

Lesson 07 Demo 02

Setting up Slack Channel for Configuring Build Notifications

Objective: To set up Slack channel for configuring build notifications for receiving updates about the build process

Tools required: Jenkins

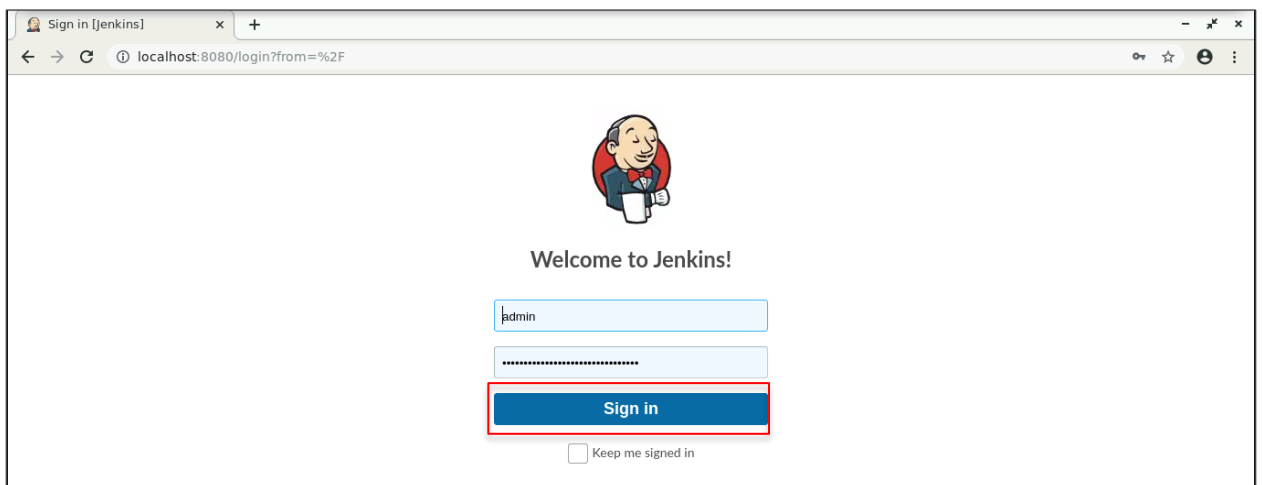
Prerequisites: Slack account

Steps to be followed:

1. Log in to the Jenkins CI tool and create a freestyle job
2. Set up Slack channel
3. Configure Slack in Jenkins

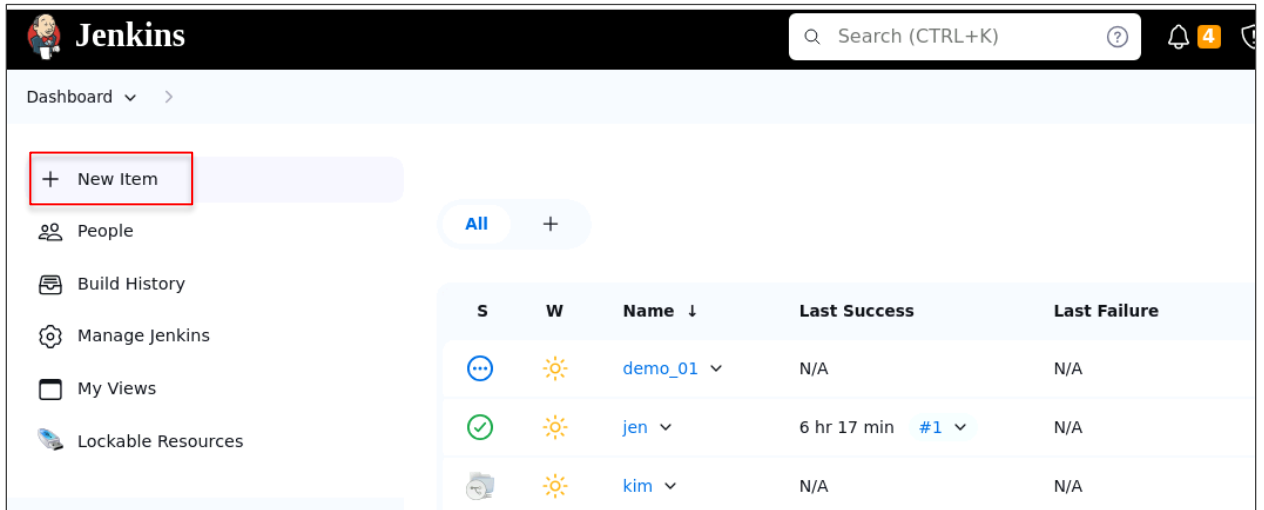
Step 1: Log in to the Jenkins CI tool and create a freestyle job

- 1.1 Open the browser, go to the Jenkins **Dashboard** by typing **localhost:8080** in your browser, provide the credentials, and click the **Sign in** button

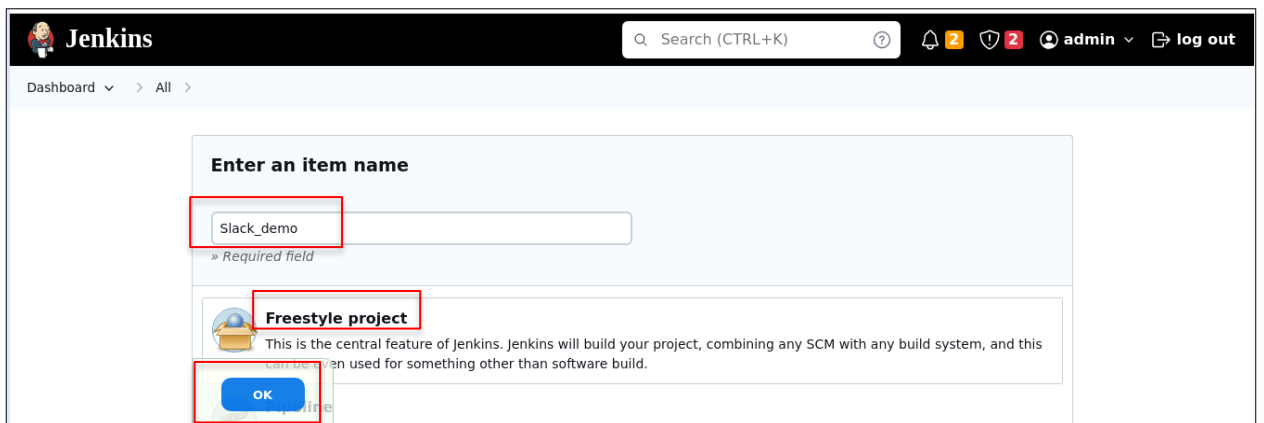


Note: The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

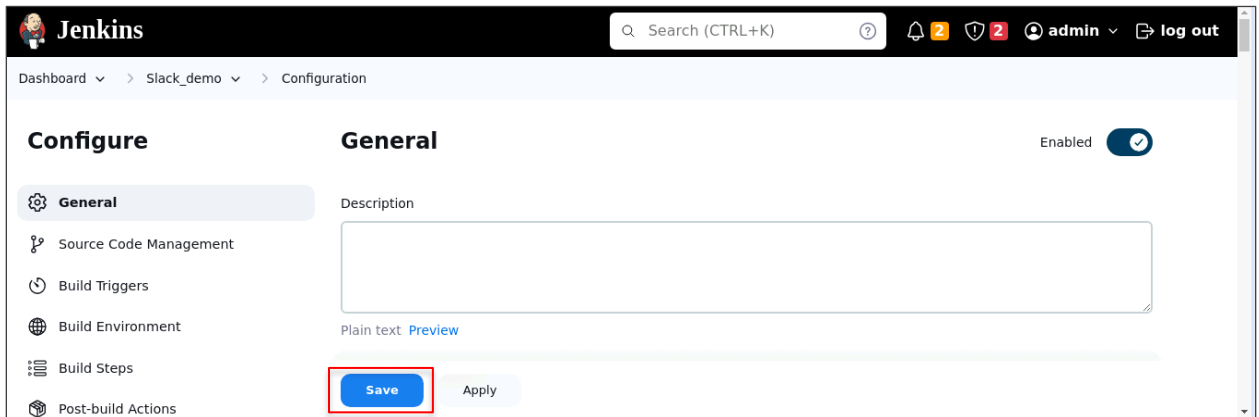
1.2 Click on the **New Item** option as shown in the screenshot below:



