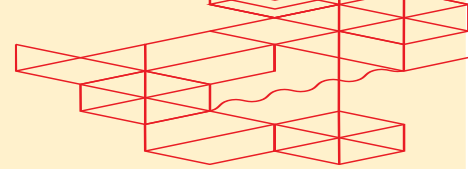
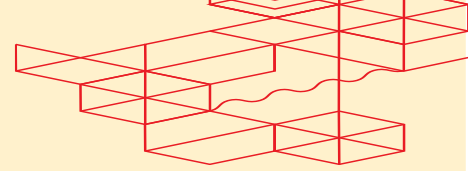


Integrating Splunk as a Data Collector

Version 1.2



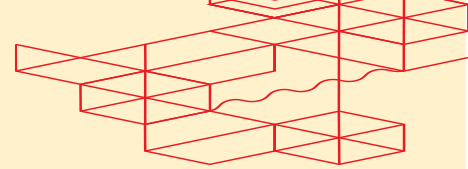
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Overview

This guide will help you setup Indexes in Splunk to manage Metrics and Events. You will create two Indexes—one for Metrics and one for Events—and configure the settings for data retention and storage. You can use these Index details in the following POST `fabric/v4/streamSubscriptions` request

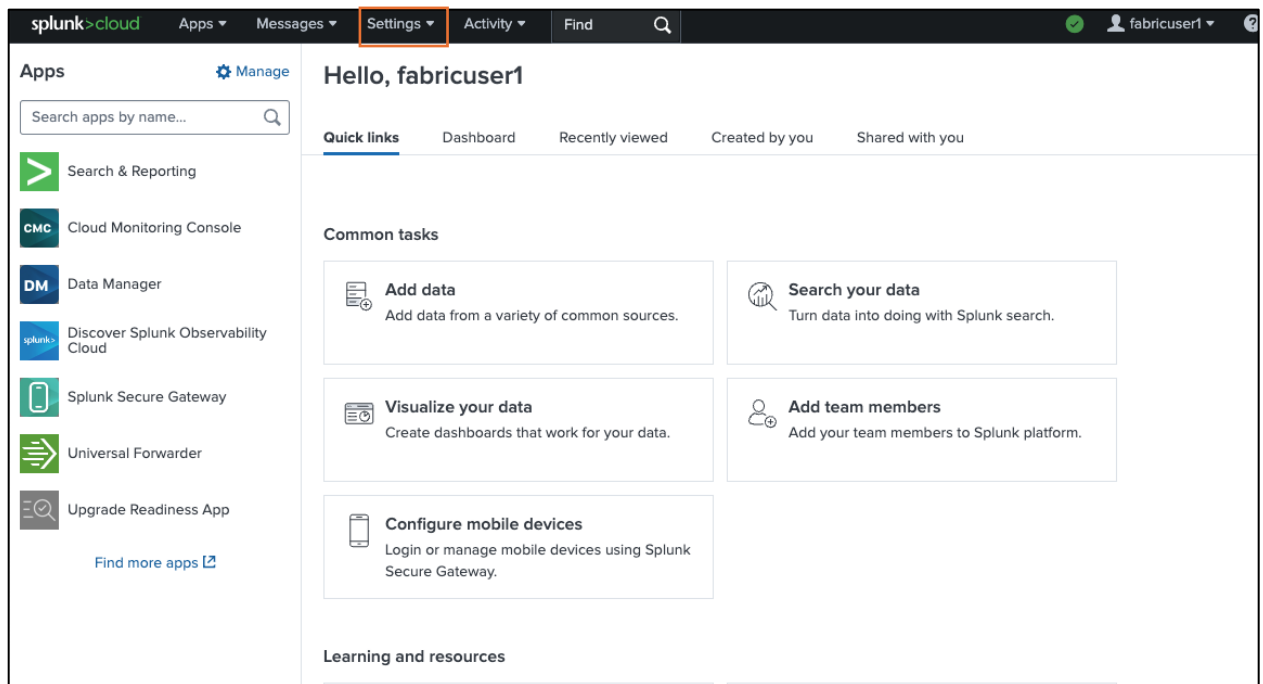
```
curl -X
POST 'https://api.equinix.com/fabric/v4/streamSubscriptions'
-H 'Content-Type: application/json'
-H 'Authorization: Bearer <Bearer Token>'
-d '{
  "type": "STREAM_SUBSCRIPTION",
  "name": "jw-splunk-sub-0731",
  "description": "subscription 1",
  "stream": {
    "uuid": "241372e9-79c9-4ef8-b77a-8b8176c2098b4"
  },
  "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>"
    }
  }
}'
```

