

# Integrating Splunk as a Data Collector

Version 1.3

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• E Q U I N I X Integrating Splunk as a Data Collector



# **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>"
  "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.

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ashboard Recently viewed		
	Created by you Shared with you	
a from a variety of common sources.	Search your data	
	· · · · · · · · · · · · · · · · · · ·	
e your data	Add team members	
should still work for your data.	Add your team members to spirark platform.	
re mobile devices		
aanage mobile devices using Splunk ateway.		
ources		
	Dashboard       Recently viewed         a         from a variety of common sources.         e your data         ushboards that work for your data.         re mobile devices         manage mobile devices using Splunk ateway.         sources	Dashboard Recently viewed Created by you Shared with you <b>a</b> from a variety of common sources. <b>a</b> from a variety of common sources. <b>Search your data a</b> Turn data into doing with Splunk search. <b>a b Add team members</b> Add your team members to Splunk platform. <b>a b b b b b b c b c c b c</b>



# 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.

splunk>cloud Apps -	Messages   Settings   Activity   Find   Q	<b>Ø</b>	👤 fabricuser1 🔻
Apps Searc	KNOWLEDGE         DATA           Searches, reports, and alerts         Edge Processor           Data models         Data inputs           Head of the second seco		
Add Data	Event types     Indexes       Tags     Report acceleration summaries       Fields     Source types       Lookups     Ingest actions		
DM.	Alert actions DISTRIBUTED ENVIRONMENT Advanced search Federated search All configurations USERS AND AUTHENTICATION CONTENT Advanced search Federated search All configurations USERS AND AUTHENTICATION	earch.	
<ul> <li></li></ul>	Striker     Roles       Server settings     Users       Server controls     Tokens       Health report manager     Password management       Workload management     Authentication methods	: platform.	
EQ	Automatic UI updates Mobile settings		
Find more apps 🖸	Login or manage mobile devices using Splunk Secure Gateway.		
	Learning and resources		
	Learn more with Splunk Docs 2         C           Deploy, manage, and use Splunk software with comprehensive guidance.         Actionable guidance on the Splunk Customer Success Center.	亿 Clantern	
https://equinix-digin.splunkcloud.con	om/en-US/manager/search/adddata	2	



# 3. Create an Event Index

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

splunk>cloud	A	pps 🔻 M	essages 🔻	Settings 🔻 🔺	ctivity - Find	Q			Ø	👤 fabricuser1 👻 😮	Support & Services -
Indexes	lata in S	Splunk Cloud	d. Indexes re	side in flat files on	the Splunk Cloud in	stance known as	s the indexer. Learr	n more ඵ			New Index
16 Indexes		App	n: All ▼ fi	lter	Q						20 per page 🔻
Name <sup>*</sup>	Actio	ns	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	
lastchancein dex	Edit	Delete	🗄 Events	100-whisper- indexer	0 B	unlimited	0			2 years 364 days	
main	Edit	Delete	Events	100-s2-confi g	13.77 MB	unlimited	23.2K	2 years ago	8 days ago	2 years 364 days	
nit-aug-2024 -testing-metr ics-uat1	Edit	Delete		000-self-ser vice	0 B	100 MB	0			30 days	
nit-aug-2024 -testing-uat1	Edit	Delete	Events 🗄	000-self-ser vice	194.56 KB	100 MB	452	10 days ago	an hour ago	30 days	
prod-hec-ev ent	Edit	Delete	🗄 Events	000-self-ser vice	0 B	100 MB	0			30 days	
qa3-hec-eve nt	Edit	Delete	Events 🗄	000-self-ser vice	102.4 KB	100 MB	244	22 days ago	5 hours ago	30 days	
qa3-hec-met ric	Edit	Delete	Metrics	000-self-ser vice	0 B	100 MB	5	22 days ago	4 hours ago	30 days	
ryan-hec-ev ent	Edit	Delete	Events	000-self-ser vice	0 B	100 MB	0			30 days	
ryan-hec-me tric	Edit	Delete	Metrics	000-self-ser vice	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.

