

Lesson 05 Demo 06

Setting up Custom SMTP to Send Email Notification

Objective: To configure SMTP email notification in Jenkins for sending automated notifications and alerts

Tools required: Jenkins

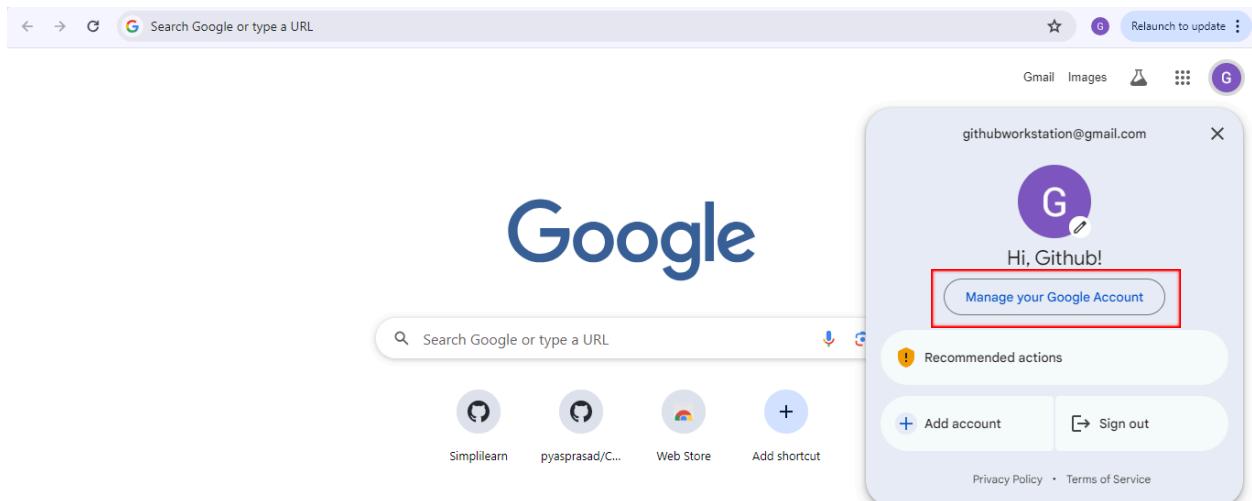
Prerequisites: Jenkins must be operational.

Steps to be followed:

1. Create an app password for SMTP configuration
2. Configure SMTP configurations in Jenkins

Step 1: Create an app password for SMTP configuration

1.1 Navigate to your Google account and click on **Manage your Google Account**



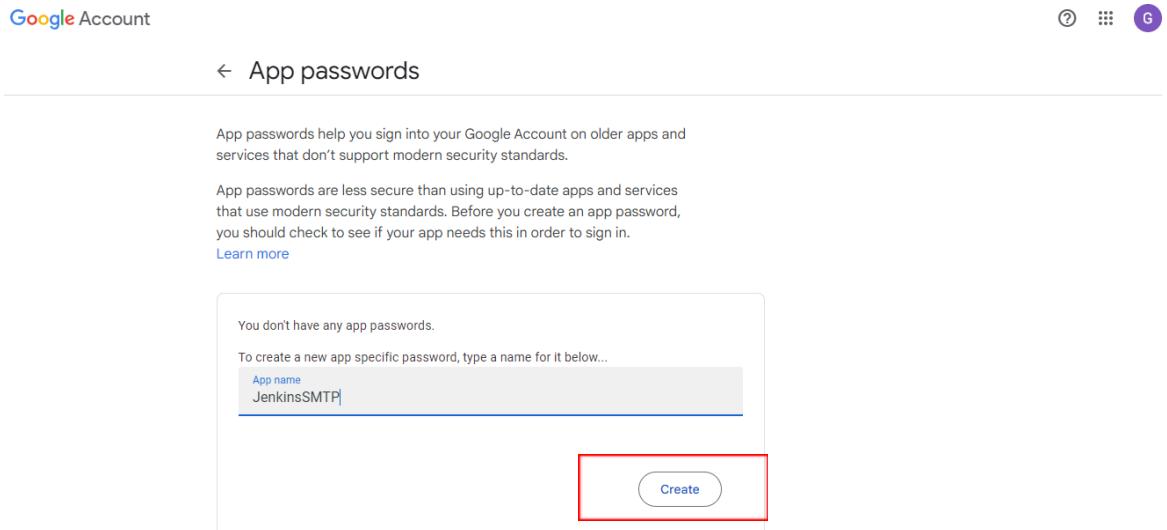
1.2 Now, navigate to **Security** and make sure you have **2-Step Verification** enabled