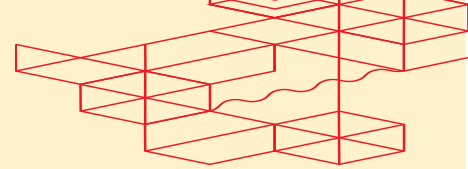


Step-by-Step Instructions

1. Log in and Navigate to the Home Page

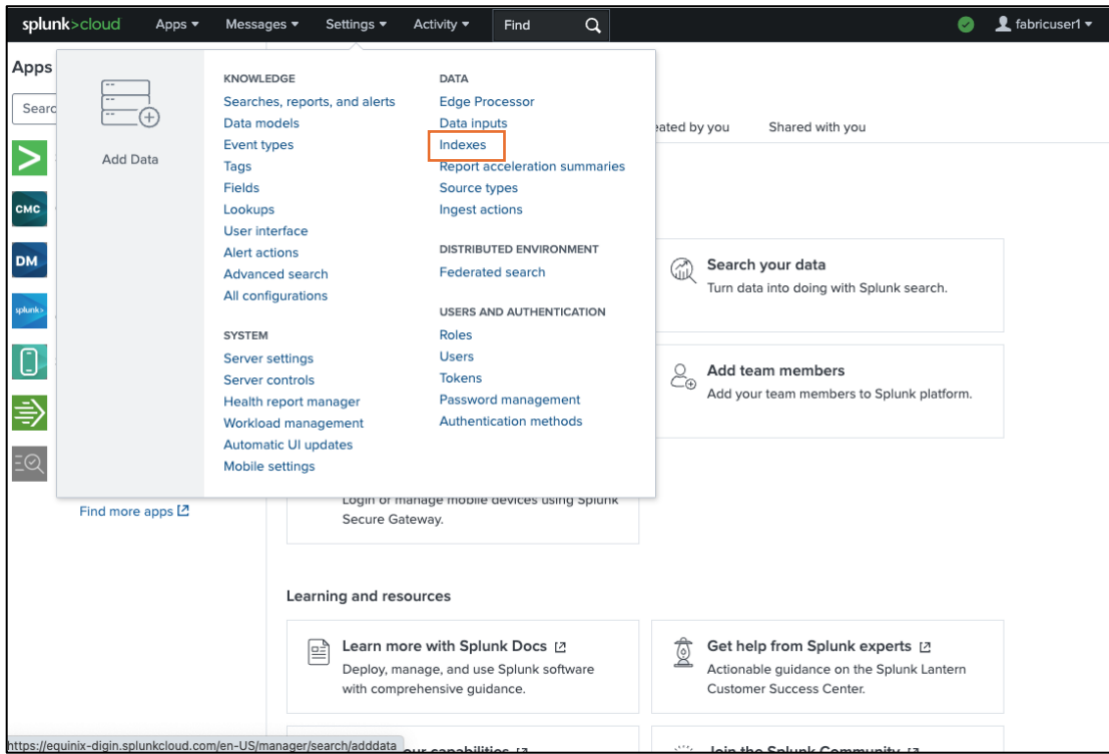
- Start by logging into your Splunk instance.
- Once logged in, go to the **Home** page.

