PROCESS MANUAL

Document Code: PM-SPI

Splunk Integration

Send Auditlog data to your Splunk setup.

FastTrack Software

Admin By Request

Table of Contents

Introduction

Splunk is a tool that makes complex data much easier to understand and utilize by collecting, analyzing, and storing it in a structured format, which can then be indexed and searched easily.

We've created an integration which allows you to get Admin By Request Auditlog data sent to your Splunk environment using Splunk's HTTP Event Collection (HEC) functionality combined with Admin By Request webhooks.

This manual provides a step-by-step guide on how to configure the above and make better use of valuable security data collected by Admin By Request.

Assumptions / Limitations

The tasks described in this manual assume that the user has access to Splunk, the Admin By Request User Portal, and some familiarity with both environments.

Breakdown of Tasks

Three tasks are covered in this manual:

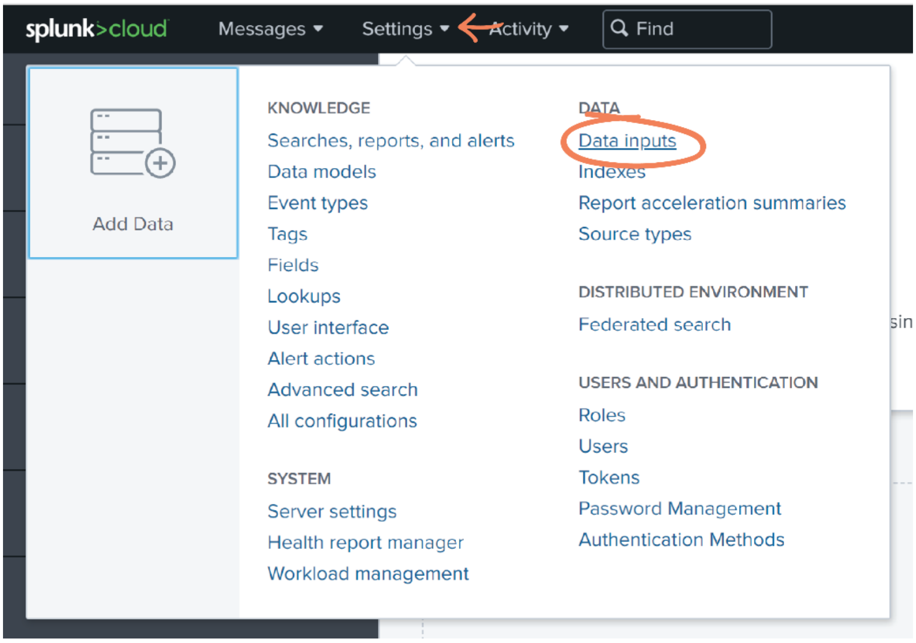
1. Task A: Set Up Splunk HEC Channel
2. Task B: Define Webhook
3. Task C: Receive Events

Integration Tasks

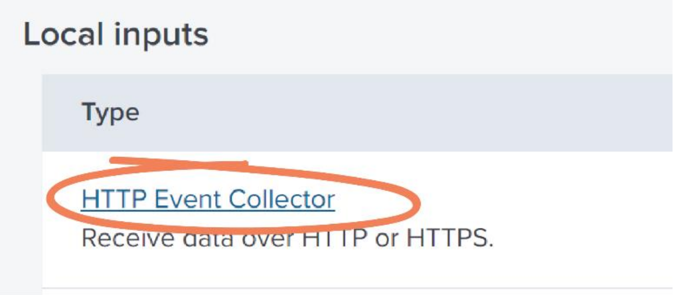
Task A: Set Up a Splunk HEC Channel

HEC is essentially an HTTP endpoint for your Splunk instance with an authorization token, which allows you to send data into Splunk.

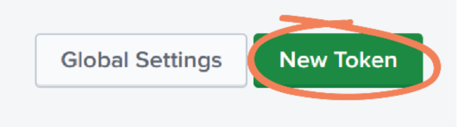
1. In your Splunk instance, navigate to **Settings** > **Data inputs**:



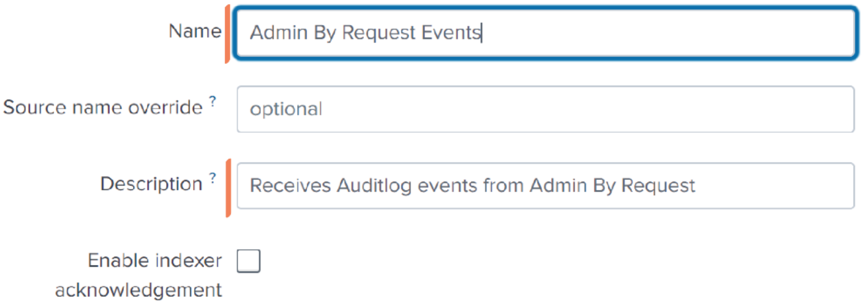
2. Select **HTTP Event Collector** from the list of *Local inputs*.



