

## 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

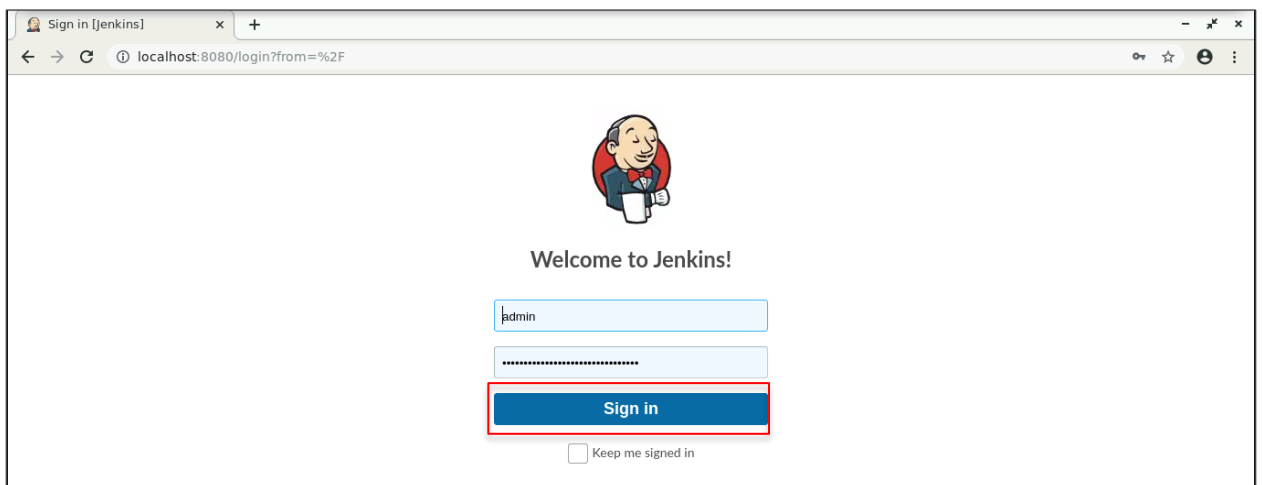
**Prerequisites:** Slack account

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

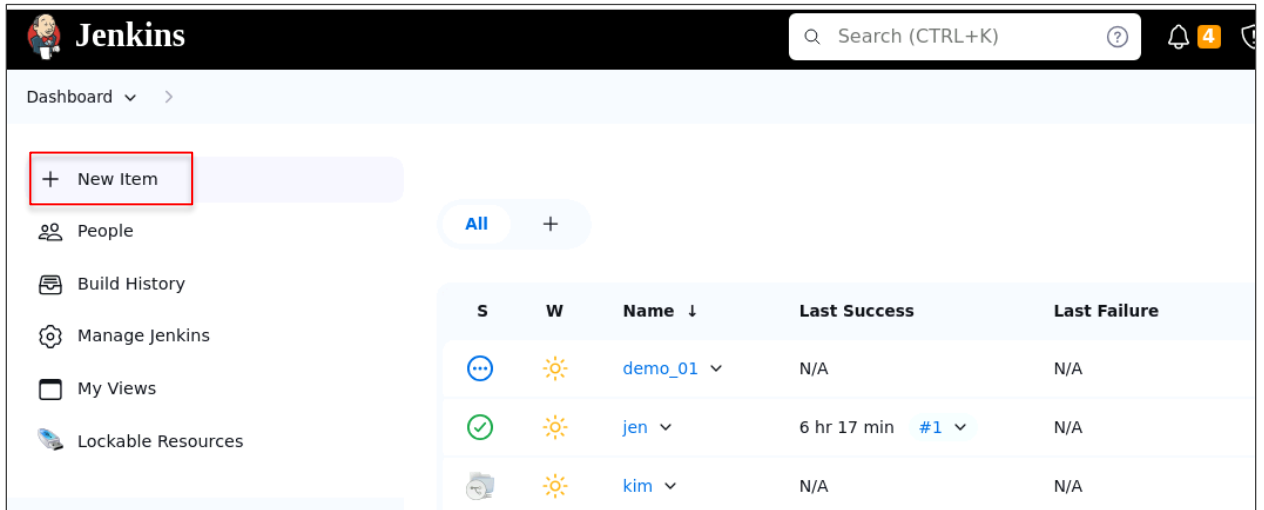
#### Step 1: Log in to the Jenkins CI tool and create a freestyle job

- 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

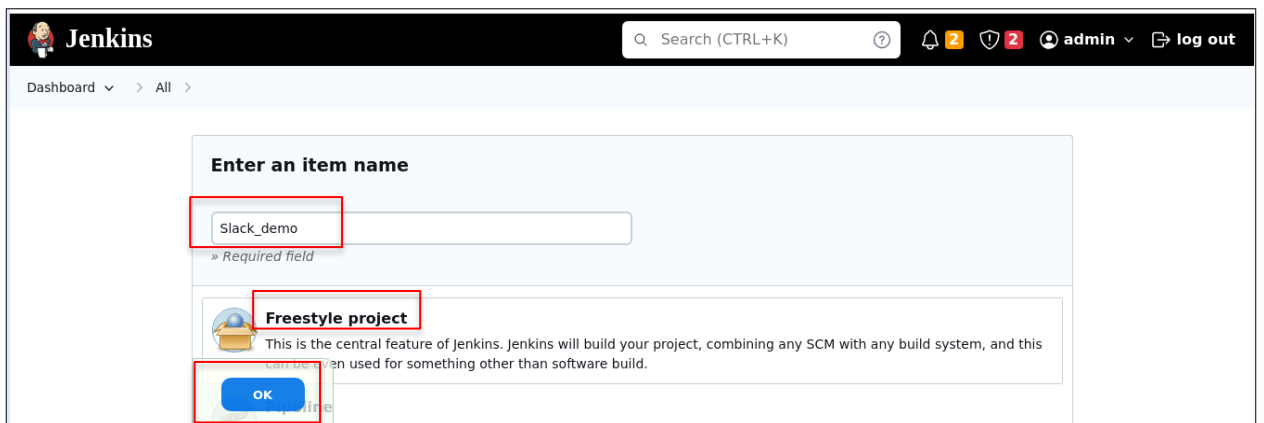


**Note:** The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **Root123\$**.

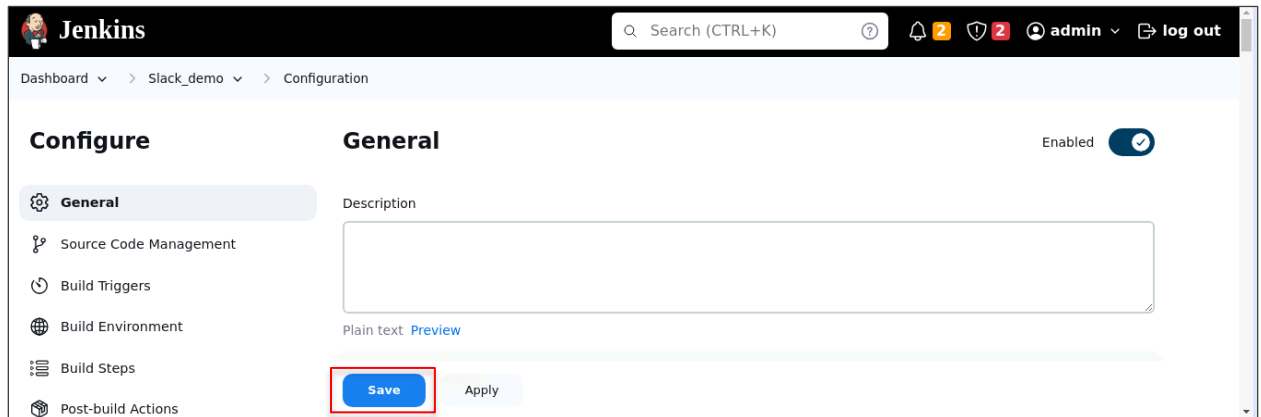
1.2 Click on the **New Item** option as shown in the screenshot below:



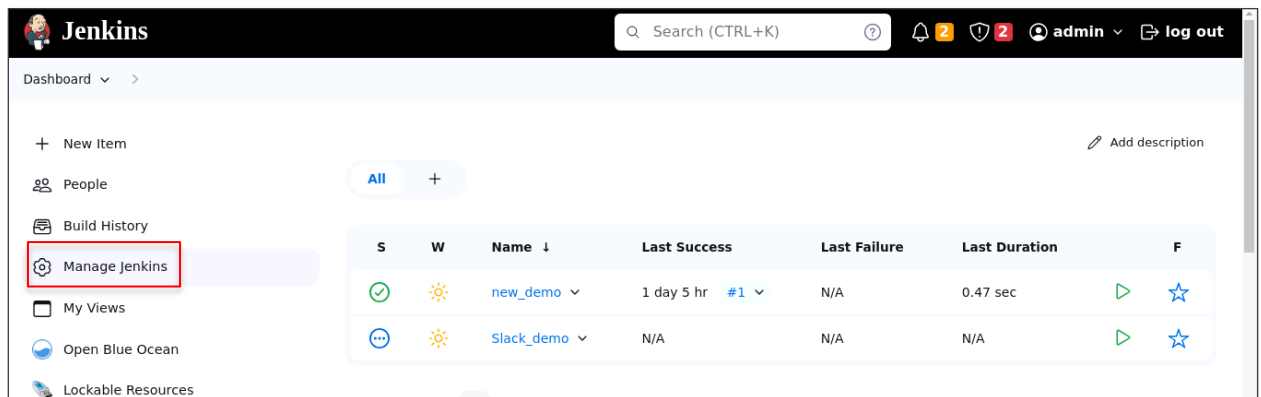
1.3 Enter a desired name for the project, select **Freestyle project**, and then click on **OK** as shown in the screenshot below:



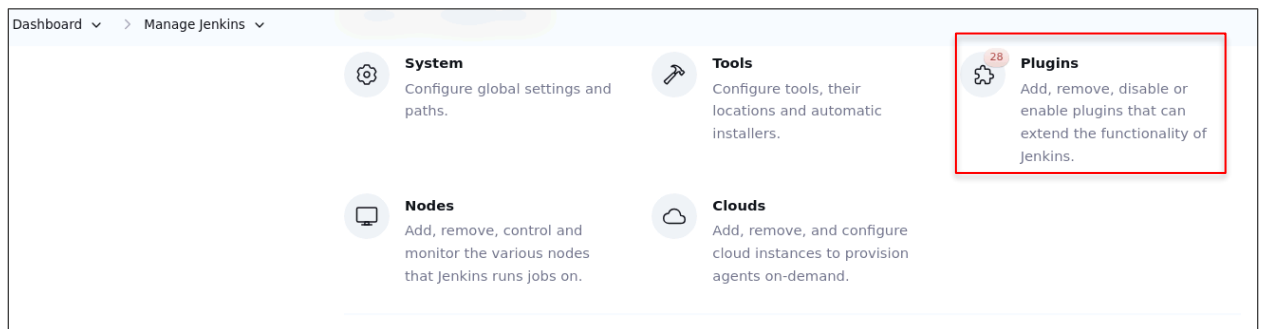
1.4 Click on **Save** button as shown in the screenshot below:



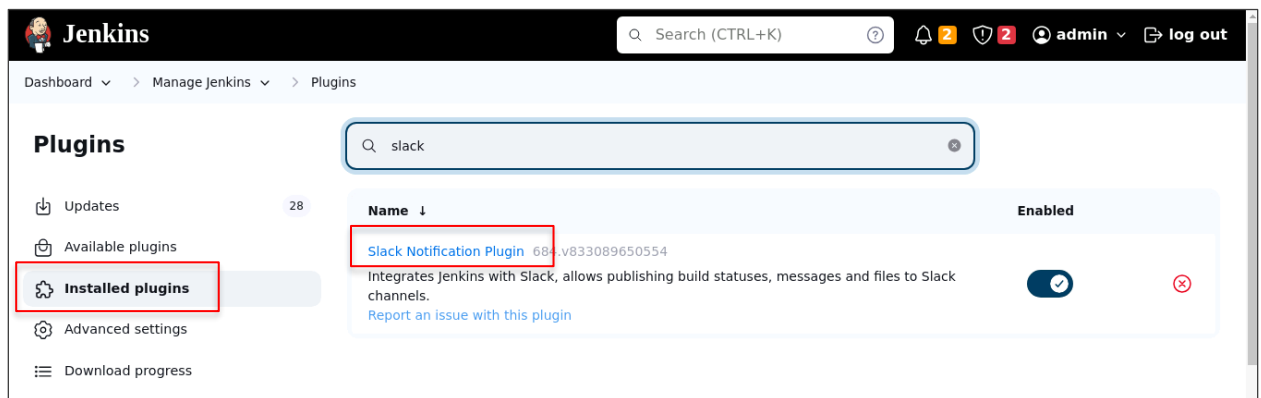
1.5 Click on **Manage Jenkins** as shown in the screenshot below:



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



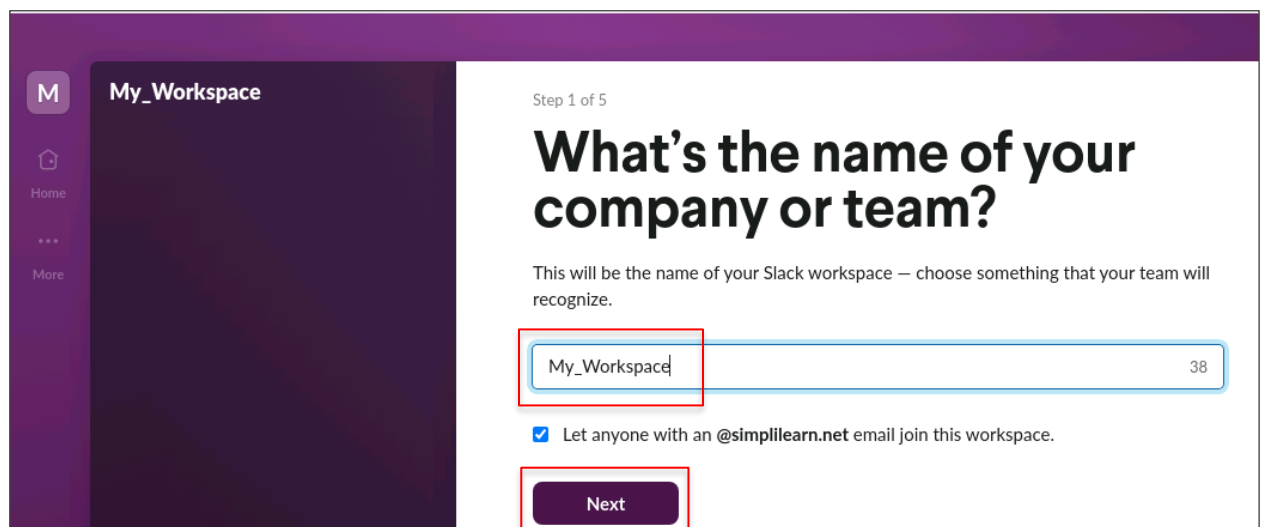
- 1.7 Click on **Installed plugins** to verify whether the **Slack Notification Plugin** has been installed



**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 the 'My\_Workspace' interface. On the left is a dark purple sidebar with a menu containing 'M', 'Home', and 'More'. The main content area has a white header with a text input field containing 'Simp'. Below this is the text 'Your profile photo (optional)' followed by 'Help your teammates know they're talking to the right person.' and a large brown square placeholder with a white 'P'. Below the placeholder is an 'Edit Photo' button. At the bottom of the main area is a dark purple button labeled 'Next'. Red boxes highlight the text input field and the 'Next' button.