splunk>cloud	A	ops 🔻 Me	ssages ▼	Settings 🔻	Activity 🔻	Find (	Q.		e	) 👤 fab	ricuser1 🔻 🛛 🚱	Support & Services 🔻
Indexes			New II	ıdex						×		New Index
				Index nan	even	ts-token						20 per page 🔻
				Index Data Typ	be	E Ev	ents	4	Metrics			
Name 🕈					The typ	e of data to store (ev	vent-based or metrics).					Archive Retention
			n	lax raw data si:	ze 100				MB 🔻			
					Maximu data siz	m aggregated size o e values less than 10	of raw data (uncompres DOMB, other than 0, are	e not allowed.	t this to 0 for unlimited. I	flax raw		
			Sea	rchable retentio (day	n 30 rs) <sub>Number</sub>	r of days the data is	searchable					
			Dyr	storage	Splunk Ar	rchive ⑦ age ⑦						
				() L	No Additi earn More 🛙	onal Storage						
									Cancel	ave		
			Metrics	000-self-ser vice	0 B	100 M	1B 5	22 days ago	4 hours ago	30 days		
ryan-hec-ev ent	Edit	Delete	Events	000-self-ser vice	0 B	100 M	18 0			30 days		



#### 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.

<b>splunk</b> >cloud	Арр	ps 🔻 M	lessages 🔻	Settings 🔻	Activity - Fi	nd Q			ø	👤 fabricuser1 🔻 💡	Support & Services 🔻
Indexes A repository for	data in Sp	olunk Clou	d. Indexes re	side in flat files o	n the Splunk Clou	ıd instance known a	s the indexer. Lear	n more 🗹			New Index
16 Indexes		Ap	p: All ▼ f	ilter	Q						20 per page 🔻
Name <sup>▲</sup>	Action	s	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	
lastchancein dex	Edit	Delete	Events 🗄	100-whisper- indexer	0 B	unlimited	0			2 years 364 days	
main	Edit	Delete	Events 🗄	100-s2-confi g	13.77 MB	unlimited	23.2K	2 years ago	8 days ago	2 years 364 days	
nit-aug-2024 -testing-metr ics-uat1	Edit	Delete		000-self-ser vice	0 B	100 MB	0			30 days	
nit-aug-2024 -testing-uat1	Edit	Delete	Events 🗄	000-self-ser vice	194.56 KB	100 MB	452	10 days ago	an hour ago	30 days	
prod-hec-ev ent	Edit	Delete	🗄 Events	000-self-ser vice	0 B	100 MB	0			30 days	
qa3-hec-eve nt	Edit	Delete	Events 🗄	000-self-ser vice	102.4 KB	100 MB	244	22 days ago	5 hours ago	30 days	
qa3-hec-met ric	Edit	Delete	Metrics	000-self-ser vice	0 B	100 MB	5	22 days ago	4 hours ago	30 days	
ryan-hec-ev ent	Edit	Delete	Events	000-self-ser vice	0 B	100 MB	0			30 days	
ryan-hec-me tric	Edit	Delete		000-self-ser vice	0 B	100 MB	0			30 days	



# 4.1 Select Metrics Index Data Type

• Index Data Type: Select Metrics Index Data Type.

splunk>cloud								er1 👻 <table-cell></table-cell>	
Indexes A repository for a		New Index					×		New Index
		Index name	metrics-token						20 per page <del>v</del>
		Index Data Type		Events	🔗 Met	rics			
Name 🕈			The type of data t	o store (event-based or metrics).			able f		
		Timestamp Resolution		Seconds	Milliseco	onds			
			Specify the timest reduced search p	tamp precision of the metrics in this erformance.	index. Indexes with millisecond	timestamp precision	have 364		
		Max raw data size	100			MB 🔻	364		
			Maximum aggrega data size values le	ated size of raw data (uncompresse ess than 100MB, other than 0, are no	<li>d) contained in index. Set this to ot allowed.</li>	o 0 for unlimited. Max	raw		
		Searchable retention	30						
		(days)	Number of days th	he data is searchable					
		Dynamic Data Sp Storage	plunk Archive 📀	)					
		) Se	elf Storage 🕐				5		
		(•) N	o Additional Stor	rage					
		Learn	More L2						
					Ca	ancel Save			
		vice							

