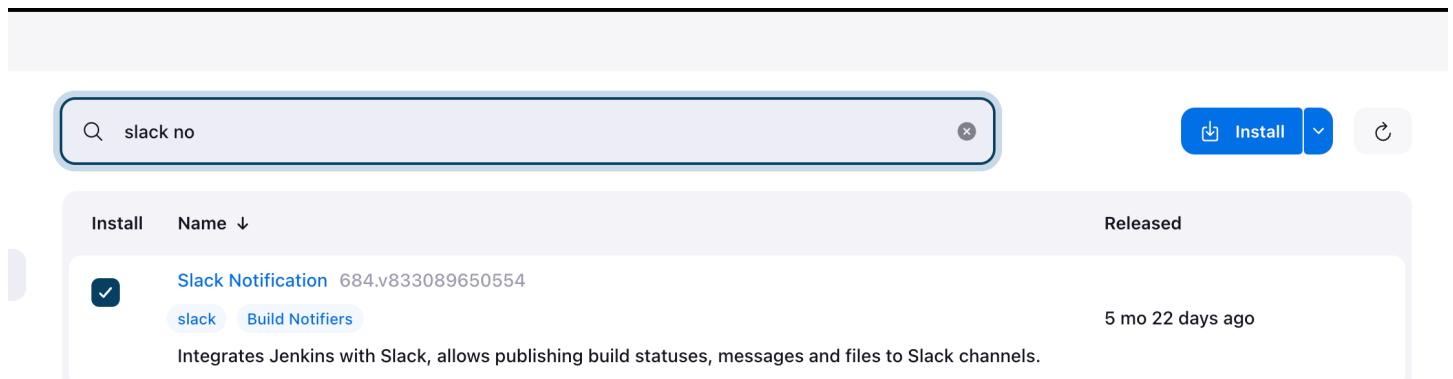


JENKINS INTEGRATION WITH SLACK & SPLUNK

SLACK INTEGRATION:

STEP-1: SETUP JENKINS

STEP-2: INSTALL SLACK NOTIFICATION PLUGIN



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



First of all, enter your email address

We suggest using the email address that you use at work.

Continue

OR

 Continue with Google

 Continue with Apple

Already using Slack?

[Sign in to an existing workspace](#)

click on continue with Google



Confirmed as awsanddevops18@gmail.com Change

Create a new Slack workspace

Slack gives your team a home – a place where they can talk and work together. To create a new workspace, click on the button below.

[Create a workspace](#)



By continuing, you're agreeing to our main services agreement, user terms of service and Slack supplemental Terms. Additional disclosures are available in our privacy policy and cookie policy.

click on create workspace

Step 1 of 4

What's the name of your company or team?

This will be the name of your Slack workspace – choose something that your team will recognise.

DevOps

Next

Enter your team name or company name

Step 2 of 4

What's your name?

Adding your name and profile photo helps your teammates to recognise and connect with you more easily.

MUSTAFA SHAIK

Your profile photo (optional)

Help your teammates to know that they're talking to the right person.



Edit photo

Next

Enter your name

Step 3 of 4

Who else is on the DevOps team?

Add colleagues by email

 Add from Google Contacts

Example ellis@gmail.com, maria@gmail.com

Next

 Copy invitation link

Skip this step

Enter your colleague mail ids for collaboration

Create a channel



Name

deployment-team

65

Channels are where conversations happen around a topic. Use a name that is easy to find and understand.

Invite external people  PRO

Next

Enter any channel name.

The screenshot shows a Slack interface. At the top, there's a search bar with 'Search DevOps' and a help icon. Below the search bar, the channel name '# deployment-team' is displayed with a dropdown arrow. To the right of the channel name are icons for 'M 1', 'Huddle', and 'Canvas'. A link '+ Add a bookmark' is also visible. The main area shows a message from 'MUSTAFA SHAIK' at 14:54, stating 'joined #deployment-team.' followed by 'Hi Team'. Below the messages is a message input field with placeholder text 'Message #deployment-team' and various rich text and media icons.

