

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

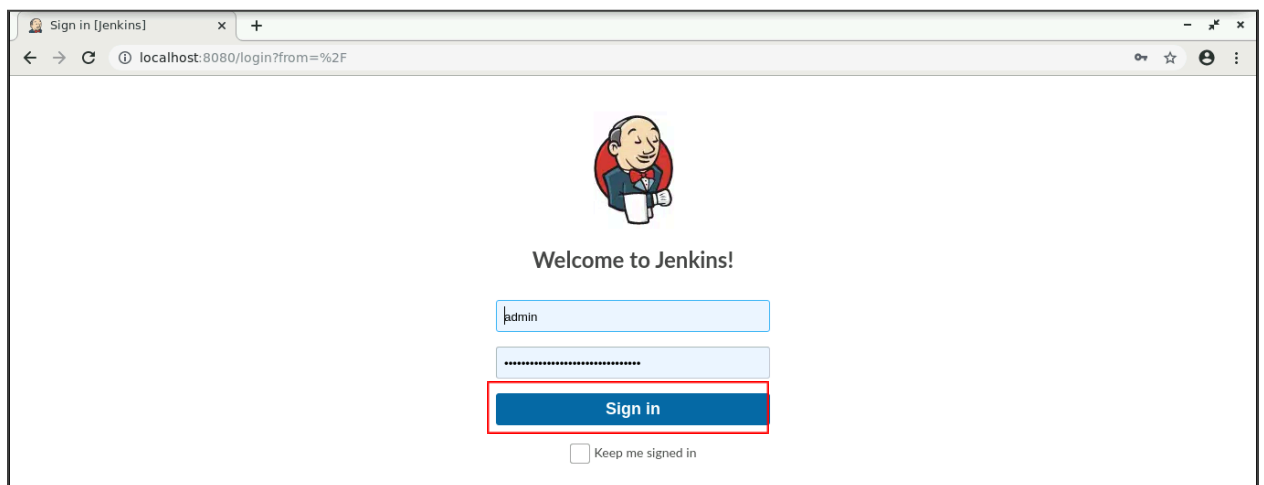
Prerequisites: Slack account

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

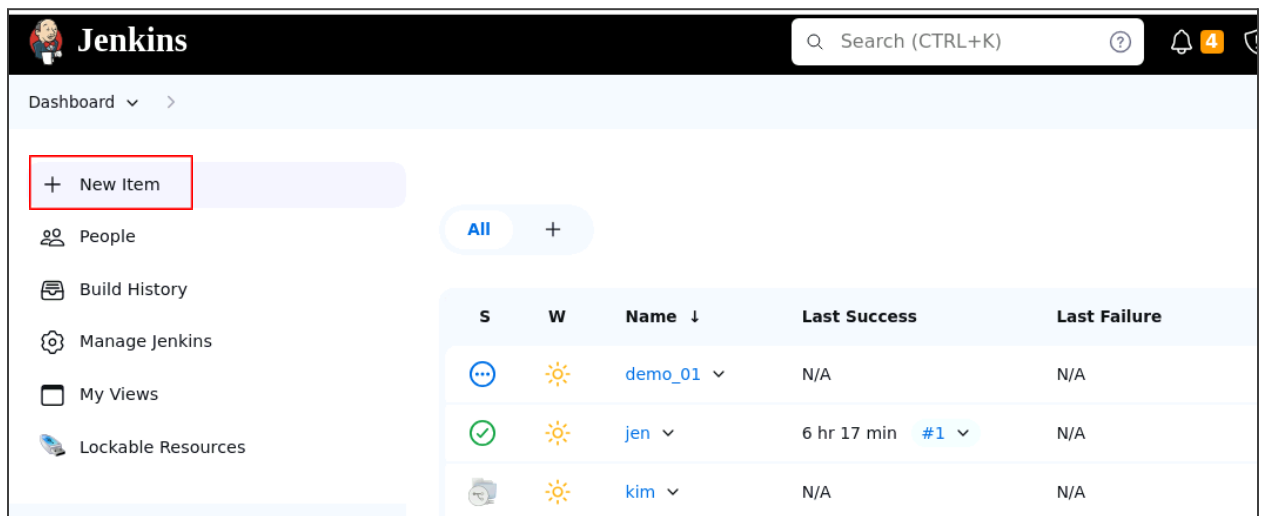
Step 1: Log in to the Jenkins CI tool and create a freestyle job

- 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

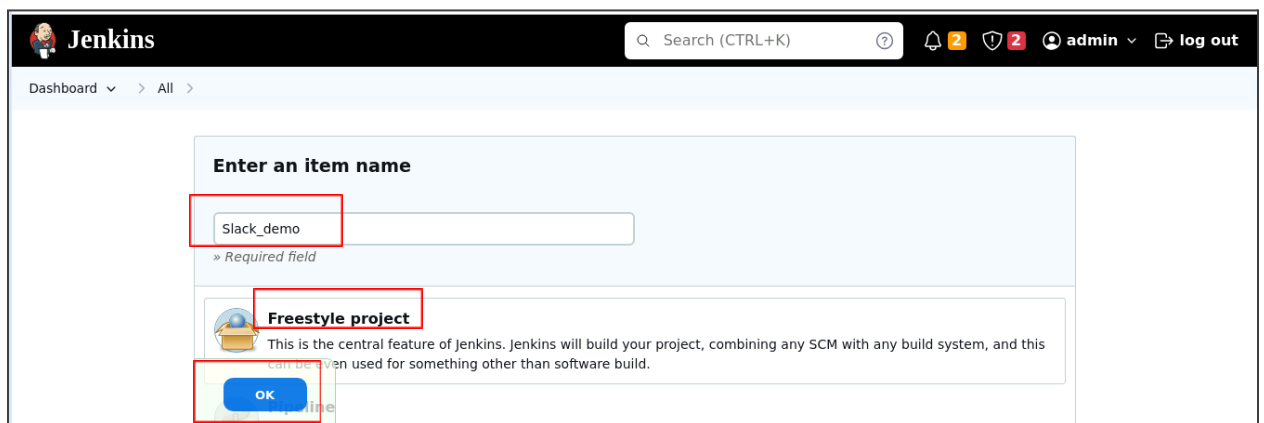


Note: The credentials for accessing Jenkins in the lab are Username: **admin** and Password: **admin**.