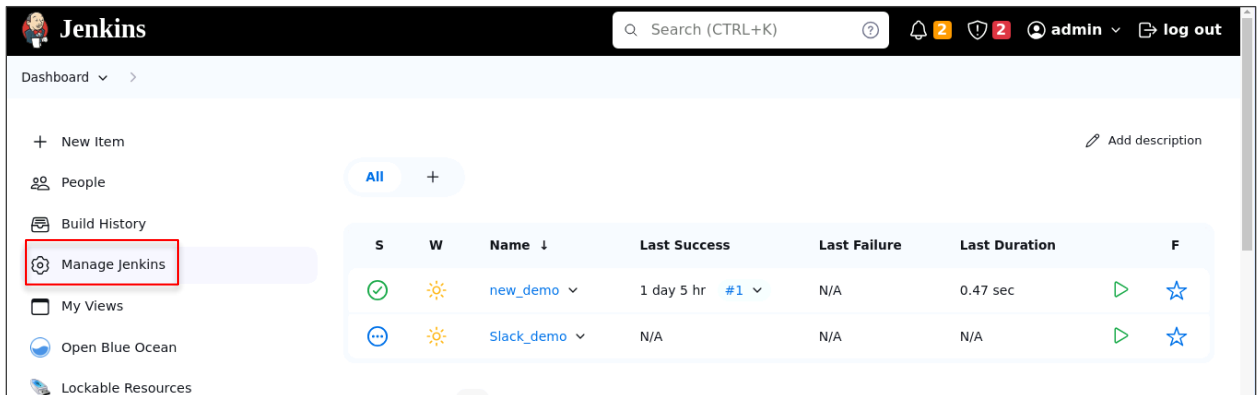
1.3 Enter a desired name for the project, select **Freestyle project**, and then click on **OK** as shown in the screenshot below:



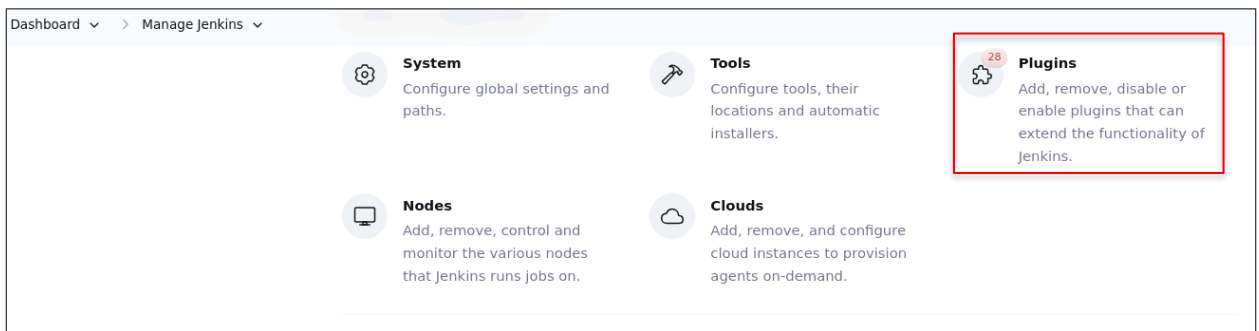
1.4 Click on **Save** button as shown in the screenshot below:



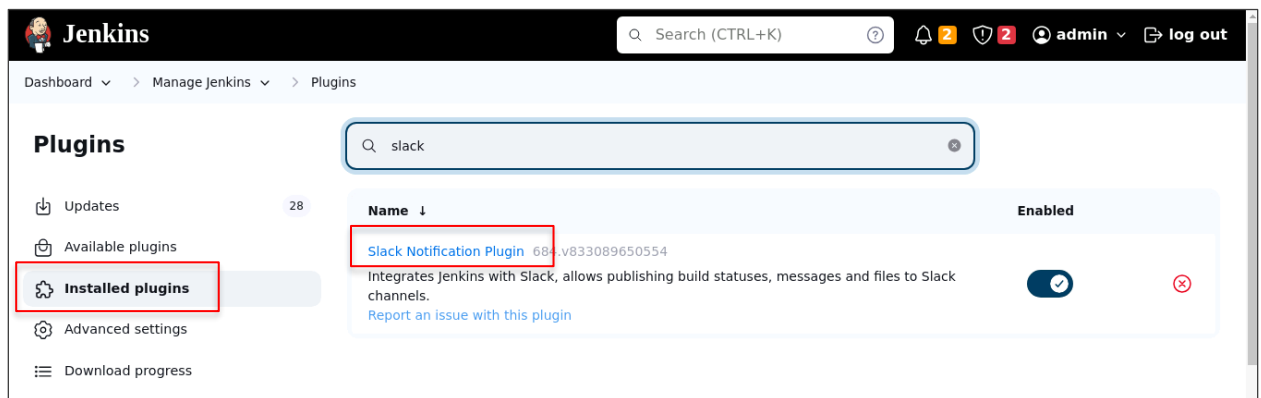
1.5 Click on **Manage Jenkins** as shown in the screenshot below:



1.6 Click on **Plugins** as shown in the screenshot below:



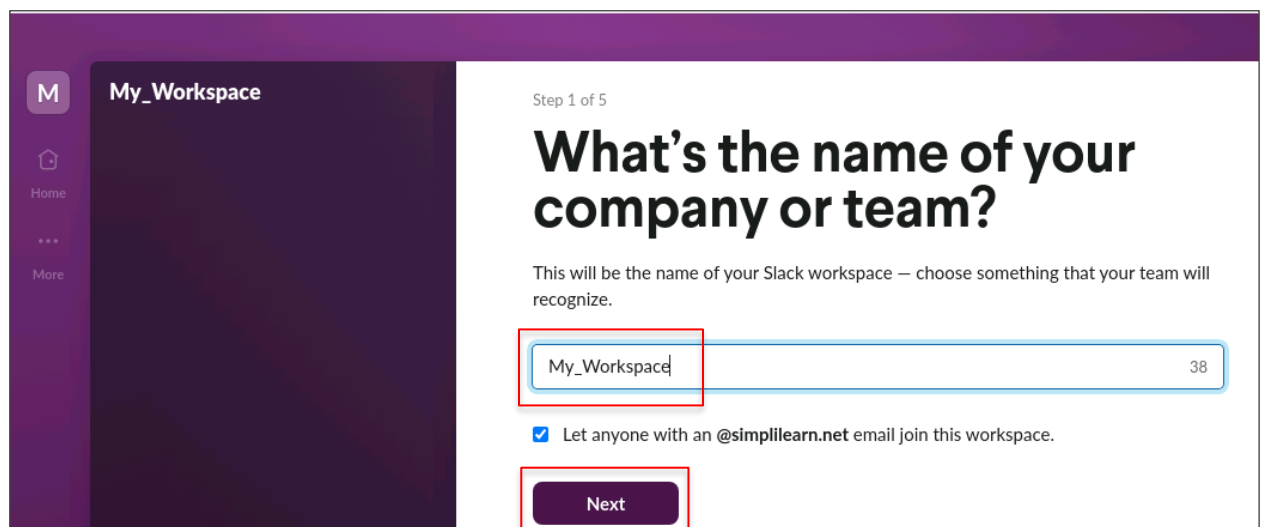
- 1.7 Click on **Installed plugins** to verify whether the **Slack Notification Plugin** has been installed



Note: Slack Notification Plugin is already installed in your practice lab environment. If not, click on **Available plugins** and search for **Slack Notification Plugin** and install it.

Step 2: Set up Slack channel

- 2.1 Open the browser, go to Slack, enter a desired name of your company or team, and then click on **Next** as shown in the screenshot below:



Note: Ensure that you create a personal Slack account using your personal email address to proceed

2.2 Enter a desired name for your profile and then click on **Next** as shown in the screenshot below:

The screenshot shows a web interface for setting up a workspace profile. On the left is a dark purple sidebar with a menu: 'M' (My_Workspace), 'Home', and 'More'. The main content area is white. At the top, there's a text input field containing 'Simp'. Below it, a section titled 'Your profile photo (optional)' includes the text 'Help your teammates know they're talking to the right person.' and a large square placeholder with a white 'P' on a brown background. An 'Edit Photo' button is below the placeholder. At the bottom right of the main area is a dark purple button labeled 'Next'.

