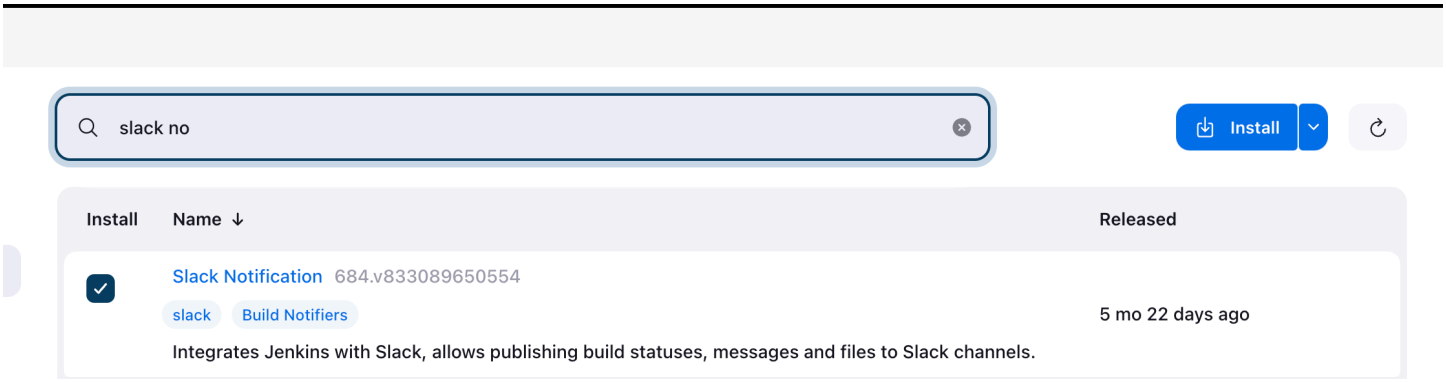
JENKINS INTEGRATION WITH SLACK & SPLUNK

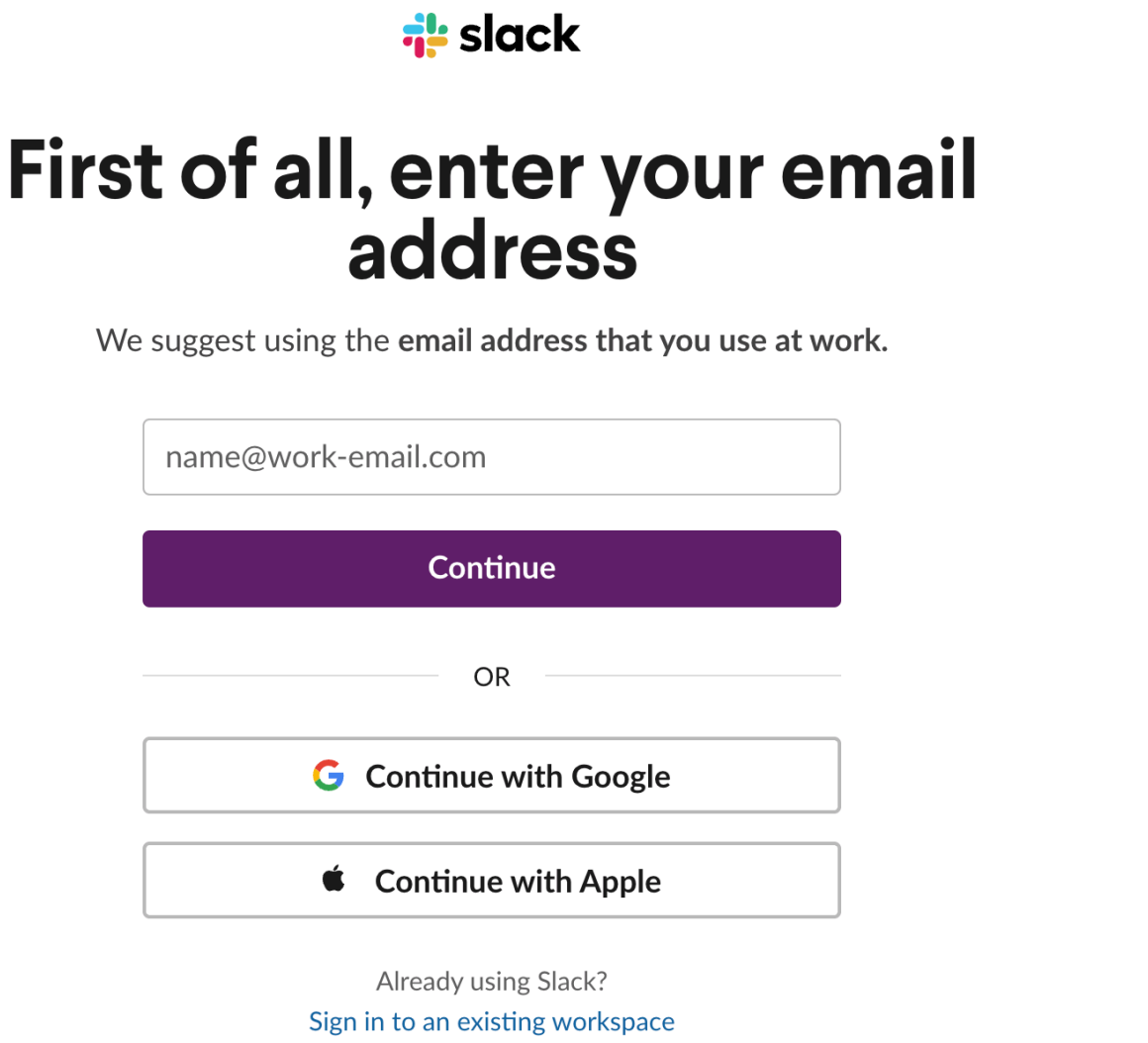
SLACK INTEGRATION:

STEP-1: SETUP JENKINS

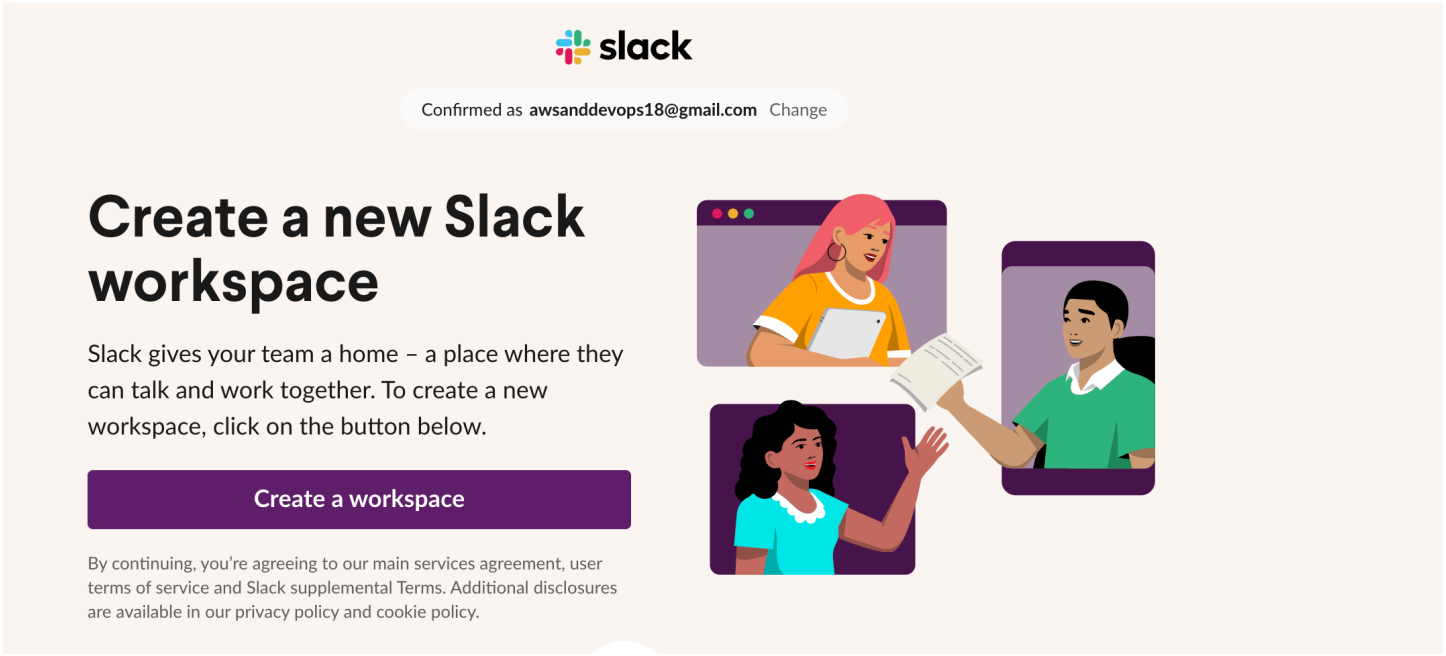
STEP-2: INSTALL SLACK NOTIFICATION PLUGIN



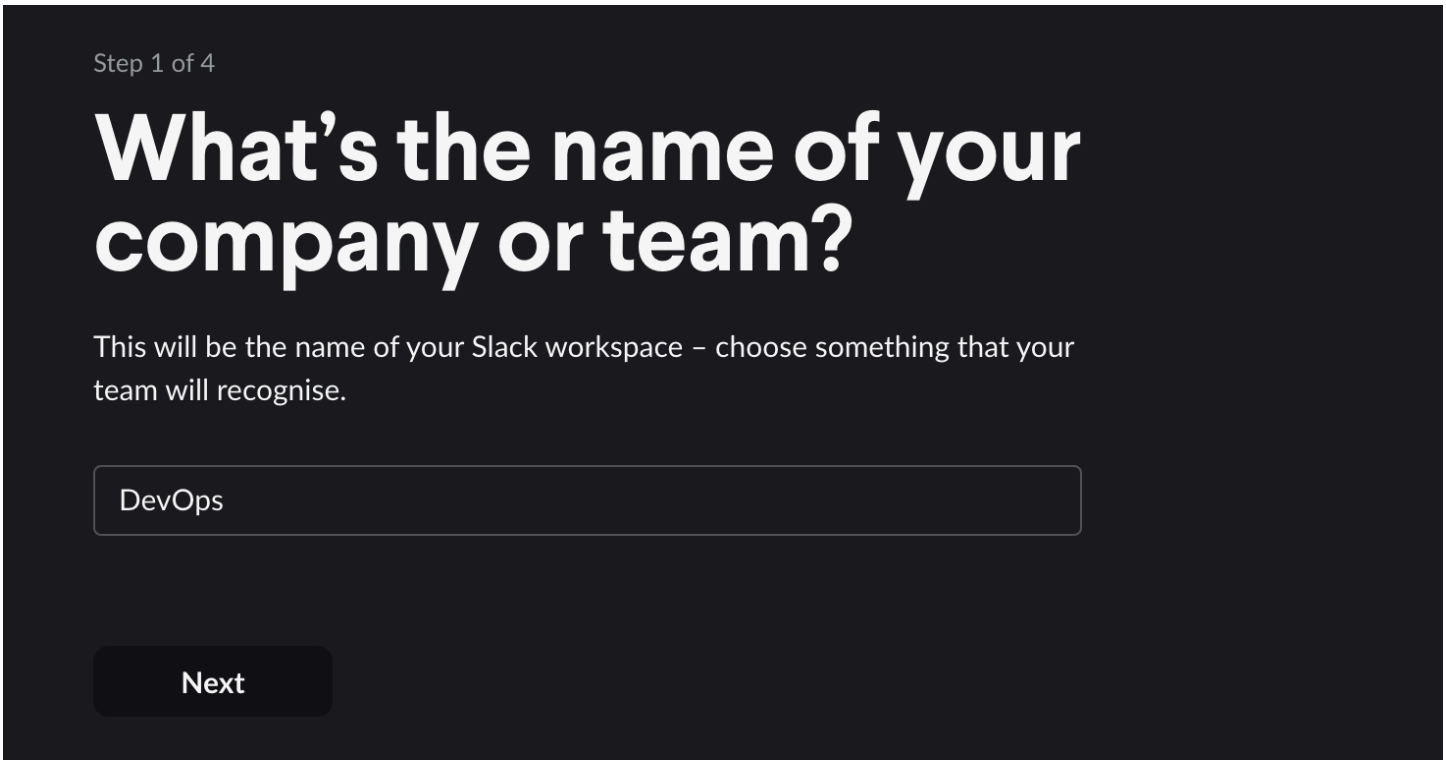
STEP-3: CREATE ACCOUNT ON SLACK USING GOOGLE ACCOUNT.



