

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 image displays two screenshots of the Jenkins configuration interface for email notifications.

Top Screenshot: E-mail Notification

- Navigation: Dashboard > Manage Jenkins > Configure System
- Section: E-mail Notification
- SMTP server: smtp.gmail.com
- Default user e-mail suffix: (empty)
- Use SMTP Authentication: ☒ (Help icon)
- User Name: mridulvasudeva.03@gmail.com
- Password: (masked with dots)
- Use SSL: ☒ (Help icon)
- Use TLS: ☐

Bottom Screenshot: SMTP Port

- Navigation: Dashboard > Manage Jenkins > Configure System
- SMTP Port: 465
- Reply-To Address: mridulvasudeva.03@gmail.com
- Charset: UTF-8
- Test configuration by sending test e-mail: ☒ (Help icon)
- Test e-mail recipient: mridulvasudeva.03@gmail.com
- Status: Email was successfully sent
- Action: Test configuration

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.

The screenshot shows the Jenkins 'Plugin Manager' interface. On the left, a sidebar lists navigation options: Updates, Available plugins, Installed plugins, Advanced settings, and Download progress (which is highlighted). The main area is titled 'Download progress' and shows the status of various components. Under 'Preparation', there are three items: 'Checking internet connectivity' (Success), 'Checking update center connectivity' (Success), and 'Success'. Below this, 'Email Extension Template' and 'Loading plugin extensions' both show 'Success' with green checkmarks. At the bottom, there is a link to 'Go back to the top page' and a note: '(you can start using the installed plugins right away)'.

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.

This screenshot shows the 'Configure' page for a Jenkins job, specifically the 'Build Steps' section. The left sidebar lists configuration categories: General, Source Code Management, Build Triggers, Build Environment, Build Steps (highlighted), and Post-build Actions. The main content area shows a single build step named 'Execute shell'. The 'Command' field contains the text 'echo "Hello there!!"'. There are 'Advanced...' and 'Add build step' buttons at the bottom of the step configuration.

This screenshot shows the 'Configure' page for a Jenkins job, specifically the 'Post-build Actions' section. The left sidebar is the same as the previous screenshot, with 'Post-build Actions' now highlighted. The main content area shows a post-build action named 'E-mail Notification'. The 'Recipients' field contains the email address 'anshisaxena905@gmail.com'. Below this, there are two checkboxes: 'Send e-mail for every unstable build' (which is checked) and 'Send separate e-mails to individuals who broke the build' (which is unchecked). An 'Add post-build action' button is at the bottom.

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.