2.3 Click on **Skip this step** as shown in the screenshot below:

The screenshot shows the next step in the workspace setup. The sidebar is similar, but the main heading is 'Who else is on the My_Workspace team?'. Below it is the text 'Add coworker by email' and a link 'Add from Google Contacts'. A large text input field contains the placeholder 'Ex. ellis@simplilearn.net, maria@simplilearn.net'. At the bottom, there are three buttons: 'Next', 'Copy Invite Link', and 'Skip this step'.

Note: You can skip this step, as it is not necessary to add any coworker email in here.

2.4 Enter a desired channel name and then click on **Next** as shown in the screenshot below:

Step 4 of 5

What's your team working on right now?

This could be anything: a project, campaign, event, or the deal you're trying to close.

 70

2.5 Click on **Start with Free** as shown in the screenshot below:

Step 5 of 5

Your Slack workspace is ready to go!

Choose a plan to get started:

Free For teams trying out Slack

\$0 per person/month

Start With Free

- 90 days of message history
- 1:1 audio/video conversations

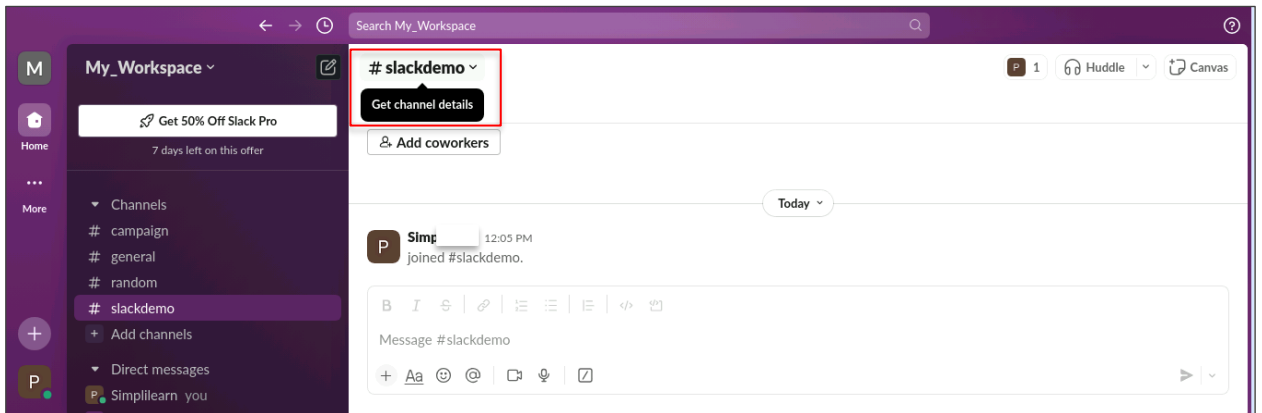
Pro For professional teams

50% Off * ~~\$8.75~~ \$4.38 USD per person/month

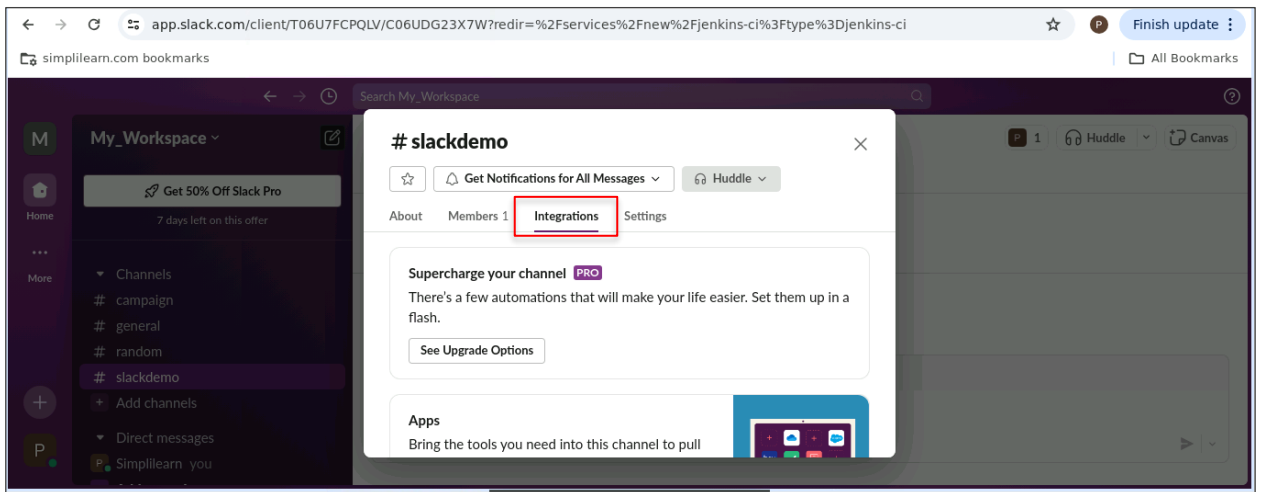
Upgrade to Pro

- Unlimited message history
- Unlimited audio/video conversations

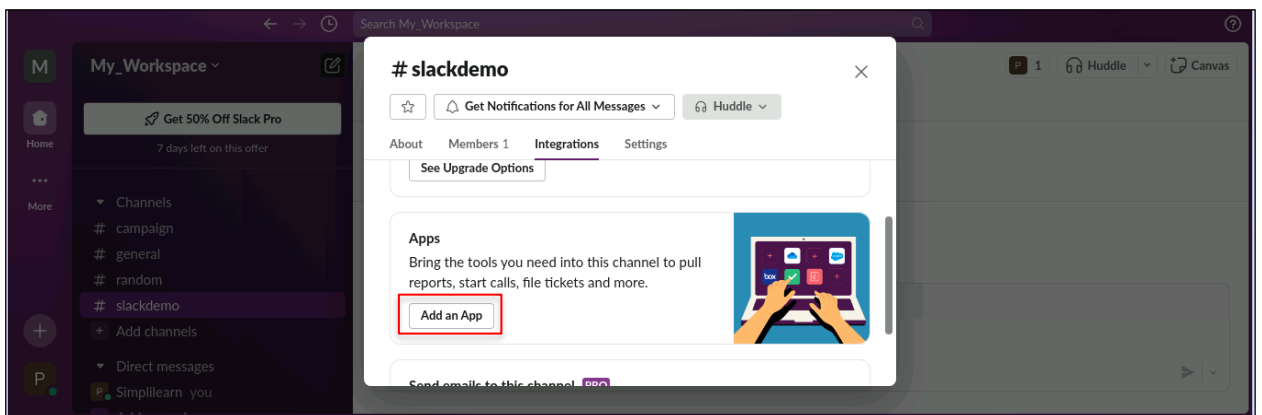
2.6 Click on the channel name that you have created as shown in the screenshot below:



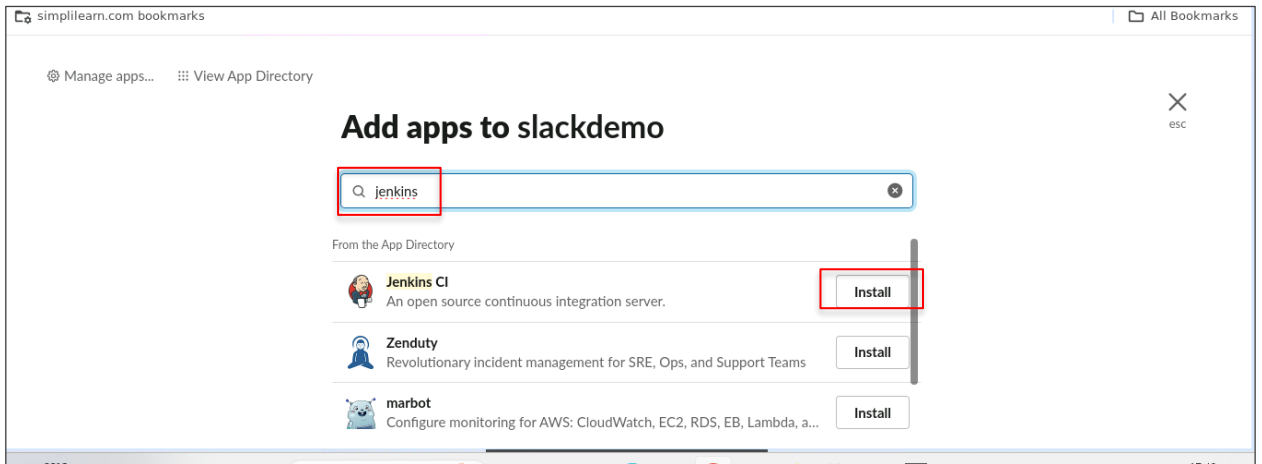
2.7 Click on **Integrations** as shown in the screenshot below:



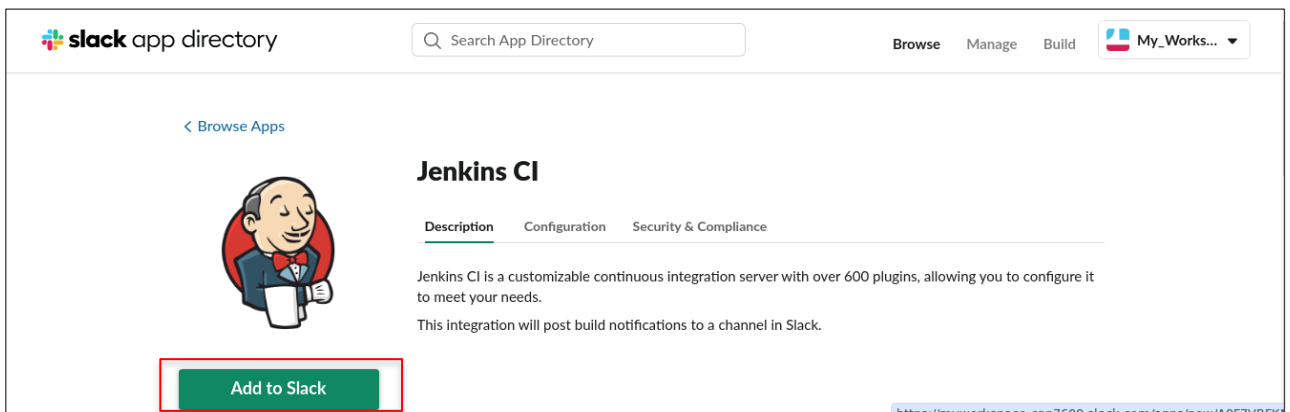
2.8 Click on **Add an App** as shown in the screenshot below:



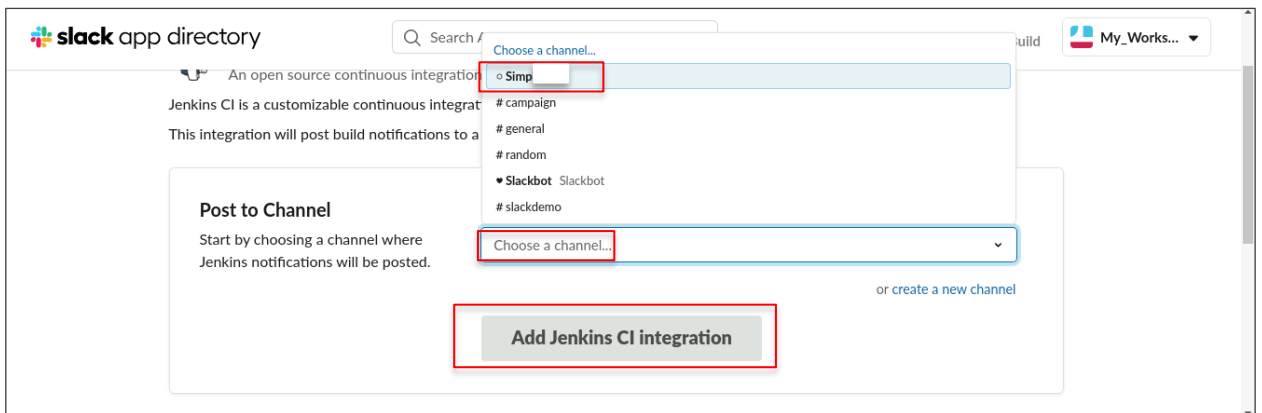
2.9 Search for Jenkins and then click on **Install** as shown in the screenshot below:



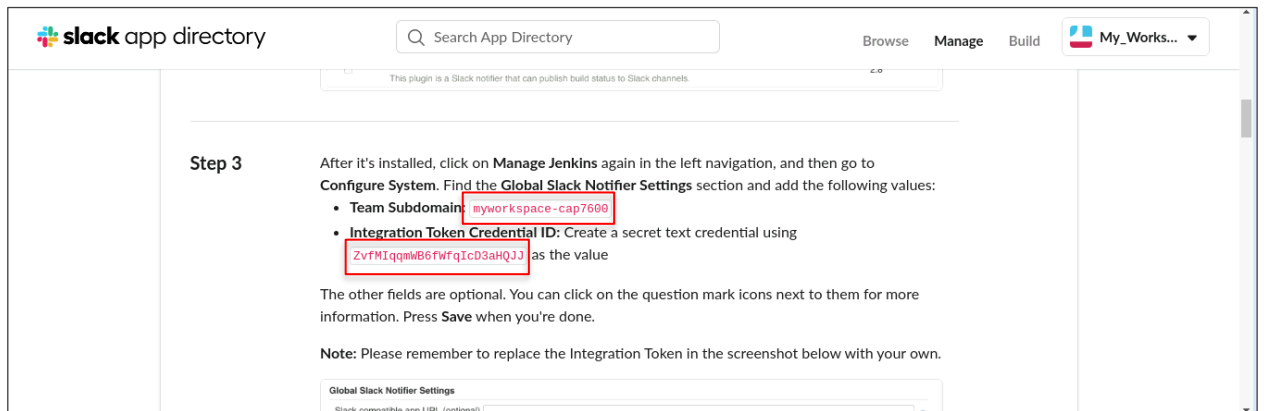
2.10 Click on **Add to Slack** as shown in the screenshot below



2.11 Click on the **Choose a channel...** drop-down, select the channel that you have created, and then click on **Add Jenkins CI integration** as shown in the screenshot below:



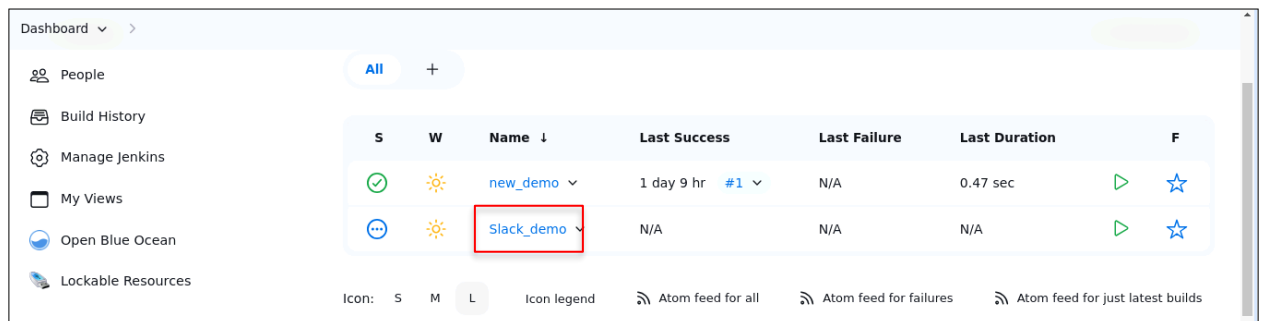
2.12 Scroll down to **Step 3** in the notifier page; you will see subdomain name and secret text credential as shown in the screenshot below:



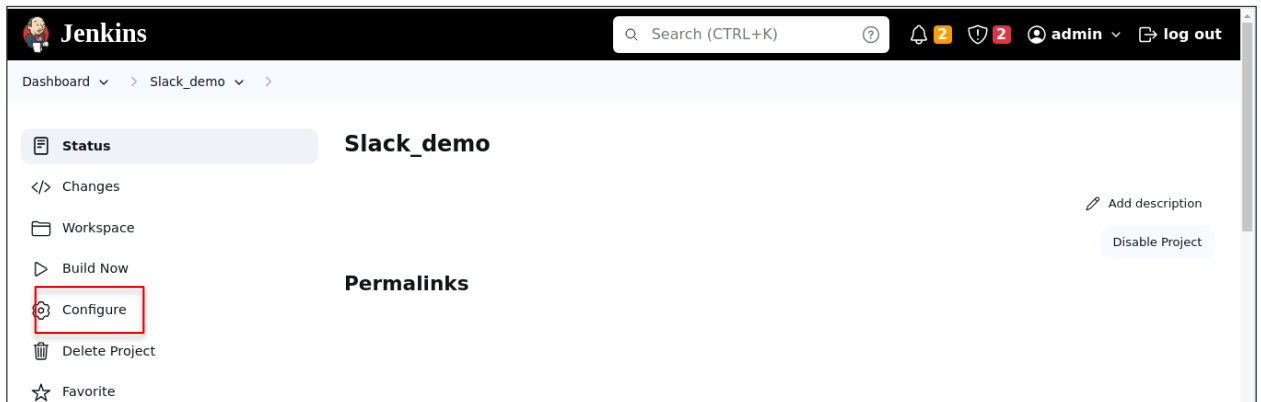
Note: Note down the subdomain and token credential for further steps