The screenshot shows the Google Account security settings page. On the left, a sidebar lists options: Home, Personal info, Data & privacy, **Security** (which is selected and highlighted with a red box), People & sharing, Payments & subscriptions, and About. The main content area is titled "How you sign in to Google" with the sub-instruction "Make sure you can always access your Google Account by keeping this information up to date". It lists several items: 2-Step Verification (status: On since Oct 19, 2023, checked), Passkeys and security keys (status: Start using passkeys), Password (status: Last changed Oct 19, 2023), Skip password when possible, and Google prompt (status: 1 device).

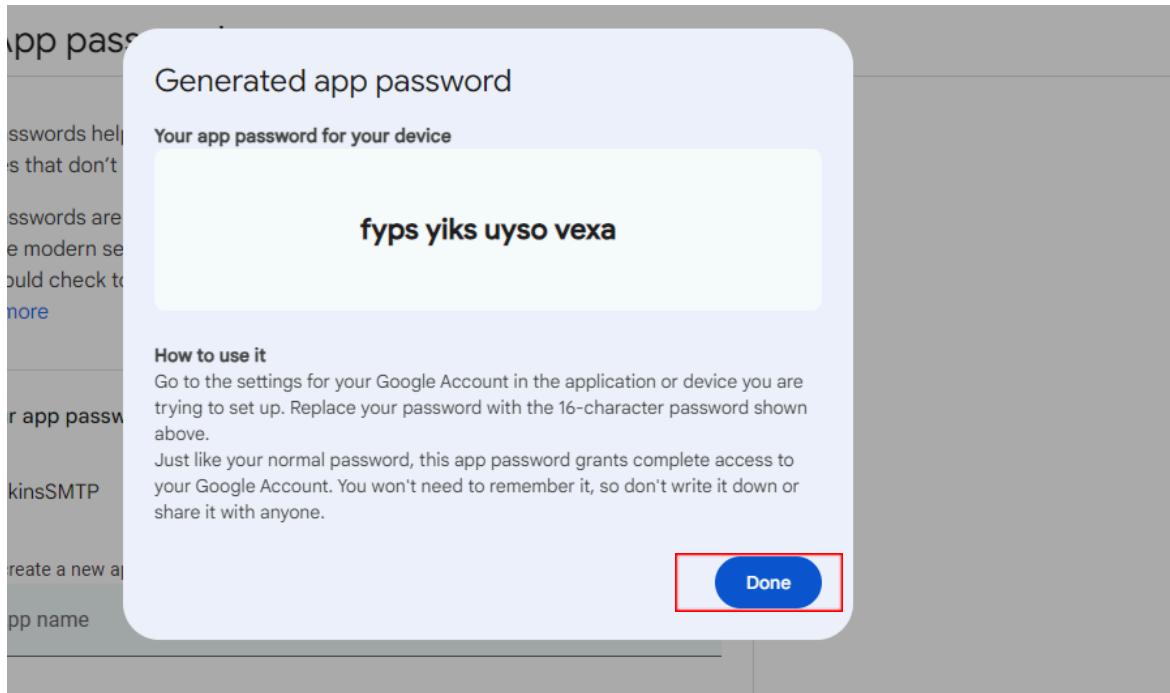
1.3 In **Security**, search for **App passwords** and click on it

The screenshot shows the Google Account security settings page. The sidebar is identical to the previous one, with the **Security** option selected and highlighted with a red box. A search bar at the top right contains the text "app". Below the search bar, a dropdown menu shows "3 RESULTS": Your connections to third-party apps & services (Security), App passwords (selected and highlighted with a red box), and Web & App Activity (Data & privacy). To the right of the results, there is a shield icon with an exclamation mark and the text "Protect your account".