STEP-4: INTEGRATE THIS SLACK TO JENKINS

INSTALL JENKINS PLUGIN IN SLACK

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

The screenshot shows the Slack web interface. On the left, the sidebar for the 'DevOps' workspace is visible, featuring sections for 'Home', 'More', 'Tools & settings' (which is currently selected), and 'Sign in on mobile'. A context menu is open over the '# deployment-team' channel, listing options like 'Customise workspace', 'Workflow Builder', 'Analytics', 'Edit workspace details', 'Administration', 'Manage members', and 'Manage apps'. The 'Manage apps' option is highlighted with a blue bar. At the bottom of the screen, a message from 'M' says 'Are you sure? Without notifications'.

SEARCH FOR JENKINS

The screenshot shows a search results page with the query 'JENKINS' entered in the search bar. The results are displayed in a card-based format. The first result is 'Jenkins CI' with a Jenkins logo icon. Below it are other results: 'Zenduty' with a person icon, 'marbot' with a blue cat-like icon, and 'BuildPulse' with a blue square icon. At the bottom of the page, there are two dropdown filters labeled '▼' on either side of the word 'Anyone'.

[← Browse apps](#)



Jenkins CI

Description

Permissions

Security & compliance

Jenkins CI is a customisable continuous integration server with over 600 plugins, allowing you to configure it to meet your needs.

This integration will post build notifications to a channel in Slack.

[Add to Slack](#)

[Learn more & Support](#)

[Privacy policy](#)

[Terms](#)

Categories

Developer tools

CLICK ON ADD TO SLACK

[Browse apps](#) > [Jenkins CI](#) > New configuration



Jenkins CI

An open-source continuous integration server.

Jenkins CI is a customisable continuous integration server with over 600 plugins, allowing you to configure it to meet your needs.

This integration will post build notifications to a channel in Slack.

Post to channel

Start by choosing a channel where Jenkins notifications will be posted.

deployment-team

▼

or [create a new channel](#)

[Add Jenkins CI integration](#)

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

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

Slack

Workspace ?

devops-iy03319

Credential ?

slack token

+ Add ▾

Default channel / member id ?

deployment-team

Custom slack app bot user ?

Advanced ▾

Success

Test Connection

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-iy03319`
- Integration token credential ID: Create a secret text credential using `pXY02V1PnyAWwM9yqL9tCVEt` 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

deployment-team ▾

M 1

Huddle

Canvas

+ Add a bookmark

deployment-team

You created this channel today. This is the very beginning of # deployment-team. [Add description](#)

[Add colleagues](#)

Today ▾

M MUSTAFA SHAIK 14:54
joined #deployment-team.

M MUSTAFA SHAIK 14:56
Hi Team

M MUSTAFA SHAIK 15:00
added an integration to this channel: [jenkins](#)

jenkins APP 15:06
Slack/Jenkins plugin: you're all set on <http://54.160.206.179:8080/>