Step 3: Configure Slack in Jenkins

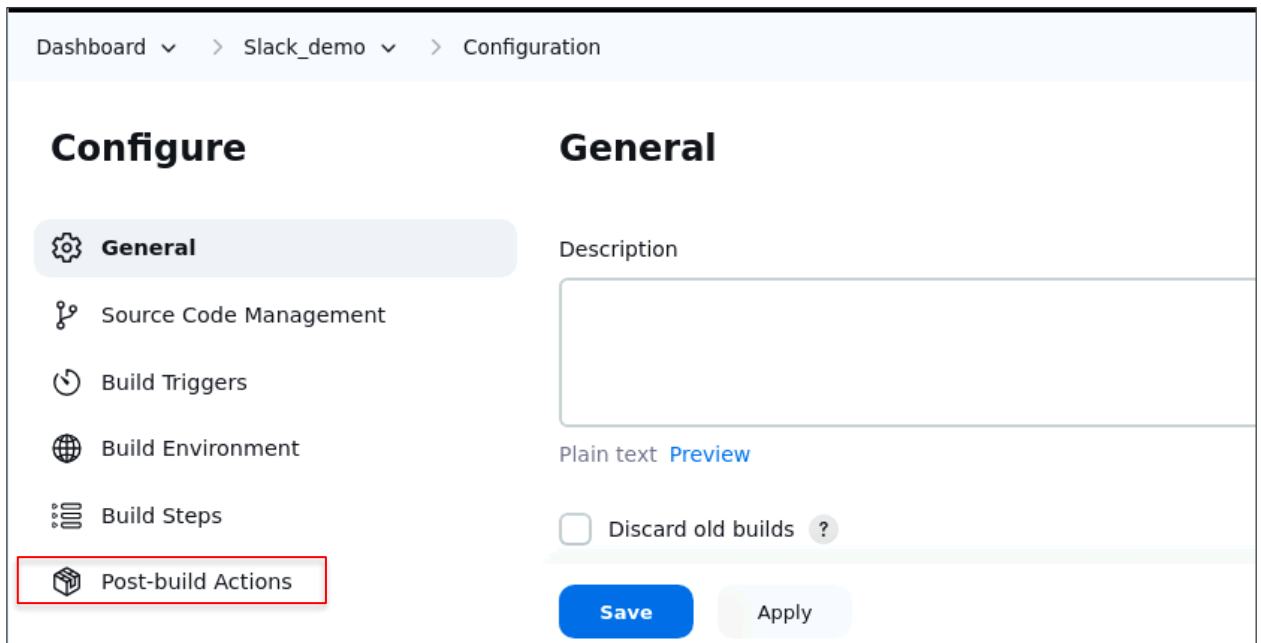
3.1 Navigate into your Jenkins **Dashboard** and click on the Freestyle job that you have created as shown in the screenshot below:



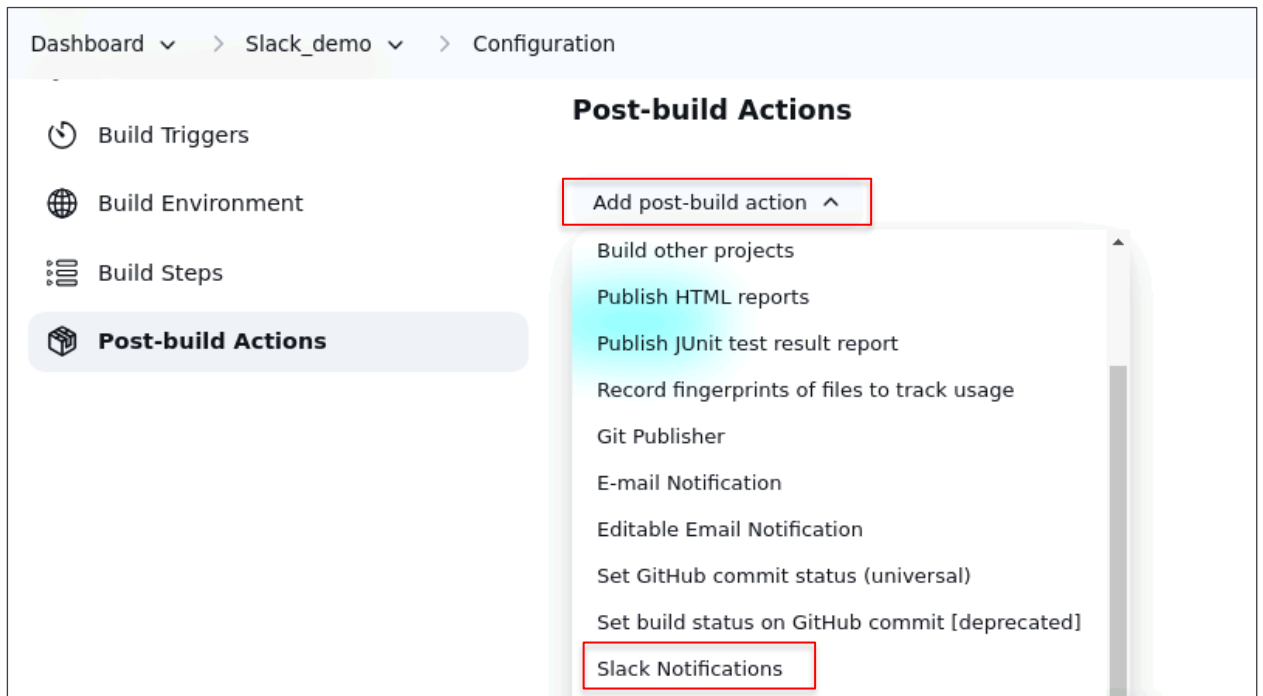
3.2 Click on **Configure** as shown in the screenshot below:



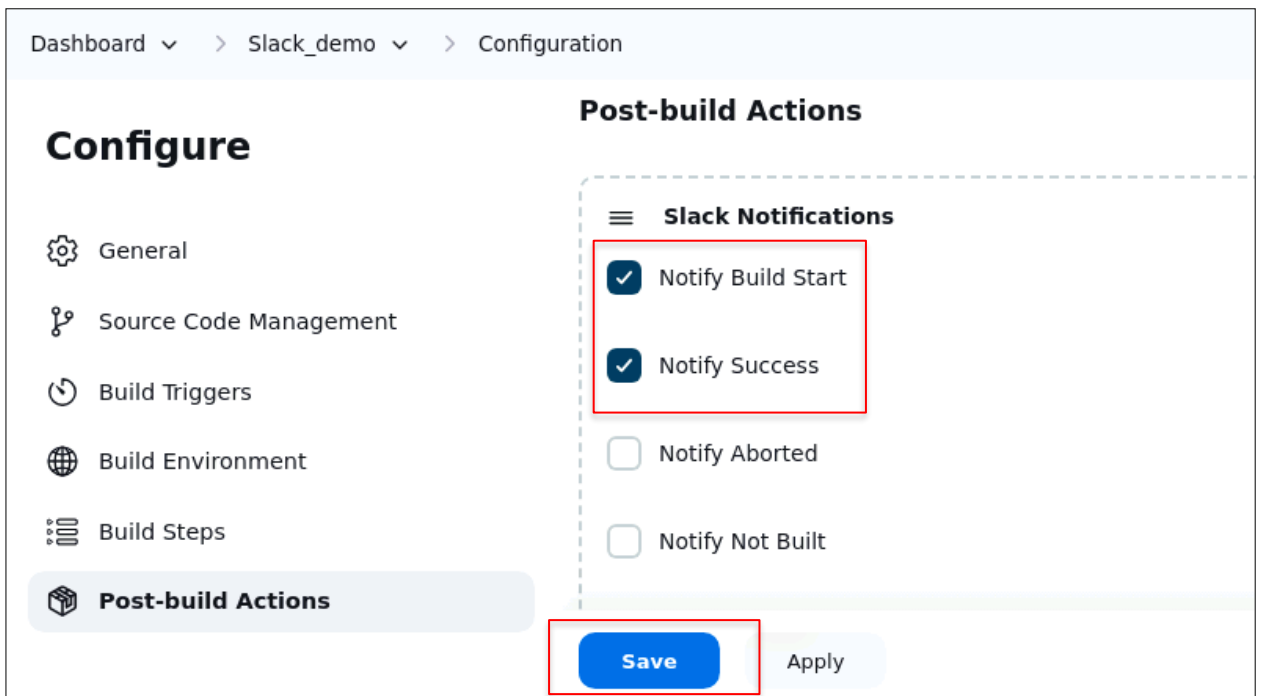
3.3 Click on **Post-build Actions** as shown in the screenshot below:



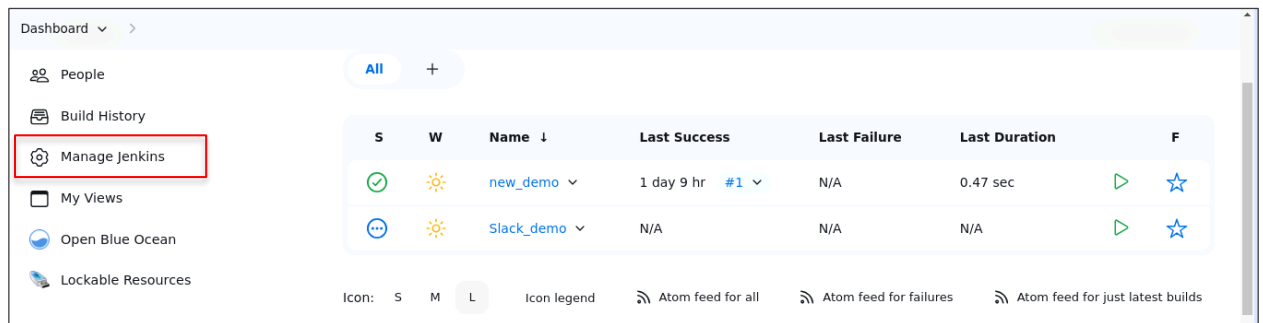
3.4 Click on **Add post-build action** drop-down and select **Slack Notifications** as shown in the screenshot below:



3.5 Select the desired notifications and then click on **Save** as shown in the screenshot below:



3.6 Click on **Manage Jenkins** as shown in the screenshot below:

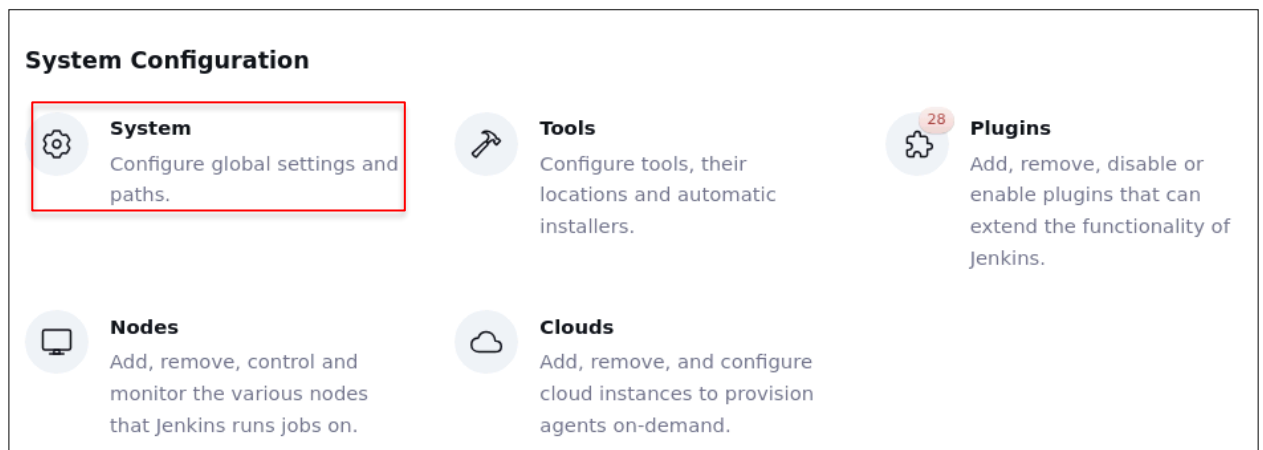


The screenshot shows the Jenkins Dashboard. On the left sidebar, the 'Manage Jenkins' option is highlighted with a red box. The main content area displays a table of build jobs. The table has columns for 'S' (Success), 'W' (Warning), 'Name', 'Last Success', 'Last Failure', 'Last Duration', and 'F' (Favorite). Two jobs are listed: 'new_demo' and 'Slack_demo'.

S	W	Name ↓	Last Success	Last Failure	Last Duration	F
✓	⚠	new_demo ↓	1 day 9 hr #1 ↓	N/A	0.47 sec	★
⋯	⚠	Slack_demo ↓	N/A	N/A	N/A	★

At the bottom, there are links for 'Icon: S M L', 'Icon legend', and three Atom feed links: 'Atom feed for all', 'Atom feed for failures', and 'Atom feed for just latest builds'.

3.7 Click on **System** as shown in the screenshot below:



The screenshot shows the 'System Configuration' page. The 'System' option is highlighted with a red box. The page contains five configuration categories: System, Tools, Plugins, Nodes, and Clouds.

- System**: Configure global settings and paths.
- Tools**: Configure tools, their locations and automatic installers.
- Plugins**: Add, remove, disable or enable plugins that can extend the functionality of Jenkins. (28 plugins available)
- Nodes**: Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Clouds**: Add, remove, and configure cloud instances to provision agents on-demand.

3.8 Scroll down to the bottom of the screen; under the **Slack** section, enter your workspace name, which is the Subdomain name, as shown in the screenshot below:

Dashboard > Manage Jenkins > System

Slack

Workspace ?
myworkspace-cap7600

Credential ?
- none -
+ Add

Default channel / member id ?