#### 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**.

splunk>cloud Apps <del>-</del>	Messages   Settings   Activity   Find   Q	🥥 👤 fabricuser1 👻 🥝 Support & Services
Apps Searc Add Data	KNOWLEDGE     DATA       Searches, reports, and alerts     Edge Processor       Data models     Data inputs       Event types     Indexes       Tags     Report acceleration summaries       Fields     Source types       Lookups     Ingest actions       User interface     Alert actions       Alert actions     DISTRIBUTED ENVIRONMENT       Advanced search     Federated search       All configurations     USERS AND AUTHENTICATION       SYSTEM     Roles       Server controls     Tokens       Health report manager     Password management       Workload management     Authentication methods	Add team members         Add your team members to Splunk platform.
EQ. Find more apps [2]	Mobile settings  Login or manage mobile devices using Splunk Secure Gateway.  Learning and resources  Learn more with Splunk Docs [2] Deploy, manage, and use Splunk software with comprehensive guidance.  mine US/measure/security/odddata	Øet help from Splunk experts I2         Actionable guidance on the Splunk Lantern         Customer Success Center.



#### 5.2. Select HTTP Event Collector

• In the Data Inputs section, select HTTP Event Collector.

splunk>cloud 4	ops ▼ Messages ▼ Settings ▼ Activity ▼ Find Q	C	🤰 👤 fabricuser1 🔻	Support & Services •
Data inputs Set up data inputs from	iles and directories, network ports, and scripted inputs.			
	Local inputs			
	Туре	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.

splunk>cloud App	is ▼ Messages ▼	Settings   Activity	Find Q	<ul> <li>Image: Second sec</li></ul>	) 👤 fabricuser1 🔻 🚱	Support & Services
HTTP Event Co Data Inputs > HTTP Event (	Collector					New Token
10 Tokens	App: All 👻 🛛 f	ilter Q				10 per page 🔻
Name ‡		Actions	Token Value <sup>*</sup>	Source Type \$	Index ‡	Status \$
fcr-cindy		Edit Disable Delete			uat1-hec-event	Enabled
ryan-hec		Edit Disable Delete			ryan-hec-event	Enabled
raf-hec		Edit Disable Delete			Default	Enabled
nit-aug-2024-uat1		Edit Disable Delete			nit-aug-2024-testing-uat	1 Enabled
uat1-automation		Edit Disable Delete			uat1-hec-event	Enabled
prod-automation		Edit Disable Delete			prod-hec-event	Enabled
test		Edit Disable Delete			Default	Enabled
qa3-automation		Edit Disable Delete			qa3-hec-event	Enabled
tes-doc		Edit Disable Delete			Default	Enabled
uat2-automation		Edit Disable Delete			uat2-hec-event	Enabled

#### 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.

plunk>cloud	Apps 🔻	Messages 🔻	Settings 🔻	Activity -	Find	Q					0	👤 fabricuser1 🔻	Support & Service	s 🕶
			Add D	Data Sele	ect Source	e Input Settings	Review	Done	< Back	Next >				
	HTTP Even Configure to HTTPS.	t Collector kens that clients ca	in use to send data	a over HTTP or		Configure a new	token for re	ceiving d	ata over HTT	P. Learn More	12			
	Logd Input This input col Splunk platfo	for the Splunk p llects data from log rm.	latform gd on macOS and	sends it to the		Source name	Name override ?	optiona	-test					
	Splunk Sec Initializes the clients over v	sure Gateway Splunk Secure Ga vebsockets	teway application	to talk to mobile		De	escription ?	optiona	l					
	Splunk Sec Cleans up sto	sure Gateway Mo prage of old mobile	obile Alerts TTL alerts			acknow	ledgement							
	Config Moc Migrates con	dular Input figuration from con	of file to KV store			FAQ								
	Deep Link I Initializes the registrations	Dashboard Mode Deep Link Dashbo	ular Input bard Modular Inpu	t to complete		<ul> <li>&gt; What is the HI</li> <li>&gt; How do I set u</li> <li>&gt; How do I view</li> <li>Cellecter2</li> </ul>	p the HTTP and configu	Event Col re the tok	lector? ens that I ca	n use to send c	lata to ti	he HTTP Event		
	Splunk Sec Delete expire Splunk	ture Gateway De ad or invalid tokens	eleting Expired T s created by Secur	Tokens re Gateway from		<ul> <li>What clients ca</li> <li>What port and that?</li> </ul>	an send data protocol do	to the H es the HT	TTP Event Co TP Event Co	llector?	data on	and how can I chan	ge	
	Splunk Sec Used for sen	ure Gateway Ro ding mobile alerts t	le Based Notific to users by role	cation Manager	r									
	Columb Coo	Cotoway En	ملطم											



- 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.