B I S | P | E E | E | </> | ↵

Message #deployment-team

+ Aa ⌂ @ | □ ④ | □

▶ | ↴

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

```
post {  
    always {  
        echo 'Slack Notifications'  
        slackSend (  
            channel: '#channel name', #change your channel name  
            color: COLOR_MAP[currentBuild.currentResult],  
            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 slack.com and CREATE ACCOUNT.

STEP-3: INSTALL SLACK ON OUR SERVER.

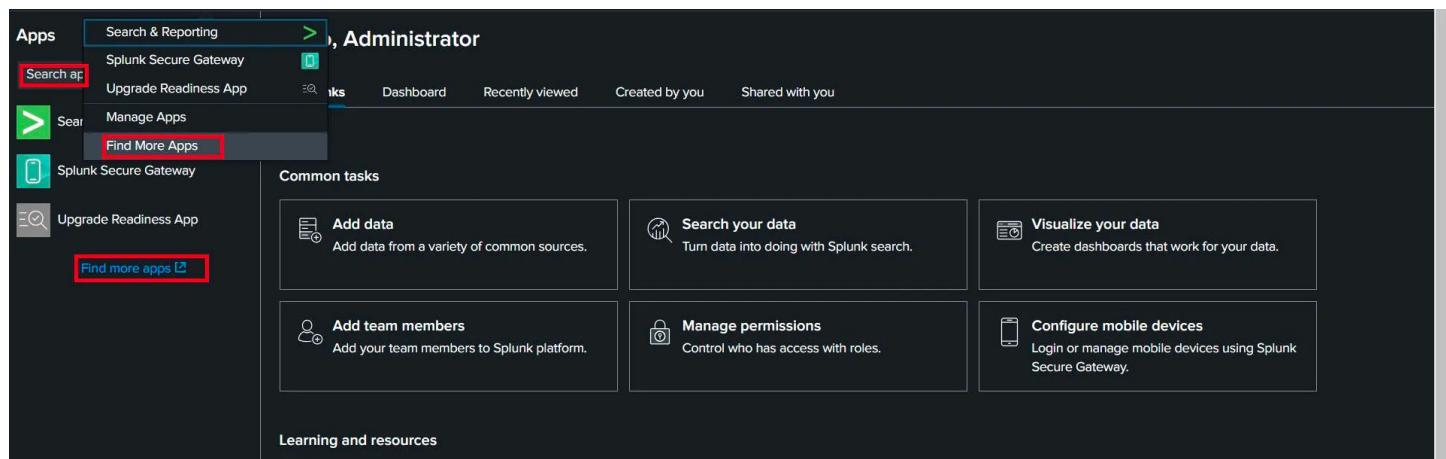
- cd /opt/
- wget -O splunk-9.0.1-82c987350fde-Linux-x86_64.tgz "https://download.splunk.com/products/splunk/releases/9.0.1/linux/splunk-9.0.1-82c987350fde-Linux-x86_64.tgz"
- tar -zxvf splunk-9.0.1-82c987350fde-Linux-x86_64.tgz
- cd splunk/bin/
- sudo ./splunk start --accept-license

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

splunk>enterprise Apps ▾

Administrator ▾ 2 Messages ▾ Settings ▾ Activity ▾ Help ▾ Q Find

Browse More Apps

Jenkins X

Best Match Newest Popular 1 Apps

CATEGORY

- IT Operations
- Security, Fraud & Compliance
- Business Analytics
- Utilities
- IoT & Industrial Data
- DevOps
- Directory Service
- Email
- Endpoint
- Firewall
- Generic
- Identity Management
- Information
- Investigative

 **Splunk App for Jenkins** Install

Splunk App for Jenkins provides deep insights into your Jenkins master and slave infrastructure, job and build details such as console logs, status, artifacts, and an incredibly efficient way to analyze test results. The app provides out-of-the-box dashboards and search capabilities to enable organizations to run a high performing Jenkins cluster a... [More](#)

Category: DevOps | Author: Splunk Works | Downloads: 17164 | Released: 4 years ago | Last Updated: a year ago | View on Splunkbase

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

splunk>enterprise Apps ▾

Administrator ▾ Messages ▾ Settings ▾ Activity ▾ Help ▾ Q Find

Browse More Apps

Jenkins X

Best Match Newest 1 Apps

CATEGORY

- IT Operations
- Security, Fraud & Compliance
- Business Analytics
- Utilities
- IoT & Industrial Data
- DevOps
- Directory Service
- Email
- Endpoint
- Firewall
- Generic
- Identity Management
- Information
- Investigative
- Network Access Control
- Network Device
- Network Security
- Reputation
- Sandbox
- SIEM
- Threat Intel

 **Splunk App for Jenkins**

Enter your Splunk.com username and password to download the app.

.....

[Forgot your password?](#)

Splunk App for Jenkins provides deep insights into your Jenkins master and slave infrastructure, job and build details such as console logs, status, artifacts, and an incredibly efficient way to analyze test results. The app provides out-of-the-box dashboards and search capabilities to enable organizations to run a high performing Jenkins cluster a... [More](#)

Category: DevOps | Author: Splunk Works | Downloads: 17164 | Released: 4 years ago | Last Updated: a year ago | View on Splunkbase

The app, and any related dependency that will be installed, may be provided by Splunk and/or a third party and your right to use these app(s) is in accordance with the applicable license(s) provided by Splunk and/or the third-party licensor. Splunk is not responsible for any third-party app and does not provide any warranty or support. If you have any questions, complaints or claims with respect to an app, please contact the applicable licensor directly whose contact information can be found on the Splunkbase download page.

Splunk App for Jenkins is governed by the following license:

[End User License Agreement for Third-Party Content](#)

I have read the terms and conditions of the license(s) and agree to be bound by them. I also agree to Splunk's [Website Terms of Use](#).

Cancel Agree and Install

Click on Agree and install

Now click on Go home

Complete

X

Splunk App for Jenkins was successfully installed.