Save Apply

Note: Refer to the step 2.12 for Subdomain name

3.9 Click on **Add** as shown in the screenshot below:

Dashboard > Manage Jenkins > System

Workspace ?
myworkspace-cap7600

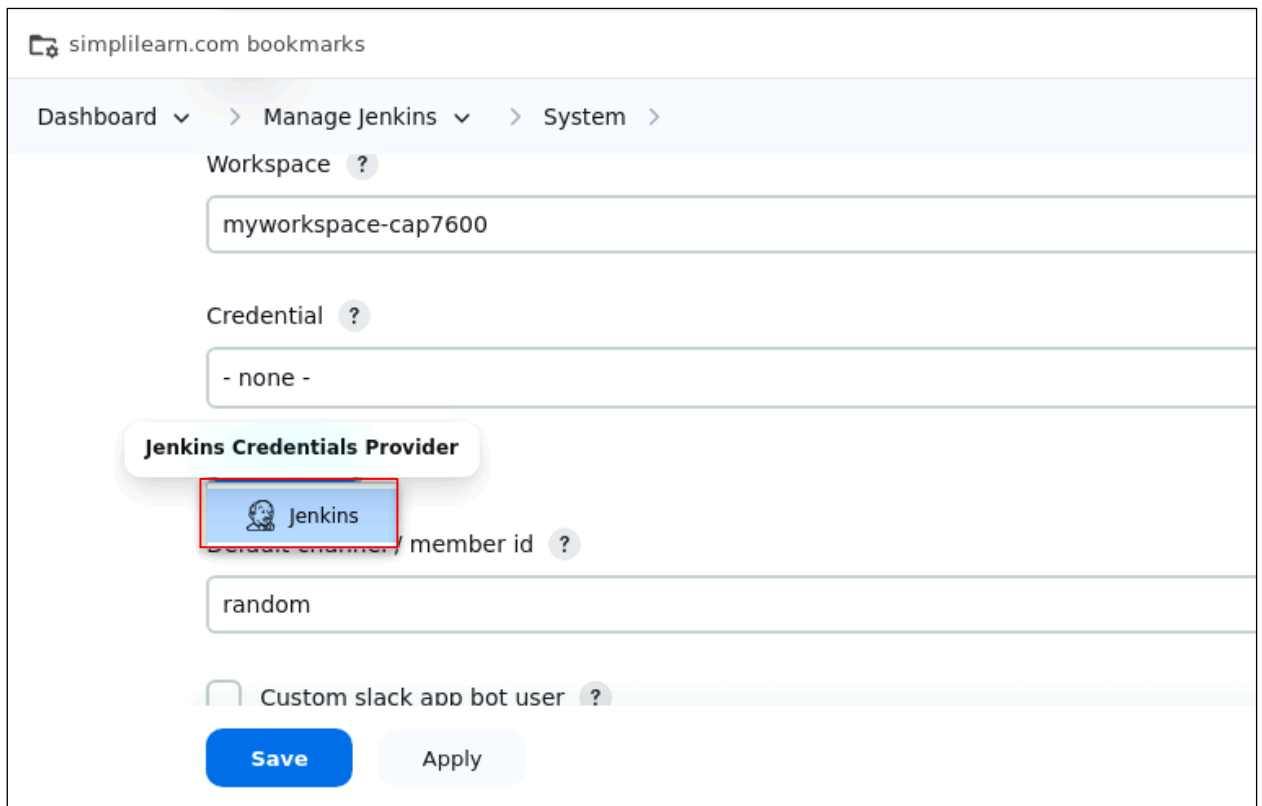
Credential ?
- none -
+ Add

Default channel / member id ?
random

☐ Custom slack app bot user ?

Save Apply

3.10 Click on **Jenkins** as shown in the screenshot below:



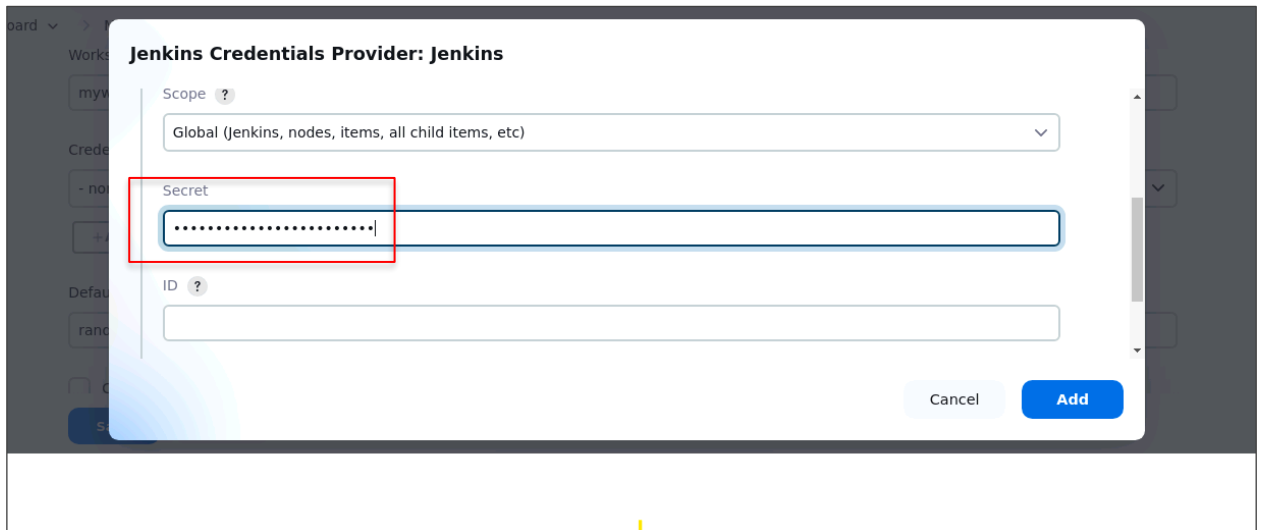
The screenshot shows the Jenkins 'Manage Jenkins' > 'System' configuration page. The 'Workspace' field is set to 'myworkspace-cap7600'. The 'Credential' field is set to '- none -'. Under the 'Jenkins Credentials Provider' section, the 'Jenkins' option is highlighted with a red box. Below it, the 'member id' field is set to 'random'. At the bottom, there are 'Save' and 'Apply' buttons.

3.11 Choose **Secret text** under **Kind** section as shown in the screenshot below:



The screenshot shows the 'Jenkins Credentials Provider: Jenkins' dialog box. The 'Domain' dropdown is set to 'Global credentials (unrestricted)'. The 'Kind' dropdown menu is open, and 'Secret text' is selected and highlighted with a red box. Other options in the 'Kind' menu include 'Username with password', 'GitHub App', 'SSH Username with private key', 'Secret file', and 'Certificate'. At the bottom right, there are 'Cancel' and 'Add' buttons.

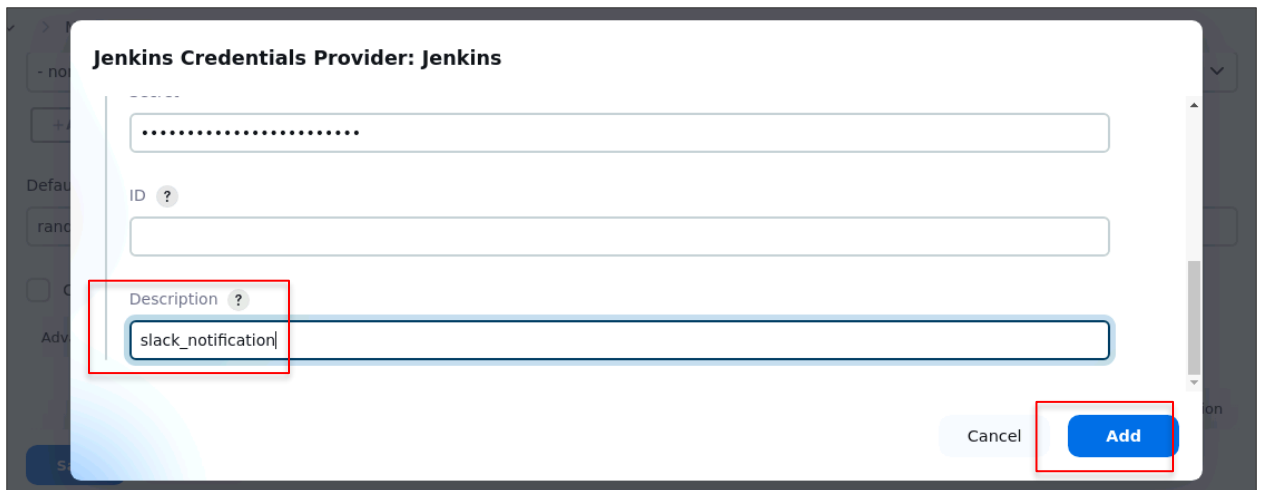
3.12 Enter the token credential under **Secret** section as shown in the screenshot below:



The screenshot shows the 'Jenkins Credentials Provider: Jenkins' dialog box. It has a 'Scope' dropdown menu set to 'Global (Jenkins, nodes, items, all child items, etc)'. Below it is a 'Secret' field, which is highlighted with a red box and contains a series of dots representing a masked token. There is also an 'ID' field which is empty. At the bottom right, there are 'Cancel' and 'Add' buttons.