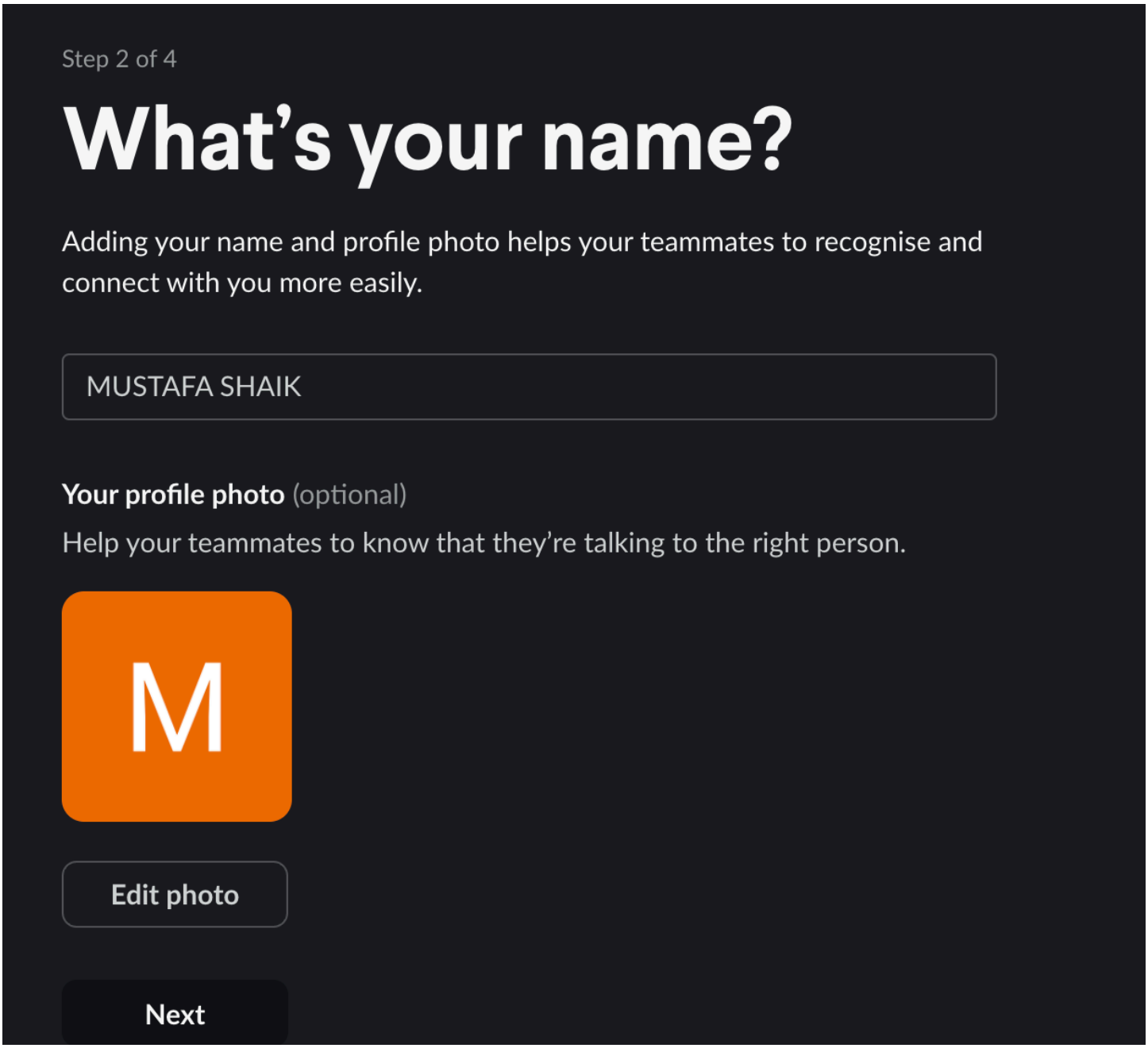
click on continue with Google



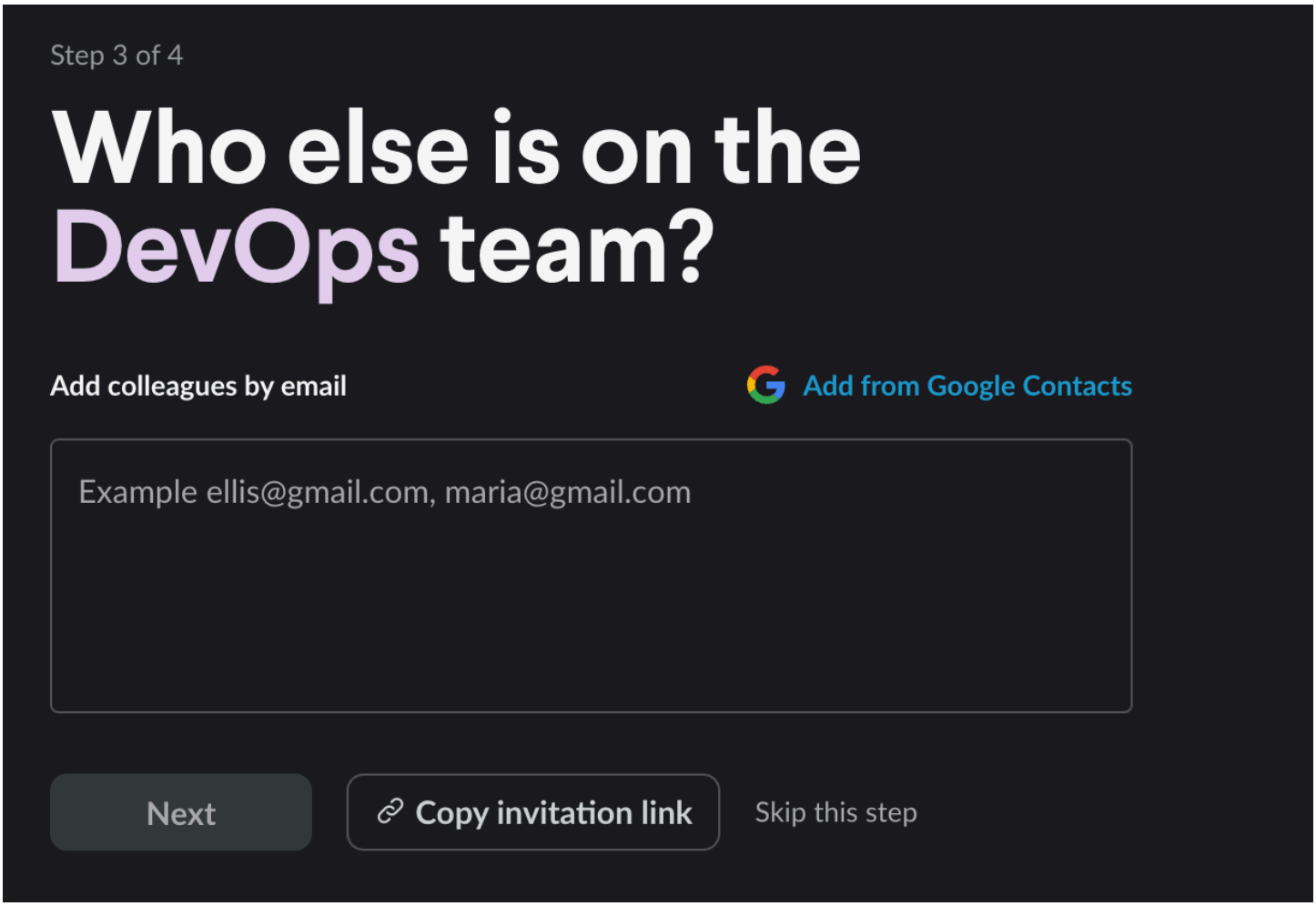
click on create workspace



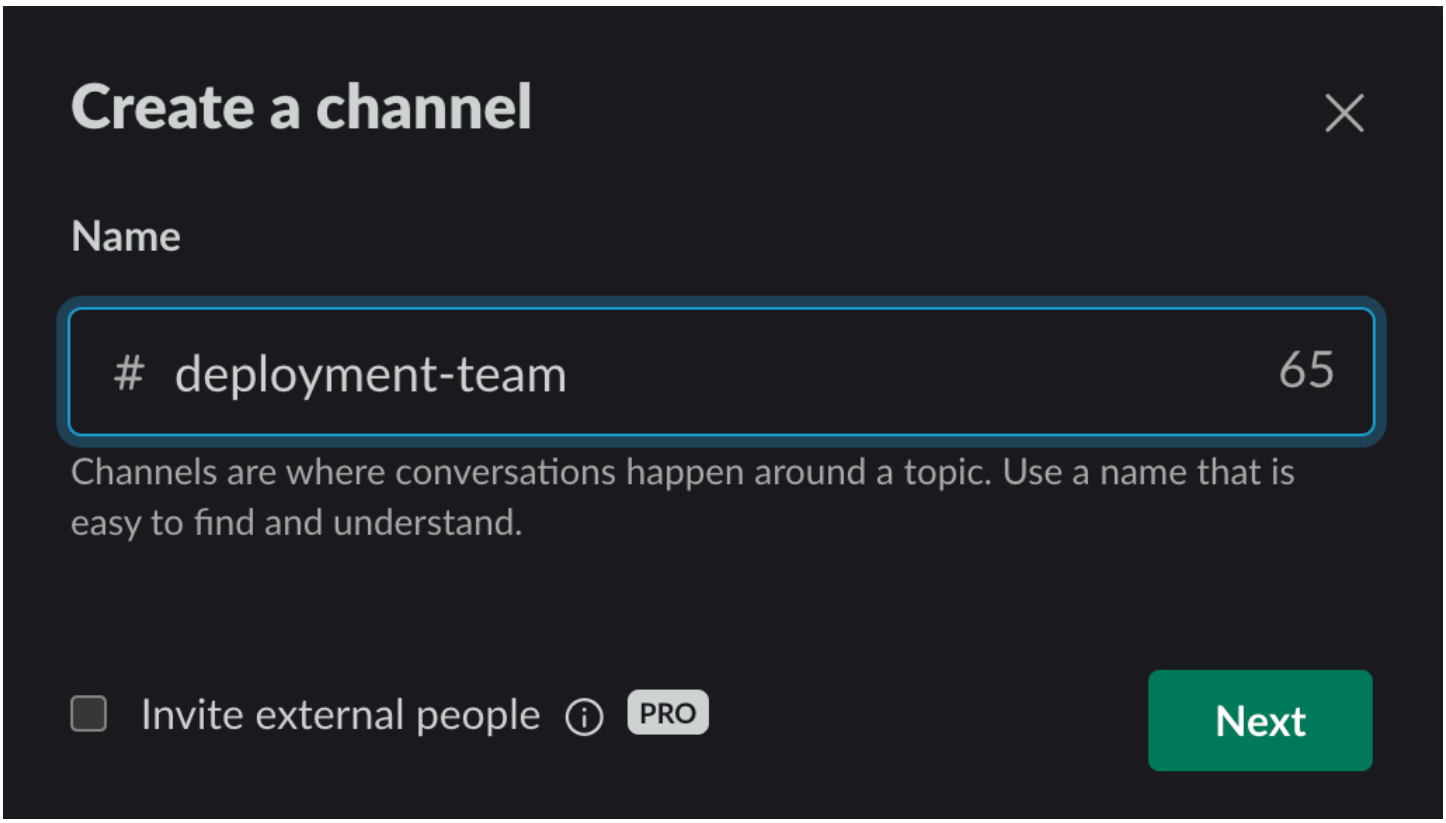
Enter your team name or company name



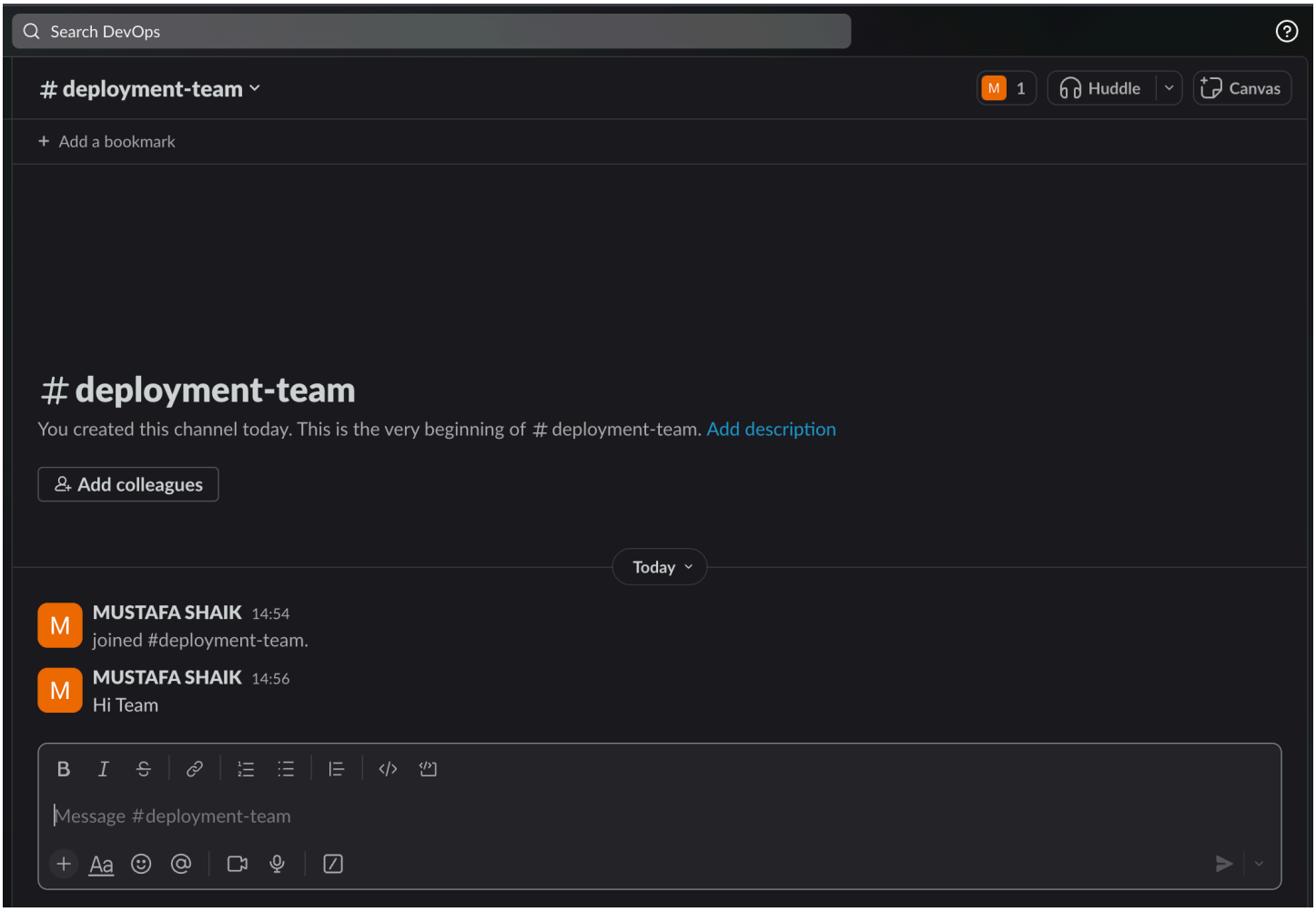
Enter you name



Enter your colleague mail ids for collabaration



