Splunk SIEM Integration Guide

The Nile Service Block (NSB) integrates with Splunk Technology's dat
searching product, Splunk, via Splunk's HTTP Event Collector (HEC),
export NSB security events – audit logs and user device events – to
Splunk for log analysis and archiving by the customer.

Overview

The Nile Service Block (NSB) integrates with Splunk Technology's data searching product, Splunk, via Splunk's *HTTP Event Collector* (HEC), to export NSB security events – audit logs and user device events – to Splunk for log analysis and archiving by the customer.

Prerequisites

- Cloud Splunk instance, or an on-premises Splunk instance, with access from Nile cloud.
- Administrative log in to Spunk instance.
- Administrative log in to Nile Portal.

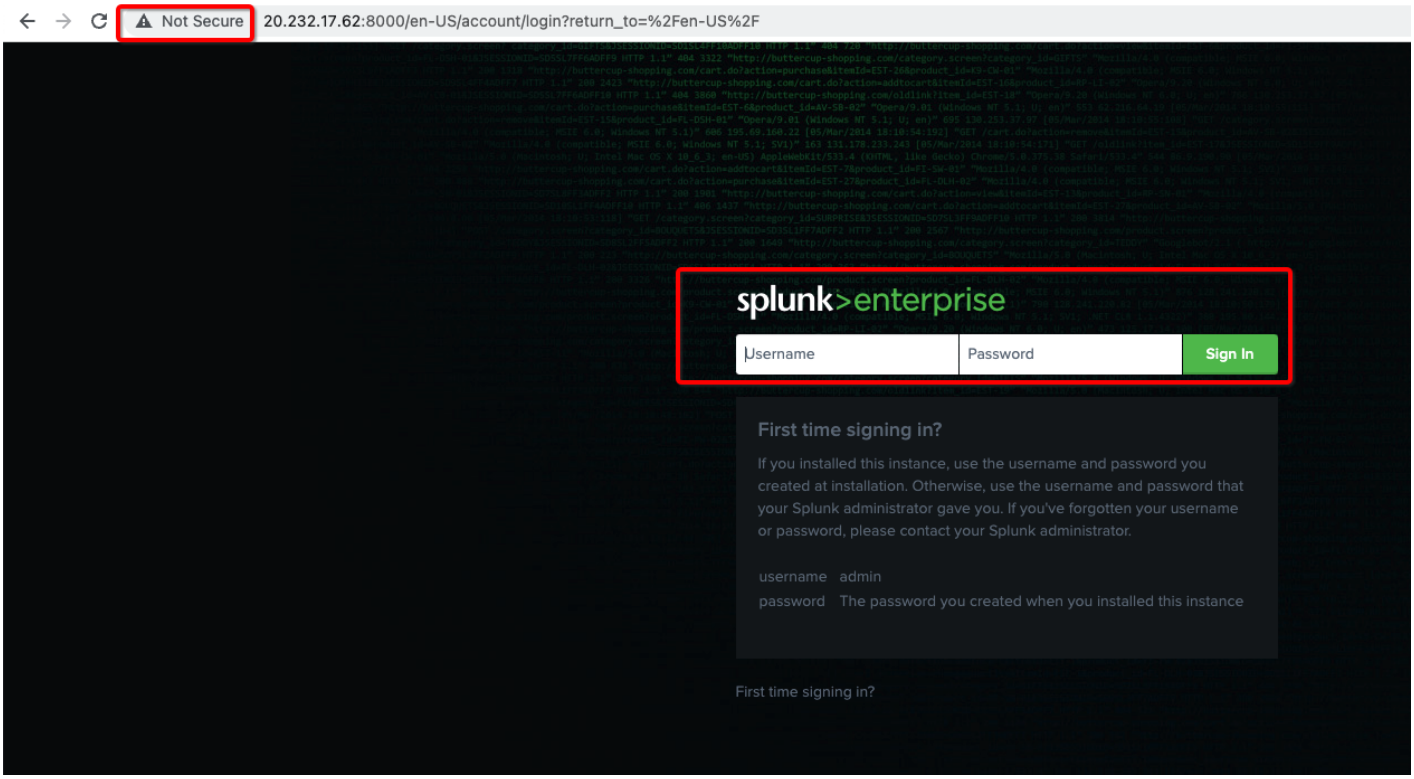
Limitations:

- Nile Service Block supports only signed SSL certificates, or HTTP access with no SSL. Self-signed HTTPS certificates are not acceptable.
- Nile does not support the Splunk Cloud's free trial offer. That trial offer uses SSL with a self-signed certificate. There is no option to disable self-signed certificates on Splunk Cloud's free trial, or for Nile to accept self-signed certificates.

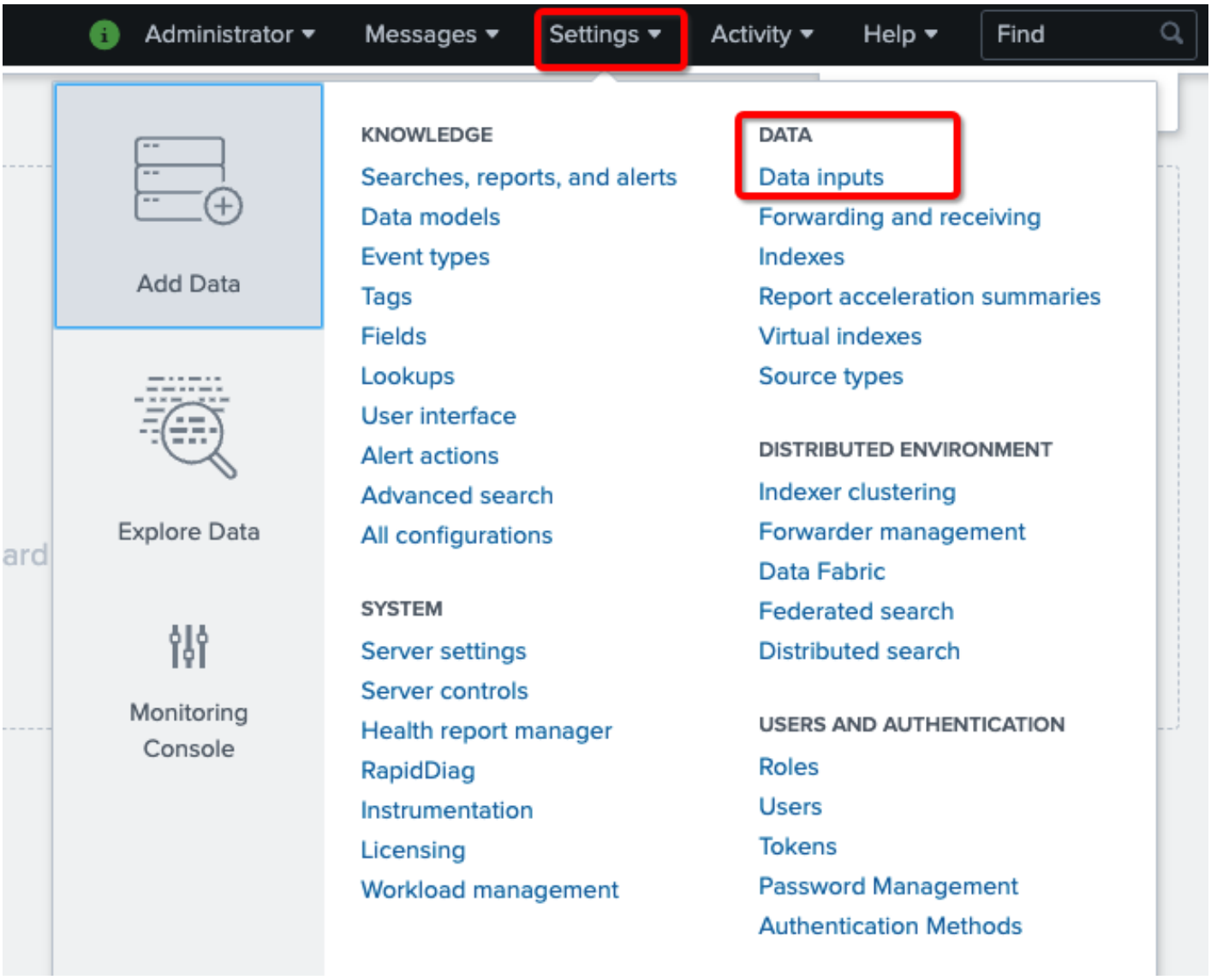
Splunk Configuration:

Create Splunk HTTP Event Collector

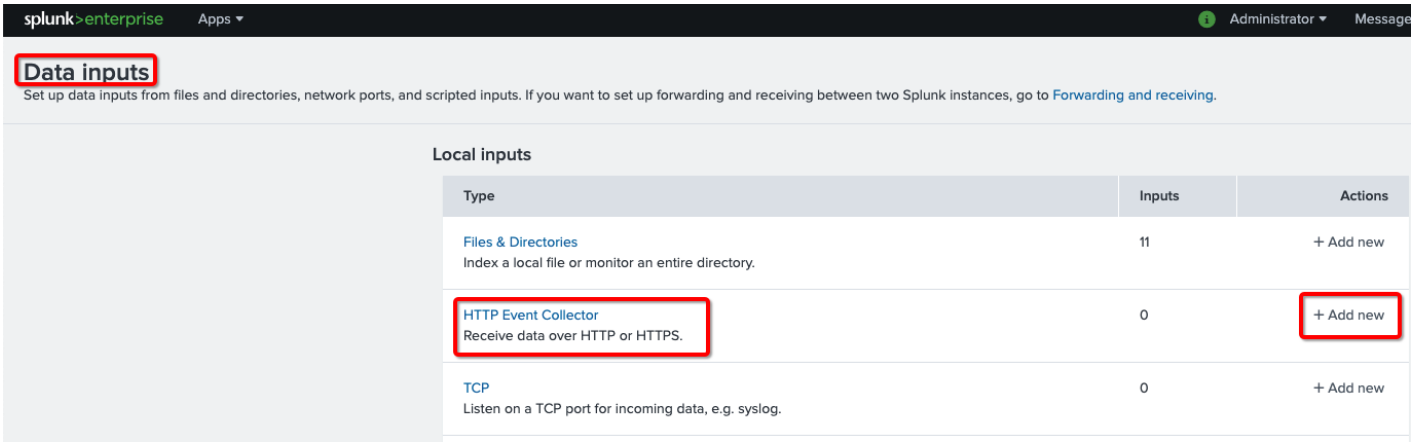
- Log in to Splunk instance as an administrator.



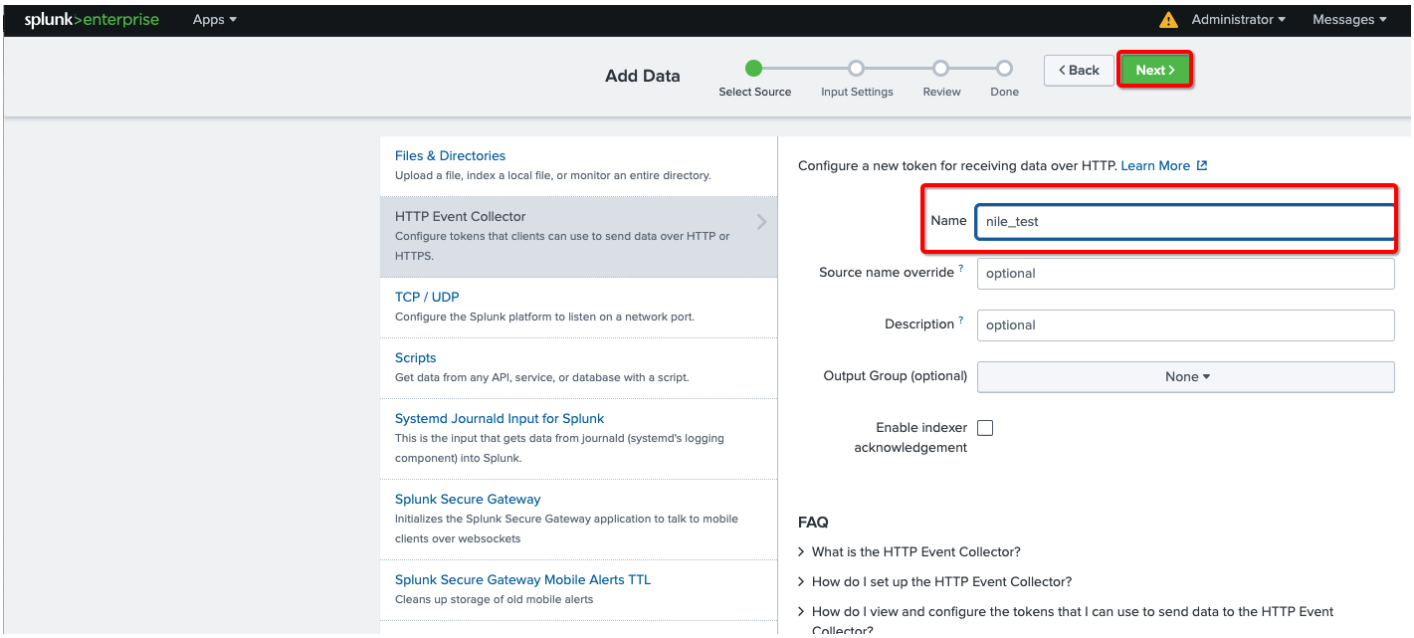
- Navigate to **Settings**
- Select **Data inputs** from the DATA section.



