

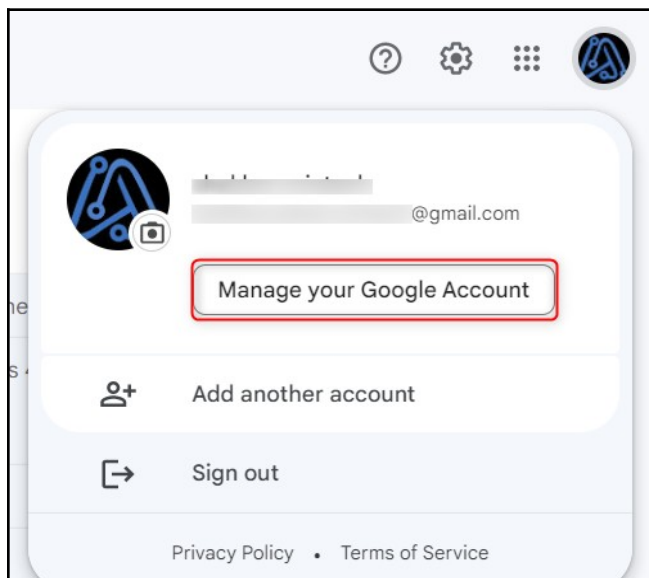
Gmail integration with Jenkins

Objective:

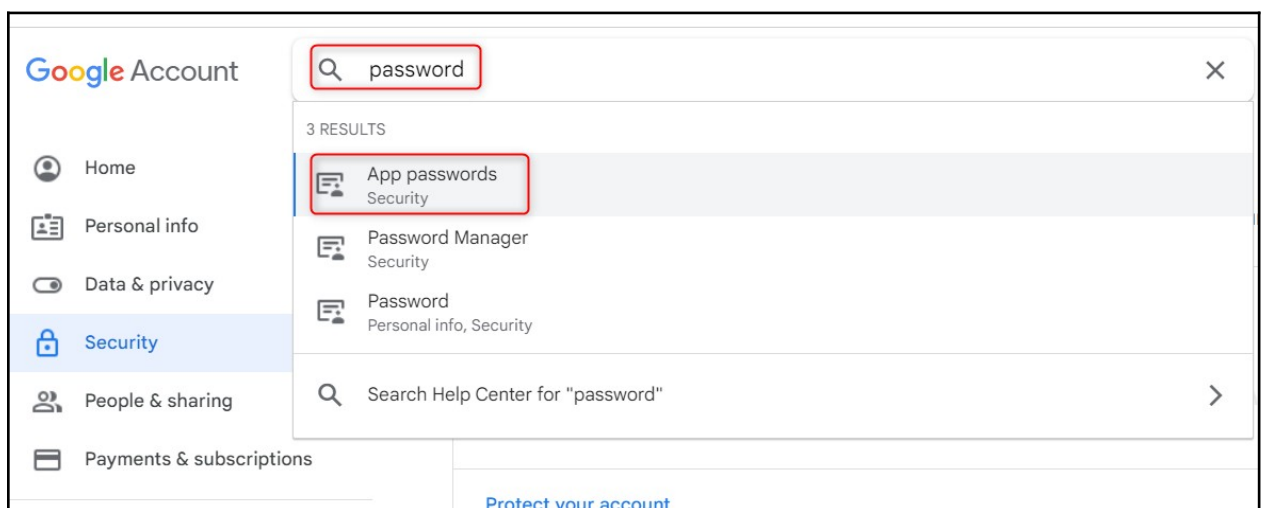
In this lab, you will learn how to configure and integrate email with Jenkins for notification purposes.

Prerequisites: Gmail account with enabled 2-step verification.

1. Access your Gmail account and navigate to the option of managing your Google account.



2. Go to the security section and search for the App passwords and click on it.



3. To Generate the App password for mail, select **Mail** and in the select device section select **Other (Custom name)**

← App passwords

App passwords let you sign in to your Google Account from apps on devices that don't support 2-Step Verification. You'll only need to enter it once so you don't need to remember it. [Learn more](#)

You don't have any app passwords.

Select the app and device you want to generate the app password for.

