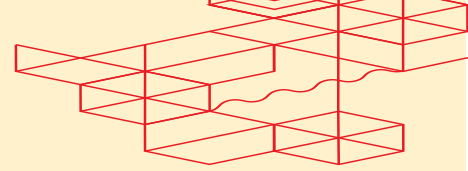
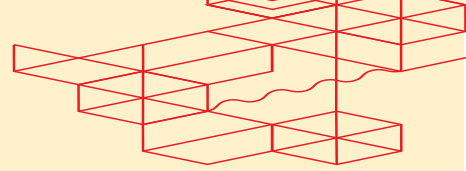


Integrating Splunk as a Data Collector

Version 1.3



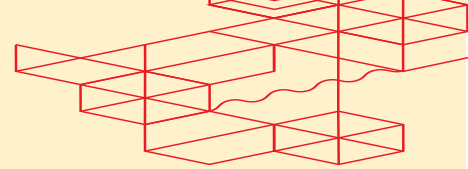
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Overview

This guide will provide step-by-step instructions on how to set up Splunk Indexes and an HTTP Event Collector, enabling you to easily view Fabric Events and Metrics. You will create two Indexes—one for Metrics and one for Events—and configure the settings for data retention and storage. You can use the Index and HTTP Event Collector Token Details in the following POST `/fabric/v4/streamSubscriptions` request.

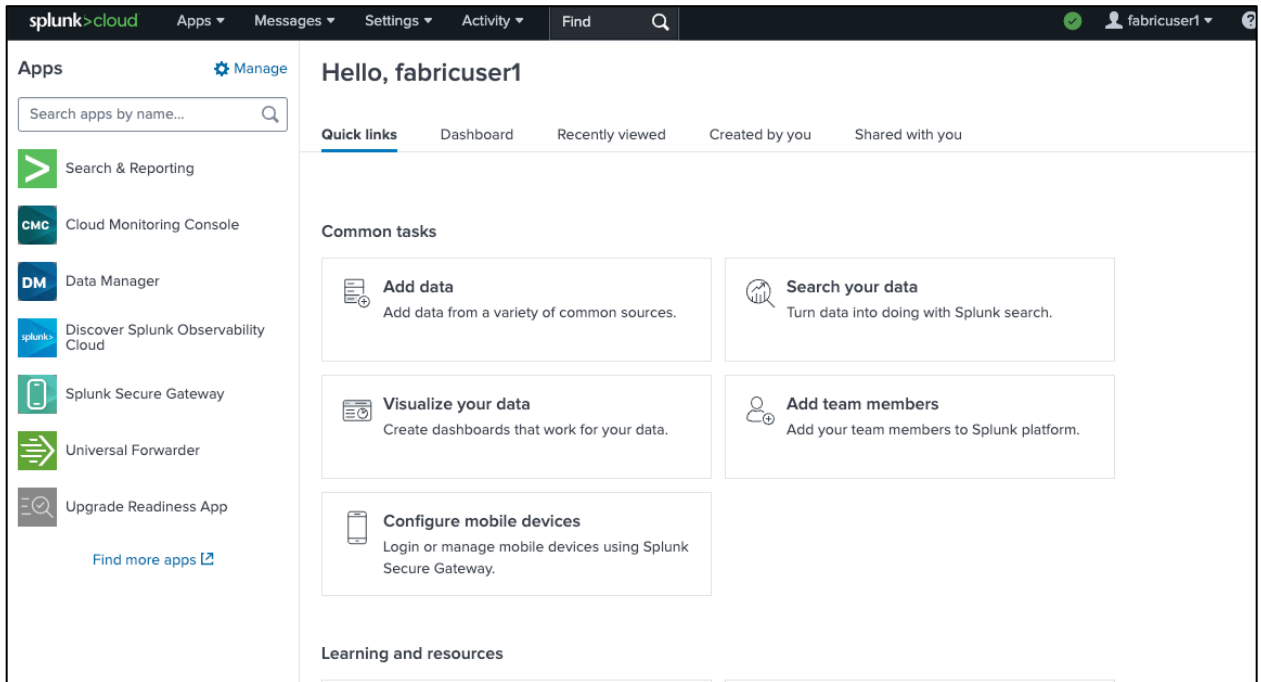
```
curl -X
POST 'https://api.equinix.com/fabric/v4/streamSubscriptions'
-H 'Content-Type: application/json'
-H 'Authorization: Bearer <Bearer Token>'
-d '{
  "type": "STREAM_SUBSCRIPTION",
  "name": "<subscription_name>",
  "description": "subscription_desc",
  "stream": {
    "uuid": "<stream_id>"
  },
  "sink": {
    "uri": "<protocol>://http-inputs-<host>.splunkcloud.com:<port>/<endpoint>",
    "type": "SPLUNK_HEC",
    "settings": {
      "eventIndex": "<name_of_eventIndex>",
      "metricIndex": "<name_of_metricIndex>",
      "source": "<name_of_splunk_hec>"
    },
    "credential": {
      "type": "ACCESS_TOKEN",
      "accessToken": "Splunk <splunk_access_token>"
    }
  }
}'
```