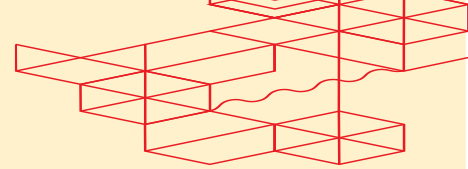




2. Access the Settings

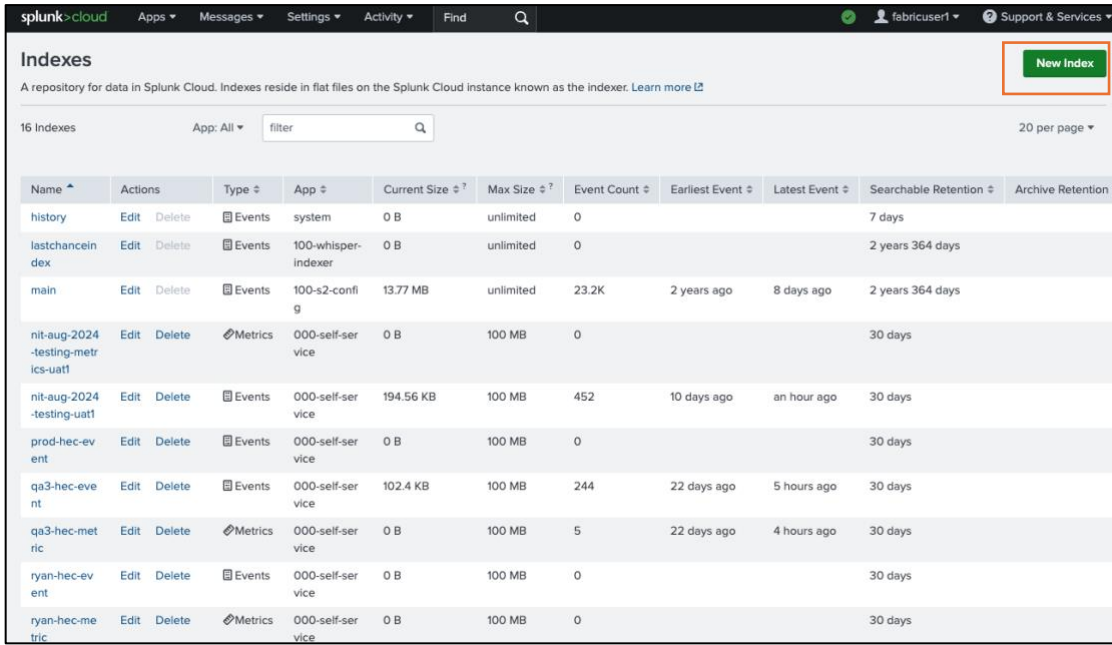
- On the Home page, click on **Settings** in the top menu.
- In the Settings menu, navigate to **Indexes** under the "Data" section.