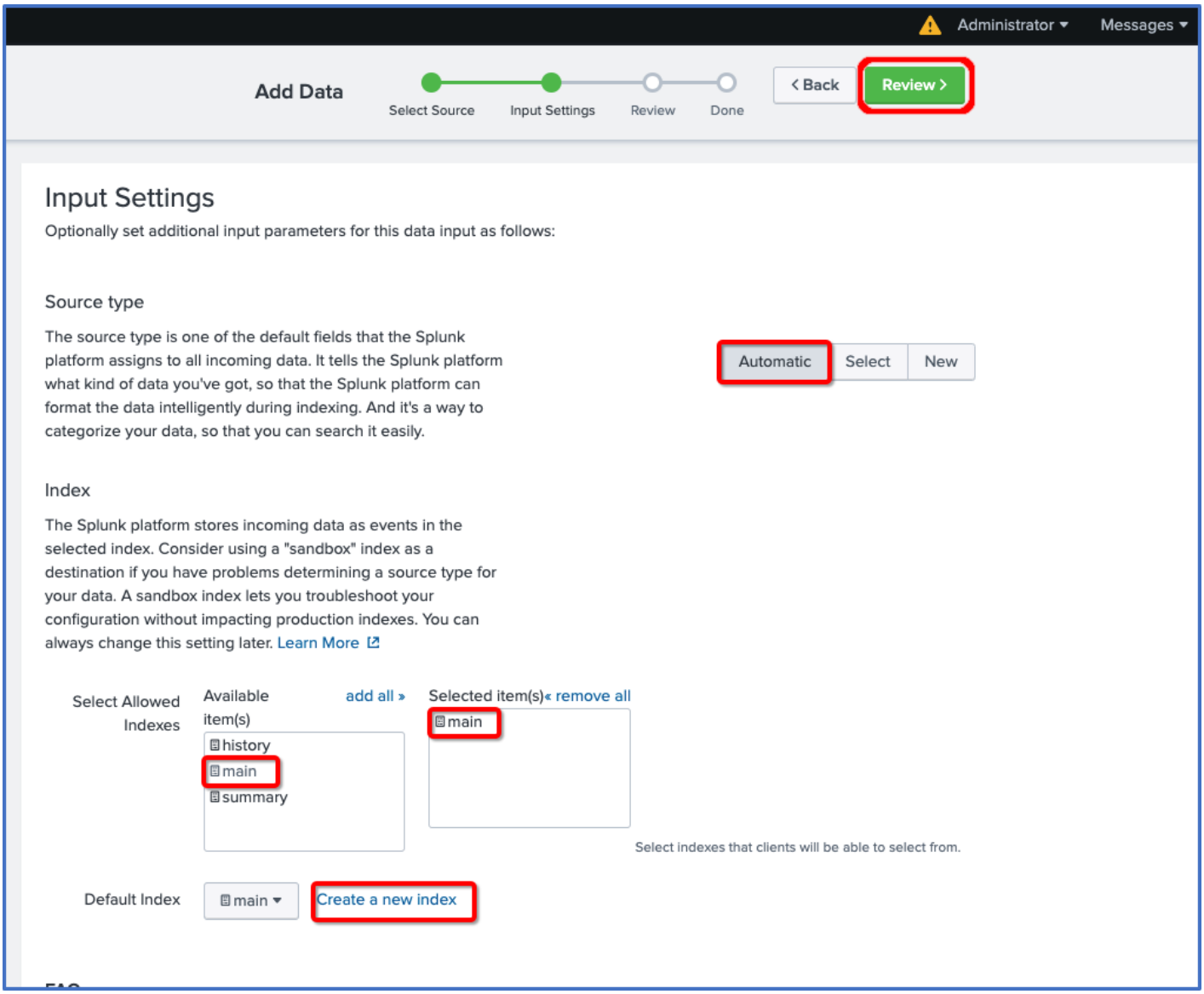
- Click on the **+ Add new** link to create a new HTTP event collector (HEC).



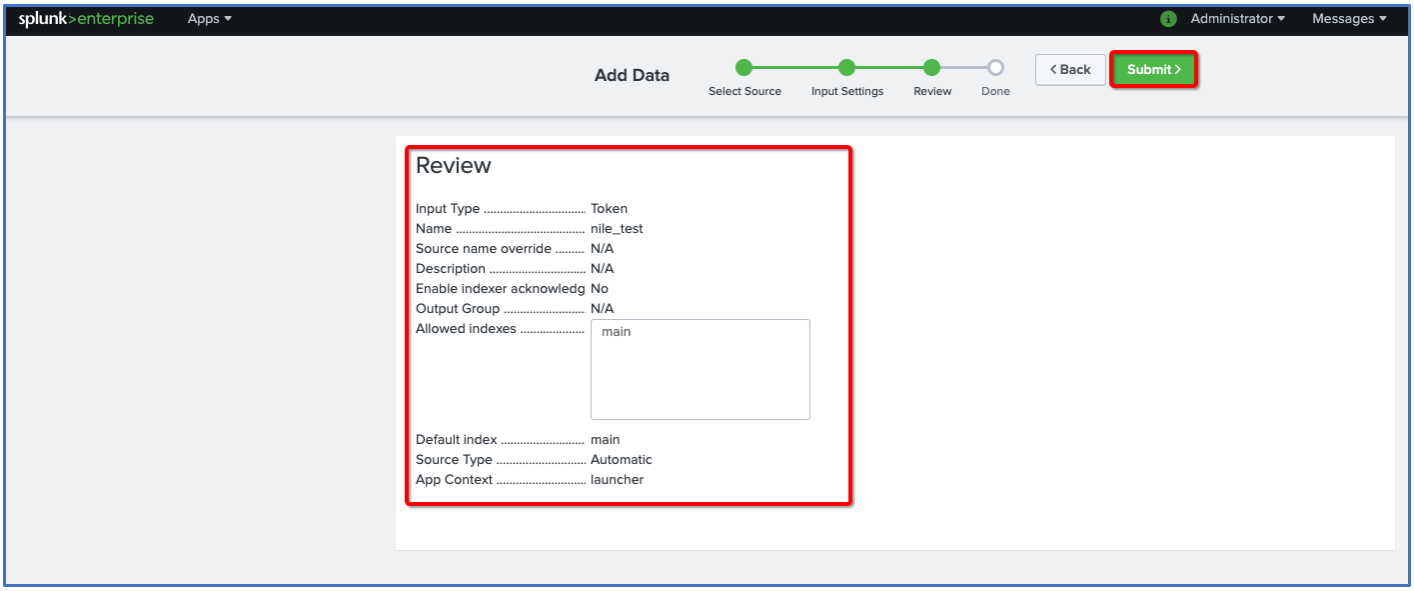
- Type a descriptive name for the collector – in this example, we will use “nile_test”. Keep all other values at their default value (“optional”).
- Click the **Next** button



- Keep the **Source Type** as Automatic;
  Keep the index as “main”.
  NOTE: HEC data will be stored at by default in the main index; you can create a specific index by clicking on the **Create a new index** This can be changed at any time. This example uses the main index; in production, use a sandbox index first then change the setting later.
- Click the **Review** button