[Open the App](#)

[Go Home](#)

[Done](#)

On homepage of Splunk, you will see Jenkins been added

The screenshot shows the Splunk Enterprise homepage. On the left, there's a sidebar with 'Apps' and a search bar. The main area is titled 'Hello, Administrator'. It features a 'Quick links' section with 'Dashboard', 'Recently viewed', 'Created by you', and 'Shared with you'. Below this is a 'Common tasks' section with six items: 'Add data', 'Search your data', 'Visualize your data', 'Add team members', 'Manage permissions', and 'Configure mobile devices'. The 'Splunk App For Jenkins' item is highlighted with a red box and has a 'Pin' button next to it. The entire interface is dark-themed.

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

The screenshot shows the Splunk Enterprise interface. At the top, there's a navigation bar with links for 'Administrator', 'Messages', 'Settings' (which is highlighted with a red box), 'Activity', 'Help', and 'Find'. Below the navigation is a sidebar titled 'Apps' with a search bar and a list of installed apps: 'Search & Reporting', 'Splunk App For Jenkins', 'Splunk Secure Gateway', and 'Upgrade Readiness App'. A link to 'Find more apps' is also present. The main content area is titled 'Hello, Administrator' and contains sections for 'Common tasks' (Add data, Search your data, Add team members, Manage permissions) and 'Learning and resources' (Product tours, Learn more with Splunk Docs, Extend your capabilities, Join the Splunk Community, See how others use Splunk). On the right side, there's a sidebar with categories like 'KNOWLEDGE', 'DATA' (with 'Data inputs' highlighted with a red box), 'DISTRIBUTED ENVIRONMENT', 'SYSTEM', and 'USERS AND AUTHENTICATION'. The URL in the browser is 'http://110.197.211.8000/en-US/manager/launcher/datainputstats'.

Click on HTTP Event Collector.

The screenshot shows the 'Data inputs' page. At the top, there's a navigation bar with links for 'Administrator', 'Messages', 'Settings', 'Activity', 'Help', and 'Find'. The main content area is titled 'Data inputs' and contains a sub-section 'Local inputs'. A table lists input types: 'Files & Directories' (15 inputs), 'HTTP Event Collector' (0 inputs, highlighted with a red box), 'TCP' (0 inputs), 'UDP' (0 inputs), 'Scripts' (25 inputs), and 'Splunk Assist Instance Identifier' (1 input). The URL in the browser is 'http://110.197.211.8000/en-US/manager/launcher/datainputstats'.

Click on Global Settings

The screenshot shows the 'HTTP Event Collector' token management page. At the top, there's a navigation bar with links for 'Administrator', 'Messages', 'Settings', 'Activity', 'Help', and 'Find'. The main content area is titled 'HTTP Event Collector' and shows a table of tokens. The table has columns for 'Name', 'Actions', 'Token Value', 'Source Type', 'Index', and 'Status'. A button labeled 'Global Settings' is highlighted with a red box. The URL in the browser is 'http://110.197.211.8000/en-US/manager/launcher/tokens?app=HTTP%20Event%20Collector'.

Set All tokens to enabled

Uncheck SSL enable

Use 8088 port and click on save

The screenshot shows the 'Edit Global Settings' dialog in Splunk. Key fields highlighted with red boxes are: 'Enabled' (button), 'Enable SSL' (checkbox), and 'HTTP Port Number' (input field containing '8088'). The 'Save' button at the bottom right is also highlighted.

Now click on New token

The screenshot shows the 'HTTP Event Collector' page in Splunk. The 'New Token' button in the top right corner is highlighted with a red box and has a red arrow pointing to it from below.

Provide a Name and click on next

The screenshot shows the 'Add Data' wizard in Splunk. The 'Next >' button is highlighted with a red box. In the configuration panel, the 'Name' input field (containing 'Jenkins') is also highlighted with a red box.

Click Review