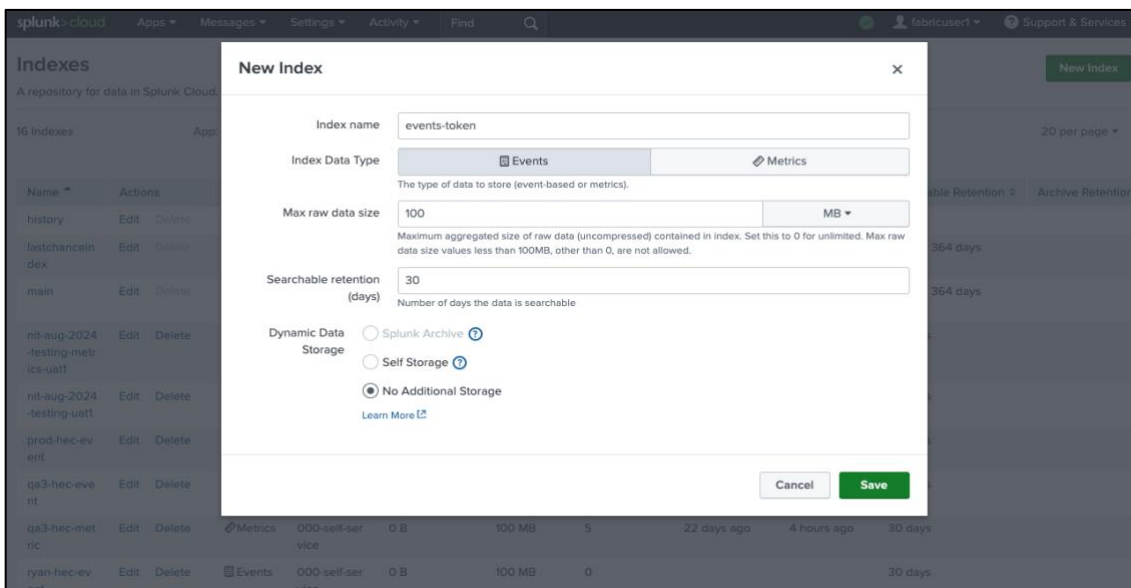
3. Create a New Index

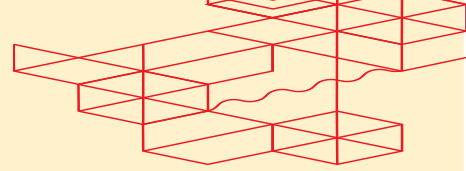
- On the Indexes page, click on **New Index** to create a new index.



3.1 Name the Index

- Name:** Enter a name for your Index. For example, you may name one Index "metrics" and the other "events."





3.2 Select Index Data Type

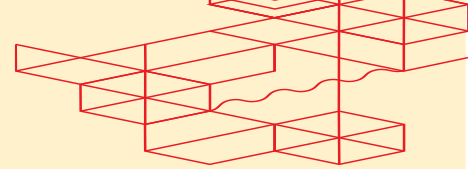
- **Index Data Type:** If naming the index is for events or metrics, select the respective Index Data Type.

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 to **30 days**. This means that data older than 30 days will be automatically deleted from the Index.

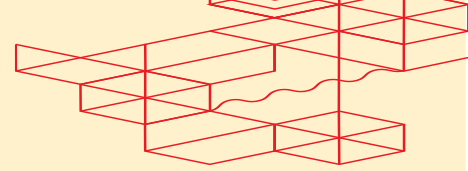


3.5 Set Dynamic Data Storage

- **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
- Use above Index details in POST/fabric/v4/ fabric/v4/streamSubscriptions request

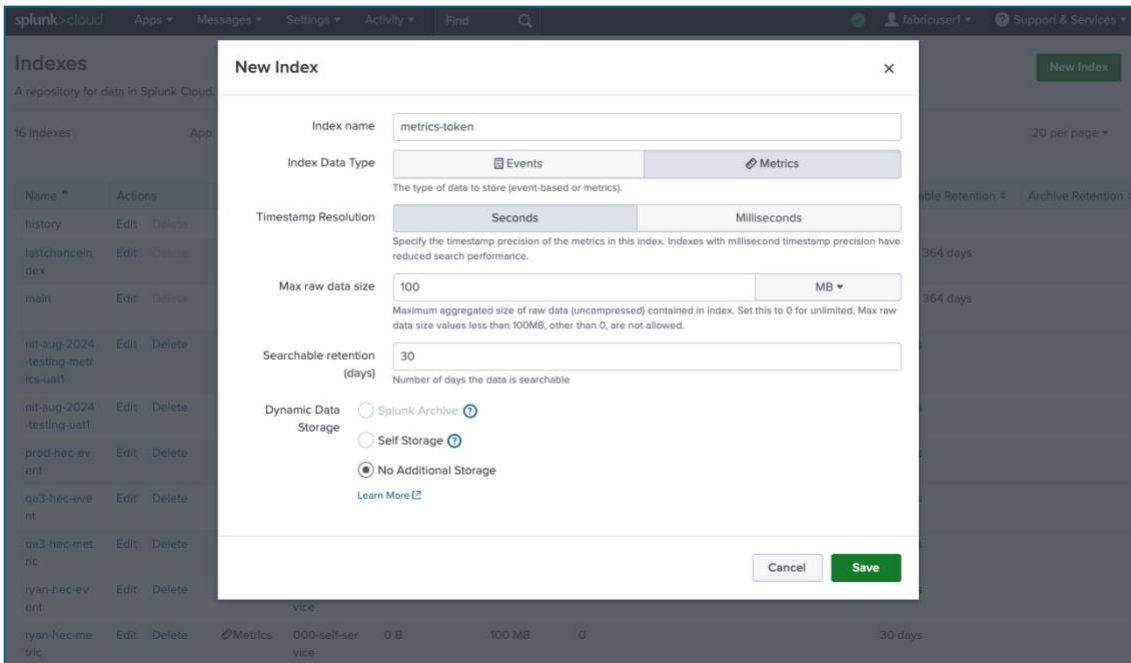
Example:

```
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": "jw-splunk-sub-0731",
  "description": "subscription 1",
  "stream": {
    "uuid": "241372e9-79c9-4ef8-b77a-8b8176c2098b4"
  },
  "sink": {
    "uri": "<protocol>://http-inputs-<host>.splunkcloud.com:<port>/<endpoint>",
    "type": "SPLUNK_HEC",
    "settings": {
      "eventIndex": "events-token",
      "source": "<name_of_splunk_hec>"
    },
    "credential": {
      "type": "ACCESS_TOKEN",
      "accessToken": "Splunk <Splunk Access Token>"
    }
  }
}
```