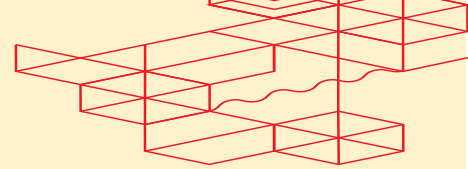


Step-by-Step Instructions

1. Log in and Navigate to the Home Page

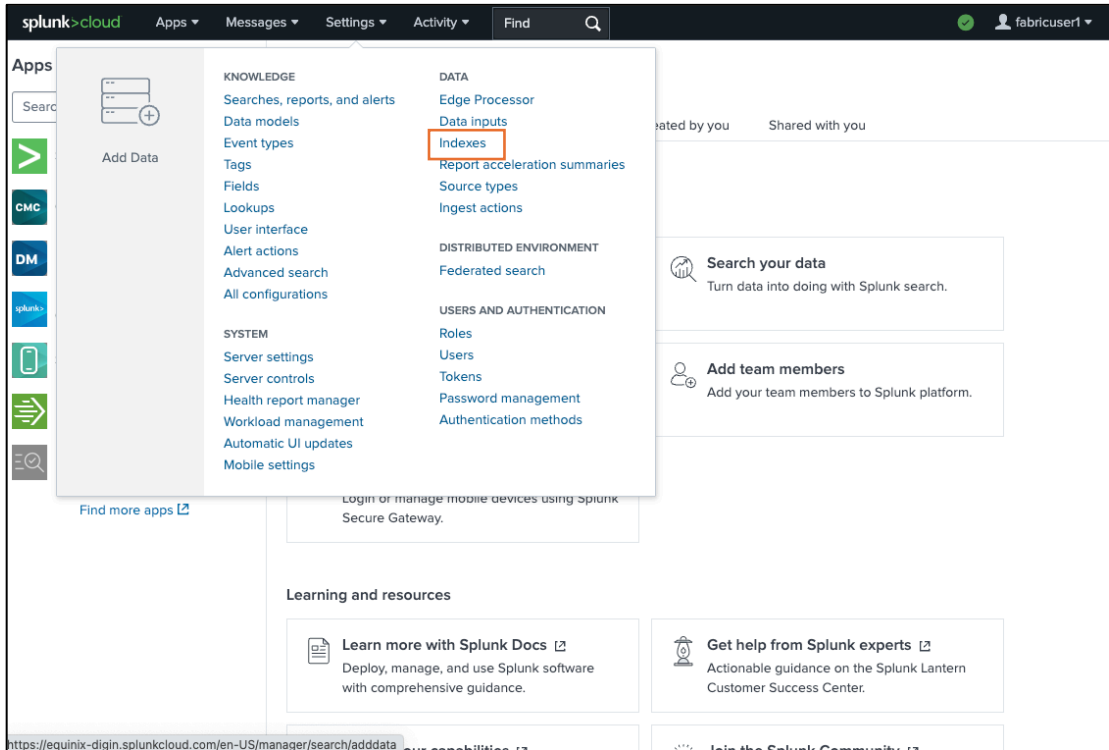
- Start by logging in to your Splunk instance.
- Once logged in, go to the **Home** page.

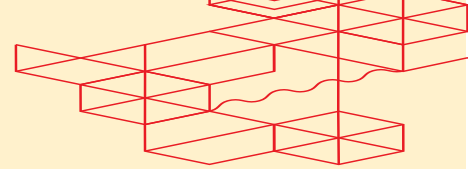




2. Access the Settings

- On the Home page, click on **Settings** in the top menu.
- In the Settings menu, navigate to **Indexes** under the "Data" section.





3. Create an Event Index

- On the Indexes page, click on **New Index** to create a new index.