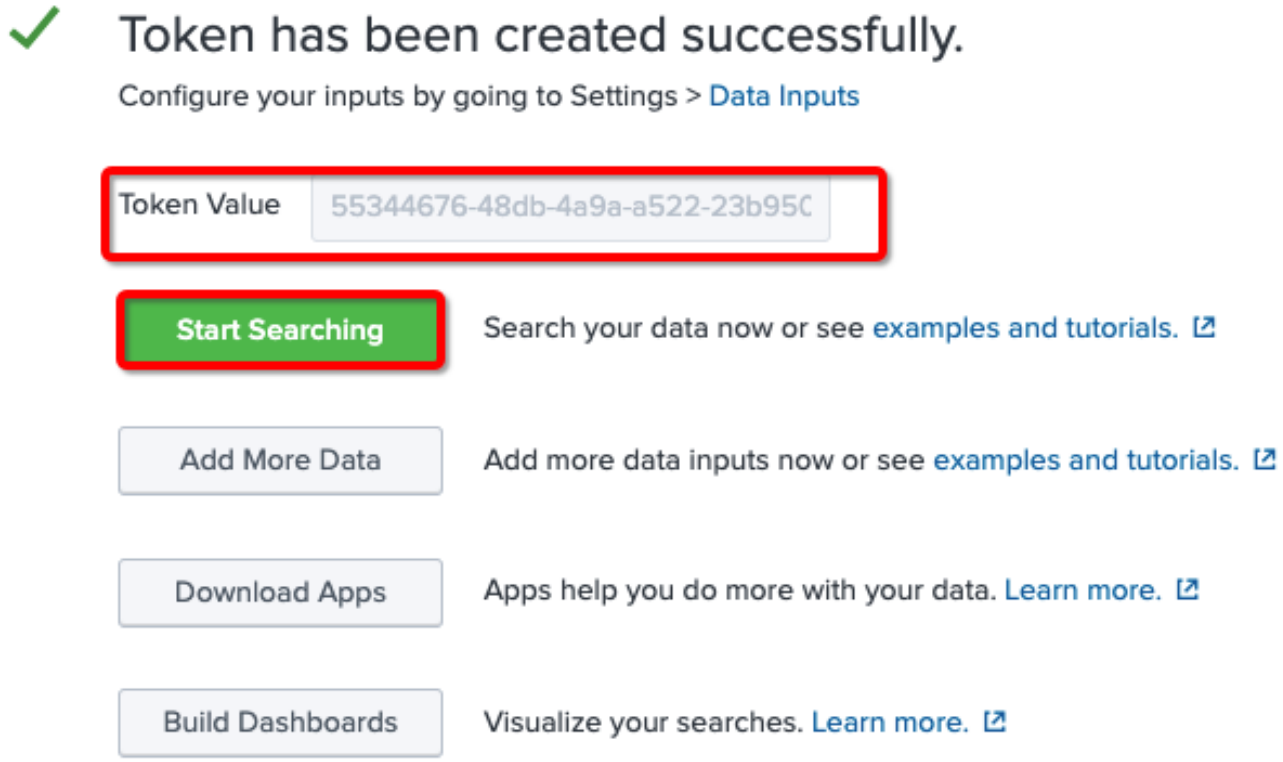
- Verify the HTTP Event Collector configuration.
- Click the **Submit** button



- Copy the contents of **Token Value**, and save it in a text file for later use in the Nile Portal settings.

(Example here is “**55344676-48db-4a9a-a522-23b95C**”.)

- Click the **Start Searching** button

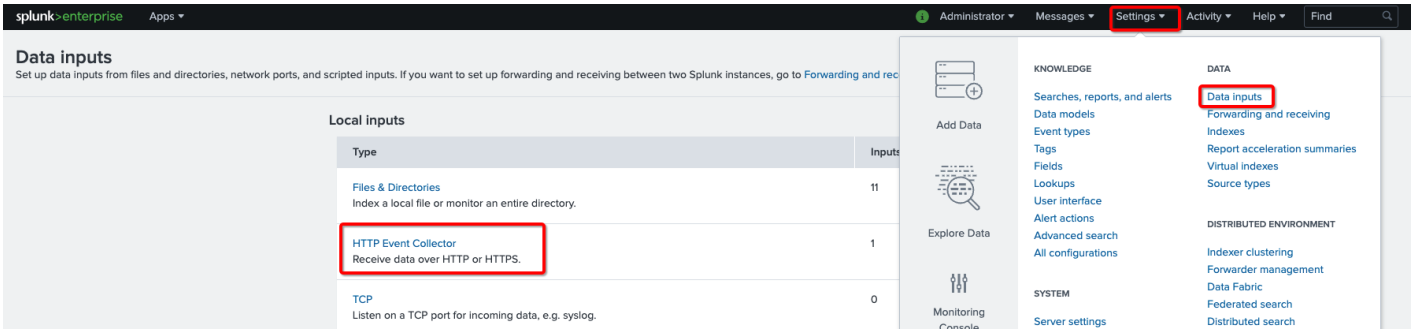


- Enter a search string; in this example, **source=”http:nile_test” (index=”main”)**

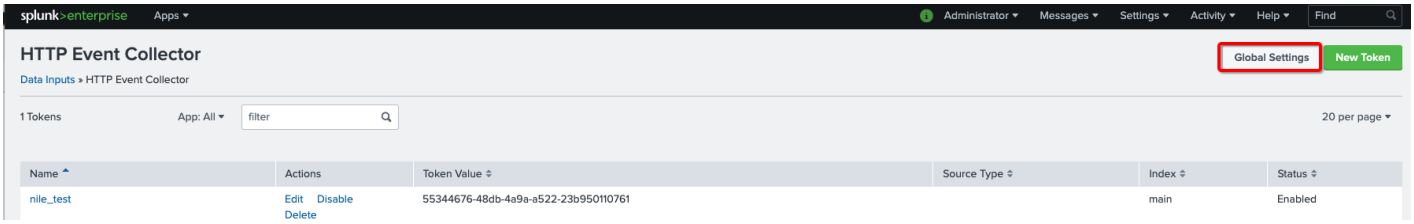
Configure the Splunk HTTP Event Collector

After creating the HTTP Event Collector, enable the Collector, and configure the URL port and SSL options.