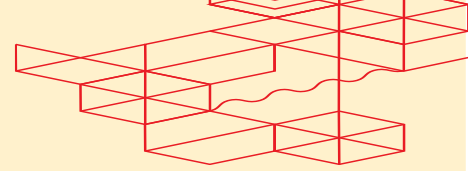



4. Repeat for the Second Index

- Follow the same steps to create a second Index. Make sure to give this Index a different name, such as "metrics" for Metrics data and "events" for Events data.
- After creating both Indexes, review your settings to ensure everything is correct.
- Click **Save** to finalize your Index configuration.

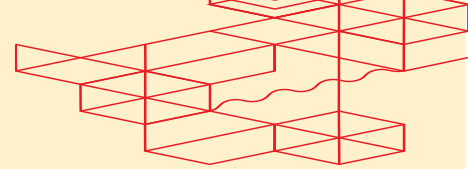


The screenshot shows the 'New Index' configuration window in Splunk Cloud. The index name is 'metrics-token'. The Index Data Type is set to 'Metrics'. The Timestamp Resolution is 'Seconds'. The Max raw data size is '100 MB'. The Searchable retention is '30 days'. The Dynamic Data Storage is set to 'No Additional Storage'. The 'Save' button is highlighted in green.



- Use the above Index details in POST/fabric/v4/ 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": "jw-splunk-sub-0731",
  "description": "subscription 1",
  "stream": {
    "uuid": "241372e9-79c9-4ef8-b77a-8b8176c2098b4"
  },
  "sink": {
    "uri": "<protocol>://http-inputs-<host>.splunkcloud.com:<port>/<endpoint>",
    "type": "SPLUNK_HEC",
    "settings": {
      "metricIndex": "metrics-token",
      "source": "<name_of_splunk_hec>"
    },
    "credential": {
      "type": "ACCESS_TOKEN",
      "accessToken": "Splunk <Splunk Access Token>"
    }
  }
}
```

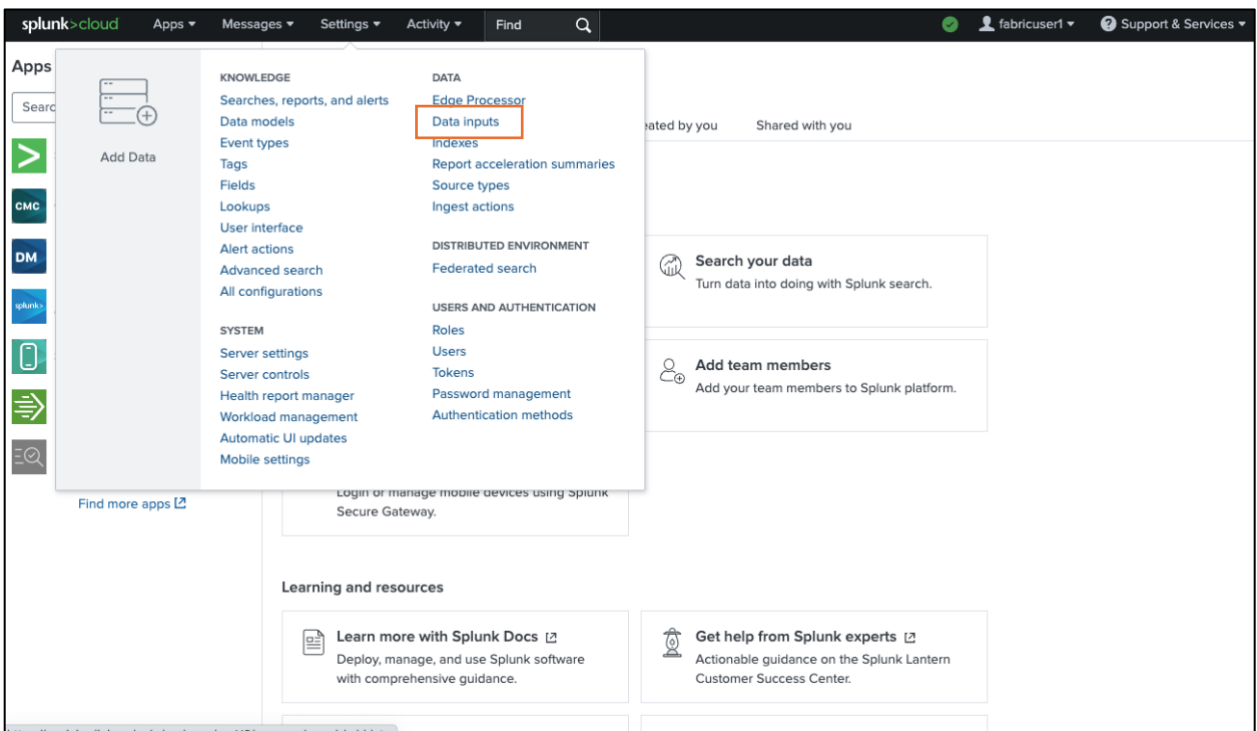


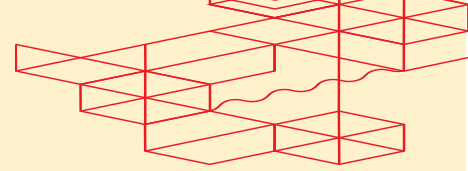
5. Generate Token Value

- 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**.