The screenshot shows the 'Add Data' process in Splunk. The current step is 'Input Settings'. At the top, there is a progress bar with four steps: 'Select Source' (green), 'Input Settings' (green), 'Review' (white), and 'Done' (white). Below the progress bar, there are sections for 'Source type' and 'Index'. Under 'Source type', it says: 'The source type is one of the default fields that the Splunk platform assigns to all incoming data. It tells the Splunk platform what kind of data you've got, so that the Splunk platform can format the data intelligently during indexing. And it's a way to categorize your data, so that you can search it easily.' There are three buttons: 'Automatic' (selected), 'Select', and 'New'. Under 'Index', it says: 'The Splunk platform stores incoming data as events in the selected index. Consider using a "sandbox" index as a destination if you have problems determining a source type for your data. A sandbox index lets you troubleshoot your configuration without impacting production indexes. You can always change this setting later. Learn More'.

Click Submit

The screenshot shows the 'Add Data' process in Splunk. The current step is 'Review'. At the top, there is a progress bar with four steps: 'Select Source' (green), 'Input Settings' (green), 'Review' (green), and 'Done' (white). Below the progress bar, there is a table of configuration settings:

Input Type	Token
Name	Jenkins
Source name override	N/A
Description	N/A
Enable indexer acknowledgment	No
Output Group	N/A
Allowed indexes	N/A
Default index	default
Source Type	Automatic
App Context	launcher

Click Start searching

The screenshot shows the 'Add Data' process in Splunk. The current step is 'Done'. At the top, there is a progress bar with four steps: 'Select Source' (green), 'Input Settings' (green), 'Review' (green), and 'Done' (green). A green checkmark icon and the text 'Token has been created successfully.' are displayed. Below this, it says 'Configure your inputs by going to Settings > Data Inputs'. A 'Token Value' field contains the value '757be2ee-eb37-4529-a8f2-9cf7c12e'. A large green 'Start Searching' button is highlighted with a red box. Other buttons include 'Add More Data', 'Download Apps', and 'Build Dashboards', each with a corresponding description below it.

Now let's copy our token again

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

The screenshot shows the Splunk web interface. At the top, there is a navigation bar with 'splunk>enterprise' and various dropdown menus like 'Administrator', 'Messages', 'Settings' (which is highlighted with a red box), 'Activity', 'Help', and 'Find'. Below the navigation bar is a search bar with the query 'source="http:Jenkins"'. Underneath the search bar is a message: '⚠ Search not executed: The minimum free disk space (5000MB) reached for /opt/splunk/var/run/splunk/dispatch. user=ajay, concurrency_limit=5000'. There are tabs for 'Events', 'Patterns', 'Statistics', and 'Visualization'. Below these are buttons for 'List', 'Format', and '20 Per Page'. At the bottom, there are three tabs: 'i' (Info), 'Time', and 'Event'. To the right of the search bar is a sidebar with several sections: 'KNOWLEDGE' (Searches, reports, and alerts, Data models, Event types, Tags, Fields, Lookups, User interface, Alert actions, Advanced search, All configurations), 'DATA' (Forwarding and receiving, Indexes, Report acceleration summaries, Virtual indexes, Source types, Ingest actions, Data inputs - which is also highlighted with a red box), 'DISTRIBUTED ENVIRONMENT' (Indexer clustering, Forwarder management, Federated search, Distributed search), and 'USERS AND AUTHENTICATION' (Roles, Users, Tokens, Password management, Authentication methods). The 'Monitoring Console' section is also visible.

Click on HTTP event collector