splunk>cloud	Apps	<ul> <li>Messages</li> </ul>	▼ Settin	igs 🕶 🧳	Activity 🔻	Find	Q					0	👤 fabricuser1 🔻	Support & Services •
			Å	Add Dat	<b>a</b> Sel	ect Source	Input Settings	Review	Done	< Back	Next >			
	~	Token ha Configure your Token Value	inputs by g	oing to Se	ted sur httings > De	CCESSfi	ully.							
		Start Searc	hing	Search y	our data n	ow or see e	examples and tu	orials. 🛛						
		Add More	Data	Add mor	e data inpu	uts now or s	see examples ar	d tutorials.	12					
		Download	Apps	Apps hel	p you do n	nore with y	our data. <mark>Learn r</mark>	nore. 🖪						
		Build Dashb	ooards	Visualize	your sear	ches. <mark>Learn</mark>	more. 🖪							

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.

splunk>cloud Apps = 🙁 Messages =						
HTTP Event Collector Data inputs + HTTP Event Collector		Edit Token: equinix	test		×	New Token
12 Tokens App: All = filter		Description	optional			
		Source	eptional		]	
Name *	Token Value II	Set Source Type	Entered	sourcetype •		
equinix-test	388b0b1e-c472-4885-8294	Source Type	Select Source Type *			
fcr-cindy	2158511e-9714-4667-90e9-6	Select Allowed Indexes (optional)	Available indexes add all add all a	Selected indexes + remove al Eqa3-hec-event		
nt-aug 2024-ust1	33d784ze-9002-4748-b990		diga3-hec-metric Bryan-hec-event	Øqa3-hec-metric		
perform_text	1:2:5193-95/8-4943-9/ae-10		Select indexes that clients will be able	to select from.		
prod-automation	35::808+2-3::58-4::37-+303	Default Index	B qu3-1	ec-event *		
qu3 automation	53%92c3-7ac3-4b919580-4	Enable indexer acknowledgement		3-hec-metric		
rafiliec	29077188-82d7-4db5-ab91-					
gan hec	28969-005-3252-4192-91ae				Cancel Save	
tes-doc						
test						
uath-automation						
ust2-automation						



#### 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>"
     }
  }
۱
```



# 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.

splunk>cloud Apps + 🚺 Mer	sages 🔻	<ul> <li>Settings -</li> </ul>	Activity - Find Q		🥥 👤 Ryan 👻 🚱 S	Support & Services 🔻						
Search Analytics Datasets I						$\geq$						
New Search					Save As - Create Table	e View Close						
index*@inter-went* 'isila <sup>+</sup>												
/ 131 events (before 10.31/24.654.49.000 PM) No Event Sampling +												
Events (13) Patterns Satistics Visualization												
Format Timeline • - Zoom Out						1 day per column						
	_											
	List	<ul> <li>Format</li> </ul>	20 Per Page 🔻		1 2 3 4 5 6	6 7 Next≻						
< Hide Fields 🛛 🗏 All Fields	i	Time	Event									
SELECTED FIELDS		10/9/24 5:56:26.000 AM										
			equinixmessage: Neighbor									
			id: 3b100ae9-fa82-4e60-9									
INTERESTING FIELDS			severitynumber: 5 severitytext: INFO									
a equinixmessage 5 # equinixproject 2			subject: connections/	/routingProtocol/15f78ff9-744f-4d14-a08e-1530a12fbdaa								
			type: equinix.fabric.com									
# linecount 1												
# severitynumber 1			host = http-inputs-equinix-digin	n.splunkcloud.com source = qa3-automation source = https://api.equinkc.com/fabric/v4/events sourcetype = httpevent								
a severitytext 1 a splunk_server 2		10/9/24 5:53:58.000 AM	<pre>{ [-] _source: https://api.equ</pre>									
a subject 4 a time 100+			equinixmessage: Neighbor	r 2002:10::2 address session state changed to Idle								
			id: fd8a5f96-b2b7-42cb-b	bf75-44cdf806a05c								
			severitynumber: 5 severitytext: INFO									
			subject: connections/.	15/15/78/f9-744f-4d14-a88e-1530a12fbdaa								
			type: equinix.fabric.com									
			host = http-inputs-equinix-digin	n.splunkcloud.com source = qa3-automation source = https://api.equinix.com/fabric/v4/events sourcetype = httpevent								

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



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