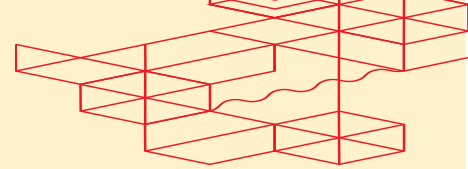


5.2. Select HTTP Event Collector

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

The screenshot shows the Splunk Cloud interface. At the top, there is a navigation bar with 'splunk>cloud', 'Apps', 'Messages', 'Settings', 'Activity', 'Find', and a search icon. On the right, there is a user profile 'fabricuser1' and a 'Support & Services' dropdown. Below the navigation bar, the main heading is 'Data inputs' with a sub-heading 'Set up data inputs from files and directories, network ports, and scripted inputs.' The main content area is titled 'Local inputs' and contains 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 a New Token

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

The screenshot shows the Splunk interface for the HTTP Event Collector. At the top right, a green button labeled "New Token" is highlighted with a red rectangular box. Below the header, there is a table listing 10 tokens. Each row includes a Name, Actions (Edit, Disable, Delete), Token Value, Source Type, Index, and Status.

Name	Actions	Token Value	Source Type	Index	Status
for-cindy	Edit Disable Delete	21b8511e-9714-466f-90e9-6a95b7646863		uat1-hec-event	Enabled
ryan-hec	Edit Disable Delete	289b9d0b-...		ryan-hec-event	Enabled
raf-hec	Edit Disable Delete	29077188-8		Default	Enabled
nit-aug-2024-uat1	Edit Disable Delete	33d784ae-9...		nit-aug-2024-testing-uat1	Enabled
uat1-automation	Edit Disable Delete	3650905c-f713-4ddd-886b-06b4ff028f7d		uat1-hec-event	Enabled