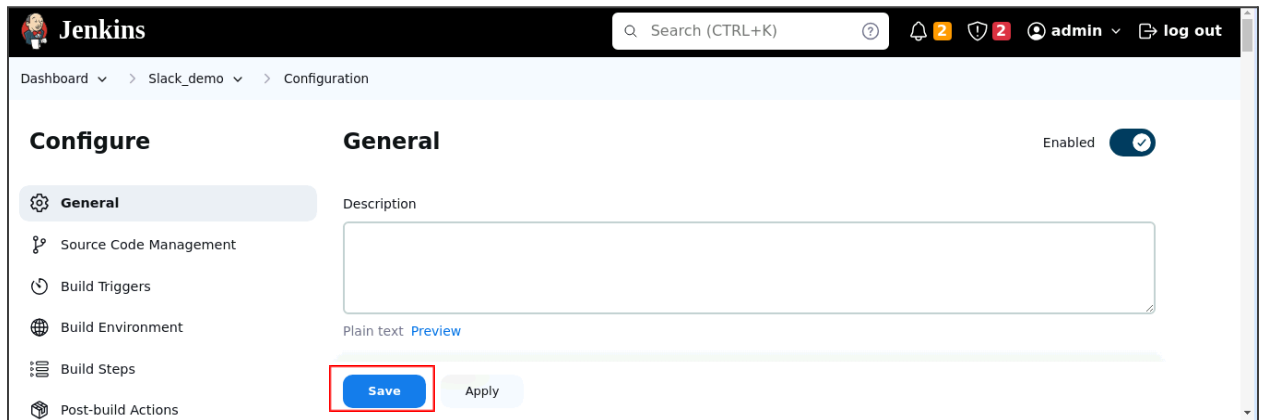
1.2 Click on the **New Item** option as shown in the screenshot below:



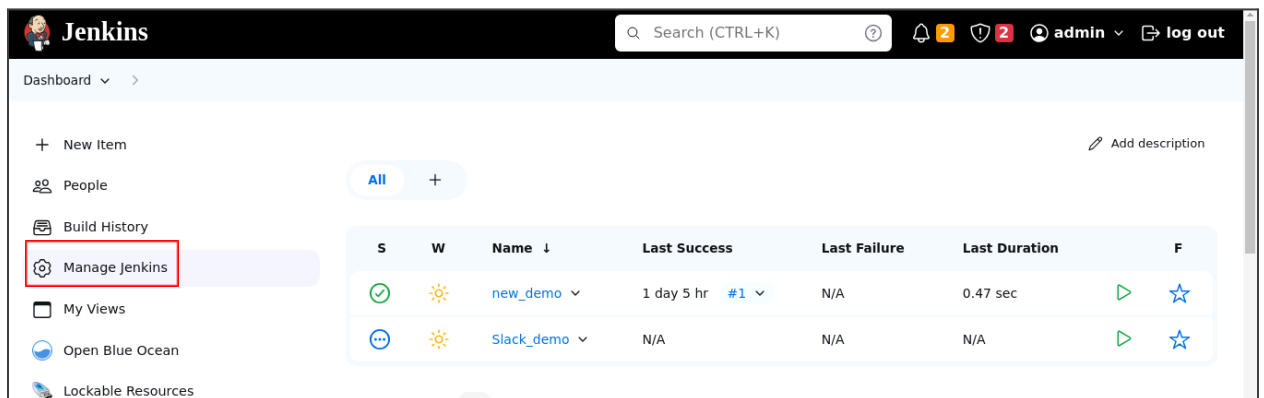
1.3 Enter a desired name for the project, select **Freestyle project**, and then click on **OK** as shown in the screenshot below:



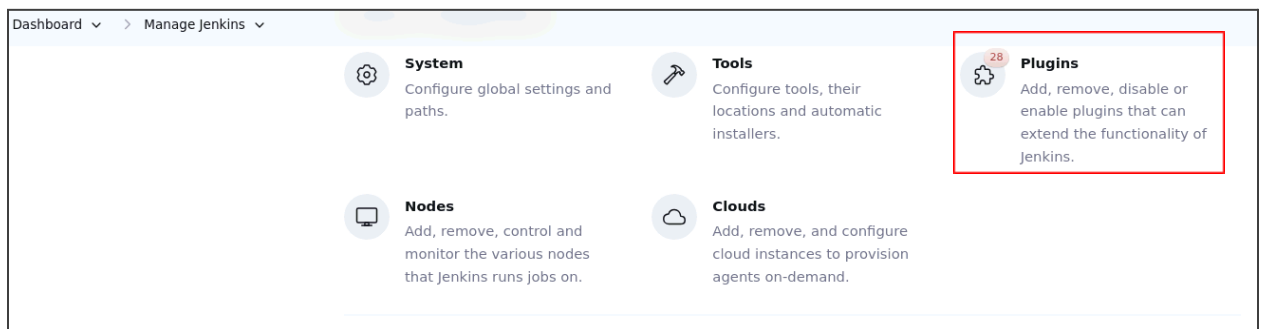
1.4 Click on **Save** button as shown in the screenshot below:



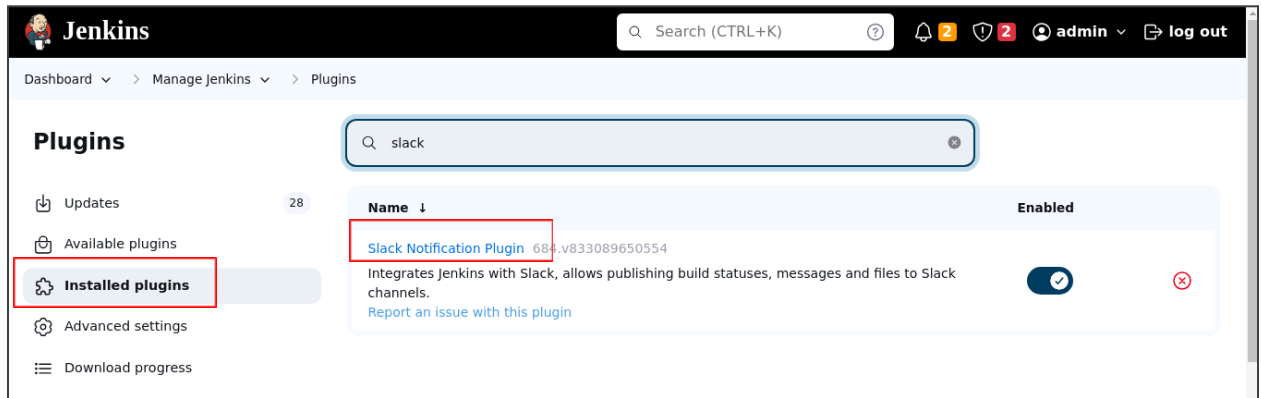
1.5 Click on **Manage Jenkins** as shown in the screenshot below:



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



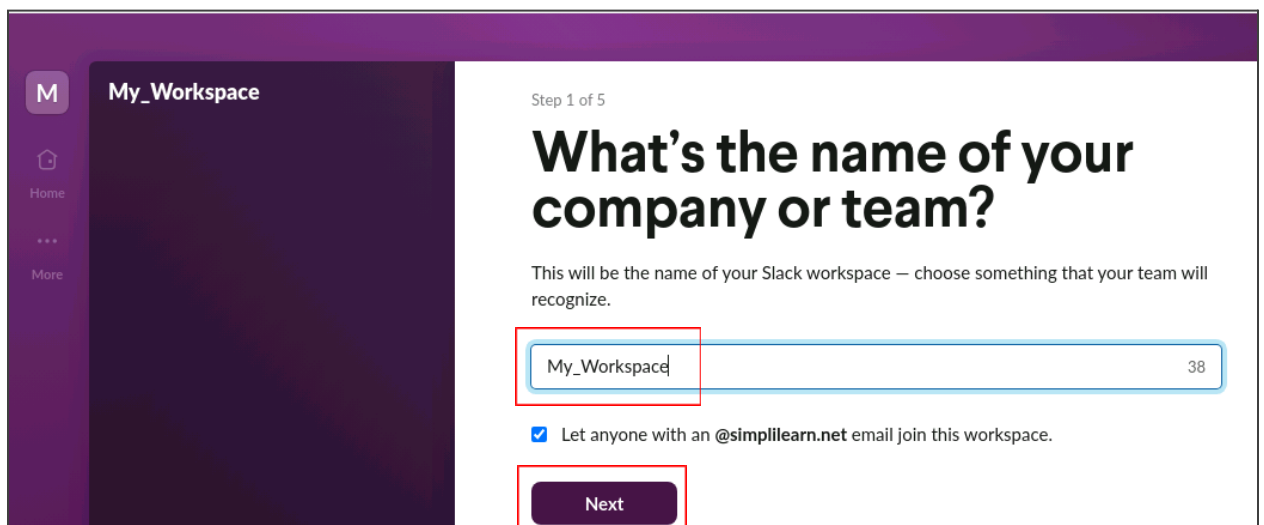
1.7 Click on **Installed plugins** to verify whether the **Slack Notification Plugin** has been installed



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:

My_Workspace

Simp

Your profile photo (optional)
Help your teammates know they're talking to the right person.

P

Edit Photo

Next

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

My_Workspace

Direct messages

Who else is on the My_Workspace team?