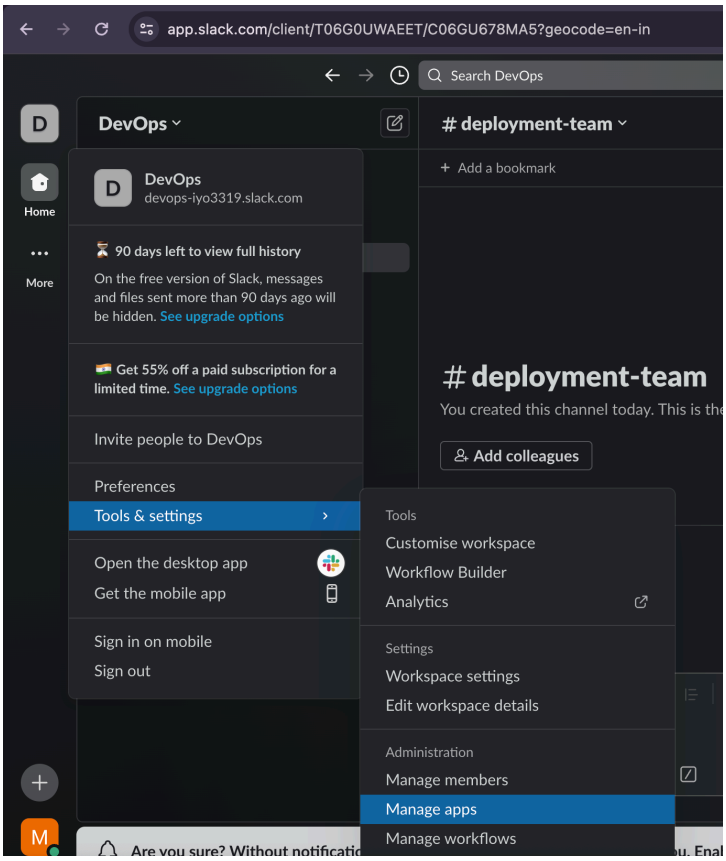
Enter any channel name.



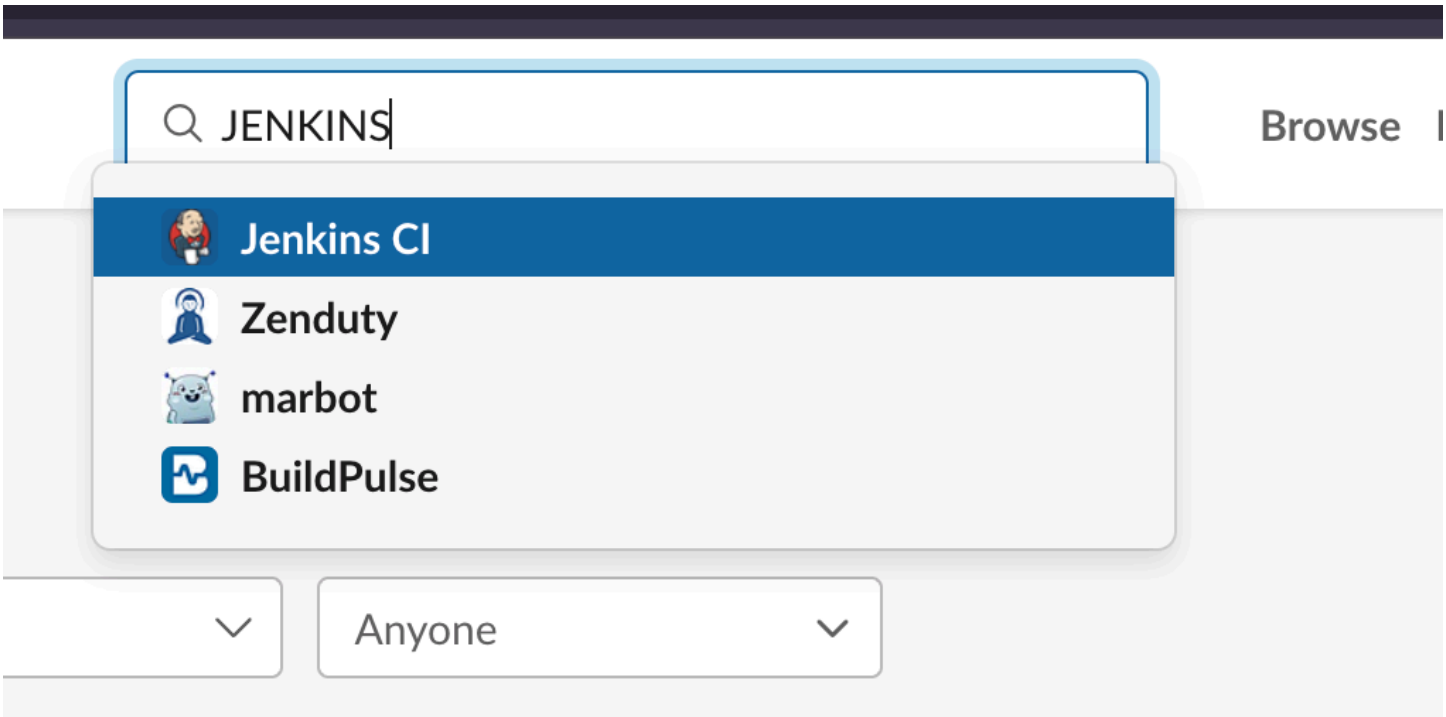
STEP-4: INTEGRATE THIS SLACK TO JENKINS

INSTALL JENKINS PLUGIN IN SLACK

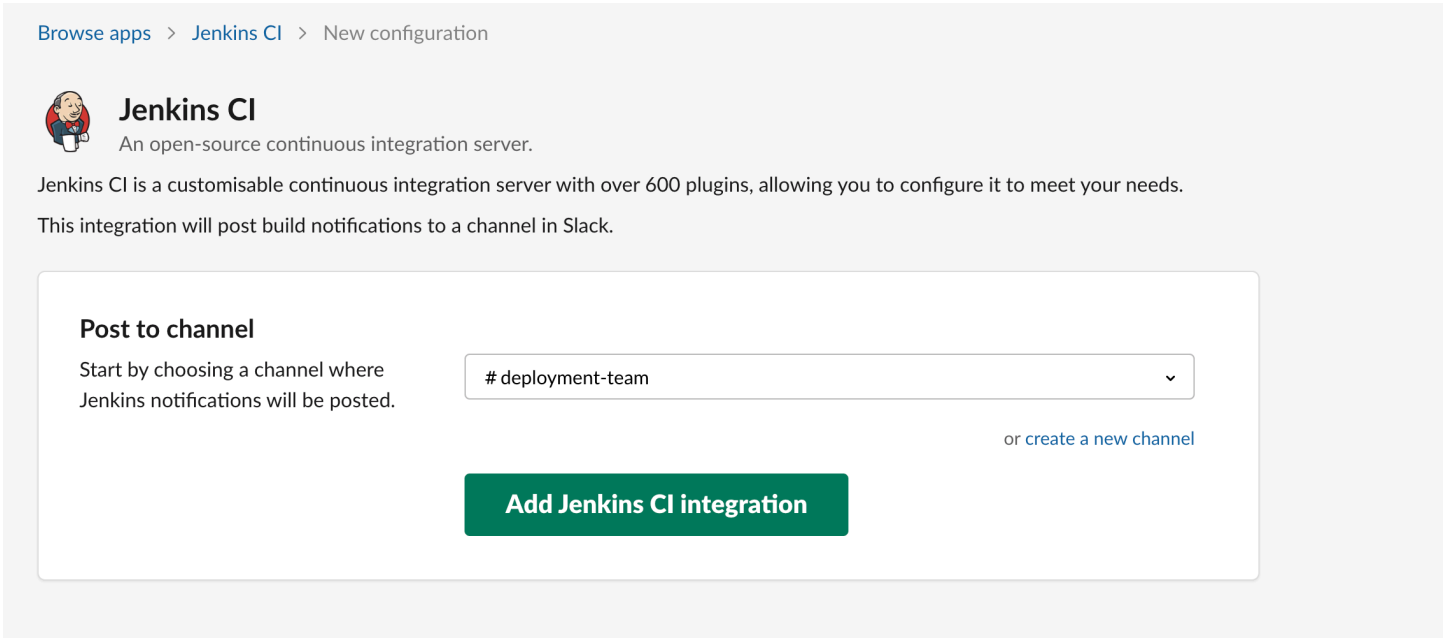
CLICK ON PROFILE -----> TOOLS & SETTINGS ----> MANAGE APPS