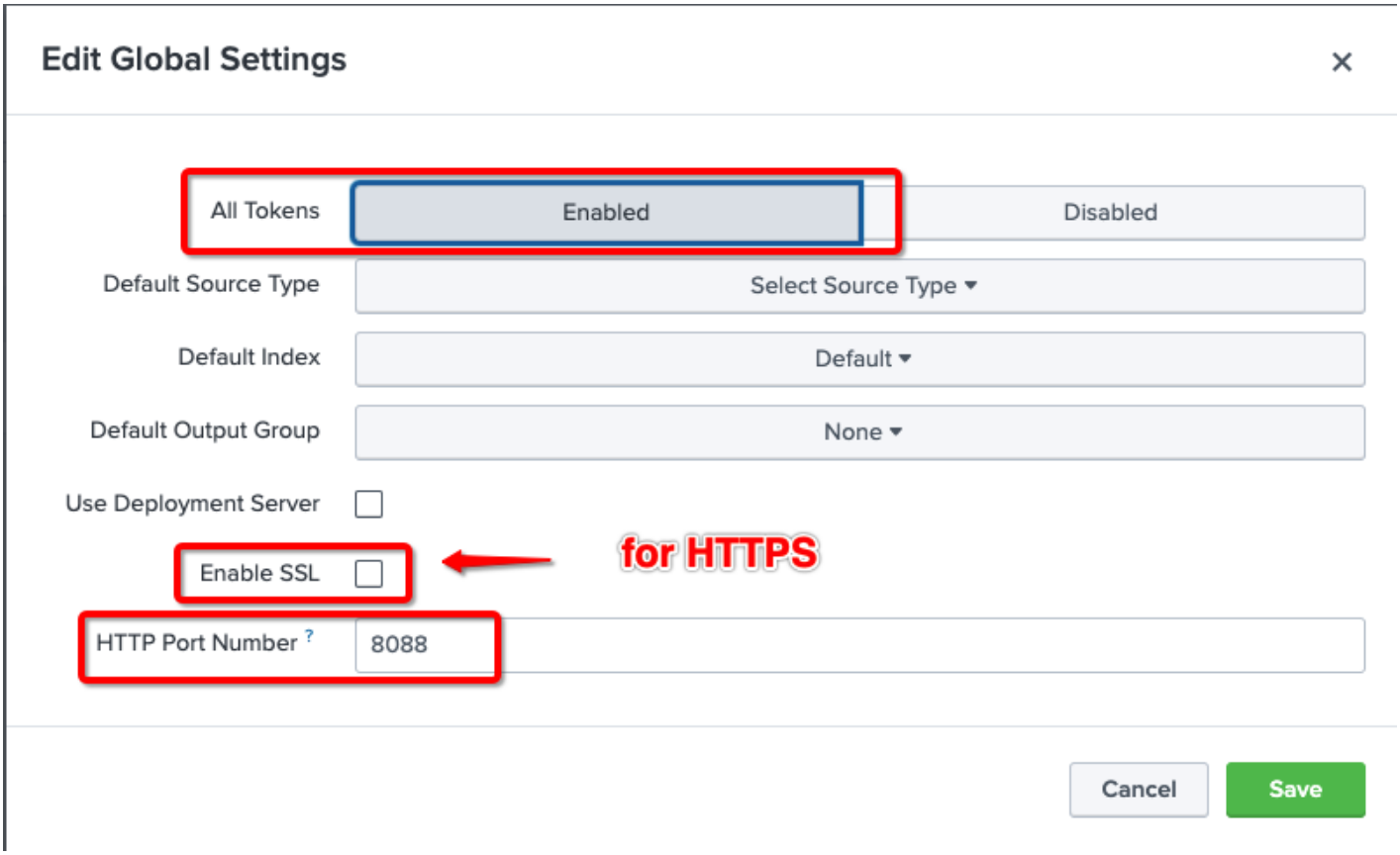
- From the Data section, click the **Data inputs** link
- Click on **HTTP Event Collector** link.



- In the HTTP Event Collector page, click on **Global Settings** button



- Enter these values into the form
  All Tokens: click on **Enabled**
  Enable SSL: check (HTTPS) or uncheck (HTTP) the checkbox
  HTTP Port Number: 8088 (default).
  Keep all other settings in their default value.
- Click the **Save** button



This example shows that SSL is disabled, and the port number is the default value.

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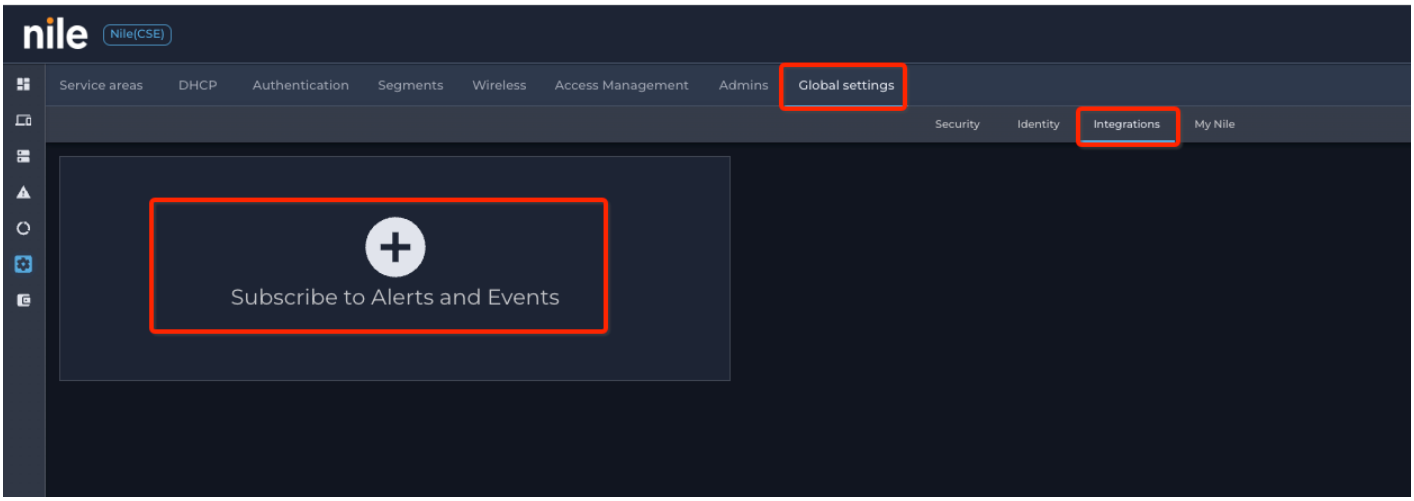
NOTE

Important Note: The SSL and Port Number setting is a global setting, and will affect all HTTP Event Collectors.

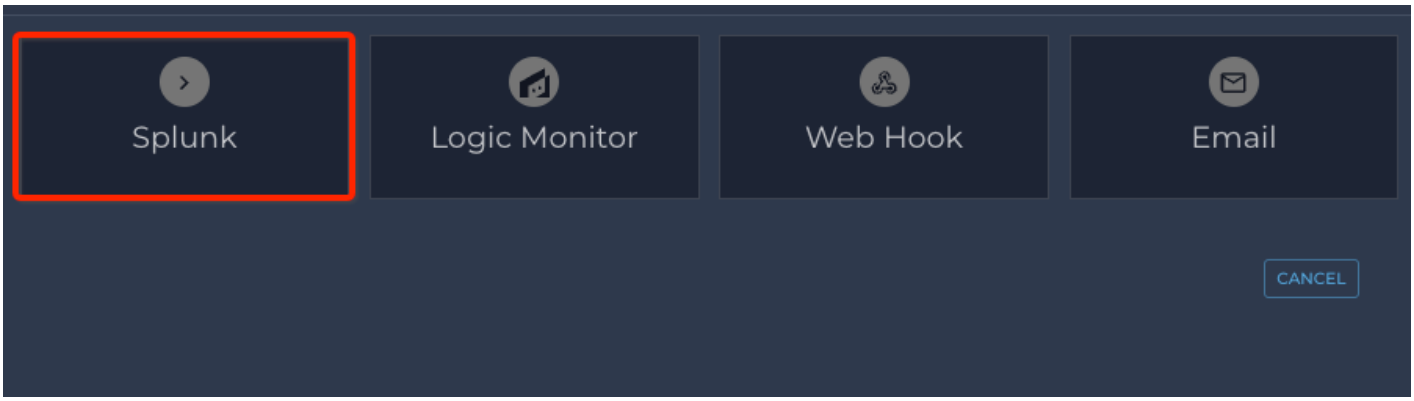
Nile Portal Configurations:

Add Splunk collector to Nile Portal

- Login to Nile portal — https://u1.nile-global.cloud/ — using an admin account
- Navigate to (Settings button) ? **Global Settings** tab ? **Integration** subtab

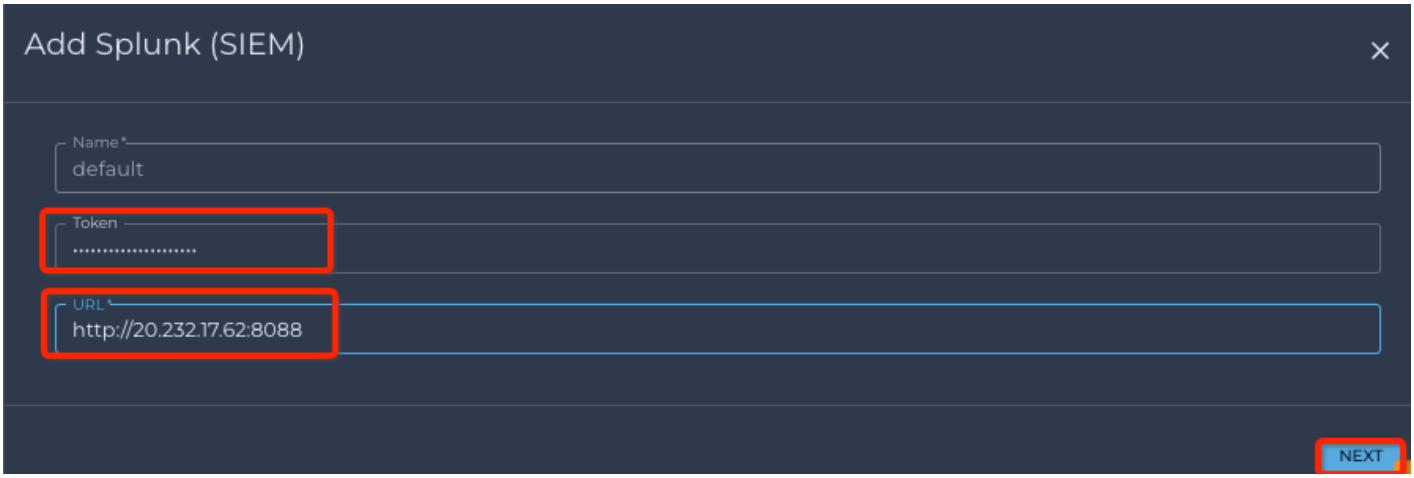


- Click on ?; a new popup window will open
- Click on **Splunk**

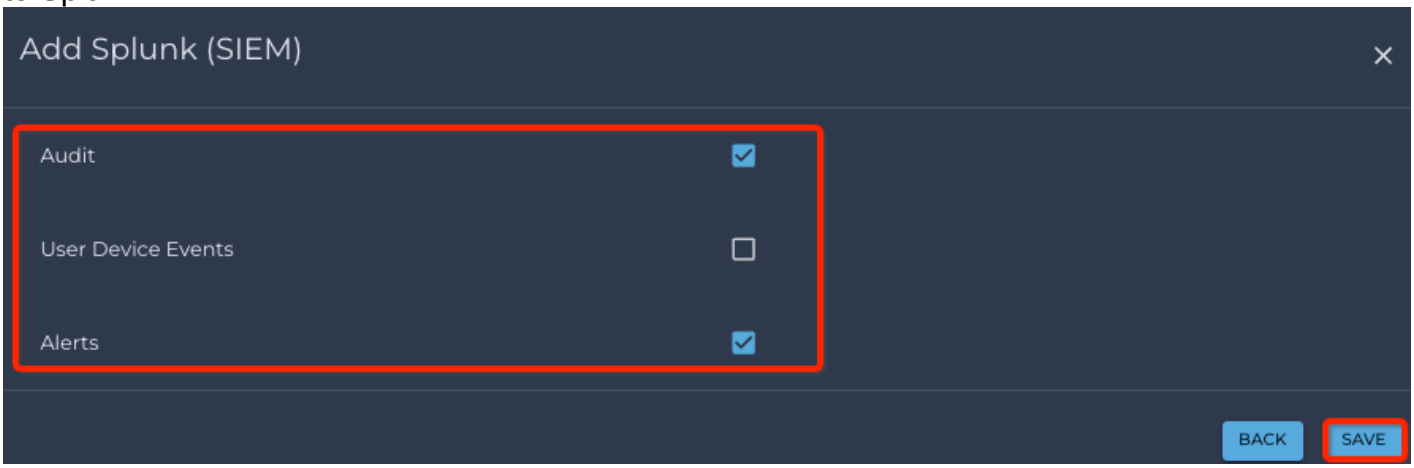


- Fill out Splunk information:
  Token: Copy and paste the token saved when creating the Splunk HEC
  URL: Enter Splunk cloud URL plus HTTP port number from Splunk HEC global settings (example: https://<customer_id>.splunlkcloud.com:8088 as in our settings we have 8088 as HTTP port number)