Name	Actions	Type	App	Current Size	Max Size	Event Count	Earliest Event	Latest Event	Searchable Retention	Archive Retention
history	Edit Delete	Events	system	0 B	unlimited	0			7 days	
lastchanceindex	Edit Delete	Events	100-whisper-indexer	0 B	unlimited	0			2 years 364 days	
main	Edit Delete	Events	100-s2-config	13.77 MB	unlimited	23.2K	2 years ago	8 days ago	2 years 364 days	
nit-aug-2024-testing-metrics-uat1	Edit Delete	Metrics	000-self-service	0 B	100 MB	0			30 days	
nit-aug-2024-testing-uat1	Edit Delete	Events	000-self-service	194.56 KB	100 MB	452	10 days ago	an hour ago	30 days	
prod-hec-event	Edit Delete	Events	000-self-service	0 B	100 MB	0			30 days	
qa3-hec-event	Edit Delete	Events	000-self-service	102.4 KB	100 MB	244	22 days ago	5 hours ago	30 days	
qa3-hec-metric	Edit Delete	Metrics	000-self-service	0 B	100 MB	5	22 days ago	4 hours ago	30 days	
ryan-hec-event	Edit Delete	Events	000-self-service	0 B	100 MB	0			30 days	
ryan-hec-metric	Edit Delete	Metrics	000-self-service	0 B	100 MB	0			30 days	

3.1 Select Event Index Data Type

- Index Data Type: Events Index Data Type** is selected by default.

New Index

Index name:

Index Data Type: Events Metrics

The type of data to store (event-based or metrics).

Max raw data size: MB

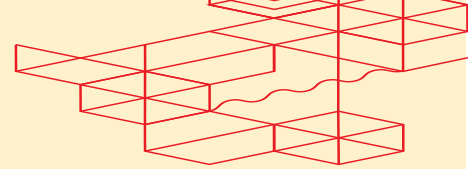
Maximum aggregated size of raw data (uncompressed) contained in index. Set this to 0 for unlimited. Max raw data size values less than 100MB, other than 0, are not allowed.

Searchable retention (days):

Number of days the data is searchable

Dynamic Data Storage: Splunk Archive Self Storage No Additional Storage

[Learn More](#)



3.2 Name the Event Index

- **Name:** Enter a name for your Event Index.

3.3 Set Data Size Limit

- **Data Size:** Set the data size limit for the Index. For example, you can set it to **100 MB**.

3.4 Configure Retention Policy

- **Retention Policy:** Set the retention policy, i.e. **30 days**. This means that data older than 30 days will be automatically deleted from the Index.

3.5 Set Dynamic Data Storage

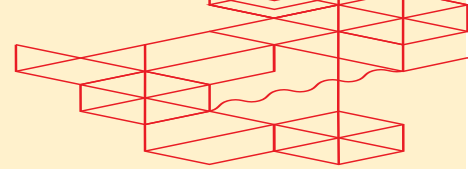
- **Dynamic Data Storage:** Leave the settings as default for dynamic data storage. This ensures that your data is stored efficiently based on Splunk's default storage configuration.
- You will use above Event Index Name later in the POST /fabric/v4/streamSubscriptions request.

4. Create a Metric Index

- On the Indexes page, click on **New Index** to create a new index.

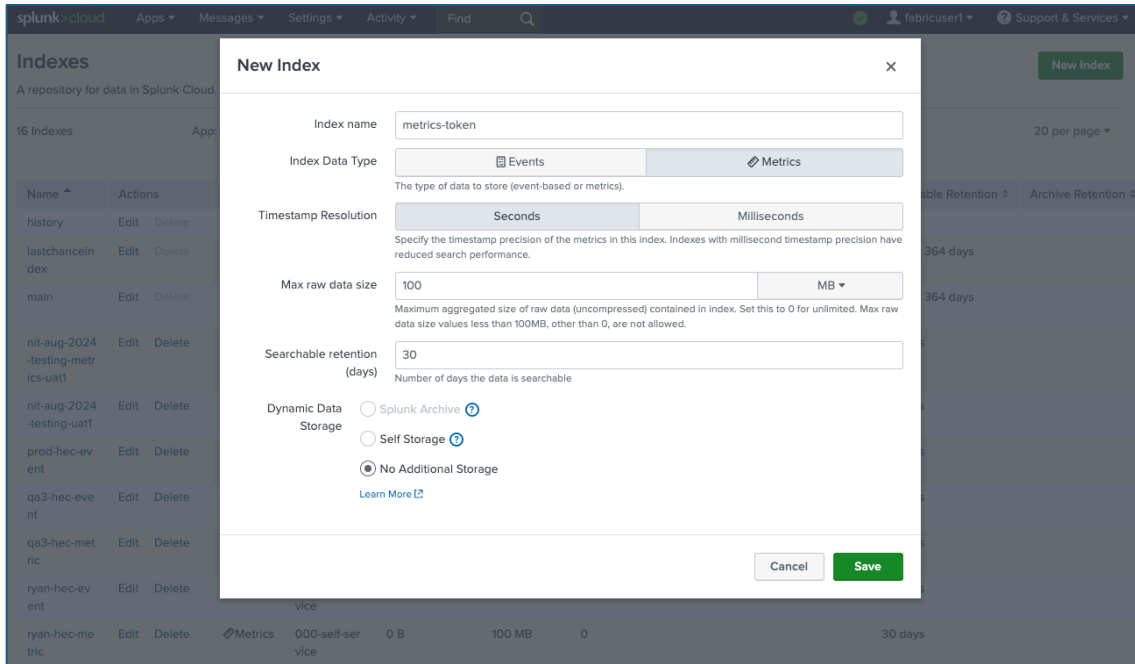
The screenshot shows the Splunk Cloud 'Indexes' page. At the top right, a green 'New Index' button is highlighted with a red rectangular box. Below the header, there is a table listing 16 indexes. The table columns include Name, Actions, Type, App, Current Size, Max Size, Event Count, Earliest Event, Latest Event, Searchable Retention, and Archive Retention.