SEARCH FOR JENKINS

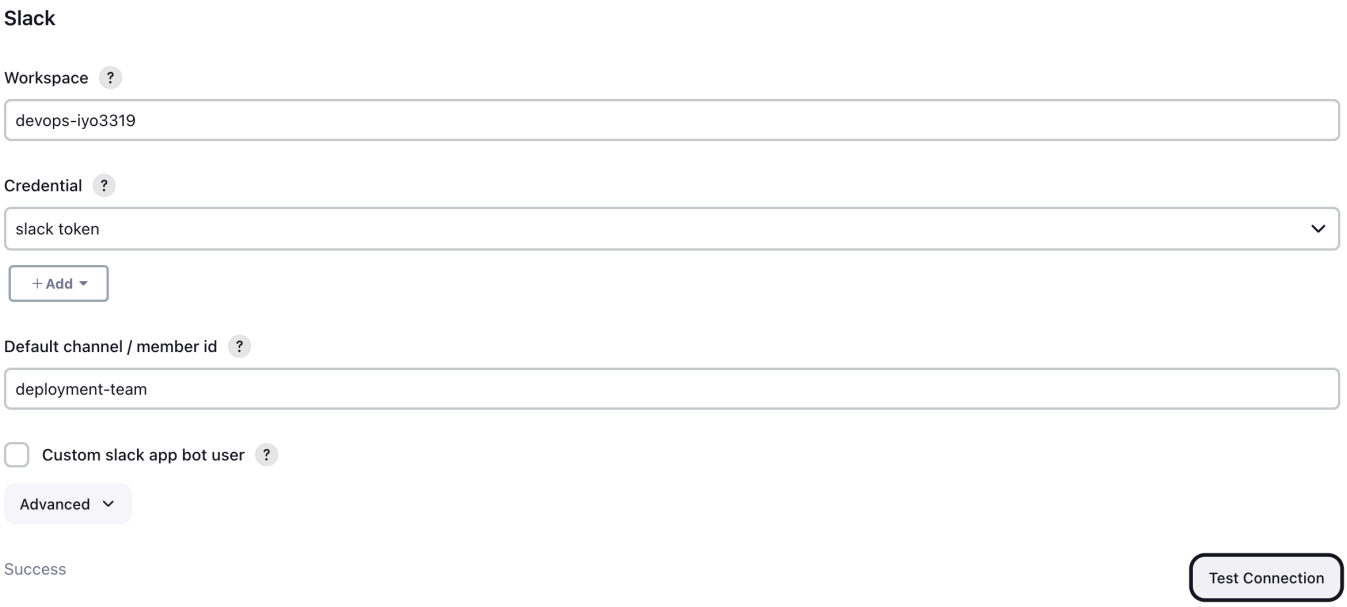


CLICK ON ADD TO SLACK



SELECT OUR CHANNEL (deployment-team) AND CLICK ON ADD JENKINS CI INTEGRATION

STEP-5: NOW GO TO JENKINS ----> MANAGE JENKINS ----> SYSTEM ----> SLACK



add **sub-domain, workspace and credentials**(slack token) using secret text. we will get this **slack token and sub-domain** name from slack page.

Step 3

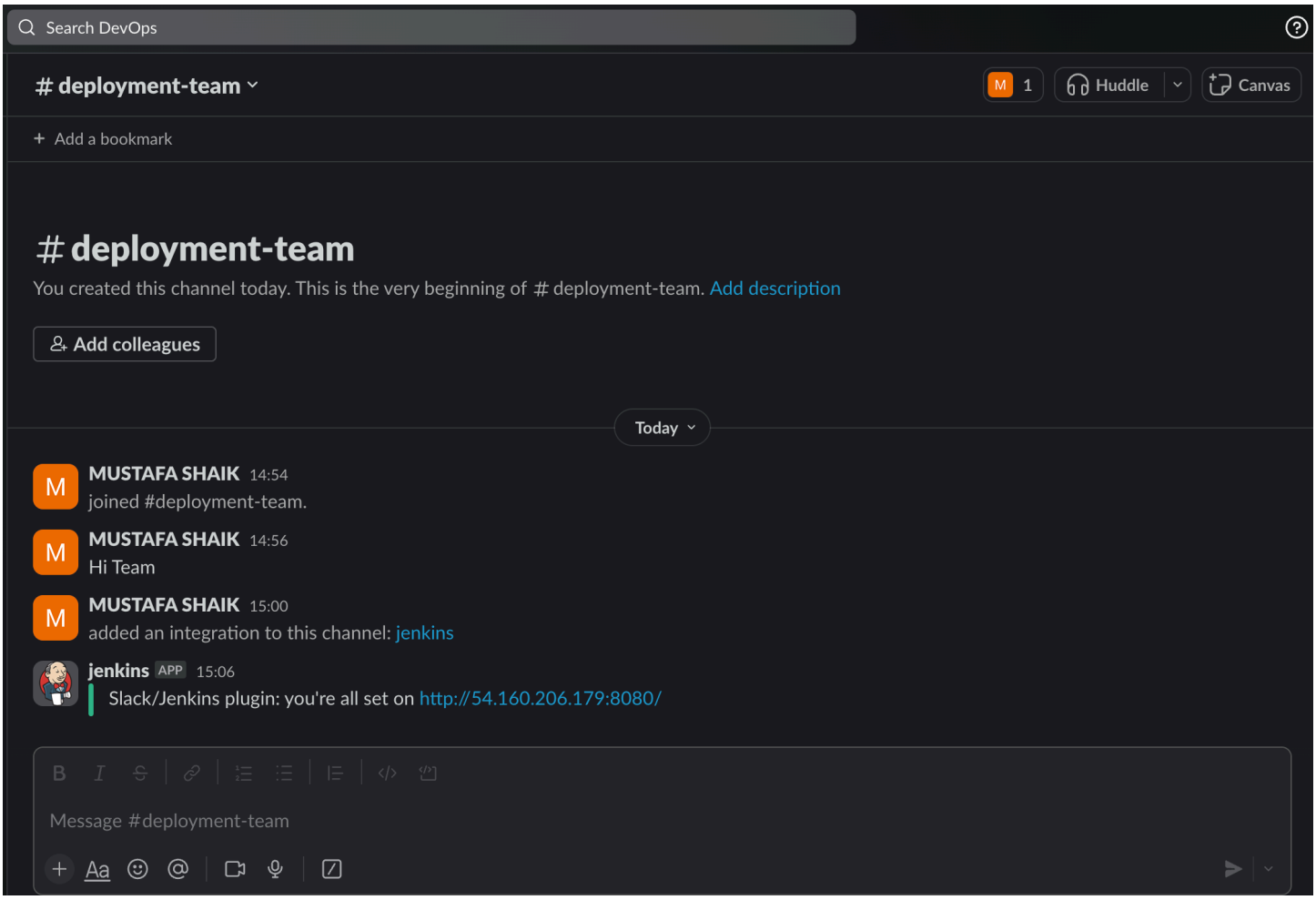
Once it's installed, click on **Manage Jenkins** again in the left navigation and then go to **Configure system**. Find the **Global Slack notifier settings** section and add the following values:

- **Team subdomain:** `devops-iyo3319`
- **Integration token credential ID:** Create a secret text credential using `pXY02VlPnyAWwM9yqL9tCVEt` as the value

The other fields are optional. You can click on the question mark icons next to them for more information. Press **Save** once you've finished.

Note: Please remember to replace the integration token in the screenshot below with your own.

NOW OPEN YOUR SLACK YOU WILL GET A MESSAGE



NOW LETS BUILD ANY JOB USING POST BUILD ACTIONS IN JENKINS AND TEST IT.

```
post {
   always {
      echo 'Slack Notifications'
      slackSend (
         channel: '#channel name', message: "*${currentBuild.currentResult}:* Job ${env.JOB_NAME} \n build ${env.BUILD_NUMBER} \n More info at: ${env.BUILD_URL}"
      )
   }
}
```

SPLUNK INTEGRATION:

STEP-1: LAUNCH EC2 INSTANCE WITH T2.MEDIUM AND 25GB EBS VOLUME

STEP-2: GO TO splunk.com and CREATE ACCOUNT.

STEP-3: INSTALL SLACK ON OUR SERVER.

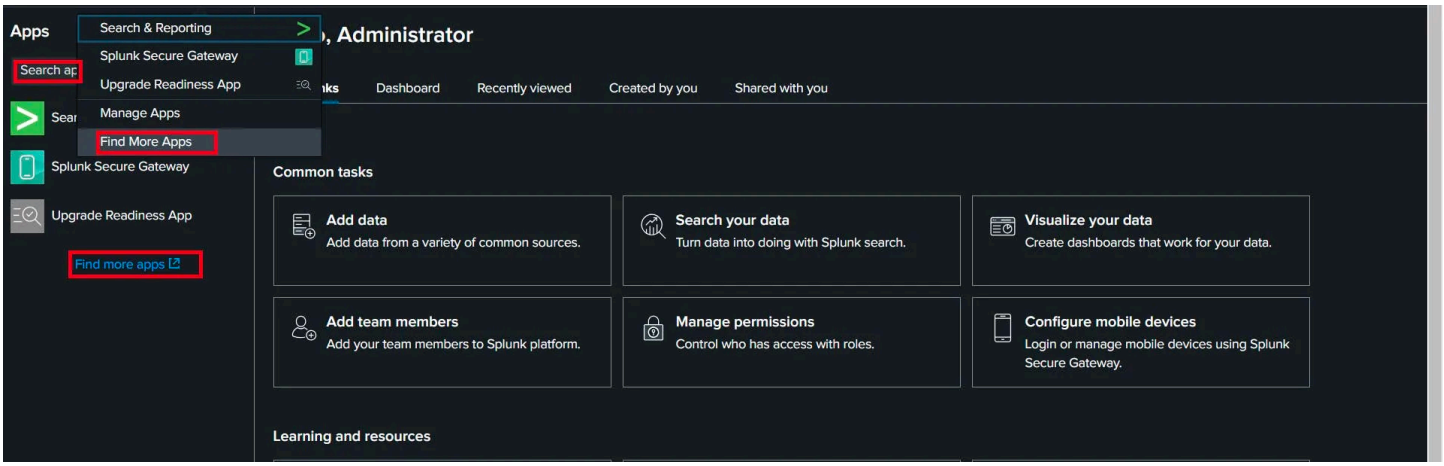
- cd /opt/
- wget -O splunk-9.0.1-82c987350fde-Linux-x86_64.tgz "https://download.splunk.com/products/splunk/releases/9.0.1/linux/splunk-9.0.1-82c987350fde-Linux-x86_64.tgz"
- tar -zxvf splunk-9.0.1-82c987350fde-Linux-x86_64.tgz
- cd splunk/bin/
- sudo ./splunk start --accept-license