1.4 Provide the app name as **JenkinsSMTP** and click on **Create**

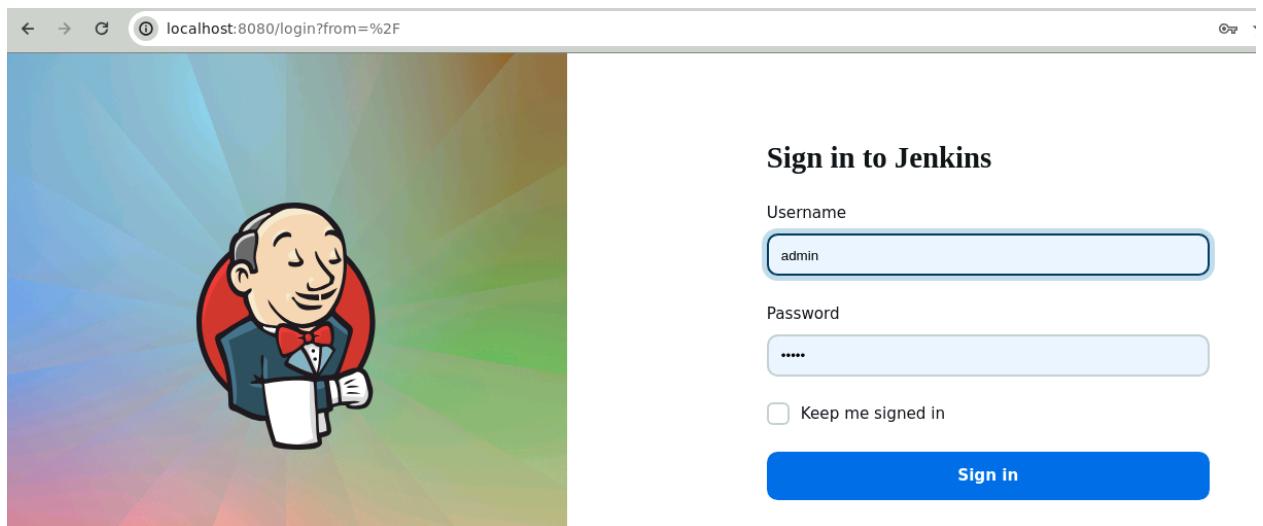


1.5 It will generate the app password. Copy the password and save it for future reference, then click on **Done**.



Step 2: Configure SMTP configurations in Jenkins

2.1 Sign in to Jenkins using your credentials

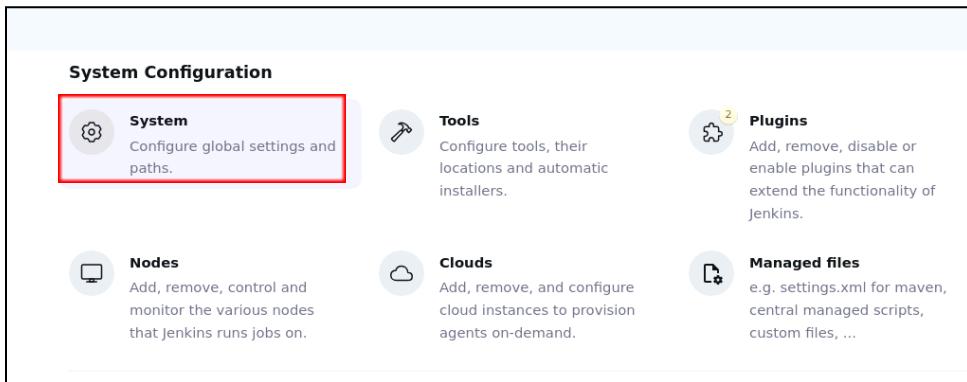


Note: The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

2.2 Navigate to Manage Jenkins in the Jenkins dashboard

A screenshot of the Jenkins dashboard. At the top, there's a navigation bar with the Jenkins logo, a search bar labeled 'Search (CTRL+K)', and several status icons. Below the bar, a sidebar on the left lists various Jenkins management options: 'New Item', 'People', 'Build History', 'Manage Jenkins' (which is highlighted with a red box), 'My Views', and 'Lockable Resources'. On the right side, the main content area has a heading 'Welcome to Jenkins!' and a sub-heading 'Start building your software project'. It also includes a 'Create a job' button and a '+' icon. The overall interface is white with blue and grey accents.

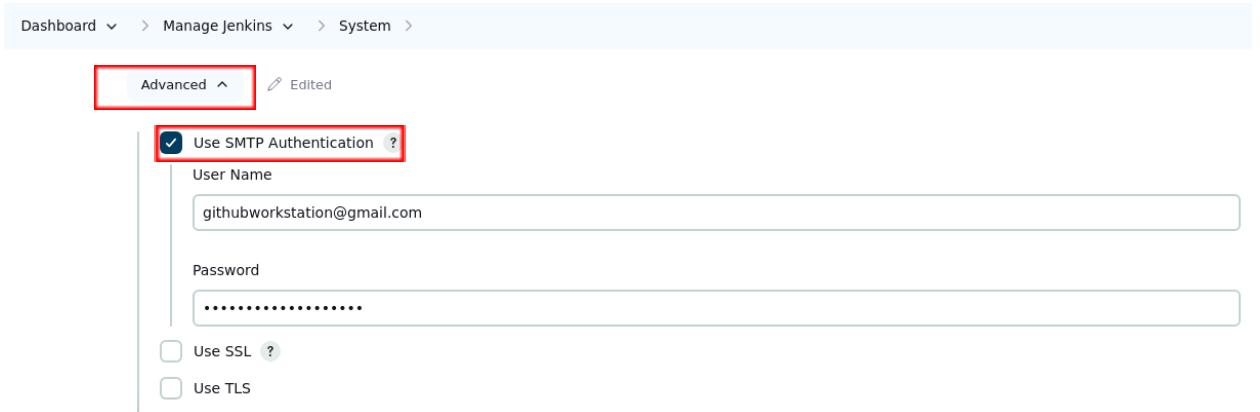
2.3 Now, click on **System** under **System Configuration**



2.4 In the **System** section, scroll down to **E-mail Notification** section and provide **smtp.gmail.com** as the **SMTP server**



2.5 Click on **Advanced**, select **Use SMTP Authentication**, provide your email ID as **User Name**, and then provide previously generated App password in the **Password**