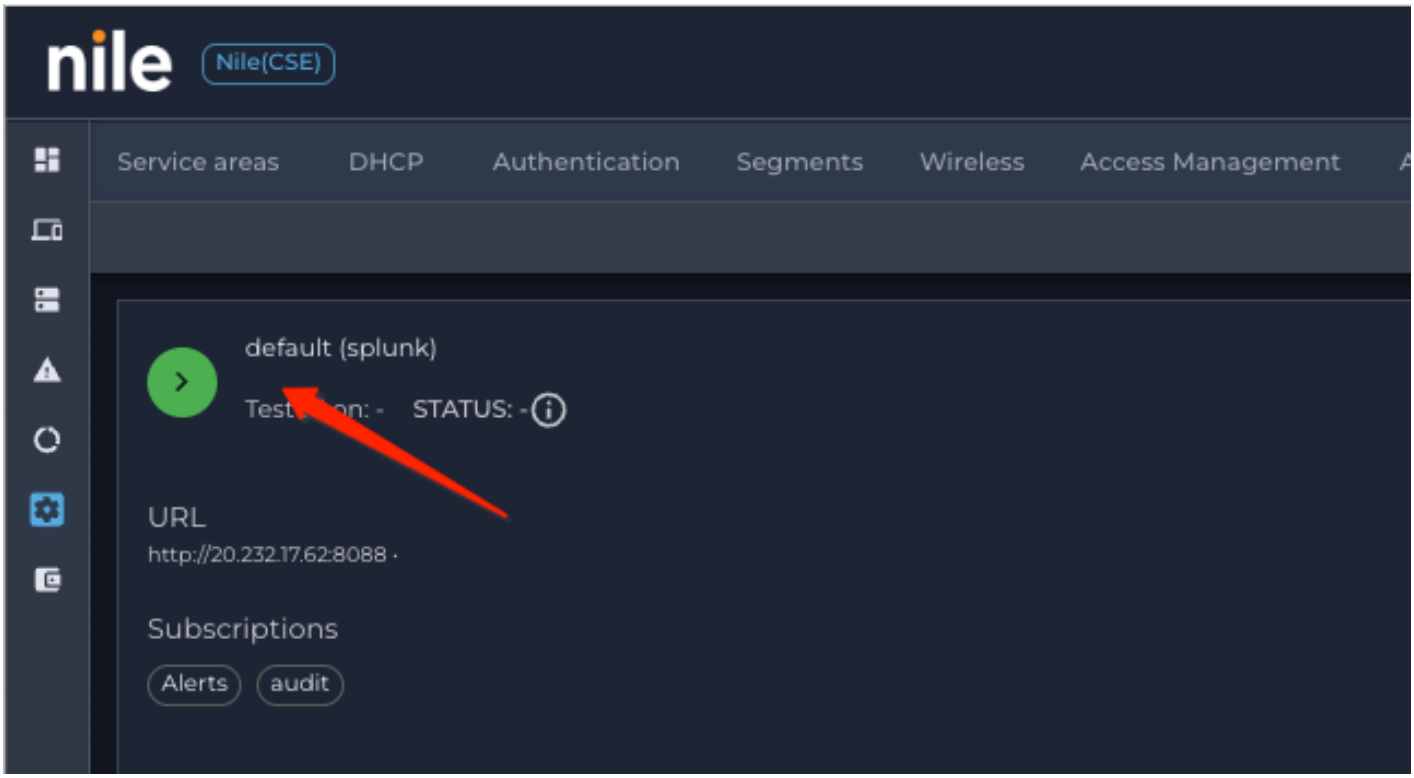
- Click the **Next** button

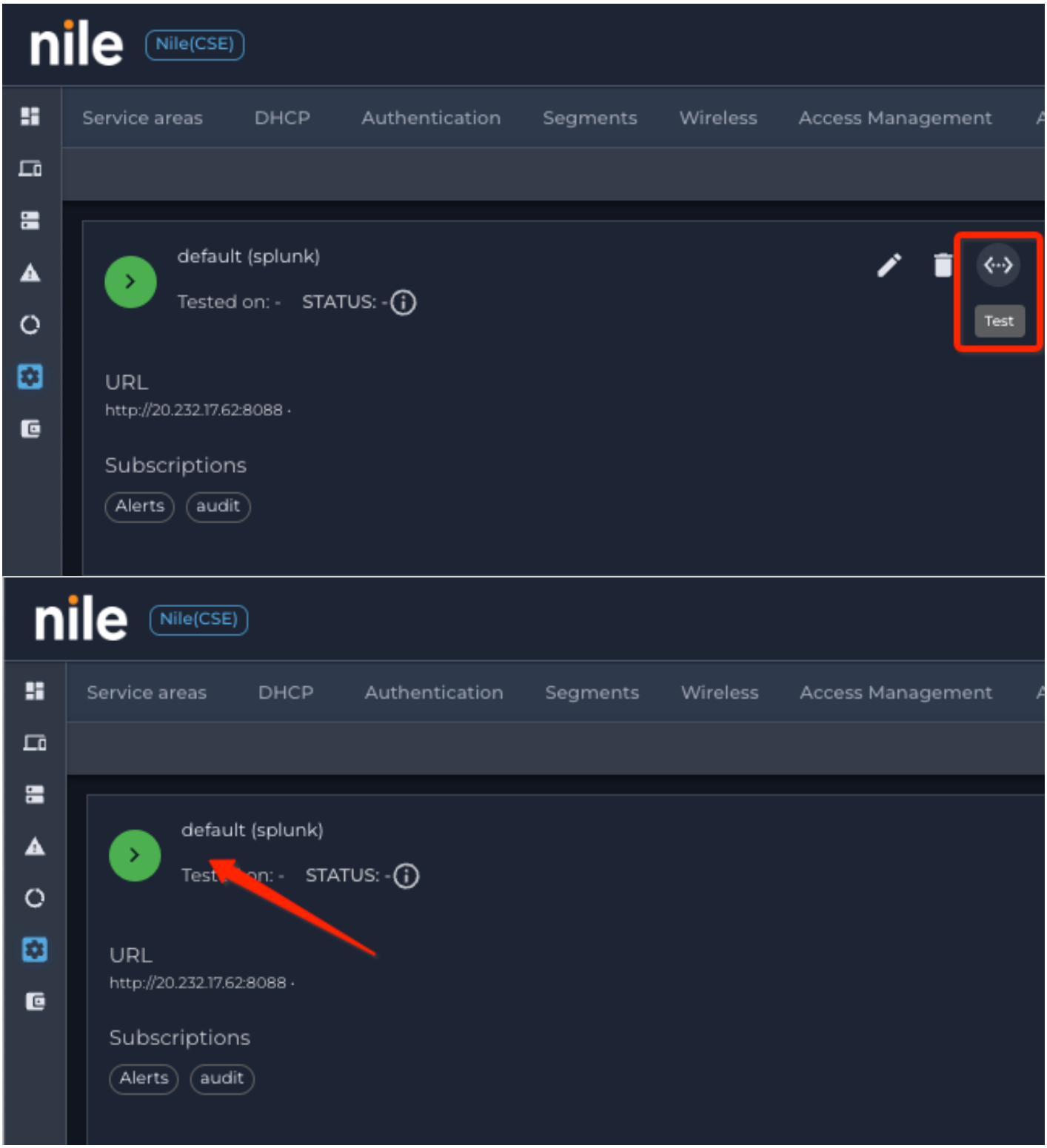


Select, by clicking on the checkboxes, if Audit, User Device Events, and/or Alerts need to be sent to Splunk