STEP-4: NOW ACCESS SPLUNK DASHBOARD (public-ip:8000) and Login

STEP-5: INSTALL JENKINS ON SPLUNK

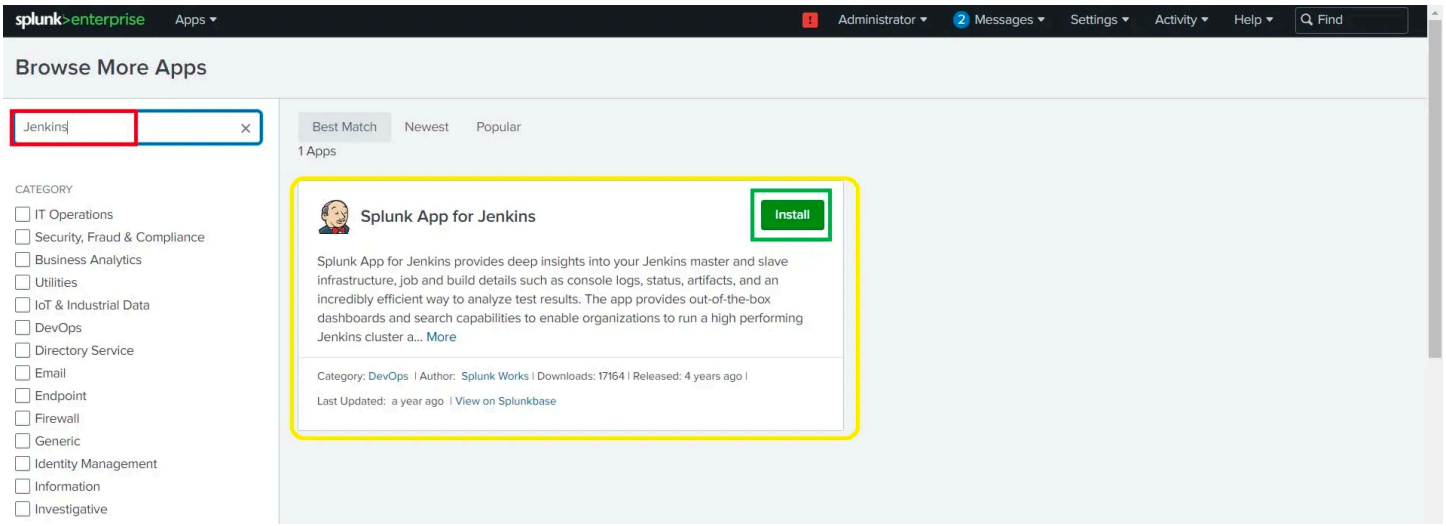
In Splunk Dashboard

Click on Apps → Find more apps

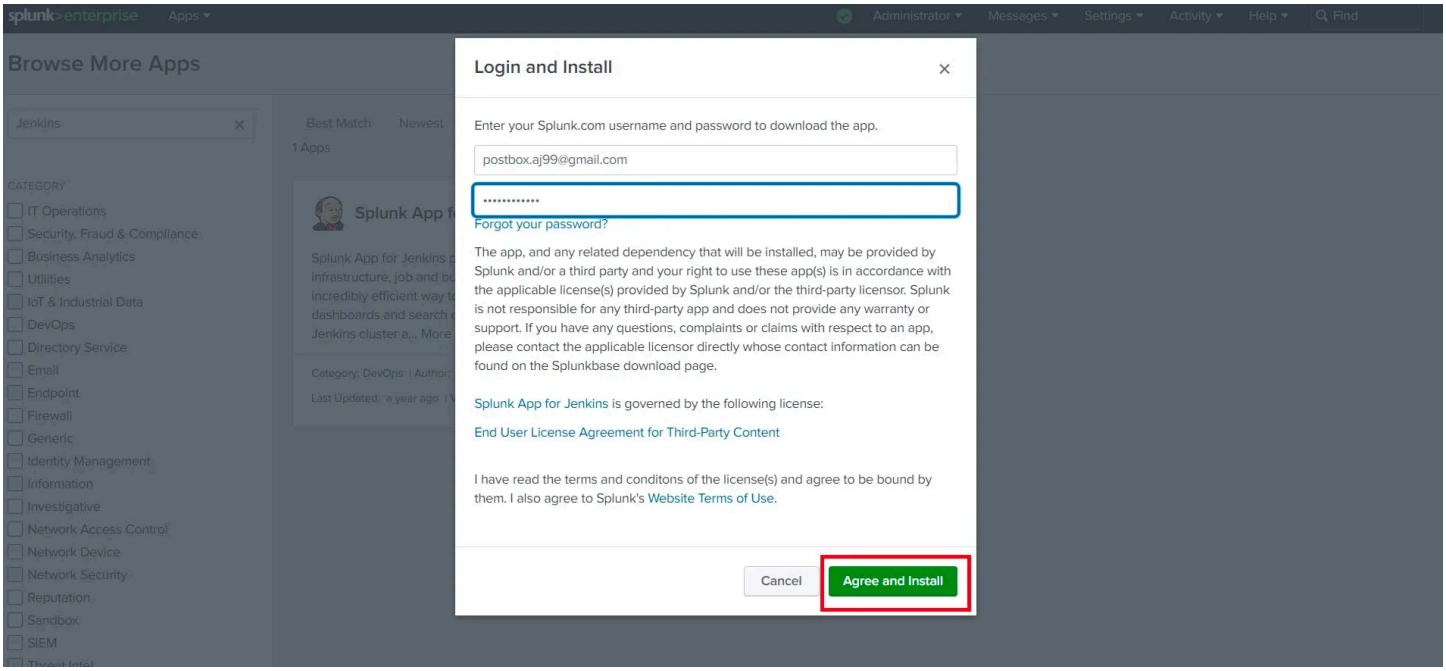


Search for Jenkins in Search bar

You will get Splunk app for Jenkins and click on install

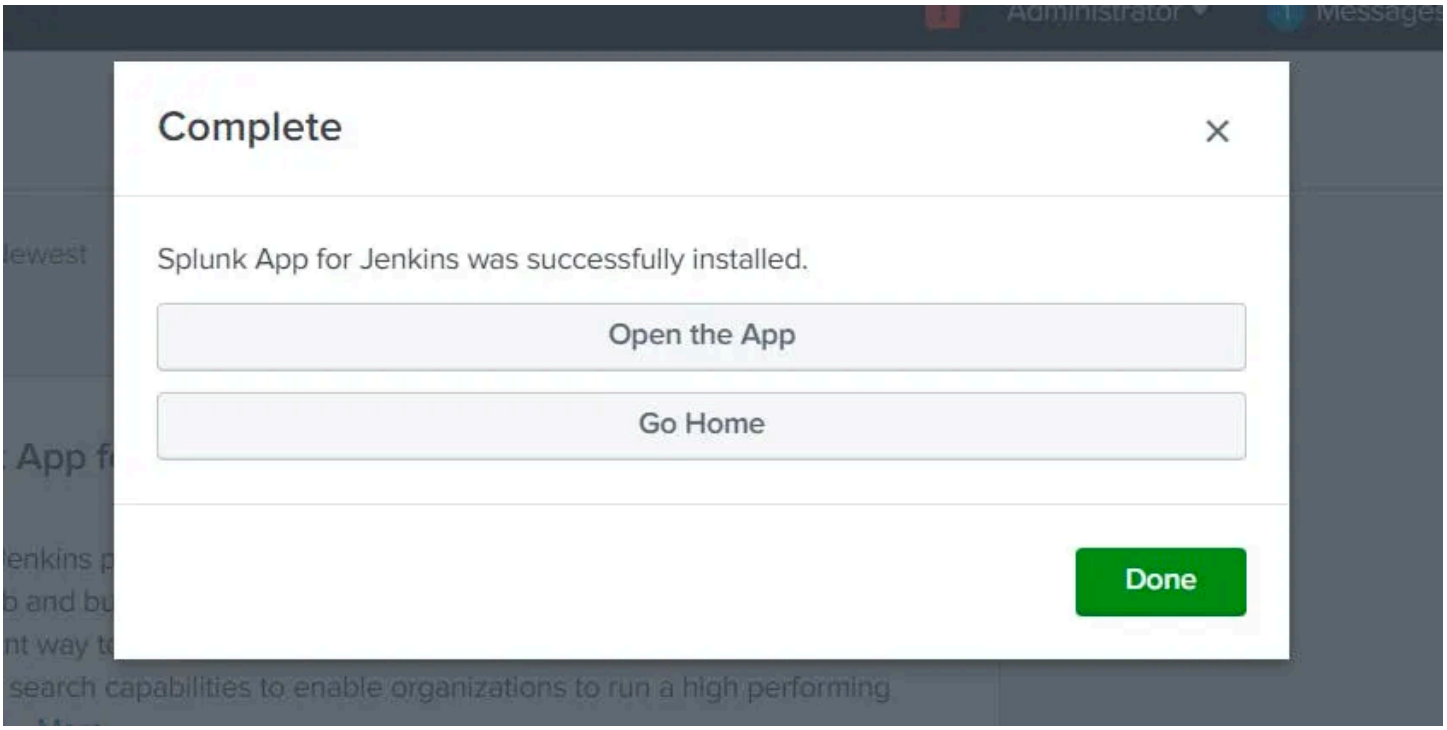


You will be prompted to provide your Splunk credentials. That's why we created a Splunk account