Name	Actions	Type	App	Current Size	Max Size	Event Count	Earliest Event	Latest Event	Searchable Retention	Archive Retention
history	Edit Delete	Events	system	0 B	unlimited	0			7 days	
lastchanceindex	Edit Delete	Events	100-whisper-indexer	0 B	unlimited	0			2 years 364 days	
main	Edit Delete	Events	100-s2-config	13.77 MB	unlimited	23.2K	2 years ago	8 days ago	2 years 364 days	
nit-aug-2024-testing-metric-uatl	Edit Delete	Metrics	000-self-service	0 B	100 MB	0			30 days	
nit-aug-2024-testing-uatl	Edit Delete	Events	000-self-service	194.56 KB	100 MB	452	10 days ago	an hour ago	30 days	
prod-hec-event	Edit Delete	Events	000-self-service	0 B	100 MB	0			30 days	
qa3-hec-event	Edit Delete	Events	000-self-service	102.4 KB	100 MB	244	22 days ago	5 hours ago	30 days	
qa3-hec-metric	Edit Delete	Metrics	000-self-service	0 B	100 MB	5	22 days ago	4 hours ago	30 days	
ryan-hec-event	Edit Delete	Events	000-self-service	0 B	100 MB	0			30 days	
ryan-hec-metric	Edit Delete	Metrics	000-self-service	0 B	100 MB	0			30 days	



4.1 Select Metrics Index Data Type

- **Index Data Type:** Select **Metrics Index Data Type**.



4.2 Name the Metric Index

- **Name:** Enter a name for your Metric Index.

4.3 Set Data Size Limit

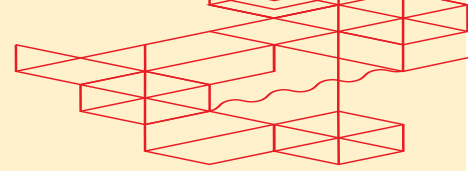
- **Data Size:** Set the data size limit for the Index. For example, you can set it to **100 MB**.

4.4 Configure Retention Policy

- **Retention Policy:** Set the retention policy, i.e. **30 days**. This means that data older than 30 days will be automatically deleted from the Index.

4.5 Set Dynamic Data Storage

- **Dynamic Data Storage:** Leave the settings as default for dynamic data storage. This ensures that your data is stored efficiently based on Splunk's default storage configuration.
- You will use above Metric Index Name later in the POST `/fabric/v4/streamSubscriptions` request.