prod-automation	Edit Disable Delete	3bc808a2-3d58-4d37-a303-fa910f3d7e9c		prod-hec-event	Enabled
test	Edit Disable Delete	5005bda5-d804-4d3b-9d9a-64918e8ea9f5		Default	Enabled
qa3-automation	Edit Disable Delete	531a92c3-7...		qa3-hec-event	Enabled
tes-doc	Edit Disable Delete	a8b54388-t		Default	Enabled
uat2-automation	Edit Disable Delete	c943c44f-a:		uat2-hec-event	Enabled

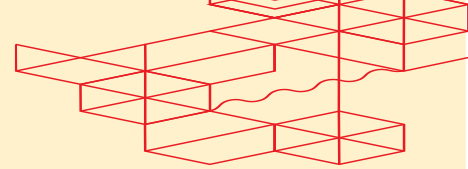
5.4. Add Data Method

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

The screenshot shows the "Add Data" configuration page in Splunk. The "Name" field is filled with "equinix-test". There are optional fields for "Source name override" and "Description", both containing the word "optional". An unchecked checkbox is labeled "Enable indexer acknowledgement". Below the form is an "FAQ" section with several questions and expandable answers.

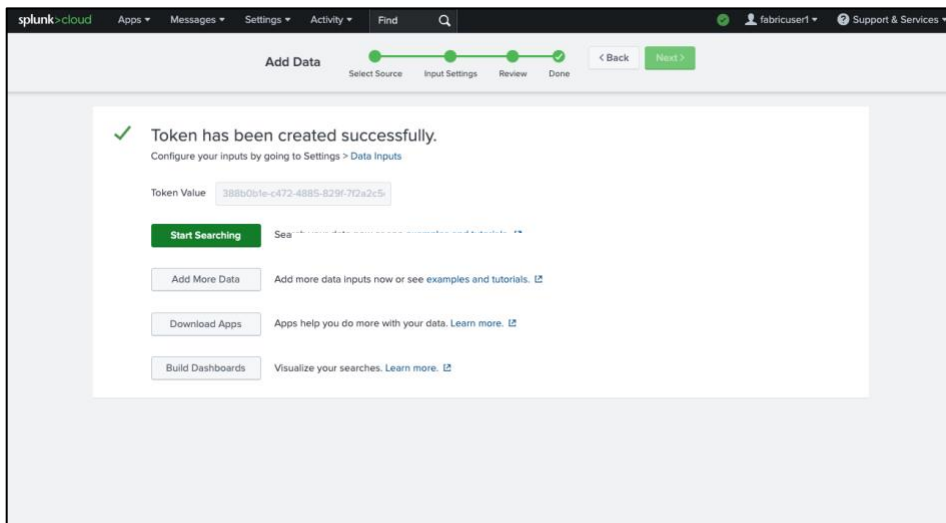
FAQ

- > What is the HTTP Event Collector?
- > How do I set up the HTTP Event Collector?
- > How do I view and configure the tokens that I can use to send data to the HTTP Event Collector?
- > What clients can send data to the HTTP Event Collector?
- > What port and protocol does the HTTP Event Collector receive data on and how can I change that?



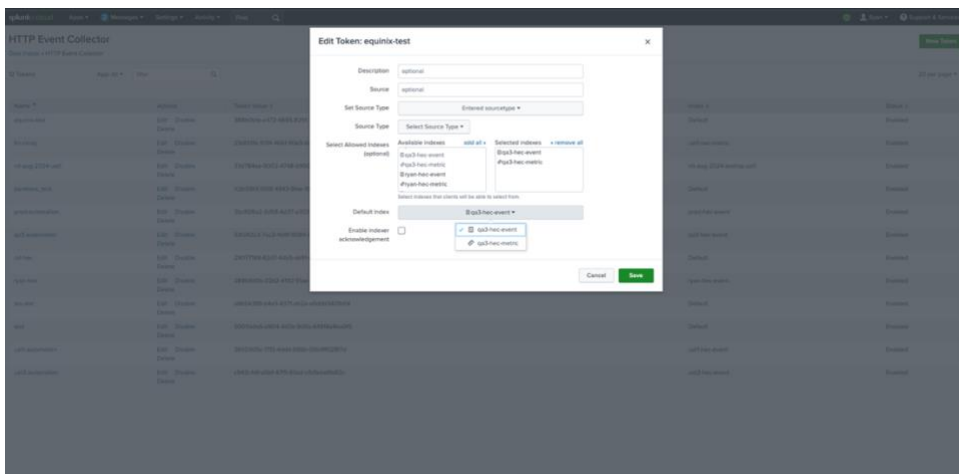
5.5. Complete the Setup

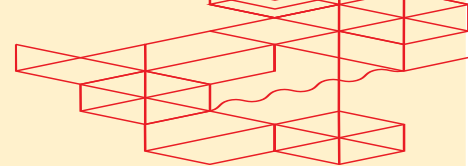
- After naming your token, click **Next** to move to the **Select Source** step.
- Click **Review** on the **Input Settings** step to review your configurations.