2.6 Select both Use SSL and Use TLS, and add 465 as the SMTP Port

The screenshot shows the Jenkins System configuration page. Under the 'System' section, there are two checked checkboxes: 'Use SSL' and 'Use TLS'. Below these, the 'SMTP Port' field contains the value '465', which is highlighted with a red box. There are also fields for 'Reply-To Address' and 'Charset' (set to 'UTF-8').

2.7 Now, click on Test configuration by sending test e-mail, provide your email ID under Test e-mail recipient, then click on Test configuration

The screenshot shows the Jenkins System configuration page. The 'Test configuration by sending test e-mail' checkbox is checked and highlighted with a red box. In the 'Test e-mail recipient' field, the email 'githubworkstation@gmail.com' is entered. A 'Test configuration' button is visible at the bottom right, also highlighted with a red box.

The screenshot shows the Jenkins System configuration page after a test email was sent. The 'Test configuration by sending test e-mail' checkbox is checked. The 'Test e-mail recipient' field shows 'githubworkstation@gmail.com'. A message box at the bottom left states 'Email was successfully sent', which is also highlighted with a red box. The 'Test configuration' button is visible at the bottom right.

You can see the email has been sent successfully.

By following these steps, you have successfully configured SMTP email notification in Jenkins to send automated notifications and alerts.