Mail ▼ Select device

- iPhone
- iPad
- BlackBerry
- Mac
- Windows Phone
- Windows Computer
- Other (Custom name)**

GENERATE

4. Provide the suitable label "**Pipeline**" and click on "**GENERATE**".

← App passwords

App passwords let you sign in to your Google Account from apps on devices that don't support 2-Step Verification. You'll only need to enter it once so you don't need to remember it. [Learn more](#)

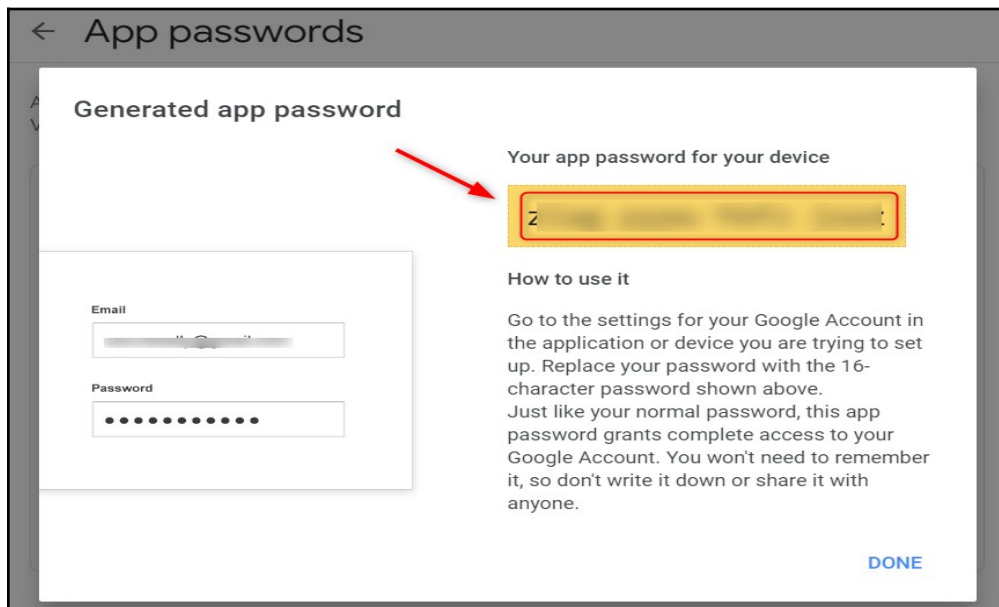
You don't have any app passwords.

Select the app and device you want to generate the app password for.

Pipeline ✕

GENERATE

5. Copy and save the password generated in Notepad. We will require this App password for subsequent steps. Then, click on "**Done**".



6. Now Go back to your **Jenkins Dashboard**→**Go to the Managed Jenkins**→**Configure System**. Look for "**Jenkins Location**" and input your admin email address.

Jenkins Location

Jenkins URL ?

http://[redacted]

System Admin e-mail address ?

[redacted]@gmail.com

7. Scroll down to "**Email Notification**", then enter "**smtp.gmail.com**" as the SMTP server and "**@gmail.com**" in the "**Default user e-mail suffix**" field. Next, click on "**Advanced**".


E-mail Notification

SMTP server

smtp.gmail.com

Default user e-mail suffix ?

@gmail.com

Advanced 

☐ Test configuration by sending test e-mail

8. Select “**Use SMTP Authentication**” and enter the following details.

User Name: <User_Email_ID>

Password: <Paste the generated App password here>

Tick the box next to "Use TLS", enter "587" as the SMTP port, and save the changes.

Click "**Apply**".

> Manage Jenkins > Configure System >

E-mail Notification

SMTP server

smtp.gmail.com

Default user e-mail suffix ?

@gmail.com

Advanced ^ Edited

☒ Use SMTP Authentication ?

User Name

@gmail.com

Password

.....

☐ Use SSL ?

☒ Use TLS

SMTP Port ?

587

Reply-To Address

Charset

UTF-8

Save Apply

9. To check if the configuration is correct, select **Manage Jenkins → Configure System**. Then, scroll down to the **"E-mail Notification"** section and select the option to test the configuration by sending a test email. Enter the recipient's email address and click on **"Test configuration"**.