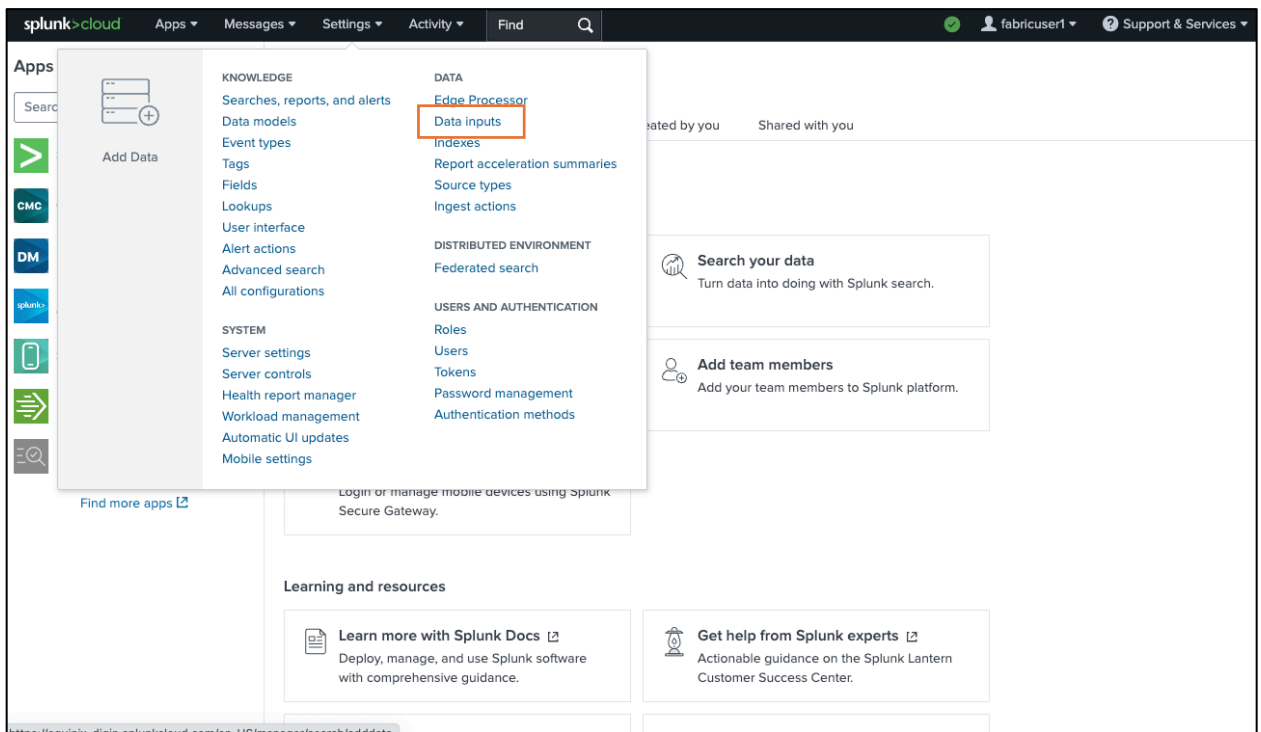


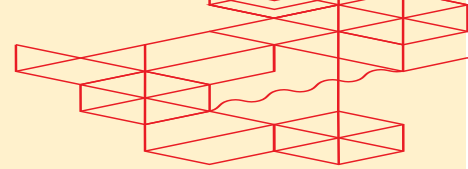
5. Generate an HTTP Event Collector Token Value

- Ensure that the token values generated during this process are saved securely. These tokens may be required for further integration or for data ingestion processes.

5.1. Navigate to the Splunk Home Page

- On the Home page, go to **Settings** in the top menu.
- Under the "Data" section, click on **Data inputs**.



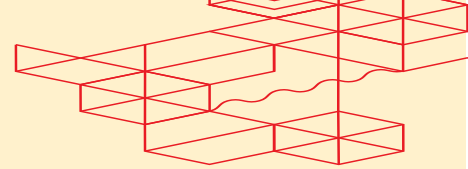


5.2. Select HTTP Event Collector

- In the Data Inputs section, select **HTTP Event Collector**.