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

The screenshot shows the 'My\_Workspace' interface with the title 'Who else is on the My\_Workspace team?'. Below the title is the text 'Add coworker by email' and a link 'Add from Google Contacts'. A large text input field contains the example email addresses 'Ex. ellis@simplilearn.net, maria@simplilearn.net'. At the bottom are three buttons: 'Next', 'Copy Invite Link', and 'Skip this step'. The 'Skip this step' button is highlighted with a red box.

**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  
Next

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:

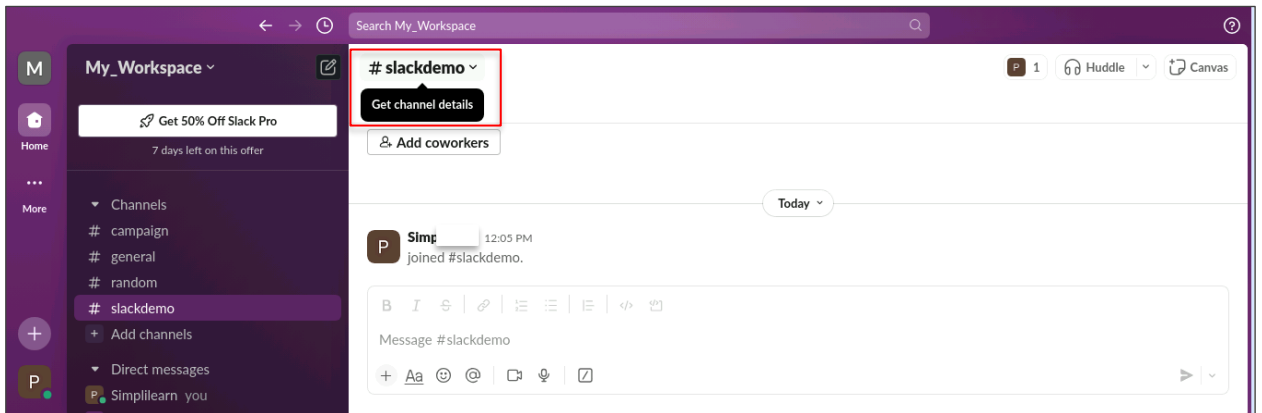
**Free** For teams trying out Slack  
**\$0**  
per person/month  
Start With Free

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

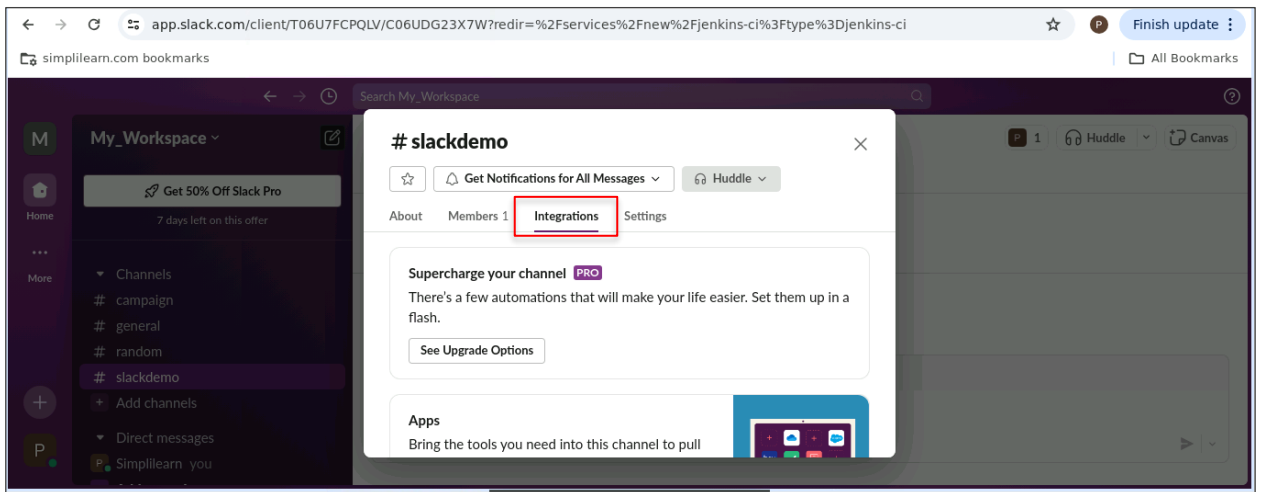
**Pro** For professional teams  
**50% Off \***  
~~\$8.75~~ \$4.38 USD per person/month  
Upgrade to Pro

- Unlimited message history
- Unlimited audio/video conversations

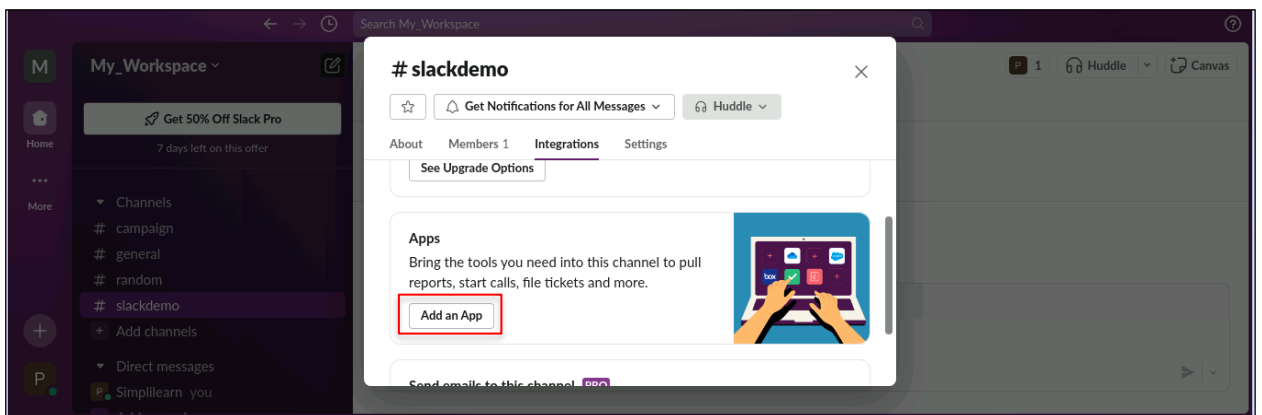
2.6 Click on the channel name that you have created as shown in the screenshot below:



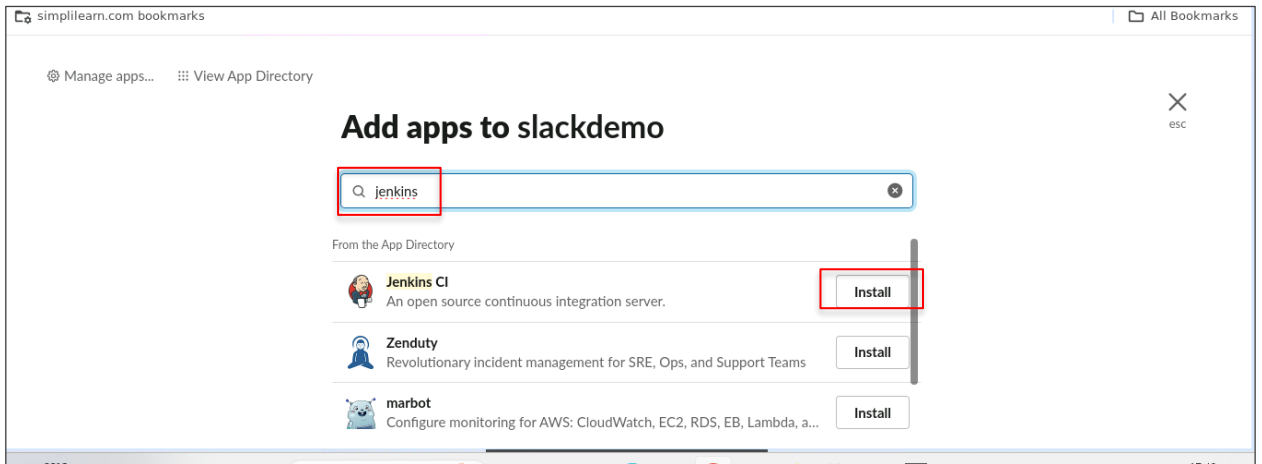
2.7 Click on **Integrations** as shown in the screenshot below:



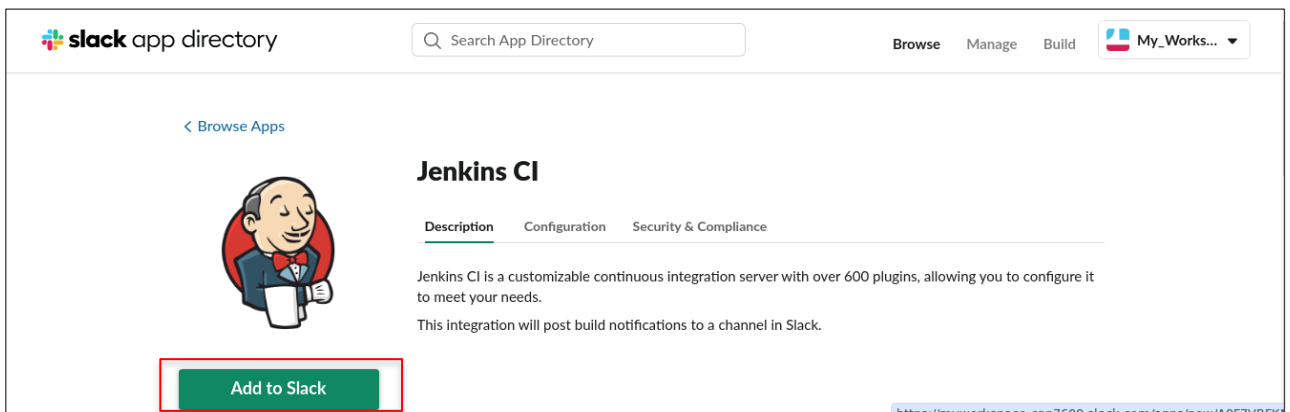
2.8 Click on **Add an App** as shown in the screenshot below:



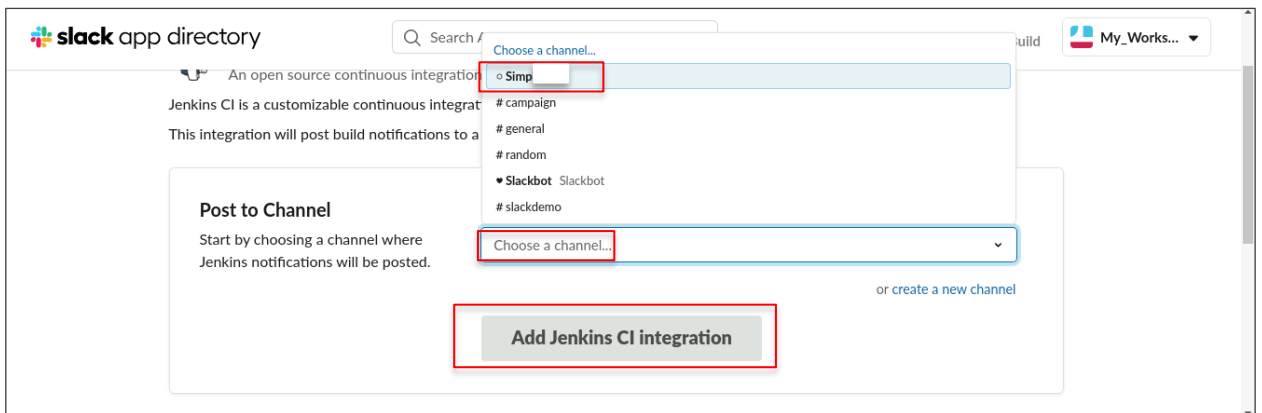
2.9 Search for Jenkins and then click on **Install** as shown in the screenshot below:



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

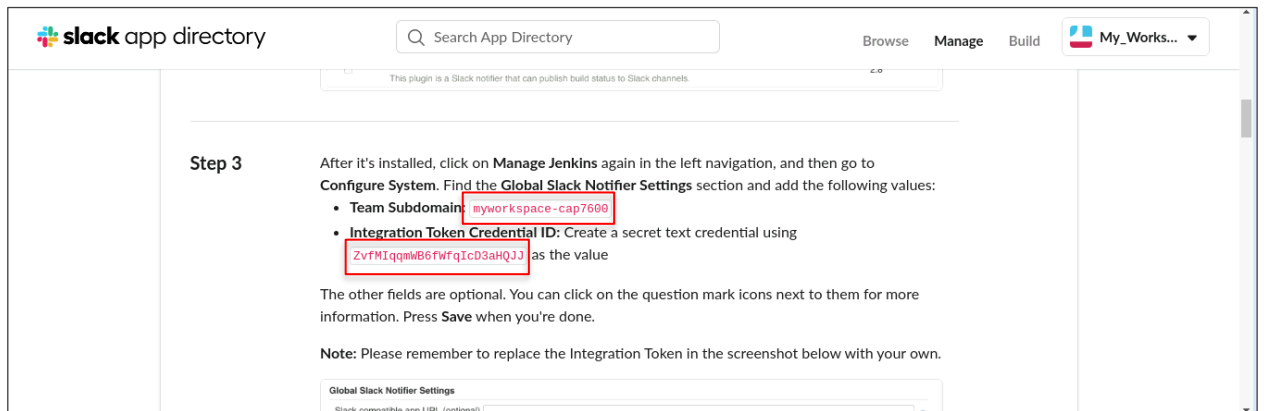


2.11 Click on the **Choose a channel...** drop-down, select the channel that you have created, and then click on **Add Jenkins CI integration** as shown in the screenshot below:





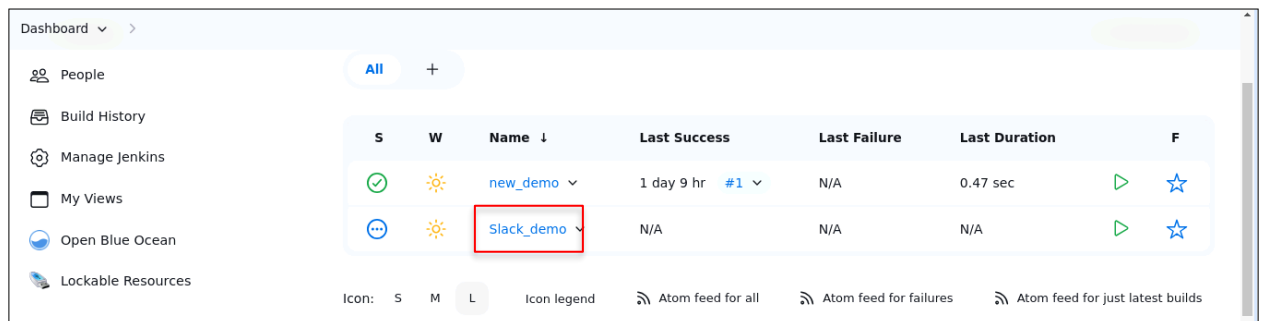
2.12 Scroll down to **Step 3** in the notifier page; you will see subdomain name and secret text credential as shown in the screenshot below:



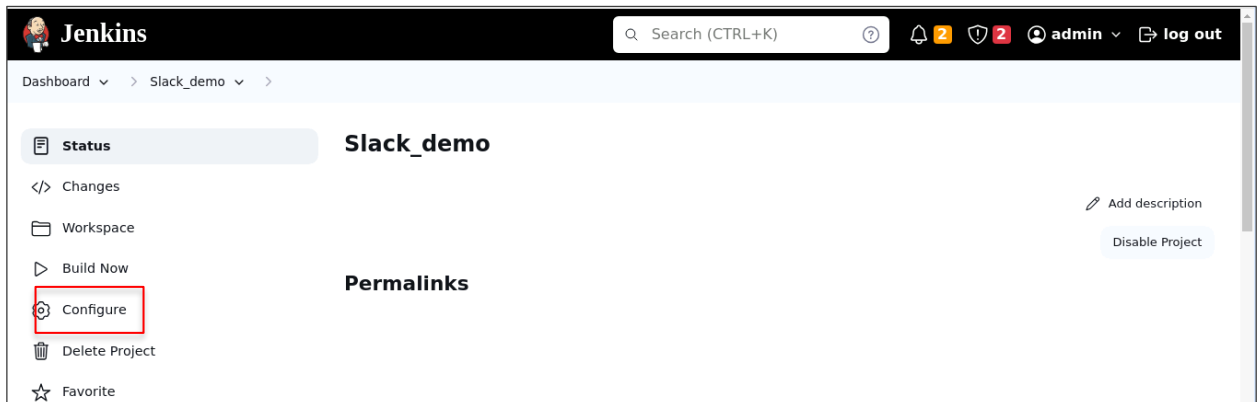
**Note:** Note down the subdomain and token credential for further steps

## Step 3: Configure Slack in Jenkins

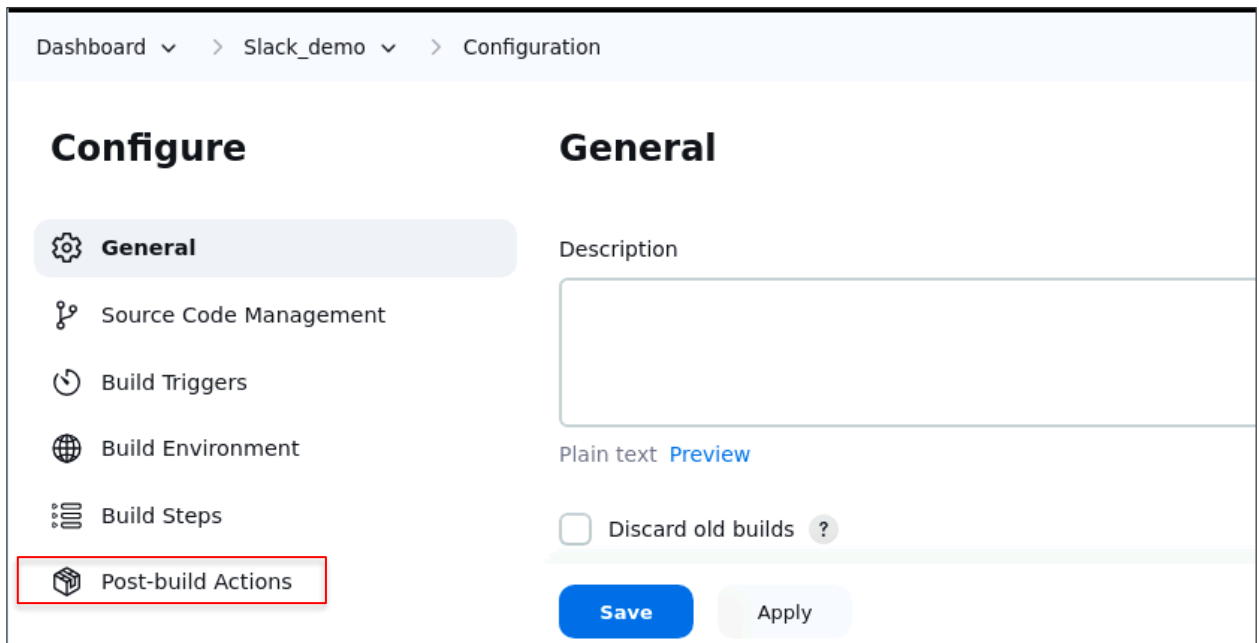
3.1 Navigate into your Jenkins **Dashboard** and click on the Freestyle job that you have created as shown in the screenshot below:



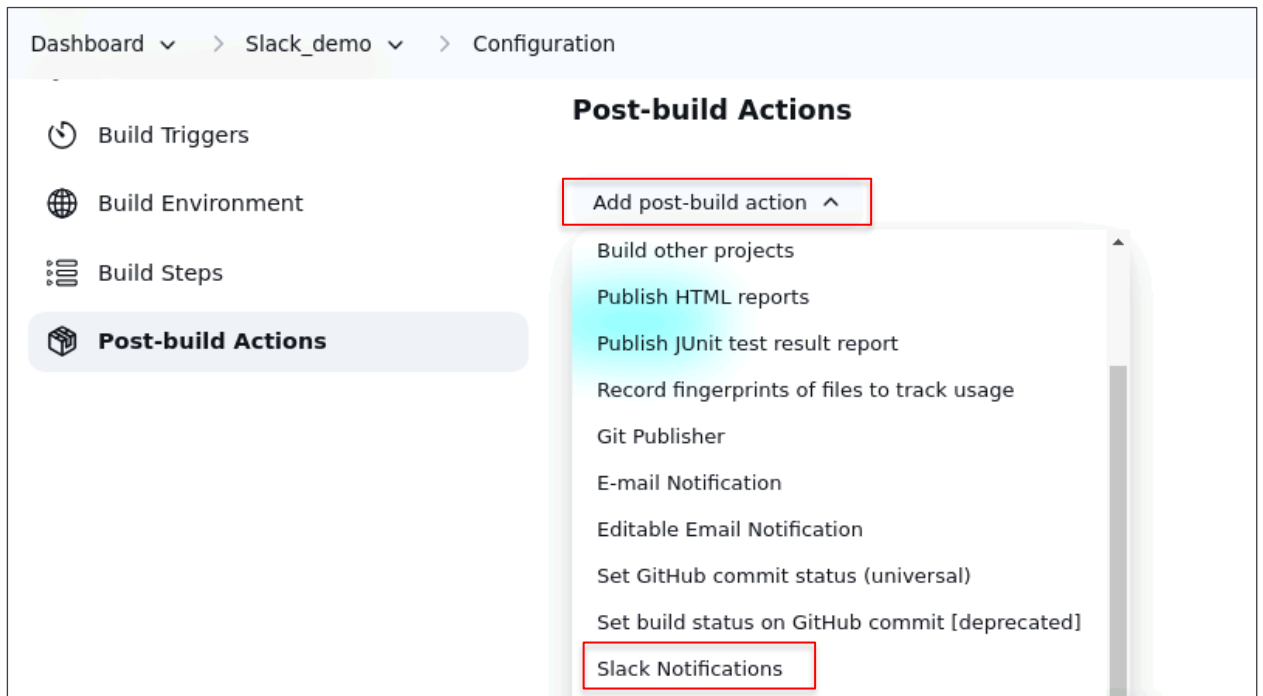
3.2 Click on **Configure** as shown in the screenshot below:



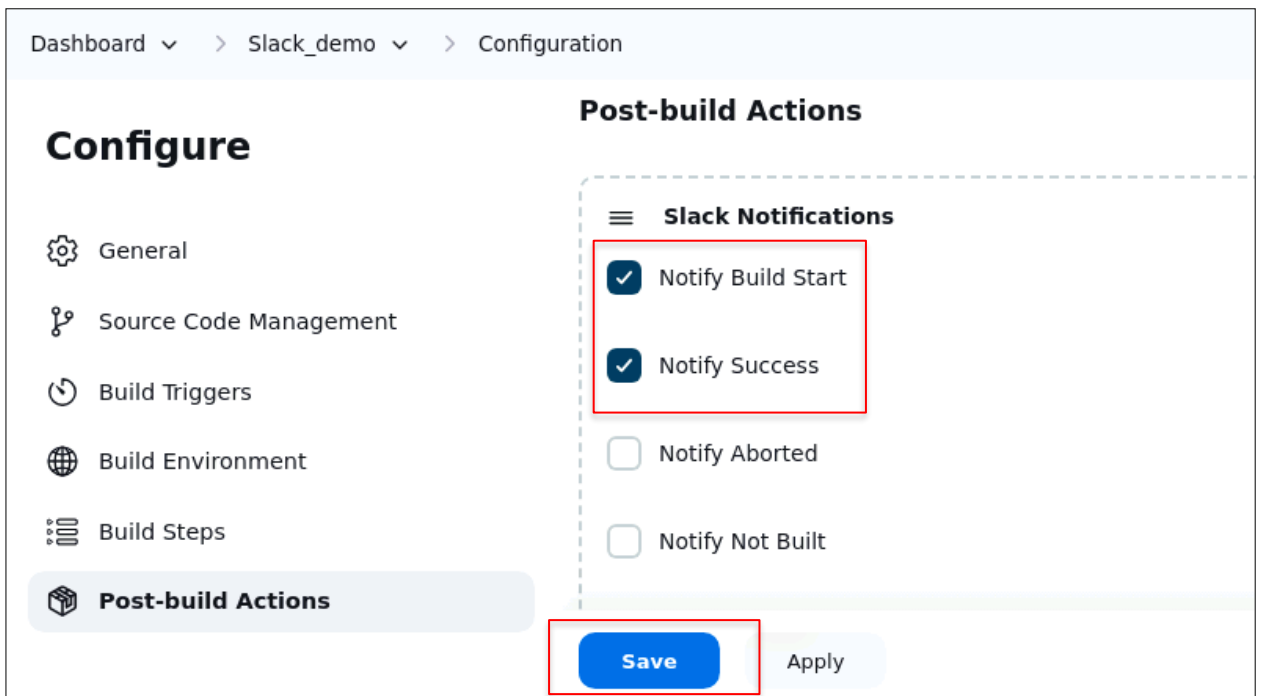
3.3 Click on **Post-build Actions** as shown in the screenshot below:



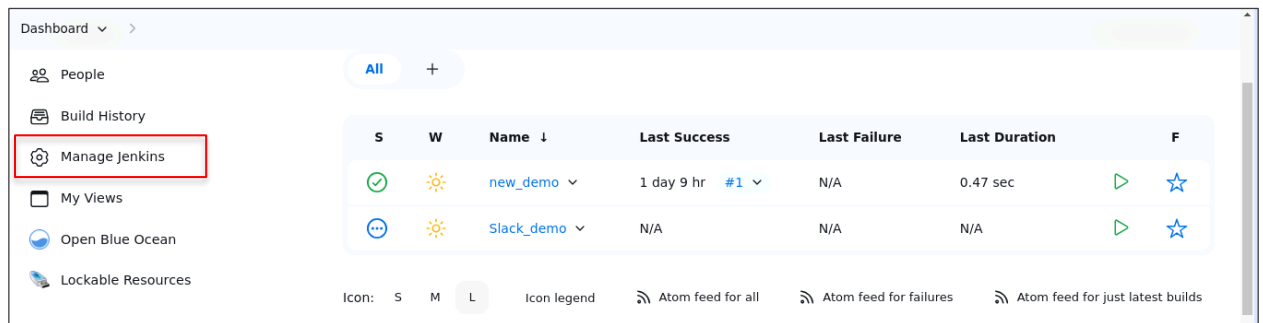
3.4 Click on **Add post-build action** drop-down and select **Slack Notifications** as shown in the screenshot below:



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:

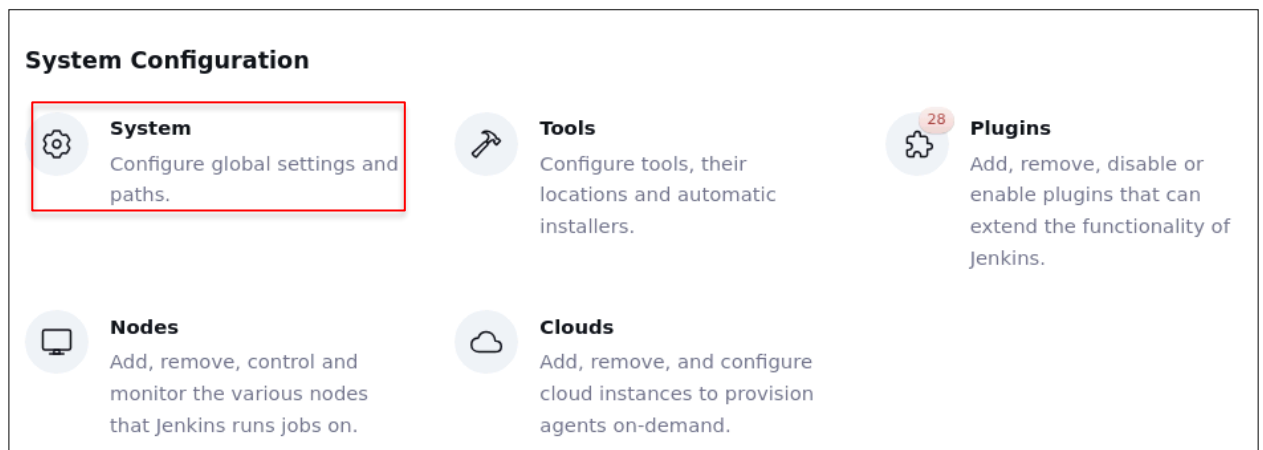


The screenshot shows the Jenkins Dashboard. On the left sidebar, the 'Manage Jenkins' option is highlighted with a red box. The main content area displays a table of build jobs. The table has columns for 'S' (Success), 'W' (Warning), 'Name', 'Last Success', 'Last Failure', 'Last Duration', and 'F' (Favorite).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

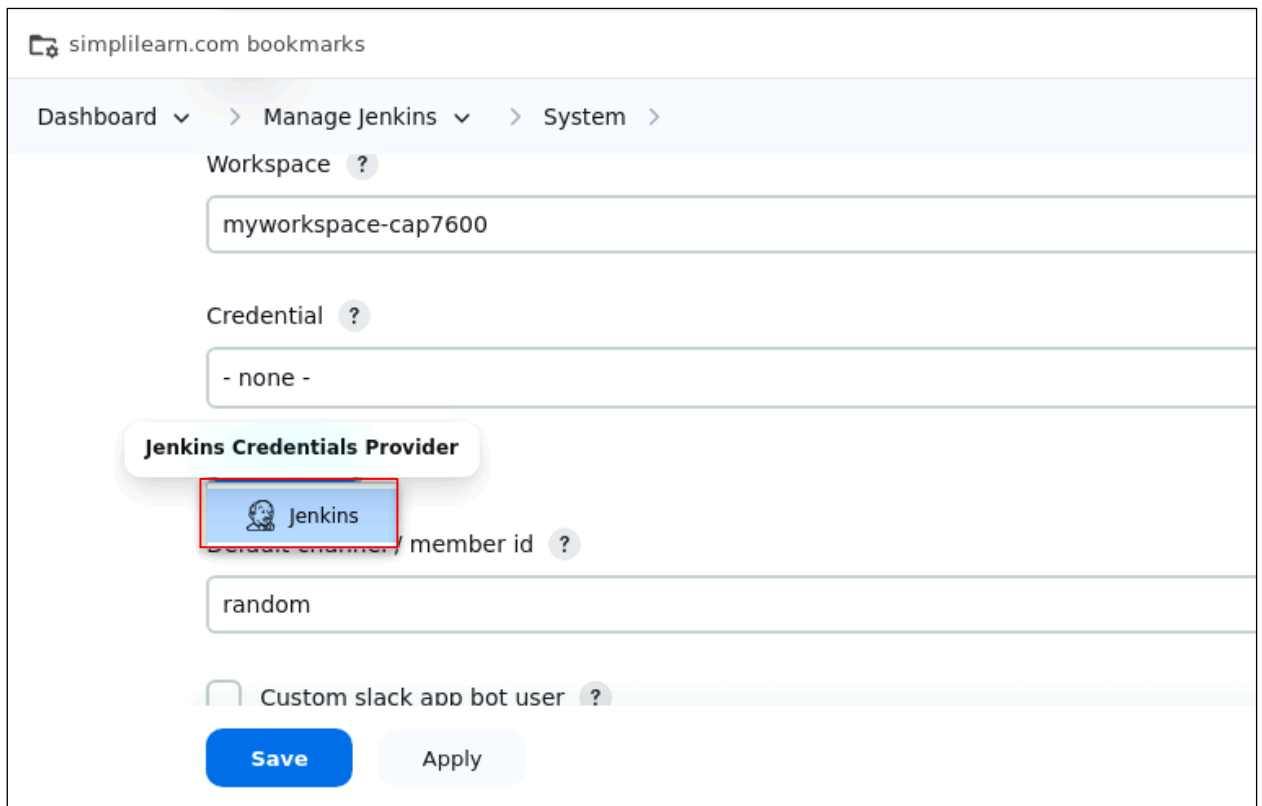
Default channel / member id ?