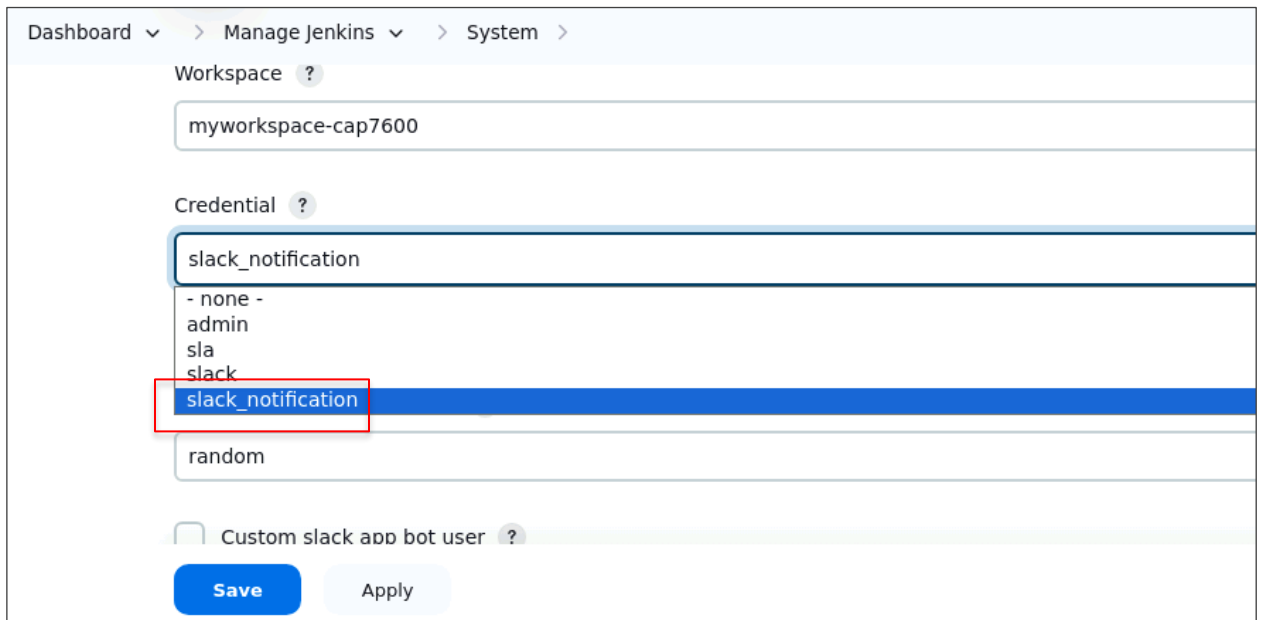
Note: Refer to step 2.12 for token

3.13 Enter a desired name for **Description** and then click on **Add** as shown in the screenshot below:



The screenshot shows the 'Jenkins Credentials Provider: Jenkins' dialog box. It has a 'Secret' field containing dots, an 'ID' field which is empty, and a 'Description' field which is highlighted with a red box and contains the text 'slack_notification'. At the bottom right, there are 'Cancel' and 'Add' buttons, with the 'Add' button also highlighted by a red box.

3.14 Choose the credential name from the list that you have created as shown in the screenshot below:



The screenshot shows the Jenkins configuration page for a Slack notification. The breadcrumb navigation at the top reads: Dashboard > Manage Jenkins > System >. The 'Workspace' field is set to 'myworkspace-cap7600'. The 'Credential' dropdown menu is open, showing a list of options: 'slack_notification', '- none -', 'admin', 'sla', 'slack', and 'slack_notification'. The second 'slack_notification' option is highlighted in blue and enclosed in a red rectangular box. Below the dropdown, the 'random' option is visible. At the bottom, there is a checkbox for 'Custom slack app bot user' which is unchecked, and two buttons: 'Save' and 'Apply'.

Dashboard > Manage Jenkins > System >

Workspace ?

myworkspace-cap7600

Credential ?

slack_notification

- none -

admin

sla

slack

slack_notification

random

☐ Custom slack app bot user ?

Save Apply

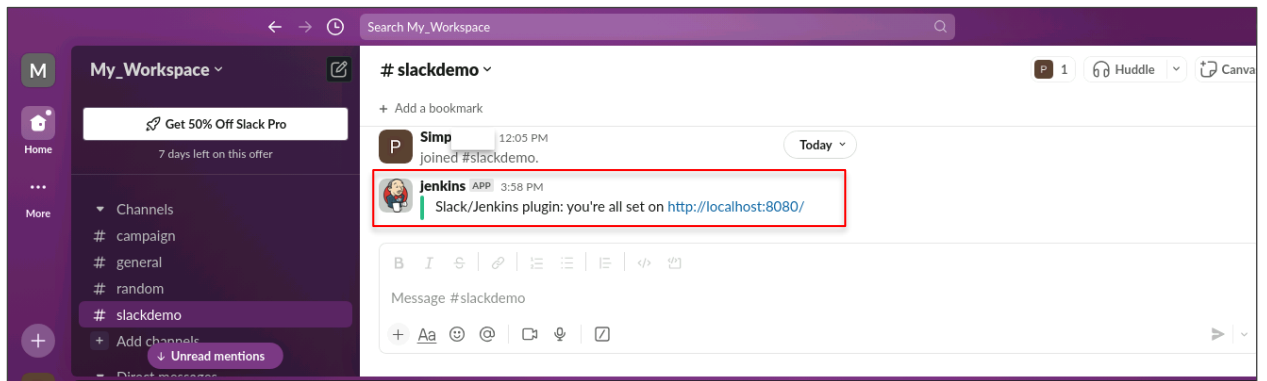
- 3.15 Enter the name of the channel that you have created and then click on **Apply** as shown in the screenshot below:

The screenshot shows the Jenkins configuration page for a Slack notification. The breadcrumb navigation at the top is "Dashboard > Manage Jenkins > System > Workspace ?". The "Workspace" field contains "myworkspace-cap7600". The "Credential" field contains "slack_notification". Below the credential field is a "+ Add" button. The "Default channel / member id ?" field contains "slackdemo" and is highlighted with a red box. Below this field is a checkbox for "Custom slack app bot user ?". At the bottom, there are two buttons: "Save" (blue) and "Apply" (light blue), with the "Apply" button highlighted by a red box.

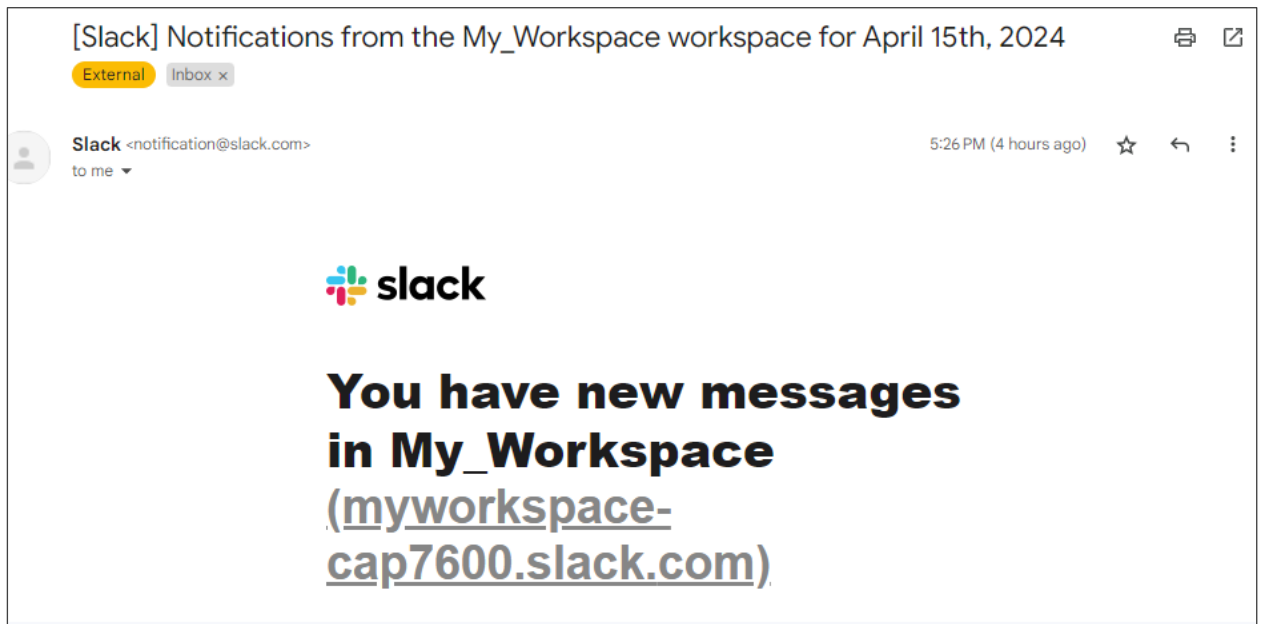
- 3.16 Click on **Test Connection** to verify that the status shows **Success**, and then click on **Save** as shown in the screenshot below:

The screenshot shows the same Jenkins configuration page, but now with the "Test Connection" button highlighted by a red box. The "Default channel / member id" field still contains "slackdemo". Below the checkbox, there is an "Advanced" dropdown menu. The "Success" status is displayed in a box, also highlighted by a red box. At the bottom, the "Save" button (blue) is highlighted by a red box, and the "Apply" button is also visible.

3.17 Navigate to the slack channel that you have created and check the notification of Jenkins as shown in the screenshot below:



3.18 Check your mail inbox for the notification as shown in the screenshot below:



By following these steps, you have successfully set up Slack channel for configuring build notifications for receiving updates about the build process.