The screenshot shows the 'Data inputs' page. At the top, there is a header 'Data inputs' and a sub-header 'Set up data inputs from files and directories, network ports, and scripted inputs. If you want to set up forwarding and receiving between two Splunk instances, go to [Forwarding and receiving](#)'. Below this is a table titled 'Local inputs' with the following data:

Type	Inputs	Actions
Files & Directories Index a local file or monitor an entire directory.	15	+ Add new
HTTP Event Collector Receive data over HTTP or HTTPS.	1	+ Add new
TCP Listen on a TCP port for incoming data, e.g. syslog.	0	+ Add new
UDP Listen on a UDP port for incoming data, e.g. syslog.	0	+ Add new
Scripts Run custom scripts to collect or generate more data.	25	+ Add new

Now copy your token

The screenshot shows the Splunk Enterprise interface with the title 'HTTP Event Collector'. In the top right, there are links for 'Administrator', 'Messages', 'Settings', 'Activity', 'Help', and a search bar. Below the title, it says 'Data Inputs » HTTP Event Collector'. On the left, there's a 'Tokens' section with a count of '1 Tokens' and a dropdown 'App: All'. To the right is a table with columns: 'Name', 'Actions', 'Token Value', 'Source Type', 'Index', and 'Status'. A single row is selected for 'Jenkins', showing the token value '757be2ee-eb37-4529-a8f2-9cf7c126' which is highlighted with a green box.

Add Splunk Plugin in Jenkins

Go to Jenkins dashboard

Click on Manage Jenkins → Plugins → Available plugins

Search for Splunk and install it.

The screenshot shows the Jenkins dashboard with the title 'Jenkins'. The top navigation bar includes links for 'Dashboard', 'Manage Jenkins', 'Plugins', 'Log Out', and user information ('admin'). Below the title, there are tabs for 'Updates', 'Available plugins' (which is selected), 'Installed plugins', and 'Advanced settings'. The main area is titled 'Plugins' and features a search bar with the term 'splunk'. A list of available plugins is shown, with the 'Splunk' plugin (version 1.10.1) selected for installation, indicated by a checked checkbox and highlighted with a green box. Other details shown for the Splunk plugin include 'Build Notifiers', 'Build Reports', 'Other Post-Build Actions', and a release date of '7 mo 27 days ago'.

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.

Splunk for Jenkins Configuration

Enable

HTTP Input Host ?
3.110.197.211 **SPLUNK PUBLIC IP**

HTTP Input Port ?
8088

HTTP Input Token ?
757be2ee-eb37-4529-a8f2-9cf7c12a5c18 **SPLUNK TOKEN**

SSL Enabled ?

Send All Pipeline Console Logs ?

Jenkins Master Hostname ?
13.234.48.89 **JENKINS PUBLIC IP**

Testing...

Save **Apply**

RESTART SPLUNK:

The screenshot shows the Splunk Enterprise dashboard. On the left, there's a 'Jenkins Health' panel. On the right, the 'Settings' menu is open, displaying various configuration options like 'Add Data', 'Explore Data', 'Monitoring Console', 'Knowledge', 'Data', etc. The 'Server controls' option under the 'SYSTEM' section is specifically highlighted with a red box.

restart and login again

This screenshot shows the 'Server controls' page within the Splunk interface. It features a prominent green button at the top center labeled 'Restart Splunk', which is also highlighted with a red box.

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

splunk>enterprise Apps ▾

Administrator ▾ 2 Messages ▾ Settings ▾ Activity ▾ Help ▾ Find

Build Analysis Job Insight Test Analysis Custom Panel Search User ▾

Builds

Build Analysis

Configure filters to return Jenkins builds matching that criteria. Click on the desired record to get detailed results about that build.

Jenkins Master	Jenkins Node	Job	Build Parameters <small>?</small>	Build	Status	Time
Select...	Select... ▾	Select... ▾		Select... ▾	Select... ▾	Today ▾

Zoom To Selection Zoom Out Deselect

0 00:00 00:30 01:00 01:30 02:00 02:30 03:00 03:30 04:00 04:30 05:00 05:30 06:00 06:30 07:00 07:30 08:00

Wed, 31 Jan 2024

i	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 ♥ -----*****-----*****-----