Add coworker by email

Add from Google Contacts

Ex. ellis@simplilearn.net, maria@simplilearn.net

Next Copy Invite Link 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

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

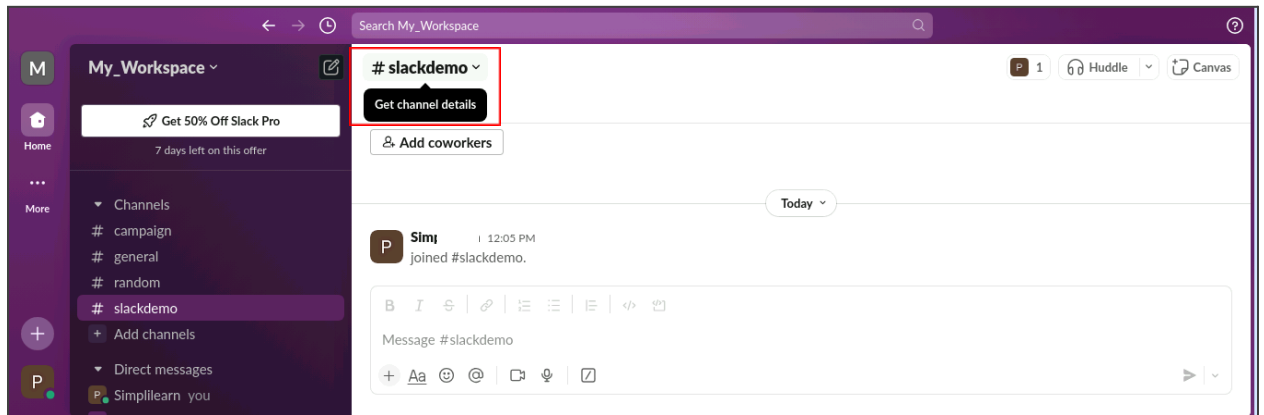
50% Off *

~~\$8.75~~ \$4.38 USD per person/month

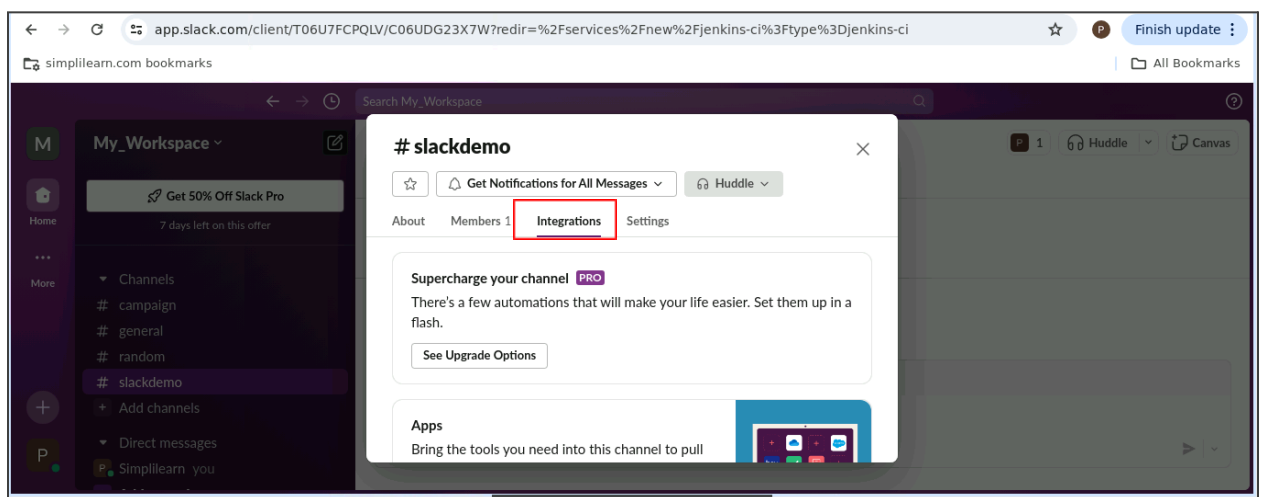
Upgrade to Pro

- Unlimited message history
- Unlimited audio/video conversations

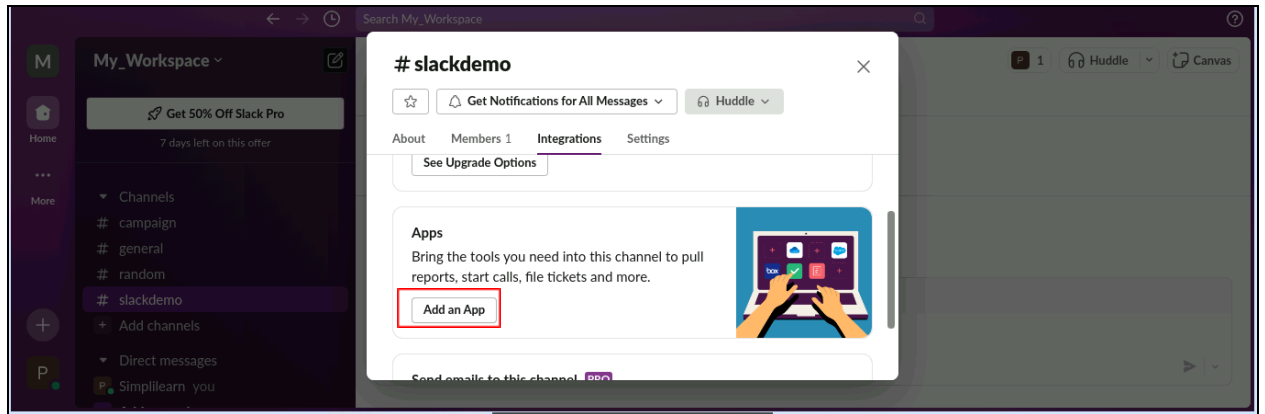
2.6 Click on the channel name that you have created as shown in the screenshot below:



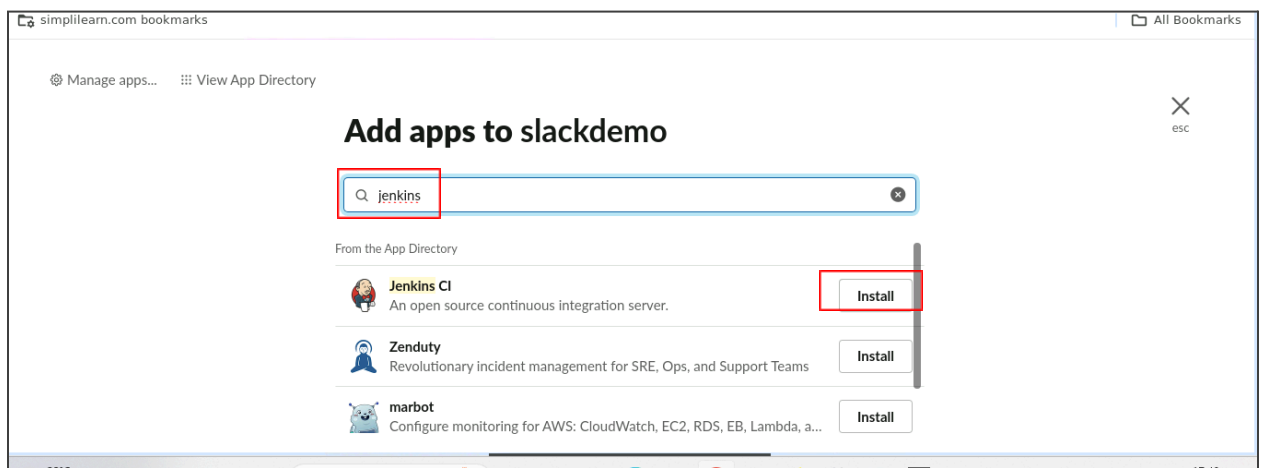
2.7 Click on **Integrations** as shown in the screenshot below:



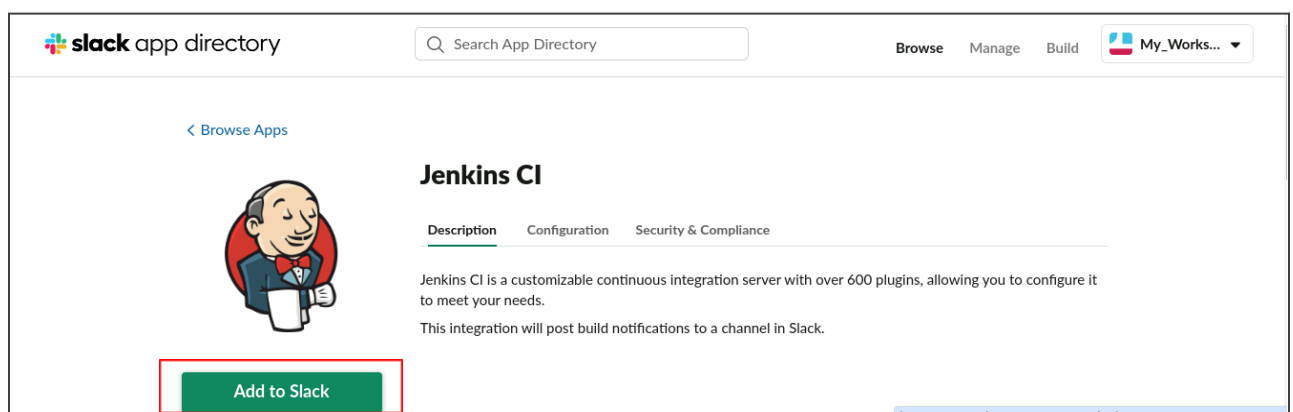
2.8 Click on **Add an App** as shown in the screenshot below:



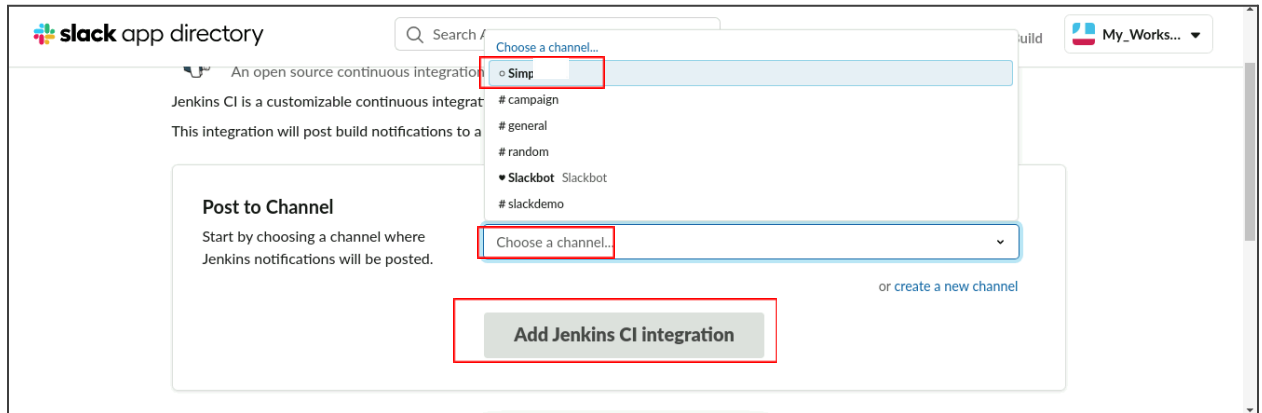
2.9 Search for Jenkins and then click on **Install** as shown in the screenshot below:



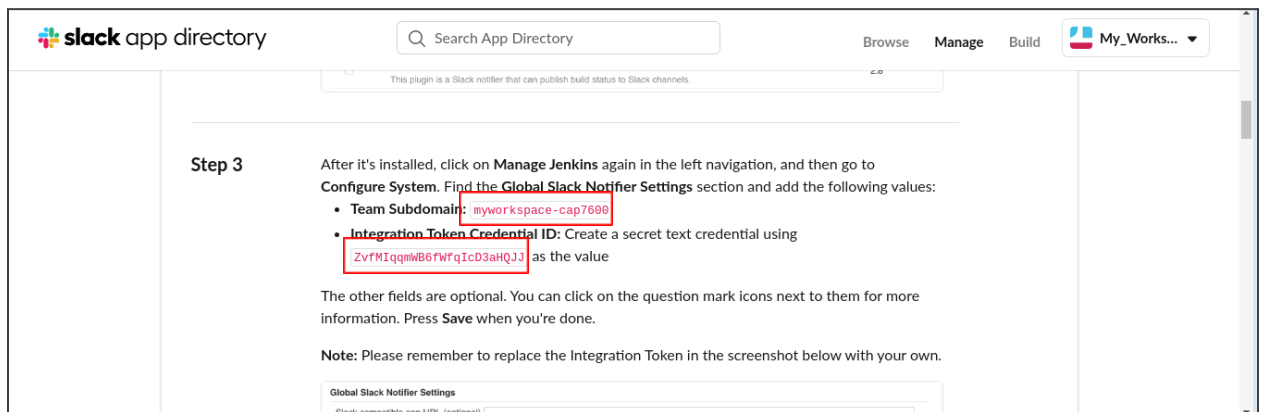
2.10 Click on **Add to Slack** as shown in the screenshot below



- 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:

Dashboard ▾ >

People **All** +

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	▶ ☆

Icon: S M **L** Icon legend 📡 Atom feed for all 📡 Atom feed for failures 📡 Atom feed for just latest builds