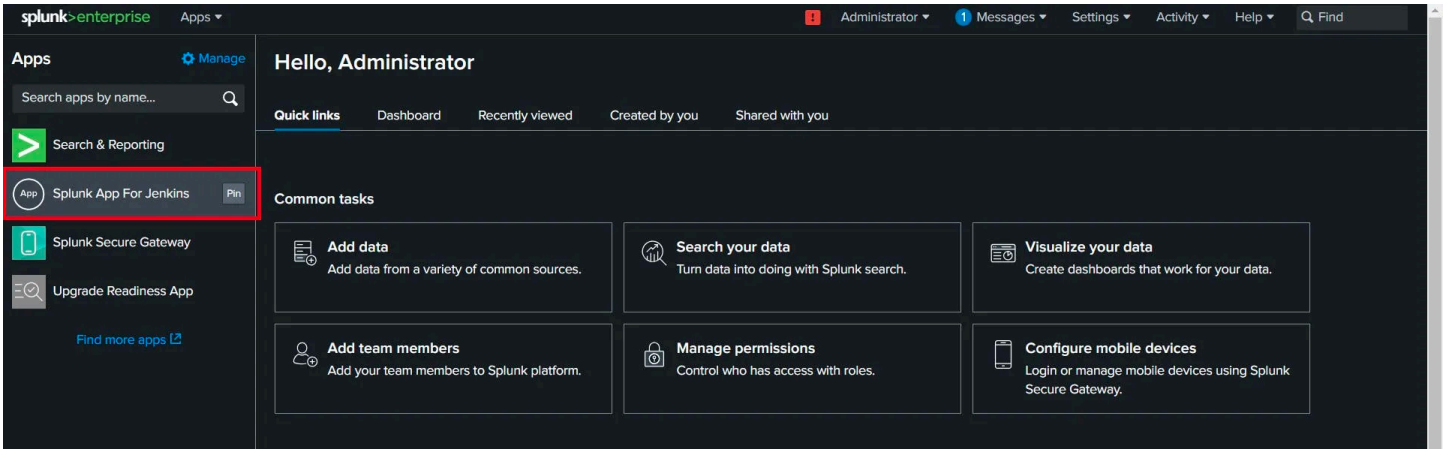


Click on Agree and install

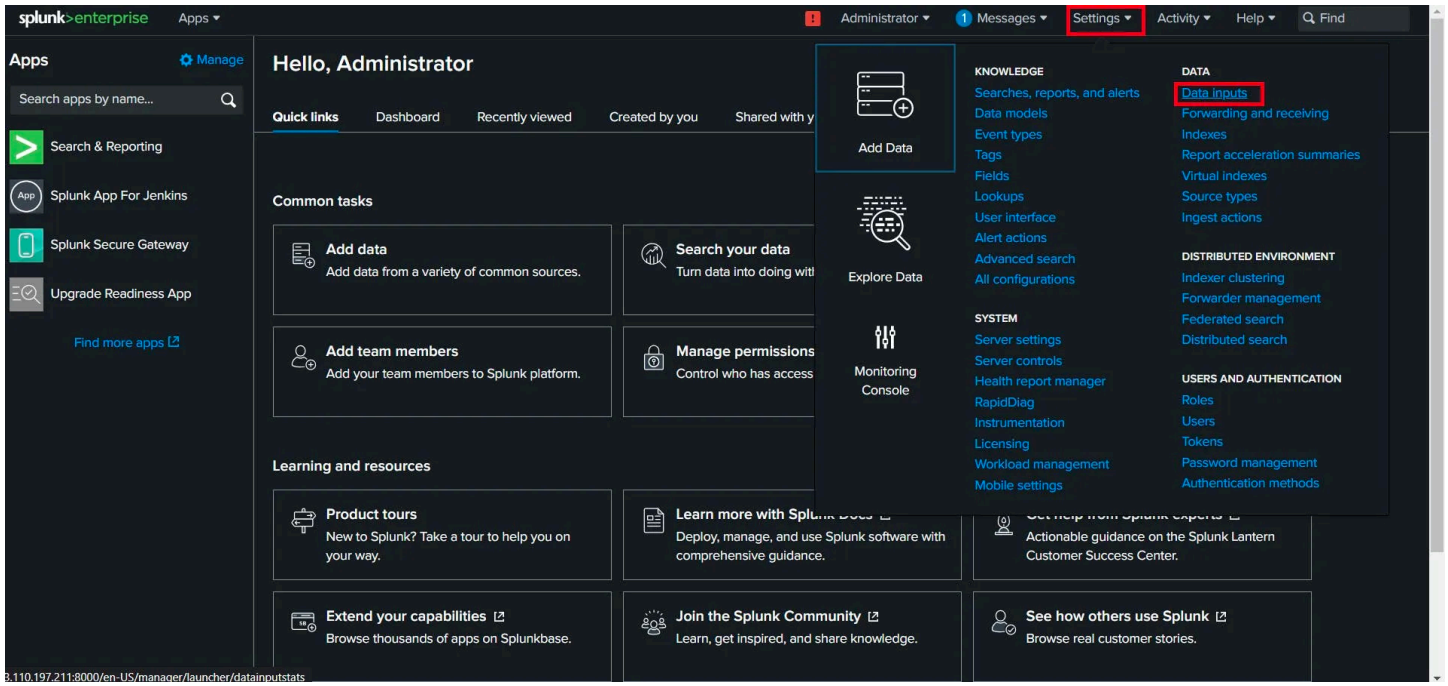
Now click on Go home



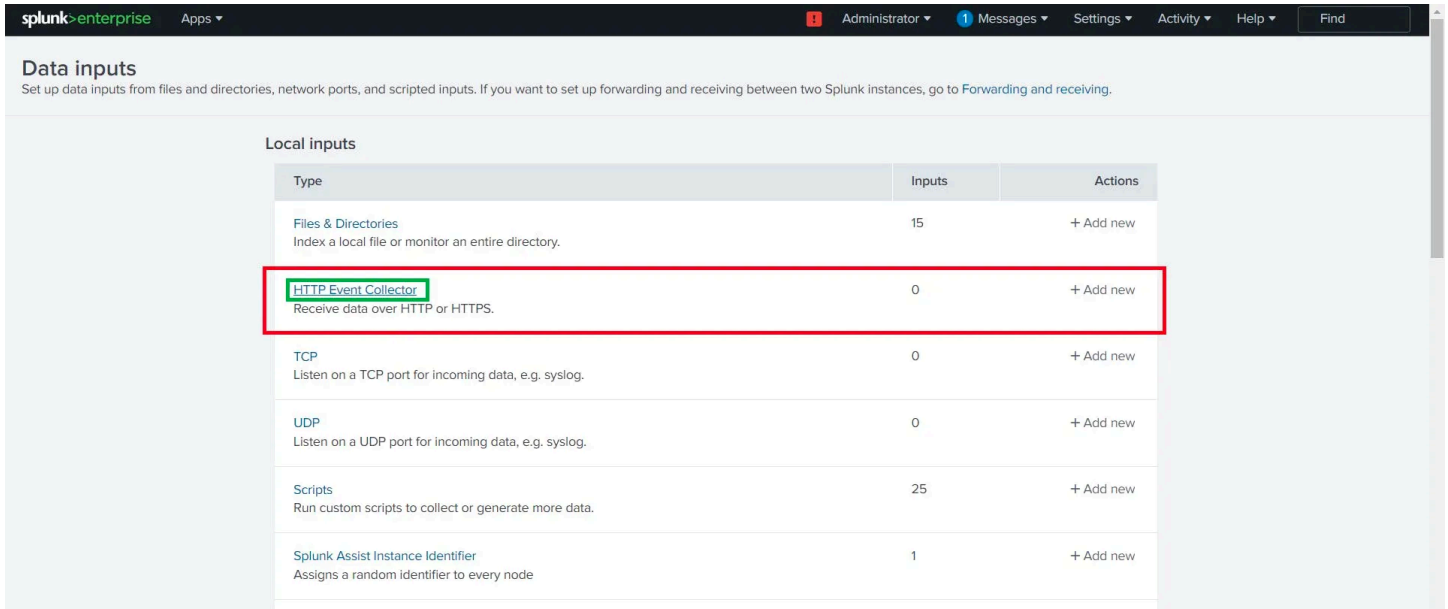
On homepage of Splunk, you will see Jenkins been added



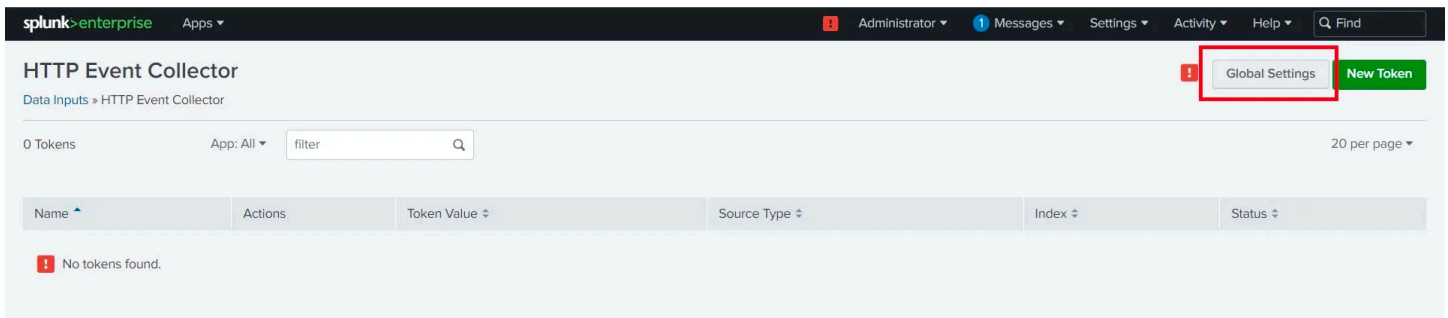
In the Splunk web interface, go to Settings ------> Data Inputs.



Click on HTTP Event Collector.