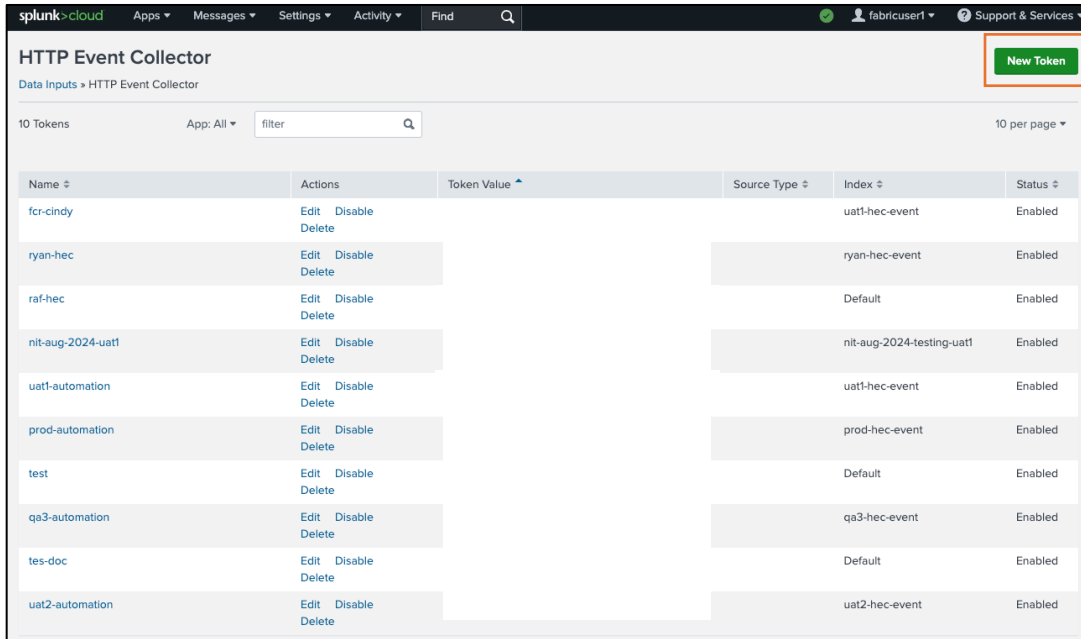
The screenshot shows the Splunk Cloud interface for 'Data inputs'. The page title is 'Data inputs' with a subtitle 'Set up data inputs from files and directories, network ports, and scripted inputs.' Below this is a section for 'Local inputs' containing a table with the following data:

Type	Inputs	Actions
HTTP Event Collector Receive data over HTTP or HTTPS.	10	+ Add new
Logd Input for the Splunk platform This input collects data from logd on macOS and sends it to the Splunk platform.	0	+ Add new
Splunk Secure Gateway Initializes the Splunk Secure Gateway application to talk to mobile clients over websockets	1	+ Add new
Splunk Secure Gateway Mobile Alerts TTL Cleans up storage of old mobile alerts	1	+ Add new
Config Modular Input Migrates configuration from conf file to KV store	1	+ Add new
Deep Link Dashboard Modular Input Initializes the Deep Link Dashboard Modular Input to complete registrations	1	+ Add new
Splunk Secure Gateway Deleting Expired Tokens Delete expired or invalid tokens created by Secure Gateway from Splunk	1	+ Add new
Splunk Secure Gateway Role Based Notification Manager	1	+ Add new



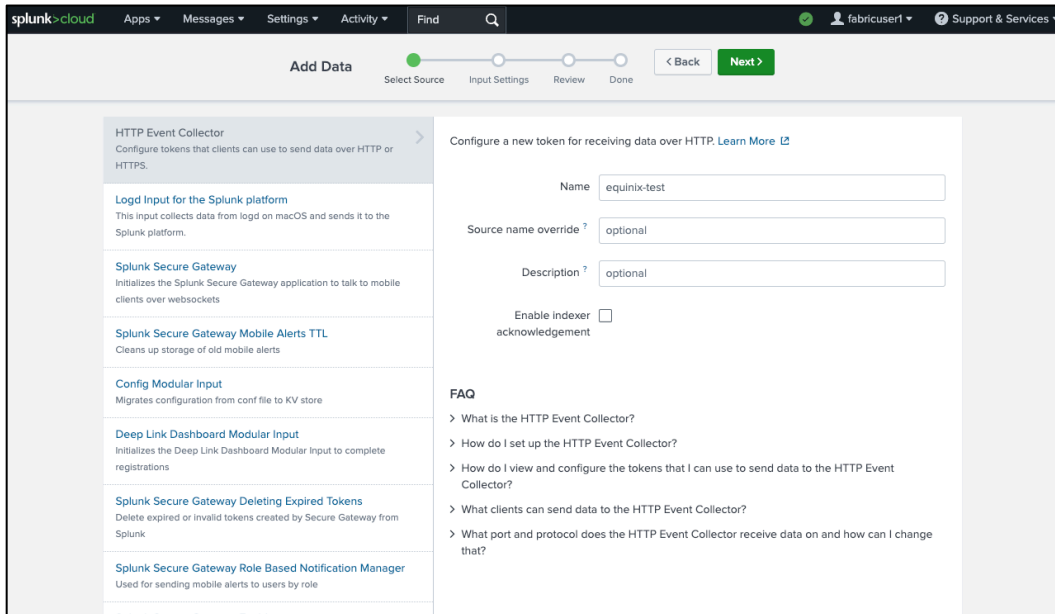
5.3 Create an HTTP Event Collector Token

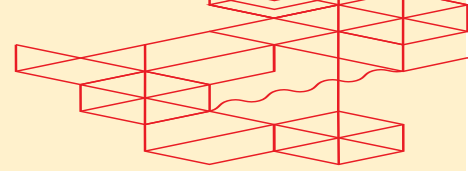
- Click the **New Token** button to start the setup process for the HTTP Event Collector.