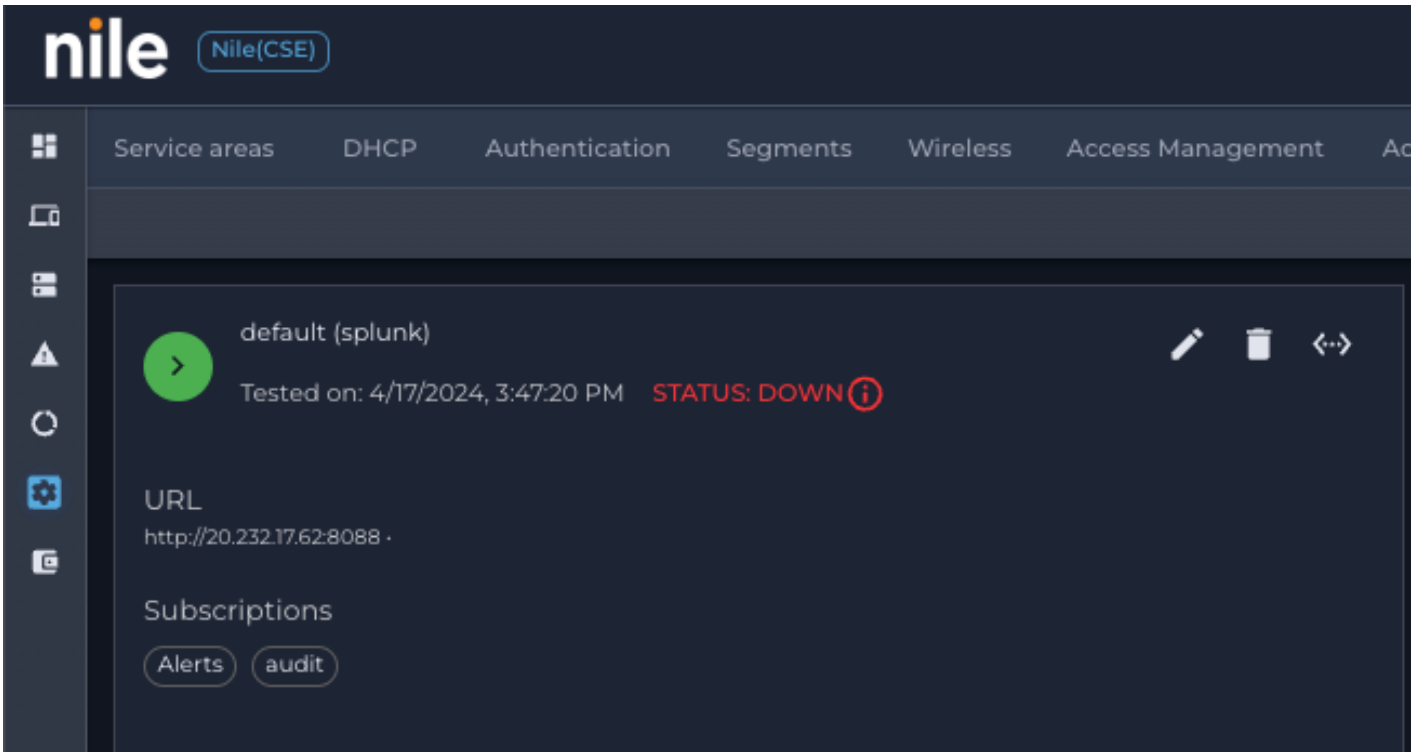


- Click the **Save** button to save the settings.
  Click on **Splunk,** then click on ?, to test the connection





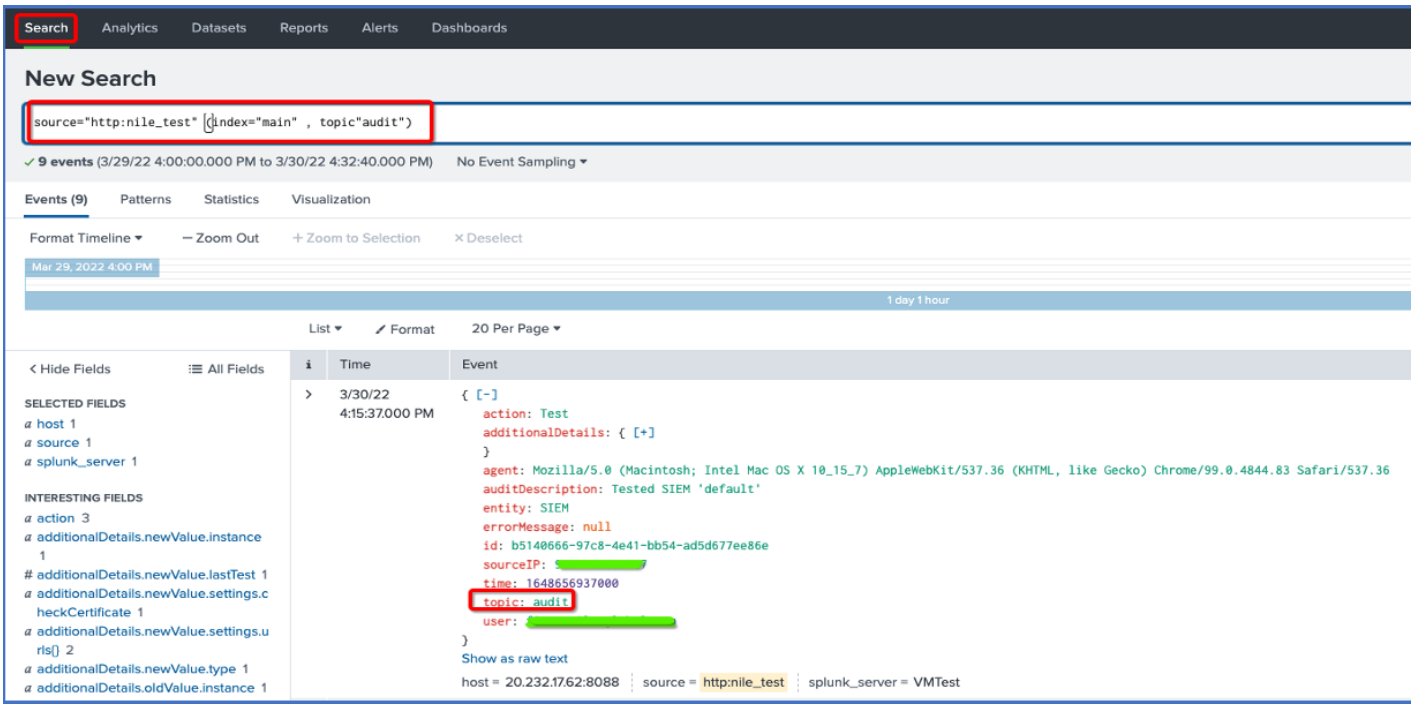
- If the test is successful, the collector status will change to UP (Green). if it fails it will show up as DOWN (red)



- To modify Splunk URL or Token, click on (pen); to delete Splunk integration, click on (trash)

Verify Nile Events under Splunk Search and Report:

- Login to Splunk instance as administrator.
- In the top menu, click on **Search** element
  Use the HEC name as a source,
  the index name for the specific index, and
  the filter for searching for specific data.For this example, the HEC name is “nile_test”, the index name is “main”, and the filter is:
  source=”http:nile_test” (index=”main”)



Use a topic name to display only audits or user device events

Examples:
source=”http:nile_test” (index=”main” , topic”audit”)
source=”http:nile_test” (index=”main” , topic”userdeviceevents”)