☒ Test configuration by sending test e-mail

Test e-mail recipient

: gmail.com

Email was successfully sent

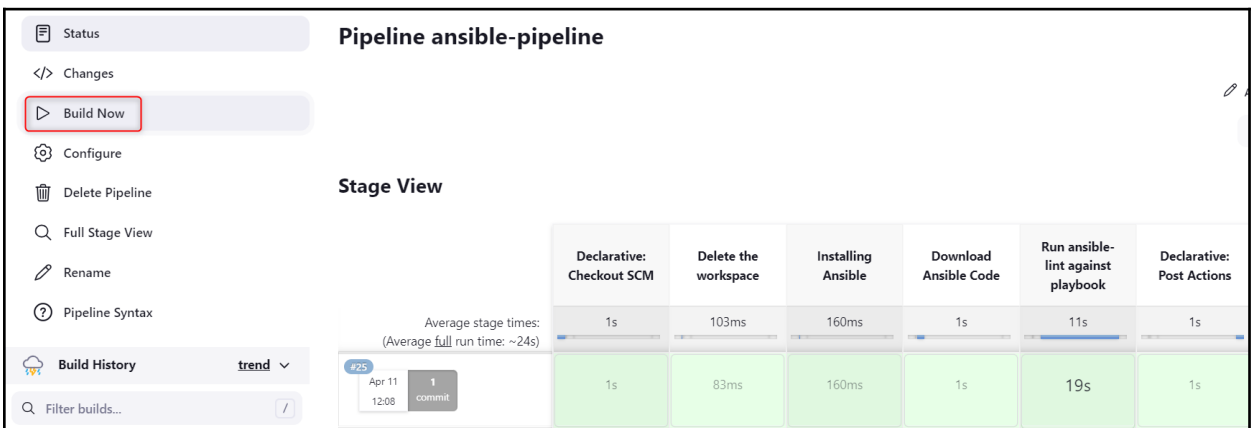
Test configuration

10. Add the declarative post-action to your **Jenkins file**, placing it after the end of the stages block and the end of the pipeline block. Afterwards, add, commit, and push the changes.

```
}  
    post {  
        always {  
            echo "Notifying build result by email"  
        }  
        success {  
            mail to: 'your_email@gmail.com',  
                subject: "SUCCESS: ${currentBuild.fullDisplayName}",  
                body: "EMAIL NOTIFICATION congratulations! The Jenkins pipeline has successfully completed without any errors"  
        }  
        failure {  
            mail to: 'your_email@gmail.com',  
                subject: "FAILURE: ${currentBuild.fullDisplayName}",  
                body: "Test Complete Build Failed"  
        }  
    }  
}  
}
```

```
} ← End of the stages block  
    post {  
        always {  
            echo "Notifying build result by email"  
        }  
        success {  
            mail to: 'your_email@gmail.com',  
                subject: "SUCCESS: ${currentBuild.fullDisplayName}",  
                body: "EMAIL NOTIFICATION congratulations! The Jenkins pipeline has successfully completed without any errors"  
        }  
        failure {  
            mail to: 'your_email@gmail.com',  
                subject: "FAILURE: ${currentBuild.fullDisplayName}",  
                body: "Test Complete Build Failed"  
        }  
    }  
} ← End of the pipeline block
```