random

☐ Custom slack app bot user ?

Save Apply

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



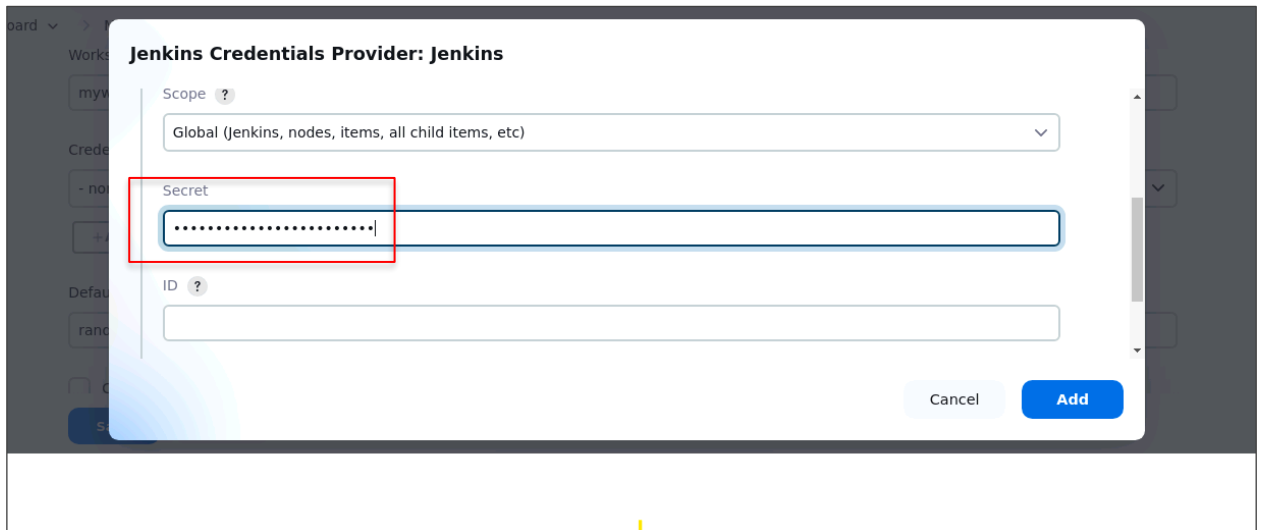
The screenshot shows the Jenkins 'Manage Jenkins' > 'System' > 'Workspace' configuration page. The 'Workspace' field is set to 'myworkspace-cap7600'. The 'Credential' dropdown is set to '- none -'. Under the 'Jenkins Credentials Provider' section, the 'Jenkins' option is highlighted with a red box. Below 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 a modal dialog titled 'Jenkins Credentials Provider: Jenkins'. The 'Domain' dropdown is set to 'Global credentials (unrestricted)'. The 'Kind' dropdown is open, and 'Secret text' is selected and highlighted with a red box. Other options in the 'Kind' dropdown include 'Username with password', 'GitHub App', 'SSH Username with private key', 'Secret file', and 'Certificate'. At the bottom right of the dialog are 'Cancel' and 'Add' buttons.

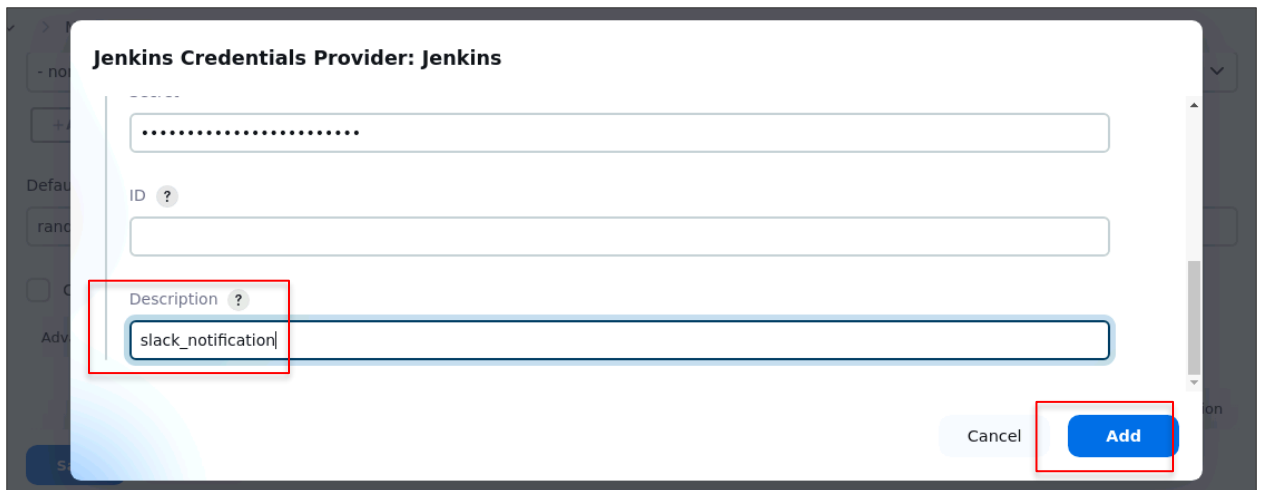
3.12 Enter the token credential under **Secret** section as shown in the screenshot below:



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 rectangular box. The 'Secret' field contains a series of dots, indicating a masked password or token. Below the 'Secret' field is an 'ID' field, which is currently empty. At the bottom right of the dialog box are two buttons: 'Cancel' and 'Add'.