5.4. Name the HTTP Event Collector

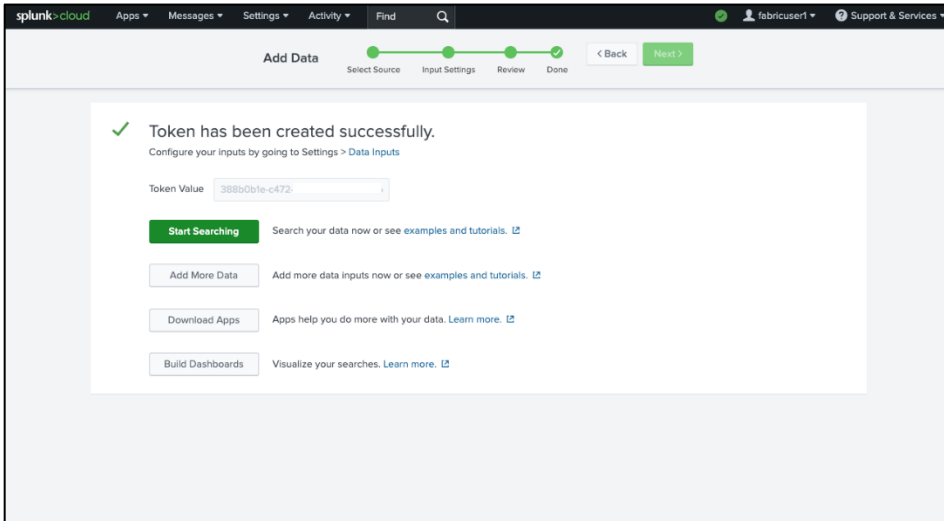
- On the **Add Data** page, the only required input is the name.
- Name:** Enter a name for your HTTP Event Collector.





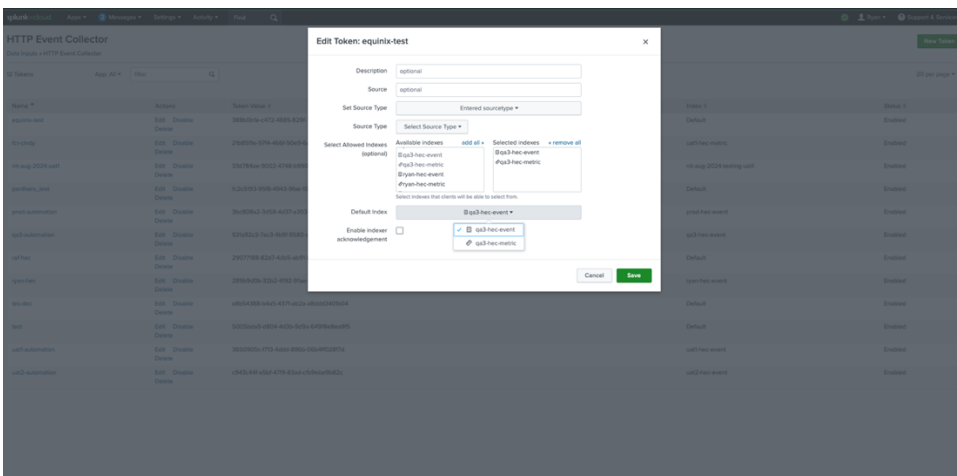
5.5. Complete the Setup

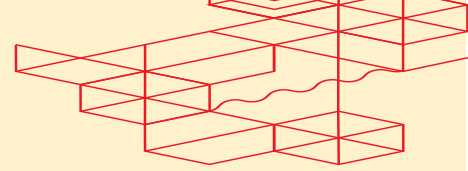
- After naming your HTTP Event Collector, click **Next** on the **Select Source** Step.
- Click **Next** on the **Input Settings** Step to review your configurations.
- Finally, click **Submit** on the **Review** Step to complete the setup.



5.6. Add the Event and Metric Indexes to the HTTP Event Collector

- In HTTP Event Collector, click “Edit” on your HTTP Event Collector.
- Select your event and metric indexes that you have created.
- Set the event index as your Default Index.





