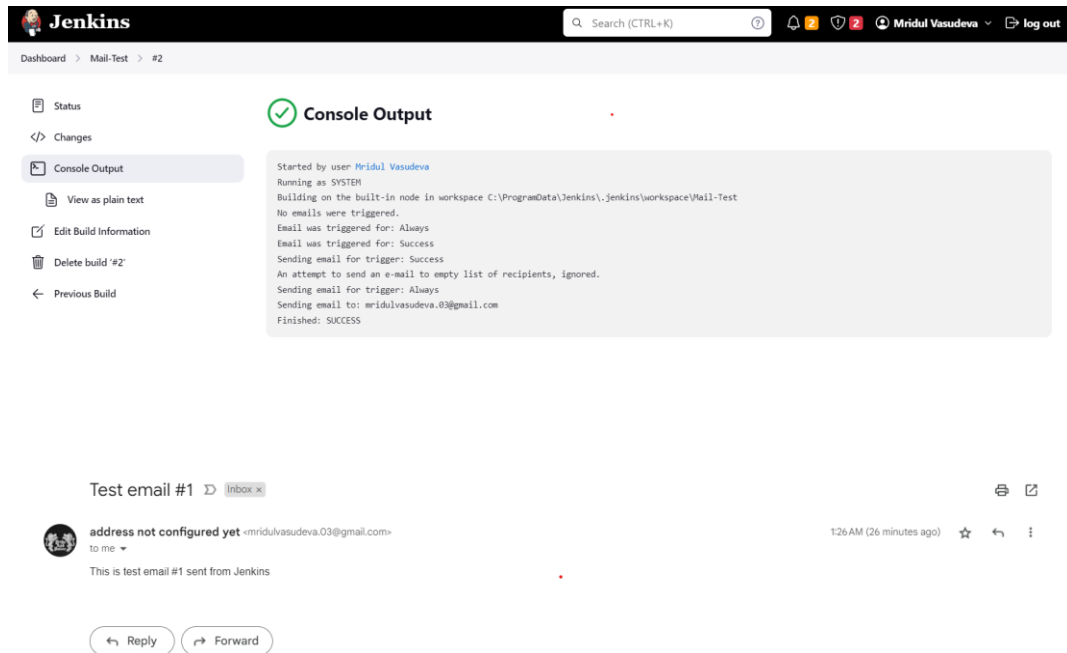
Task 4: Configuring Email Notifications in Jobs

- Open an existing Jenkins job or create a new one.
- Configure the job to send email notifications upon successful or failed builds.
- Specify the recipients' email addresses, subject, and email content in the job configuration.



Task 5: Testing Email Notifications

- Run the job and verify that the email notifications are sent upon build completion.
- Check the email inbox of the recipients to confirm that they received the notifications.



The screenshot displays the Jenkins web interface. The top navigation bar includes the Jenkins logo, a search bar, and user information for 'Mridul Vasudeva'. The breadcrumb trail shows 'Dashboard > Mail-Test > #2'. On the left sidebar, the 'Console Output' tab is selected, showing a list of actions: Status, Changes, Console Output (selected), View as plain text, Edit Build Information, Delete build '#2', and Previous Build. The main console output area shows a successful build with the following log:

```
Started by user Mridul Vasudeva
Running as SYSTEM
Building on the built-in node in workspace C:\ProgramData\Jenkins\jenkins\workspace\Mail-Test
No emails were triggered.
Email was triggered for: Always
Email was triggered for: Success
Sending email for trigger: Success
An attempt to send an e-mail to empty list of recipients, ignored.
Sending email for trigger: Always
Sending email to: mridulvasudeva.03@gmail.com
Finished: SUCCESS
```

Below the console output, an email inbox is shown. The selected email is titled 'Test email #1' and is from 'address not configured yet <mridulvasudeva.03@gmail.com>' to 'me'. The email body contains the text: 'This is test email #1 sent from Jenkins'. The email was received at '12:26 AM (26 minutes ago)'. At the bottom of the email view, there are buttons for 'Reply' and 'Forward'.