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

Jenkins 🔍 Search (CTRL+K) 🔔 2 🛡 2 👤 admin ▾ 🚪 log out

Dashboard ▾ > Slack_demo ▾ >

Status **Slack_demo**

<> Changes

📁 Workspace

▶ Build Now

⚙ Configure

🗑 Delete Project

★ Favorite

✎ Add description

Disable Project

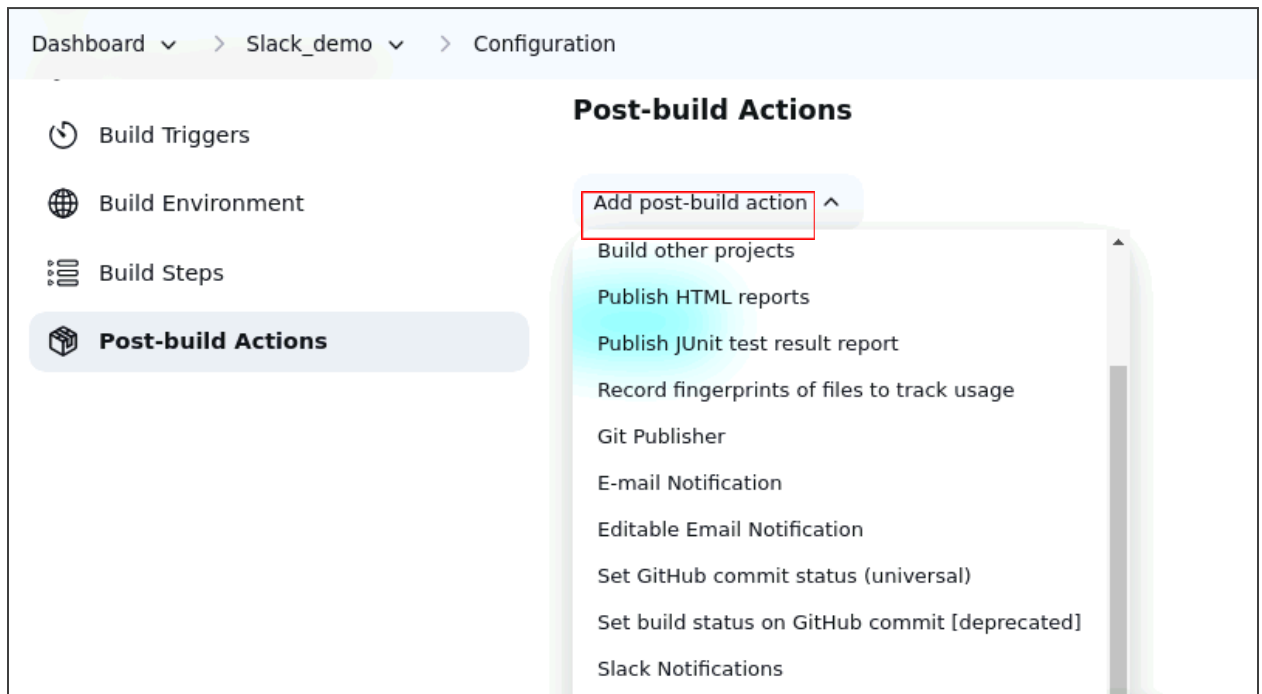
Permalinks

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

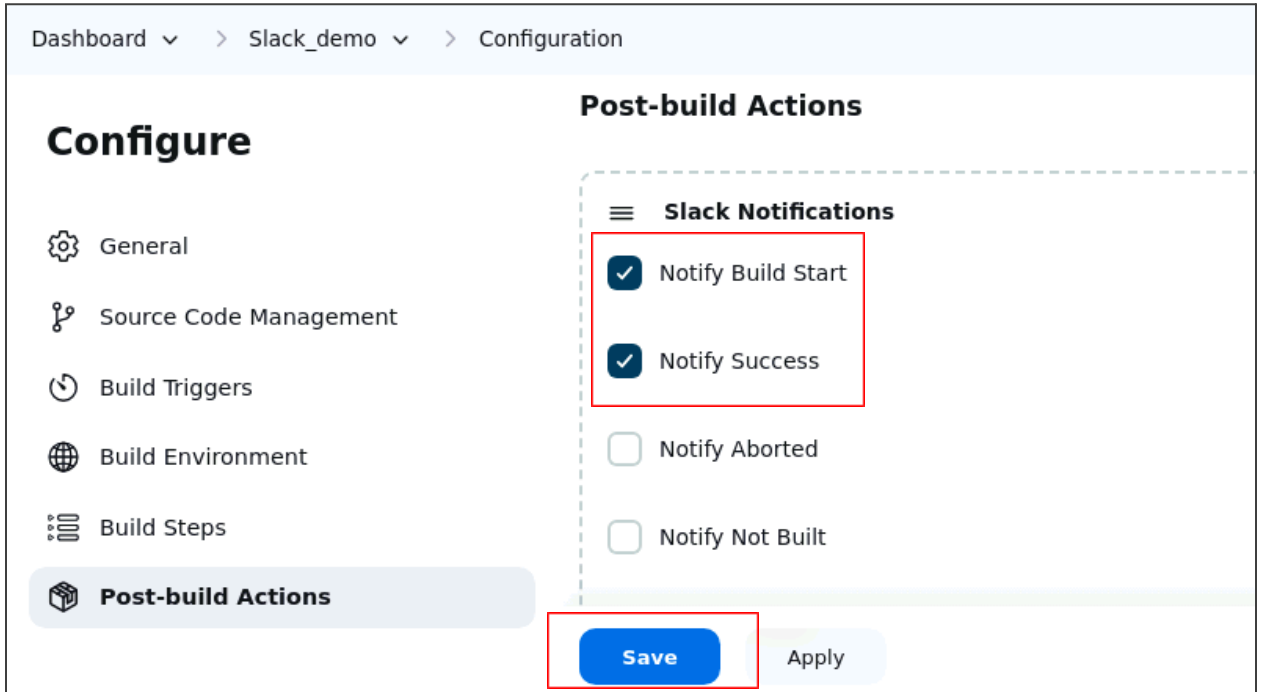
The screenshot shows the Jenkins configuration interface for a project named 'Slack_demo'. The breadcrumb trail at the top is 'Dashboard > Slack_demo > Configuration'. The main heading is 'Configure', and the sub-heading is 'General'. On the left sidebar, under the 'Configure' section, there is a list of configuration options: 'General' (with a gear icon), 'Source Code Management' (with a key icon), 'Build Triggers' (with a clock icon), 'Build Environment' (with a globe icon), 'Build Steps' (with a list icon), and 'Post-build Actions' (with a cube icon). The 'Post-build Actions' option is highlighted with a red rectangular box. On the right side, under the 'General' section, there is a 'Description' field (a large text area), a 'Plain text' label with a 'Preview' link, and a checkbox labeled 'Discard old builds' with a help icon. At the bottom right, there are two buttons: 'Save' (blue) and 'Apply' (light blue).

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

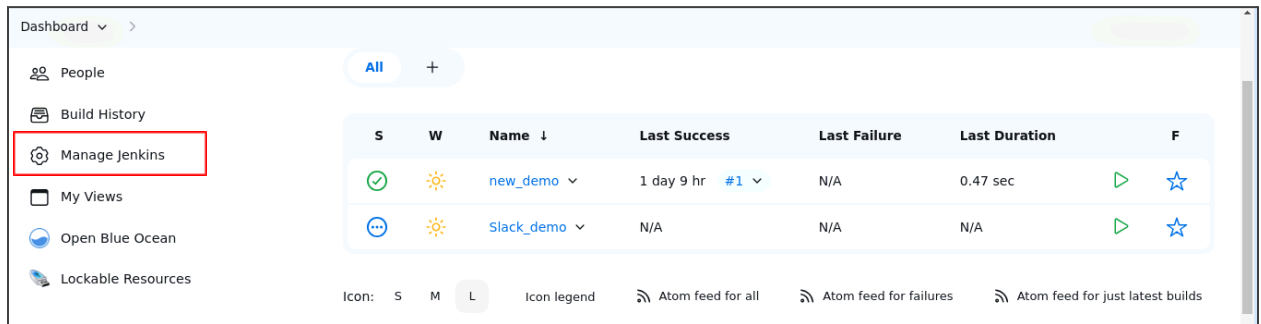
A red rectangular box representing the 'Add post-build action' drop-down menu, which is the first step in adding a new post-build action to the configuration.



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:

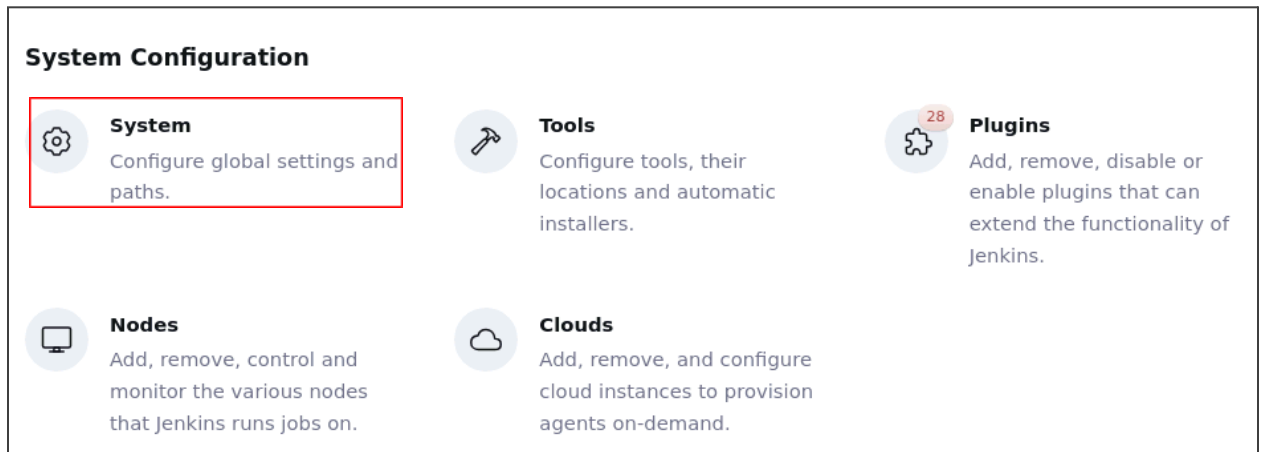


The screenshot shows the Jenkins Dashboard. In the left sidebar, the 'Manage Jenkins' link is highlighted with a red box. The main content area displays a table of builds. The table has columns for status (S), warnings (W), name, last success, last failure, last duration, and a flag (F). Two builds are 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 for all, failures, and 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. It includes a gear icon and the text 'Configure global settings and paths.' Other options include 'Tools' (configure tools and installers), 'Plugins' (add, remove, disable or enable plugins), 'Nodes' (add, remove, control and monitor nodes), and 'Clouds' (add, remove, and configure cloud instances).