11. Go to your “ansible pipeline” and click on ‘Build Now’.



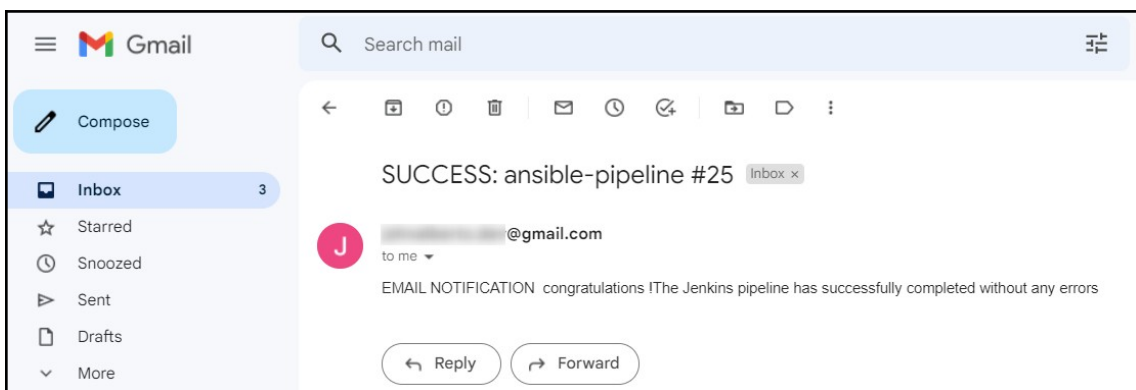
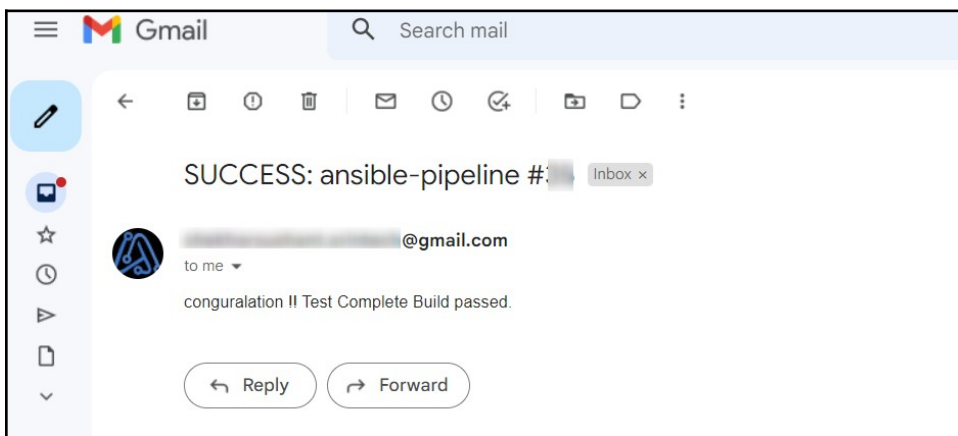
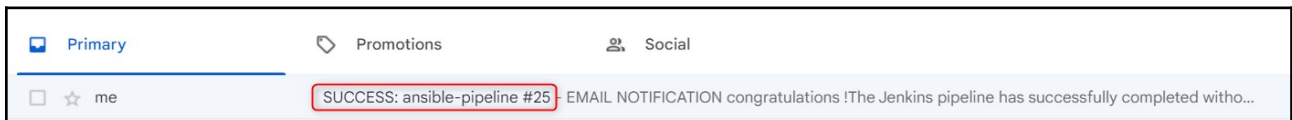
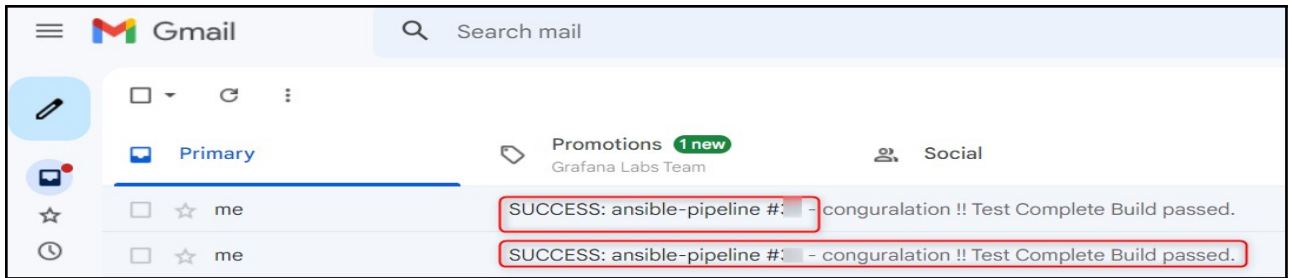
Pipeline ansible-pipeline

Build Now

Stage View

	Declarative: Checkout SCM	Delete the workspace	Installing Ansible	Download Ansible Code	Run ansible-lint against playbook	Declarative: Post Actions
Average stage times: (Average full run time: ~24s)	1s	103ms	160ms	1s	11s	1s
#25 Apr 11 12:08 1 commit	1s	83ms	160ms	1s	19s	1s

12. After the build completed you will get an email notification, as shown below:



Notify your instructor that you are done with the lab

END OF LAB