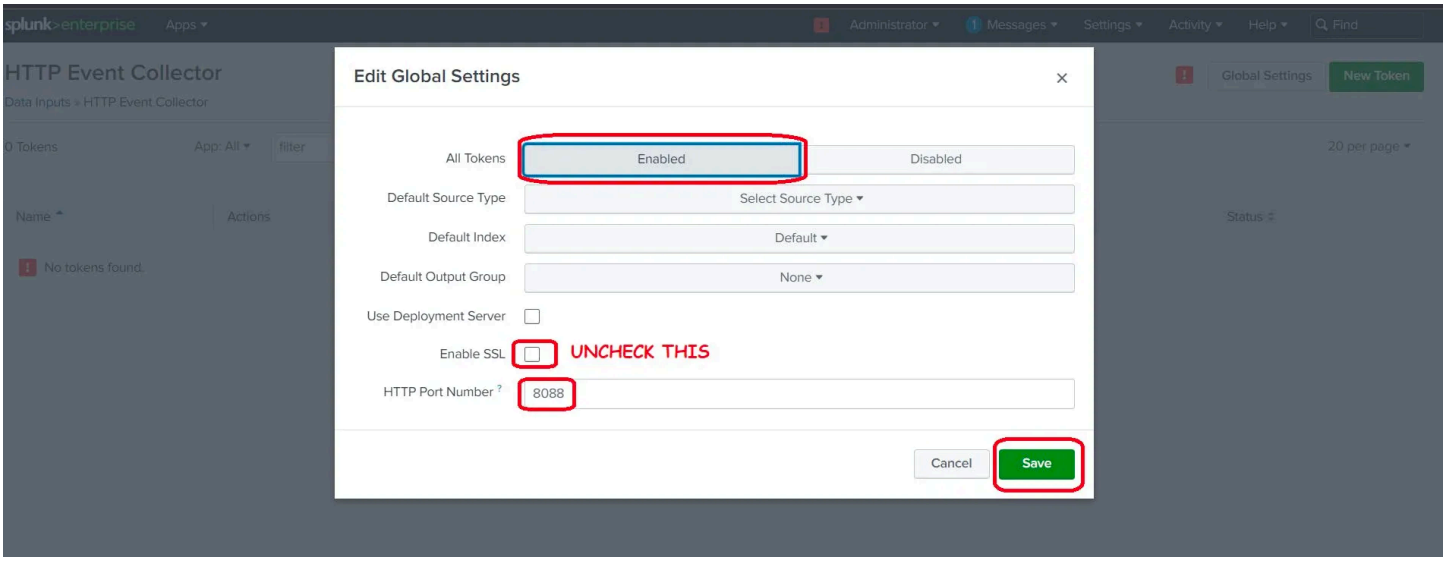
Click on Global Settings



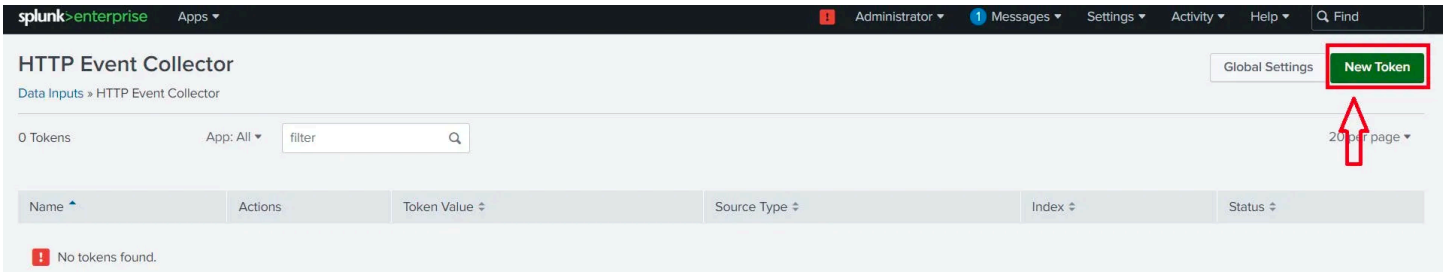
Set All tokens to enabled

Uncheck SSL enable

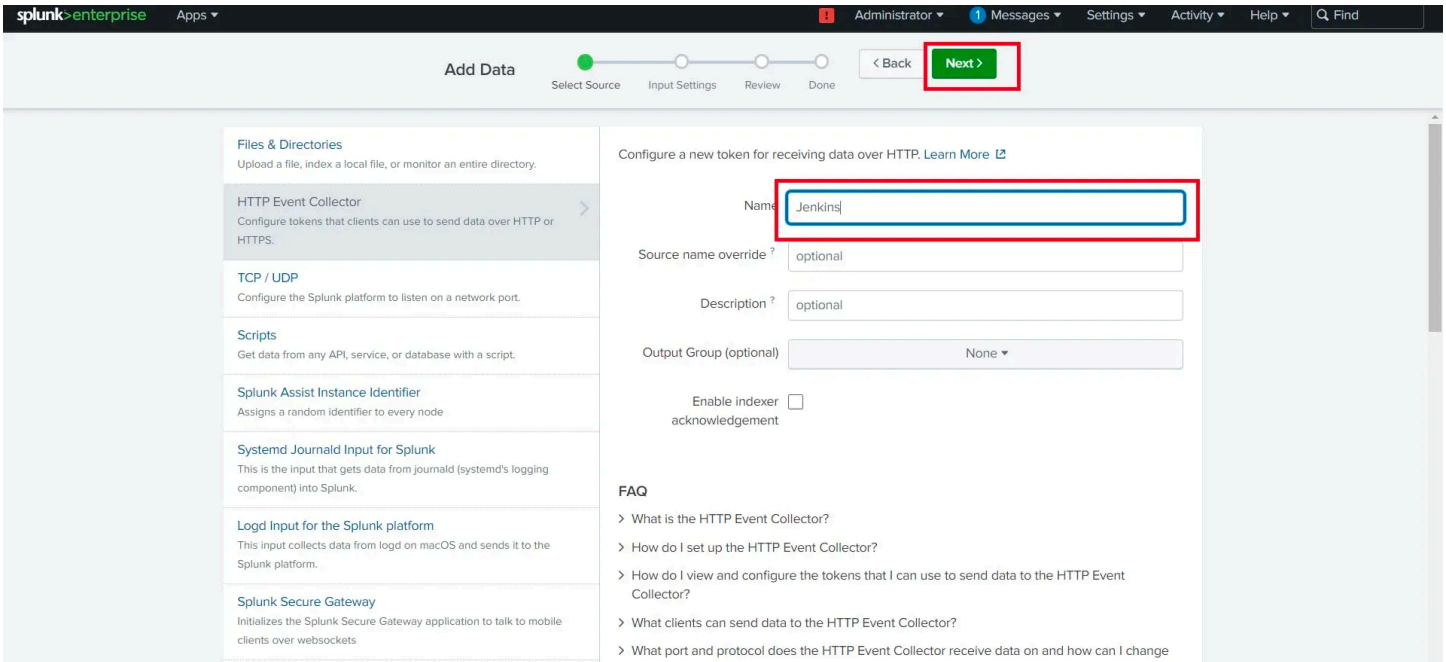
Use 8088 port and click on save



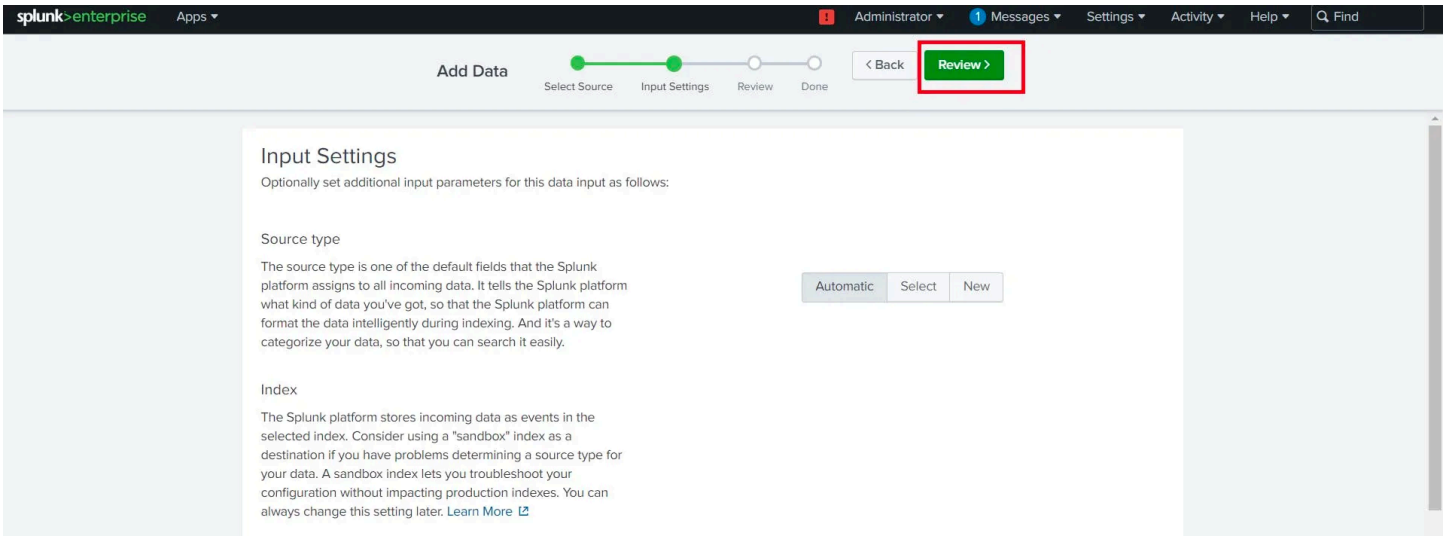
Now click on New token



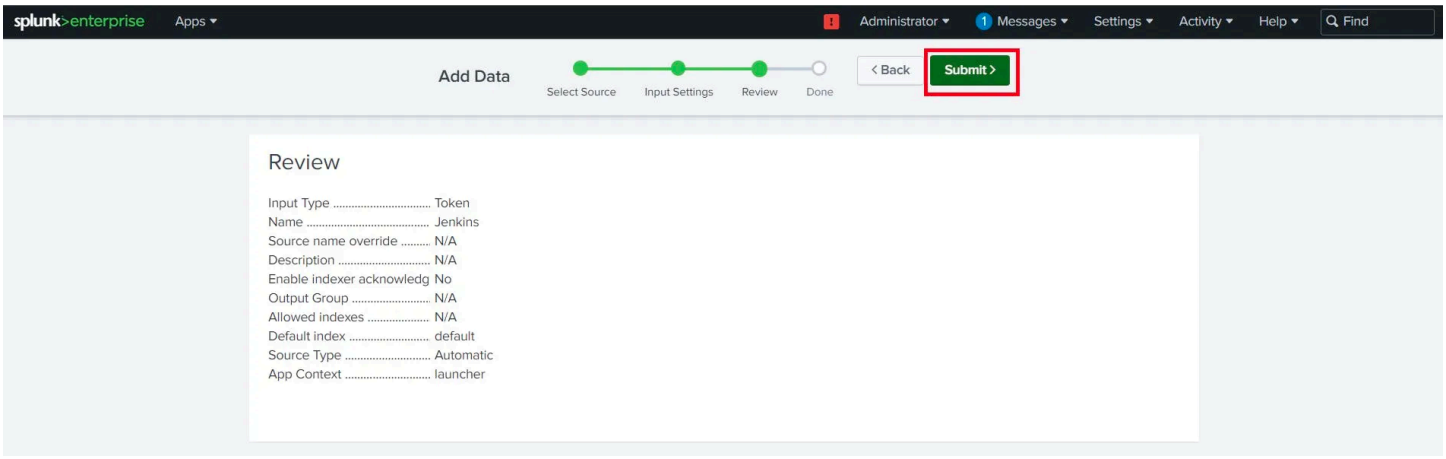
Provide a Name and click on next



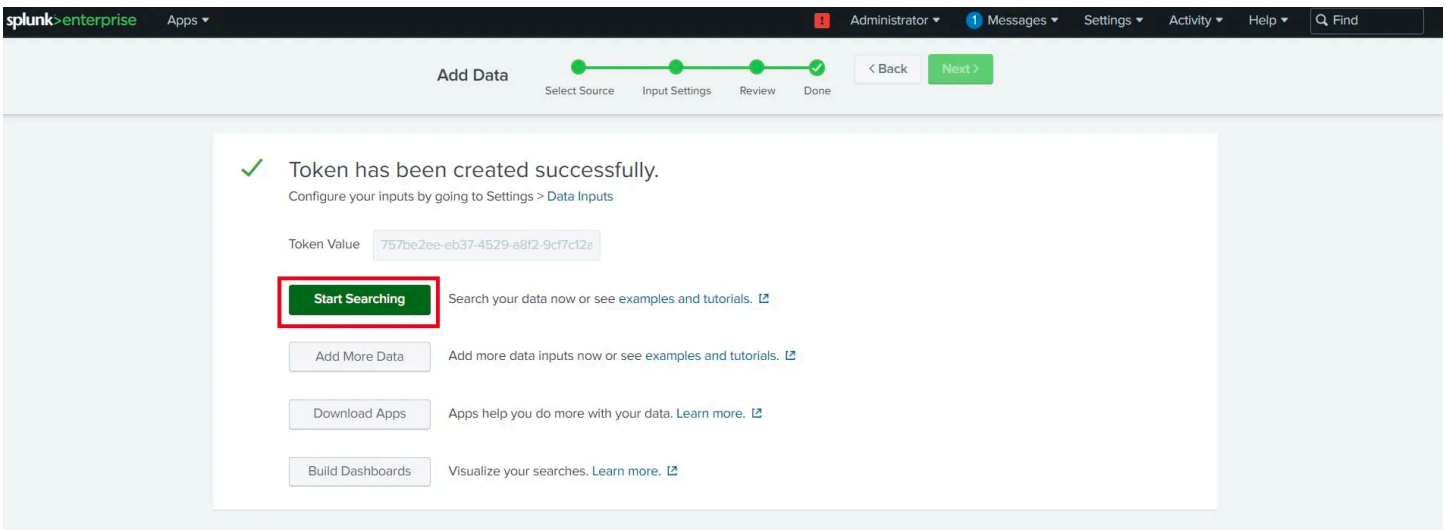
Click Review



Click Submit

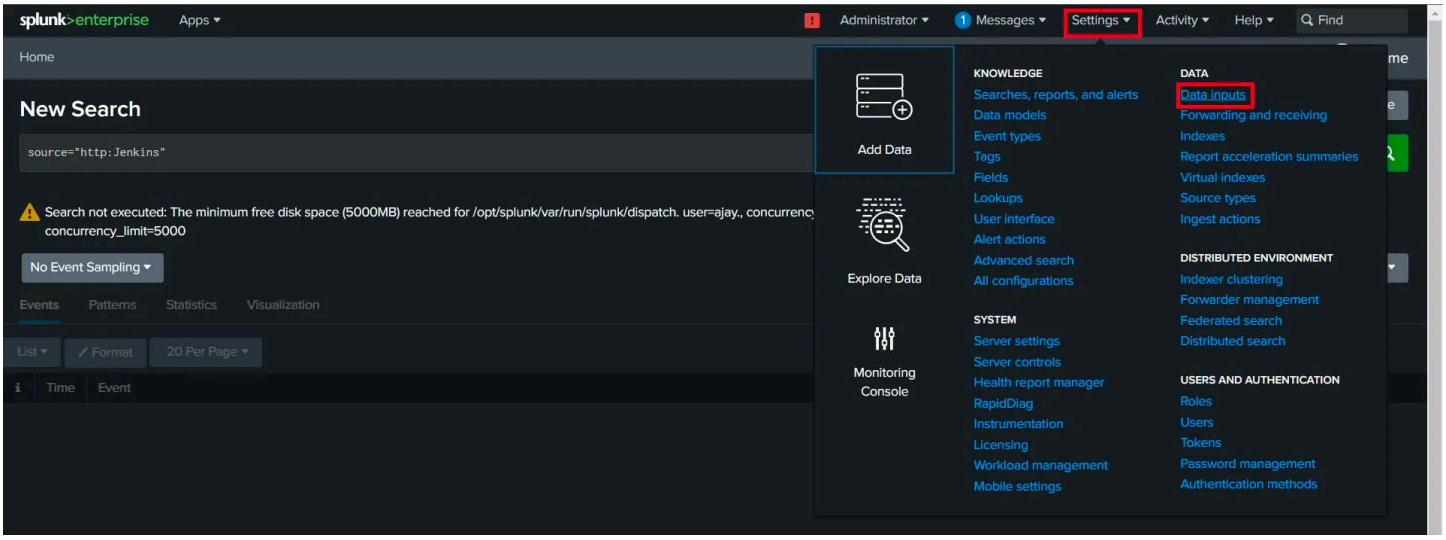


Click Start searchig

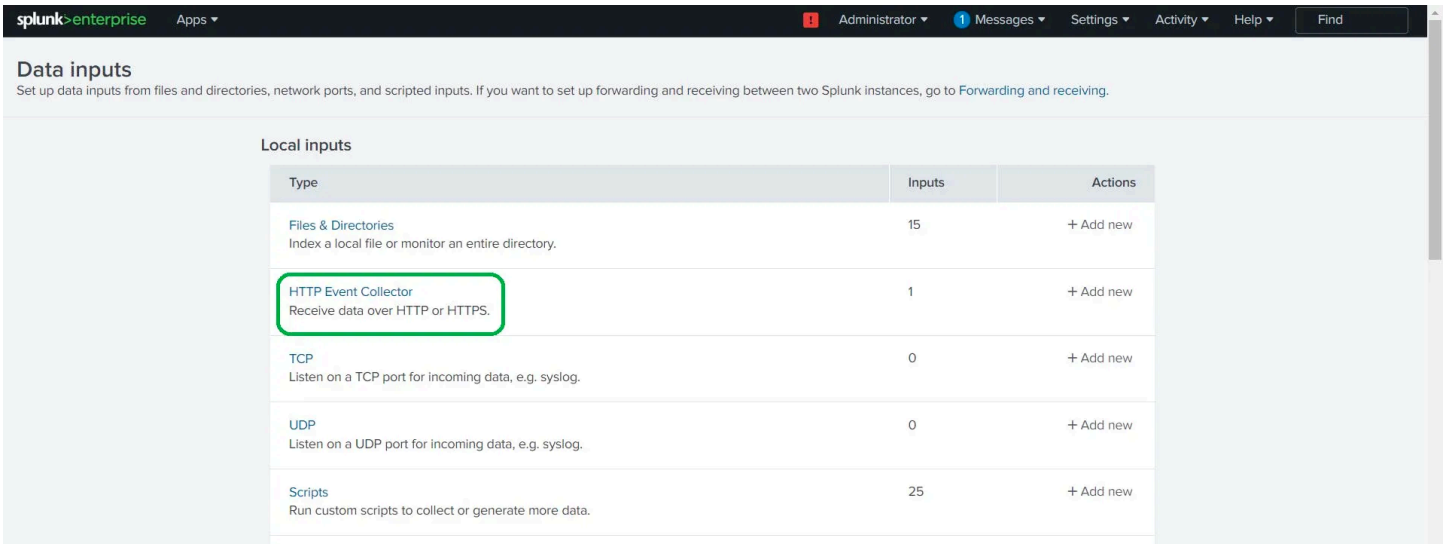


Now let’s copy our token again

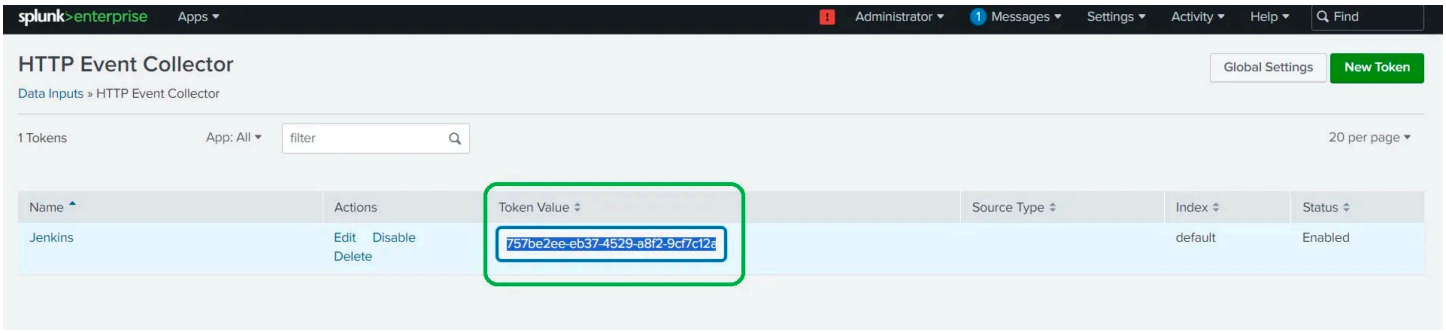
In the Splunk web interface, go to **Settings** > **Data Inputs**.