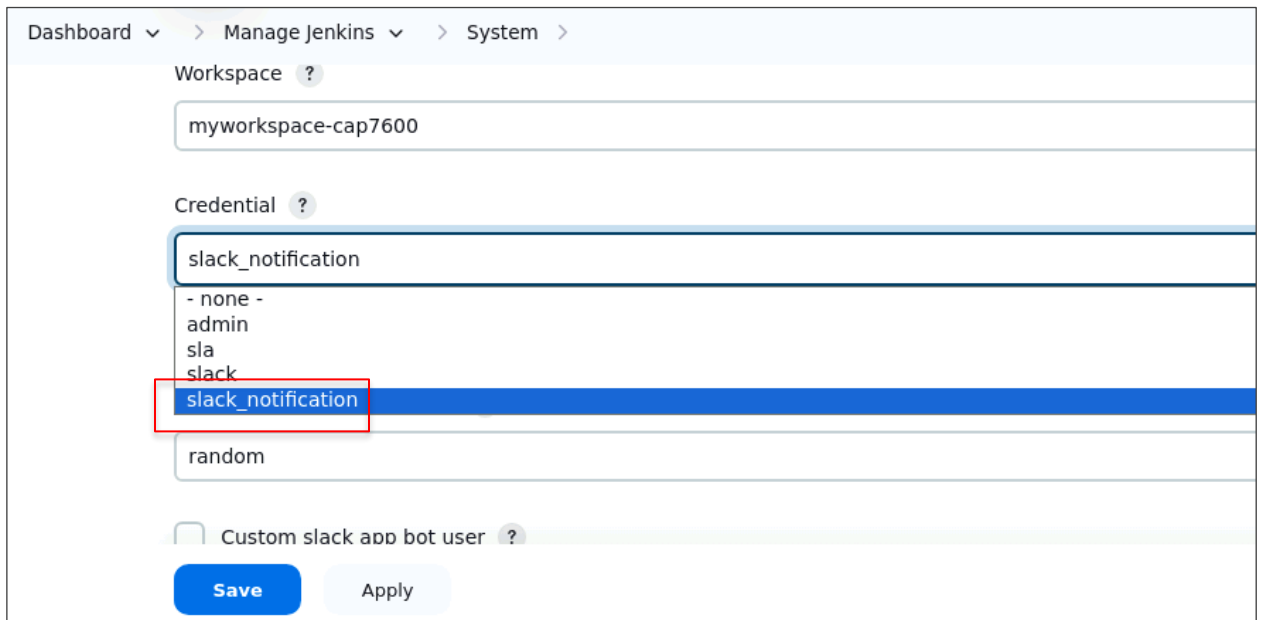
**Note:** Refer to step 2.12 for token

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 'Scope' dropdown menu set to 'Global (Jenkins, nodes, items, all child items, etc)'. Below it is a 'Secret' field, which is currently empty. Below the 'Secret' field is an 'ID' field, which is currently empty. Below the 'ID' field is a 'Description' field, which is highlighted with a red rectangular box and contains the text 'slack\_notification'. At the bottom right of the dialog box are two buttons: 'Cancel' and 'Add', with the 'Add' button highlighted by a red rectangular 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



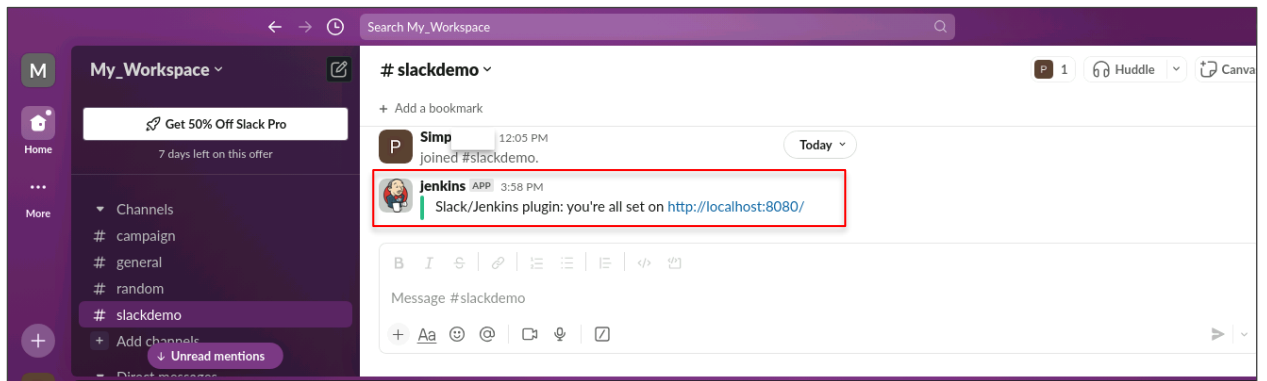
- 3.15 Enter the name of the channel that you have created and then click on **Apply** as shown in the screenshot below:

The screenshot shows the Jenkins 'System' configuration page for Slack notifications. The breadcrumb trail is 'Dashboard > Manage Jenkins > System >'. The 'Workspace' field contains 'myworkspace-cap7600'. The 'Credential' field contains 'slack\_notification'. Below it is a '+ Add' button. The 'Default channel / member id' field contains 'slackdemo' and is highlighted with a red box. Below this is a checkbox for 'Custom slack app bot user' which is unchecked. At the bottom, there are two buttons: a blue 'Save' button and a grey 'Apply' button, with the 'Apply' button highlighted by a red box.

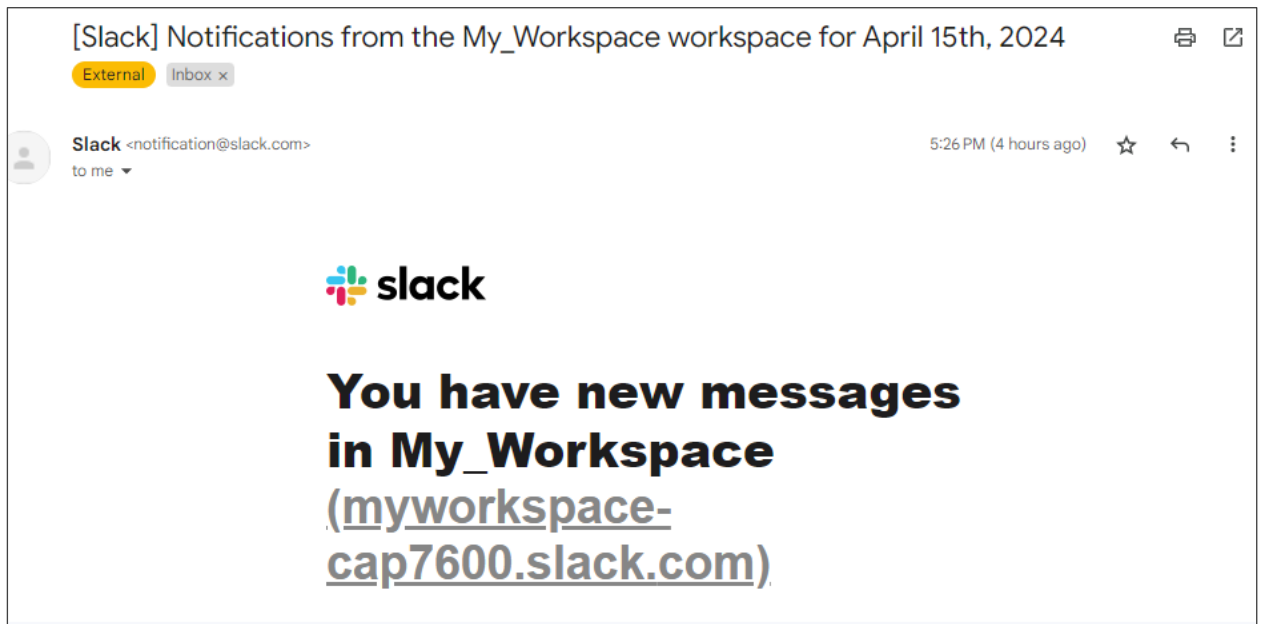
- 3.16 Click on **Test Connection** to verify that the status shows **Success**, and then click on **Save** as shown in the screenshot below:

This screenshot shows the same Jenkins configuration page after a test connection. The 'Default channel / member id' field still contains 'slackdemo'. The 'Custom slack app bot user' checkbox remains unchecked. Below the checkbox is an 'Advanced' dropdown menu. The status 'Success' is displayed in a box on the left, also highlighted with a red box. On the right, a 'Test Connection' button is highlighted with a red box. At the bottom, the blue 'Save' button is highlighted with a red box, and a grey 'Apply' button is visible next to it.

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.