- Finally, click **Submit** on the **Review** step to complete the setup.



5.6. Add Event and Metric Indexes to the HTTP Event Collector (HEC)

- In HTTP Event Collector, click “Edit” on your HTTP Event Collector (HEC).
- Select your event and metric indexes.
- Set the event index as your Default Index.

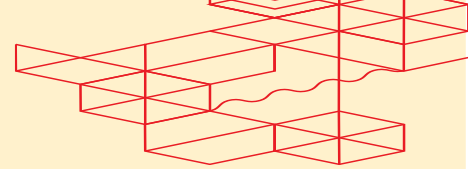




5.7. Copy the Token Value

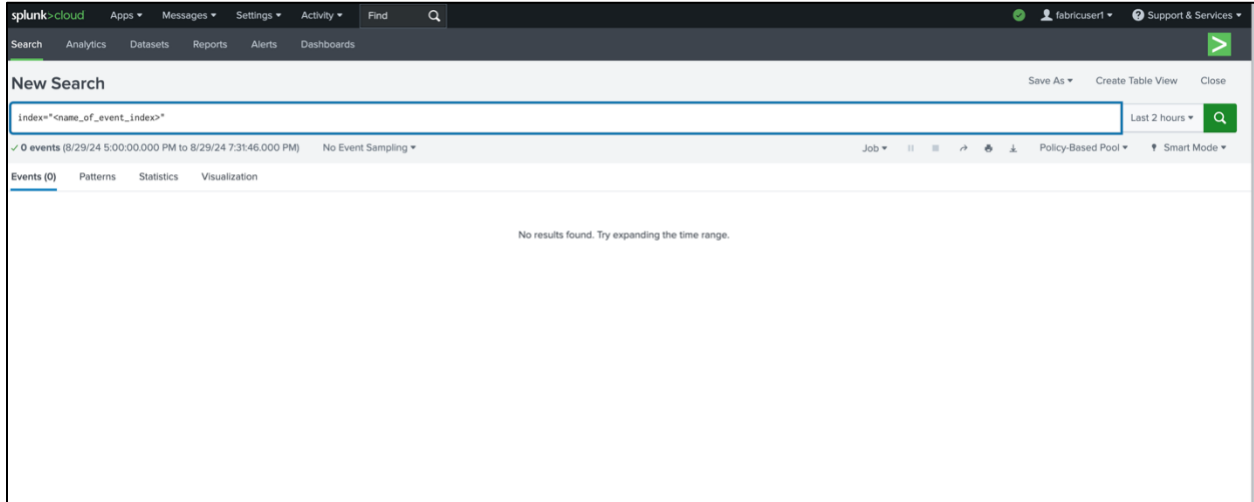
- Once the setup is complete, a Token value will be generated.
- **Copy this Token value** to your clipboard, as it will be needed later for the POST streamSubscription API in Stream Observability.
- You can use the Splunk token in POST/fabric/v4/ fabric/v4/streamSubscriptions request
Example:

```
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": "jw-splunk-sub-0731",
  "description": "subscription 1",
  "stream": {
    "uuid": "241372e9-79c9-4ef8-b77a-8b8176c2098b4"
  },
  "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>"
    }
  }
}'
```



6. Search Event

- Go to Home Page. Click on **Search & Reporting**. This will take you to a Splunk search page and search with your index. E.g. index=" <name_of_event_index>"



- Now that the HTTP Event Collector is set up, you can use the Stream Observability APIs to create a subscription for CloudEvents.
- Use the previously copied Token value from the POST streamSubscription API call to setup your CloudEvents subscription.
- Refer to the “Fabric Observability with Client Sink Integration” document for detailed instructions on how to receive Events using a specific Sink Type.