5.7. Copy the Token Value

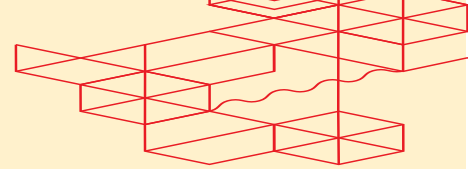
- Once the setup is complete, a Token value will be generated.
- **Copy this Token value** to your clipboard, as it will be needed later for the POST streamSubscription API.

6. Create a Splunk Subscription

- Now that the Indexes and HTTP Event Collector are set up, call the POST fabric/v4/streamSubscriptions request.

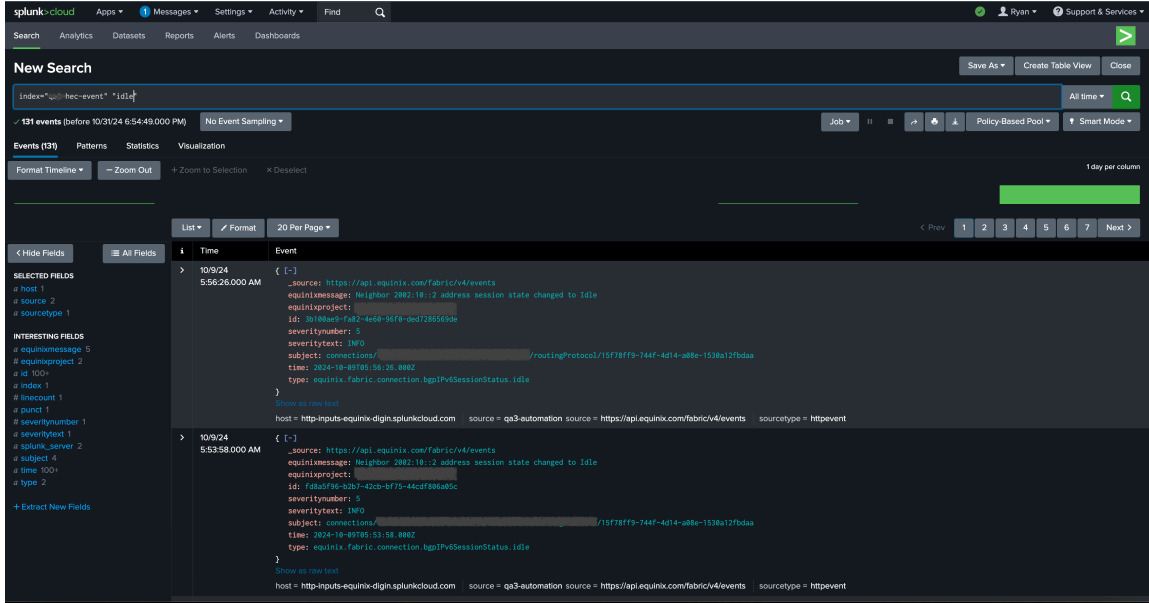
Example:

```
curl -X
POST 'https://api.equinix.com/fabric/v4/streamSubscriptions'
-H 'Content-Type: application/json'
-H ' Authorization: Bearer <Bearer Token>'
-d '{
  "type": "STREAM_SUBSCRIPTION",
  "name": "<subscription_name>",
  "description": "subscription_desc",
  "stream": {
    "uuid": "<stream_id>"
  },
  "sink": {
    "uri": "<protocol>://http-inputs-<host>.splunkcloud.com:<port>/<endpoint>",
    "type": "SPLUNK_HEC",
    "settings": {
      "eventIndex": "<name_of_eventIndex>",
      "metricIndex": "<name_of_metricIndex>",
      "source": "<name_of_splunk_hec>"
    },
    "credential": {
      "type": "ACCESS_TOKEN",
      "accessToken": "Splunk <splunk_access_token>"
    }
  }
}
```



7. Search Events and Metrics

- Go to Home Page. Click on **Search & Reporting**. This will take you to a Splunk search page and search with your Event Index. E.g. `index="<name_of_event_index>"`.
- Refer to the “Fabric Observability with Client Sink Integration” document for detailed instructions on how to receive Events using a specific Sink Type.



- Additionally, refer to [Splunk Documentation to Search and Query for Metrics](#).

Example:

```
| mstats avg(_value) prestats=t WHERE index="<name_of_metric_index>" AND metric_name="equinix.fabric.[port | connection | metro].*" span=1m by metric_name | timechart avg(_value) as "Avg" span=1m by metric_name
```