System Configuration

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

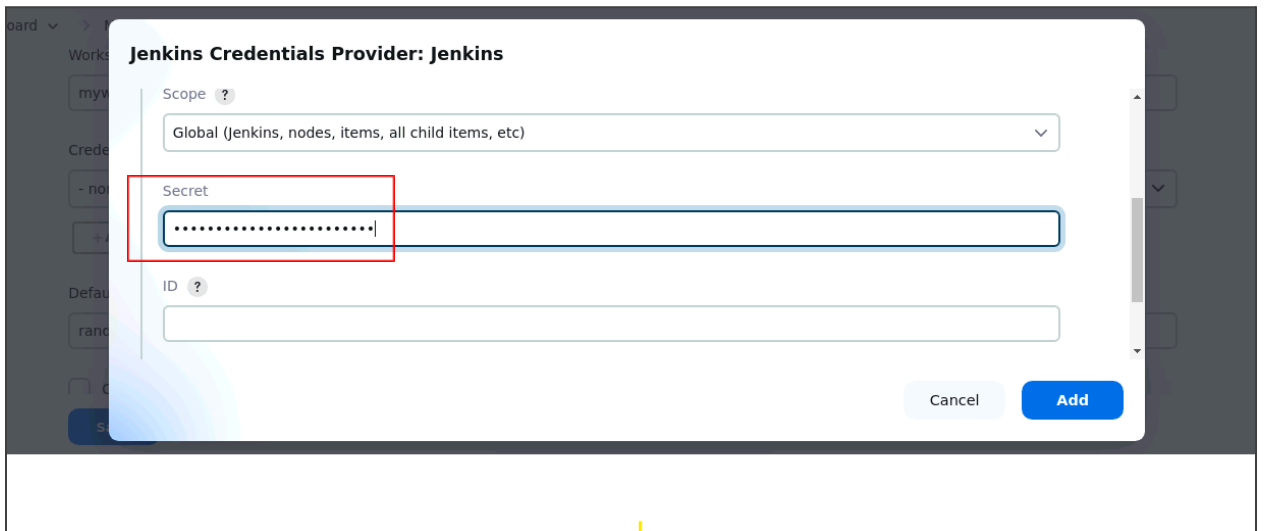
3.10 Click on **Jenkins** as shown in the screenshot below:

The screenshot shows the Jenkins configuration page for a Credentials Provider. The breadcrumb navigation is "Dashboard > Manage Jenkins > System > Workspace". The "Workspace" field is set to "myworkspace-cap7600". The "Credential" dropdown is set to "- none -". The "Jenkins Credentials Provider" section is highlighted, and the "Jenkins" option is selected and highlighted with a red box. The "member id" field is set to "random". There is a checkbox for "Custom slack app bot user" which is unchecked. 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 is highlighted with a red box, and its options are displayed: "Username with password", "Username with password", "GitHub App", "SSH Username with private key", "Secret file", "Secret text", and "Certificate". The "Secret text" option is highlighted with a red box. At the bottom right, there are "Cancel" and "Add" buttons.

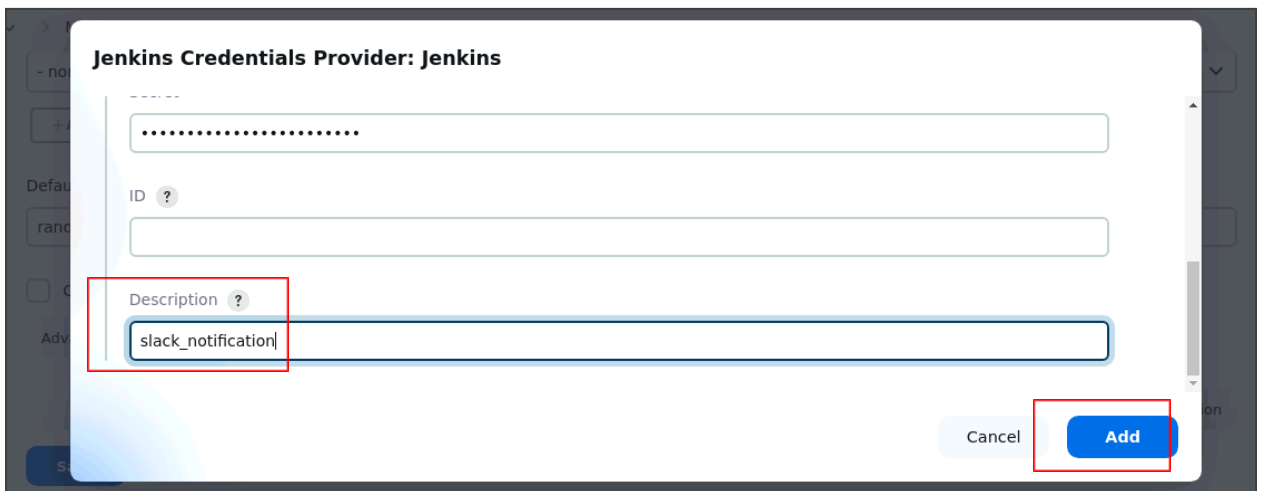
3.12 Enter the token credential under **Secret** section as shown in the screenshot below:



The screenshot shows the 'Jenkins Credentials Provider: Jenkins' form. The 'Scope' dropdown is set to 'Global (jenkins, nodes, items, all child items, etc)'. The 'Secret' field, which contains a masked token (represented by dots), is highlighted with a red rectangular box. The 'ID' field 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 same 'Jenkins Credentials Provider: Jenkins' form. The 'Secret' field is now empty. The 'ID' field is still empty. The 'Description' field, which contains the text 'slack_notification', is highlighted with a red rectangular box. At the bottom right, the 'Add' button is also highlighted with a red rectangular box. The 'Cancel' button is also visible.

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 'Manage Jenkins > System'. It features two dropdown menus: 'Workspace' and 'Credential'. The 'Workspace' dropdown is set to 'myworkspace-cap7600'. The 'Credential' dropdown is open, showing a list of options: '- none -', 'admin', 'sla', 'slack', 'slack_notification', and 'random'. The 'slack_notification' option is highlighted in blue and enclosed in a red rectangular box. Below the dropdowns, there is a checkbox labeled 'Custom slack app bot user' which is currently unchecked. At the bottom of the form are two buttons: 'Save' (in blue) and 'Apply' (in light blue).