Click on HTTP event collector



Now copy your token

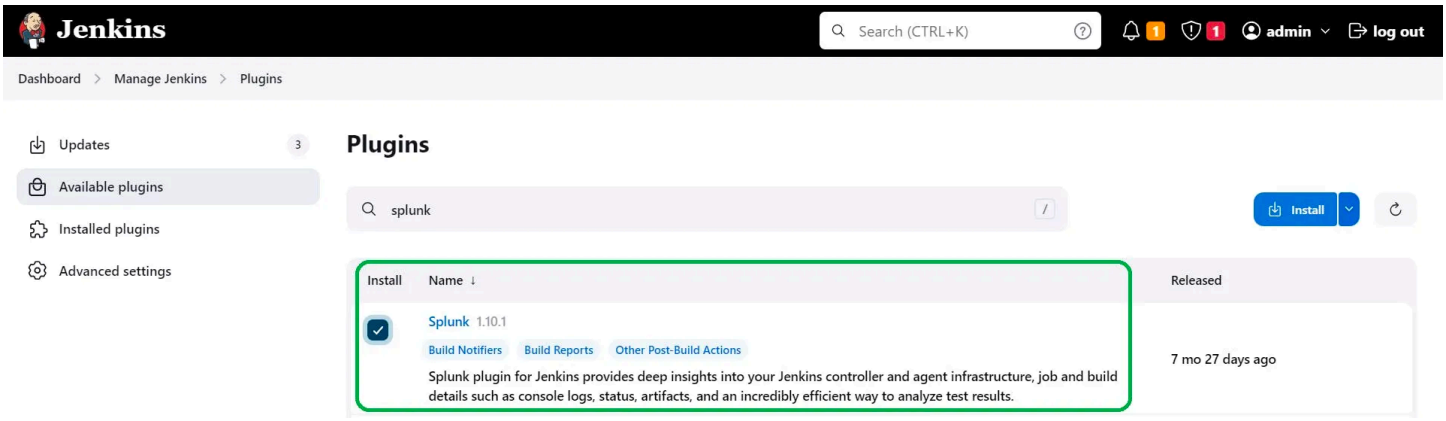


Add Splunk Plugin in Jenkins

Go to Jenkins dashboard

Click on Manage Jenkins → Plugins → Available plugins

Search for Splunk and install it.



Again Click on Manage Jenkins → System

Search for Splunk

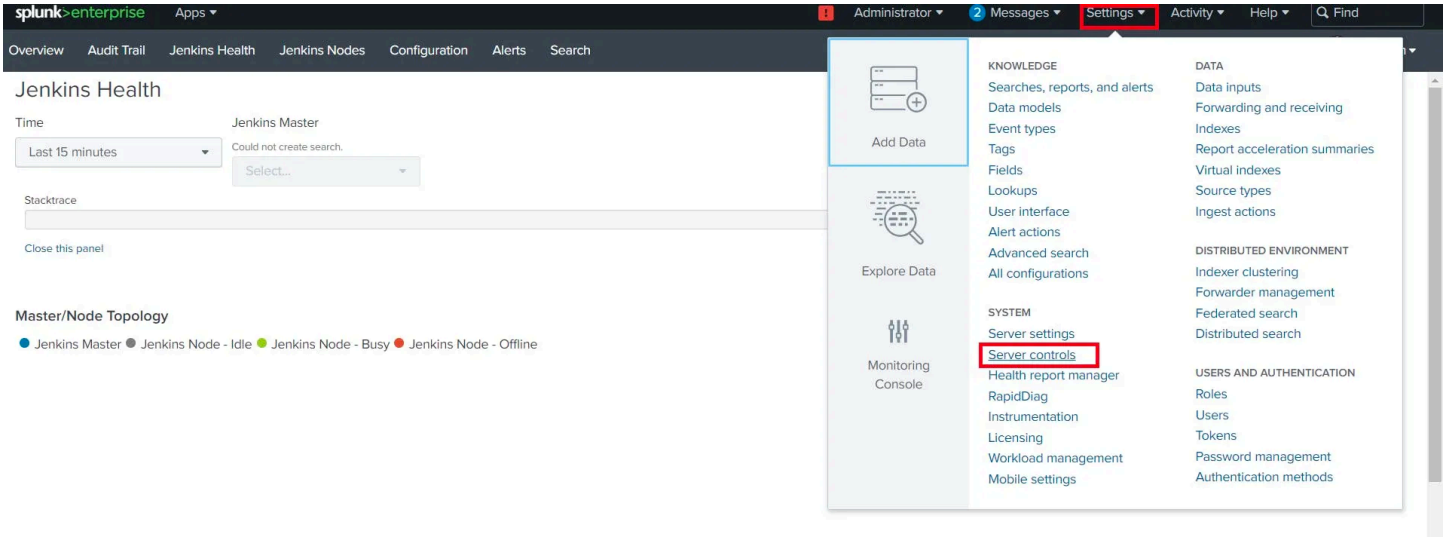
Check enable

HTTP input host as SPLUNK PUBLIC IP

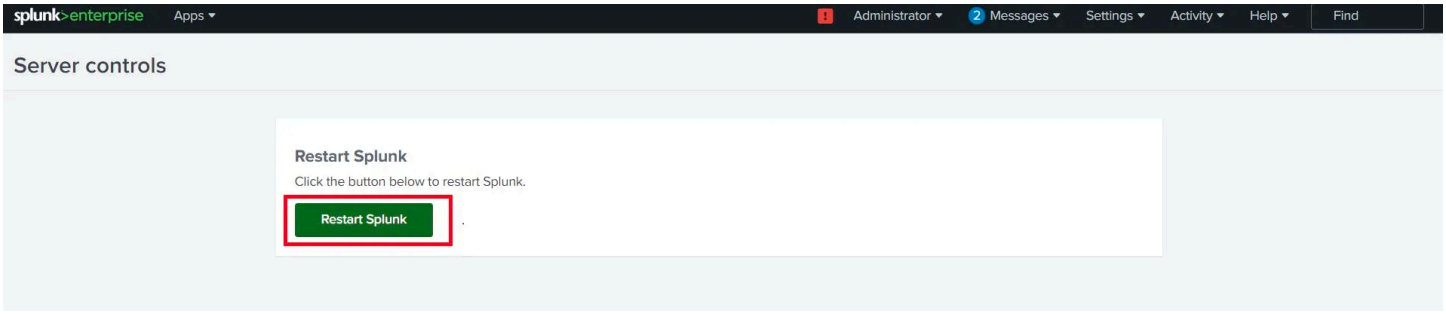
HTTP token that you generated in Splunk

Jenkins ip and apply.

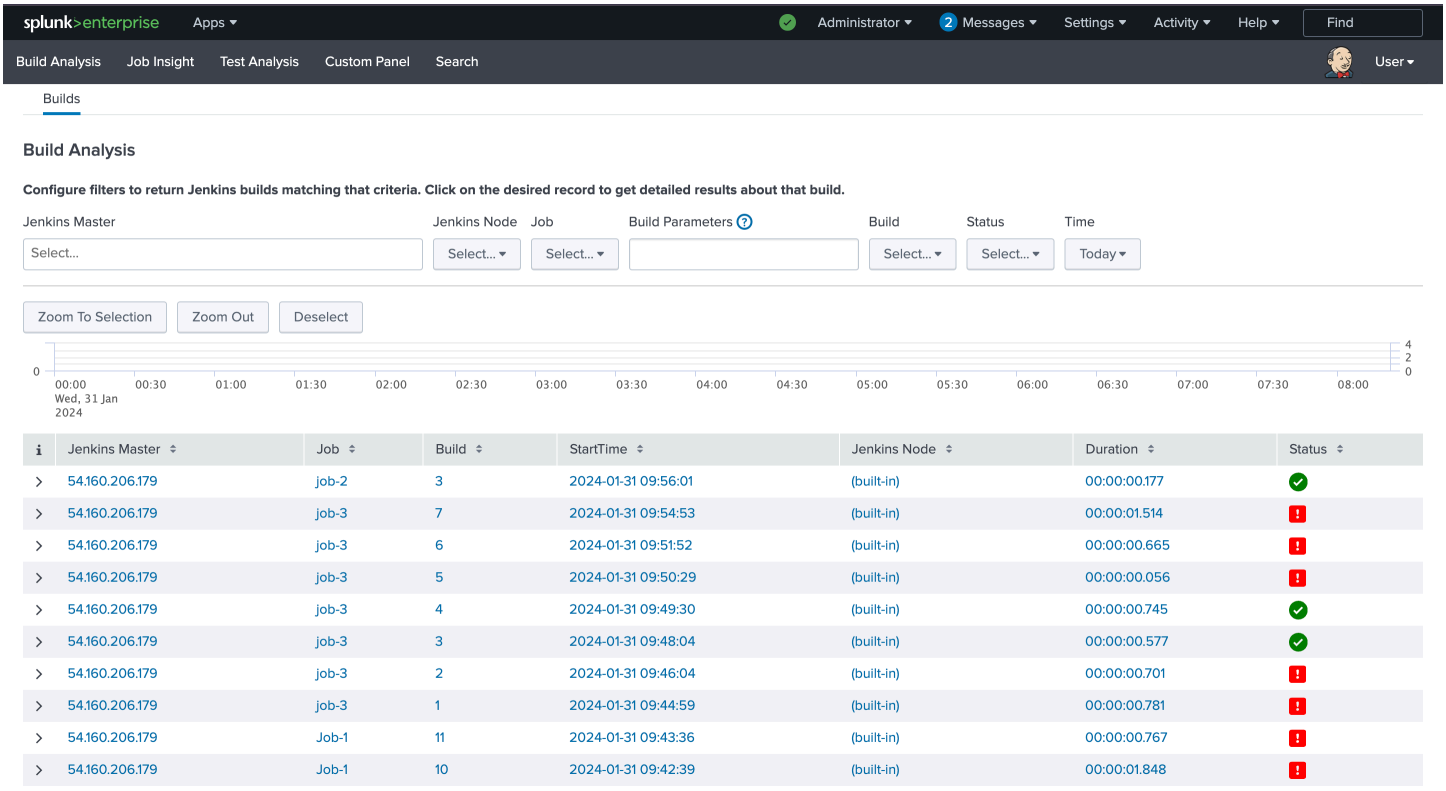
RESTART SPLUNK:



restart and login again



Now go to Jenkins Dashboard and run some sample Jobs. Then data will gets stored on splunk dashboard



Jenkins Master	Job	Build	StartTime	Jenkins Node	Duration	Status
54.160.206.179	job-2	3	2024-01-31 09:56:01	(built-in)	00:00:00.177	✓
54.160.206.179	job-3	7	2024-01-31 09:54:53	(built-in)	00:00:01.514	!
54.160.206.179	job-3	6	2024-01-31 09:51:52	(built-in)	00:00:00.665	!
54.160.206.179	job-3	5	2024-01-31 09:50:29	(built-in)	00:00:00.056	!
54.160.206.179	job-3	4	2024-01-31 09:49:30	(built-in)	00:00:00.745	✓
54.160.206.179	job-3	3	2024-01-31 09:48:04	(built-in)	00:00:00.577	✓
54.160.206.179	job-3	2	2024-01-31 09:46:04	(built-in)	00:00:00.701	!
54.160.206.179	job-3	1	2024-01-31 09:44:59	(built-in)	00:00:00.781	!
54.160.206.179	Job-1	11	2024-01-31 09:43:36	(built-in)	00:00:00.767	!
54.160.206.179	Job-1	10	2024-01-31 09:42:39	(built-in)	00:00:01.848	!

-----*****-----*****-----❤️ HAPPY LEARNING ❤️ -----*****-----*****-----