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:

Dashboard > Manage Jenkins > System >

Workspace ?

myworkspace-cap7600

Credential ?

slack_notification

+ Add

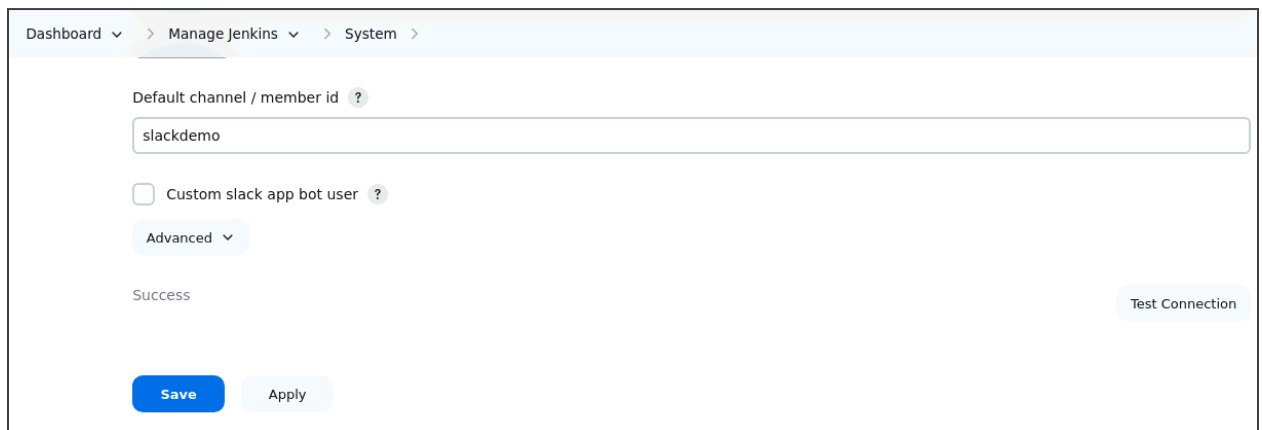
Default channel / member id ?

slackdemo

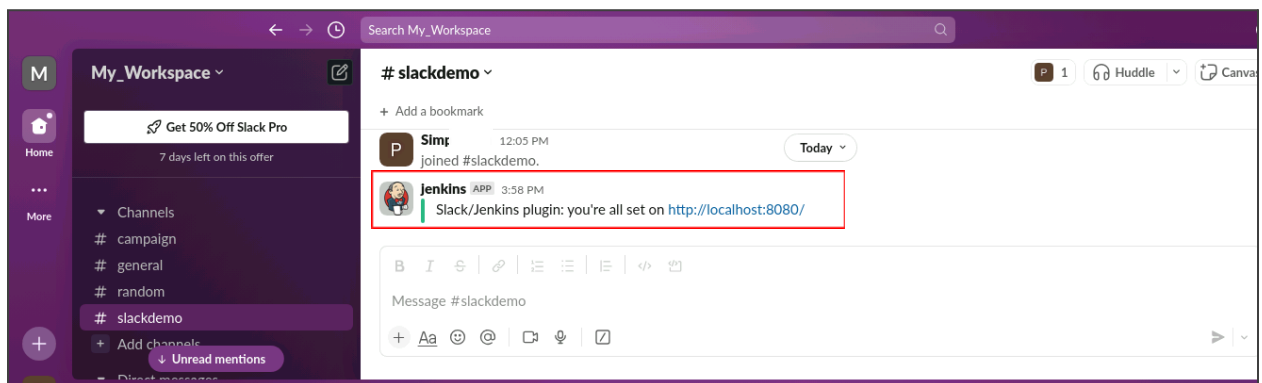
☐ Custom slack app bot user ?

Save Apply

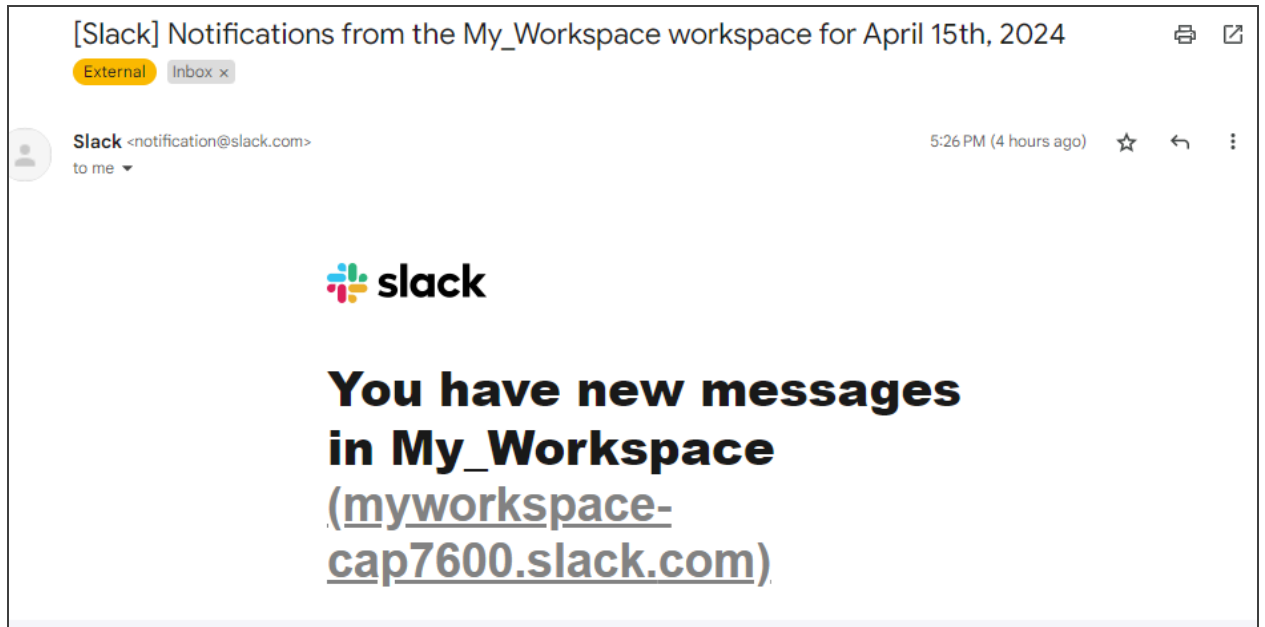
- 3.16 Click on **Test Connection** to verify that the status shows **Success**, and then click on **Save** as shown in the screenshot below:



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.