3. Click the **New Token** button from the top-right corner:



4. Enter a **Name** and **Description** as desired:



Name: Admin By Request Events

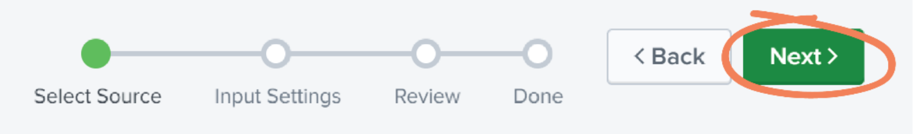
Source name override ?: optional

Description ?: Receives Auditlog events from Admin By Request

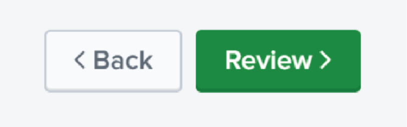
Enable indexer acknowledgement □

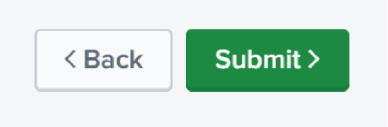
NOTE: In this example, our Token is called *Admin By Request Events* and the Description reads: *Receives Auditlog data from Admin By Request*.

5. Click **Next** and continue with the setup as appropriate for your organization:

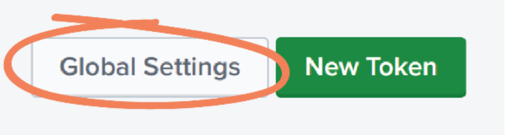


6. Click **Review**, then **Submit**:

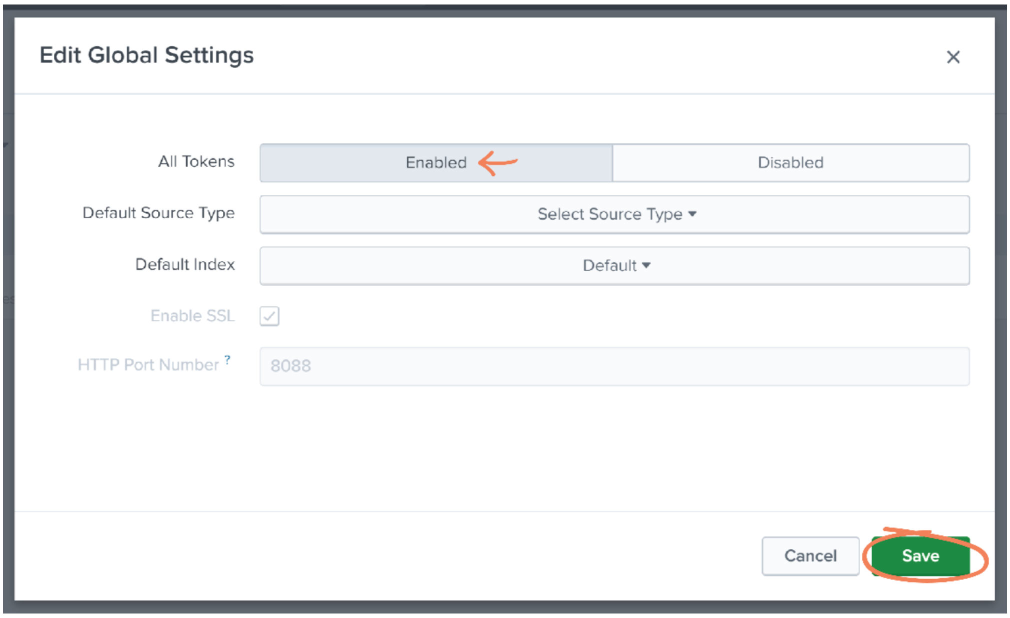




7. Navigate back to the *HTTP Event Collector* page (**Settings** > **Data inputs** > **HTTP Event Collector**) and select the **Global Settings** button at the top-right of the page:



8. Ensure the *All Tokens* option is set to **Enabled**, and click **Save**:



Edit Global Settings

All Tokens: Enabled | Disabled

Default Source Type: Select Source Type

Default Index: Default

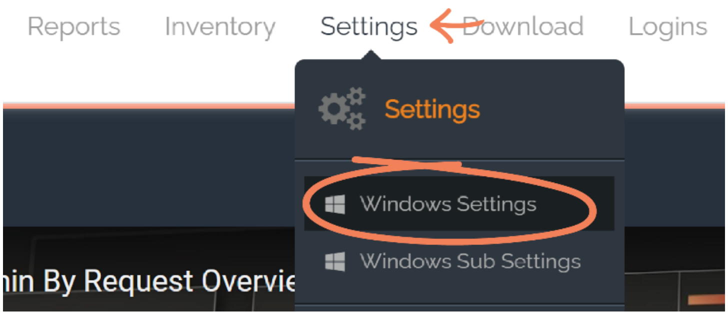
Enable SSL ☑

HTTP Port Number ?: 8088

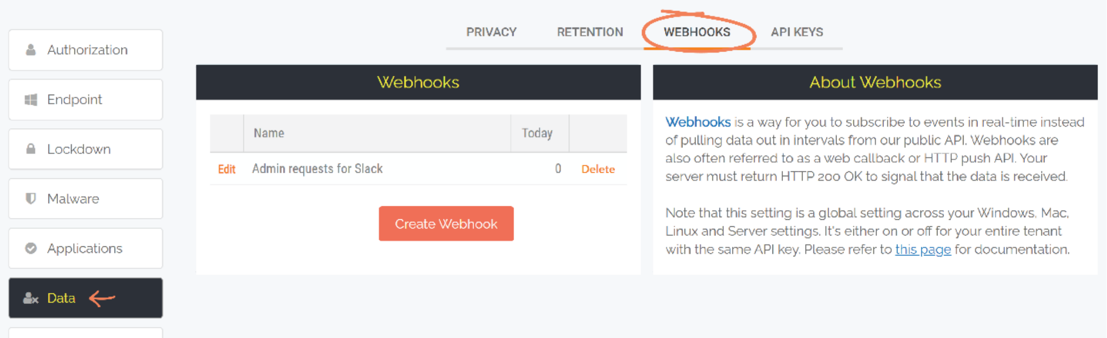
Task B: Define Webhook

With Admin By Request webhooks (also referred to as a web callback or HTTP push API) you can subscribe to events in real-time instead of pulling data out in intervals.

1. In your Admin By Request User Portal, navigate to **Settings** > **Windows Settings**:



2. From the left-hand menu, select **Data**, and then **Webhooks** from the top tab menu:



Webhooks

	Name	Today	
Edit	Admin requests for Slack	0	Delete

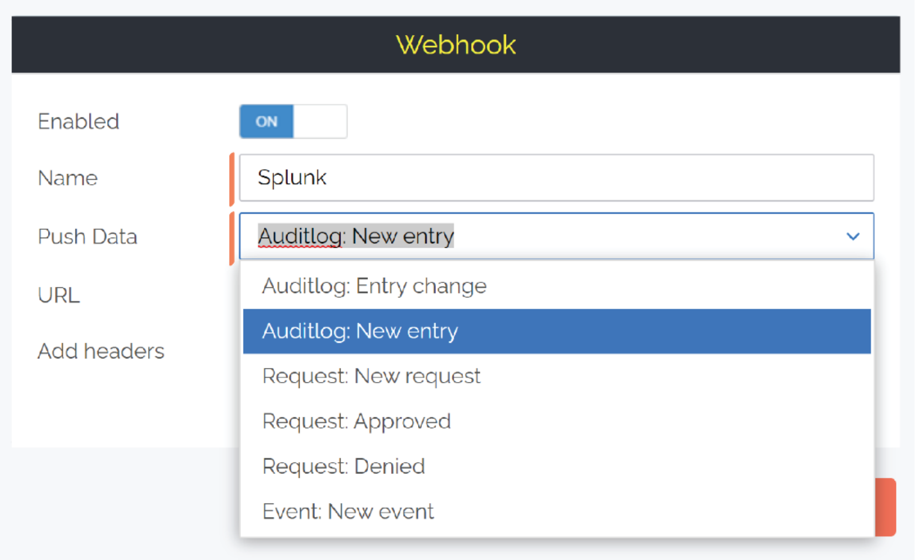
About Webhooks

Webhooks is a way for you to subscribe to events in real-time instead of pulling data out in intervals from our public API. Webhooks are also often referred to as a web callback or HTTP push API. Your server must return HTTP 200 OK to signal that the data is received.

Note that this setting is a global setting across your Windows, Mac, Linux and Server settings. It's either on or off for your entire tenant with the same API key. Please refer to this page for documentation.

3. Select the **Create Webhook** button:

4. **Name** the new webhook (in this example, *Splunk*), and rom the *Push Data* drop-down menu, select **Auditlog: new entry**:



Webhook

Enabled ON

Name Splunk

Push Data Auditlog: New entry

URL

Add headers

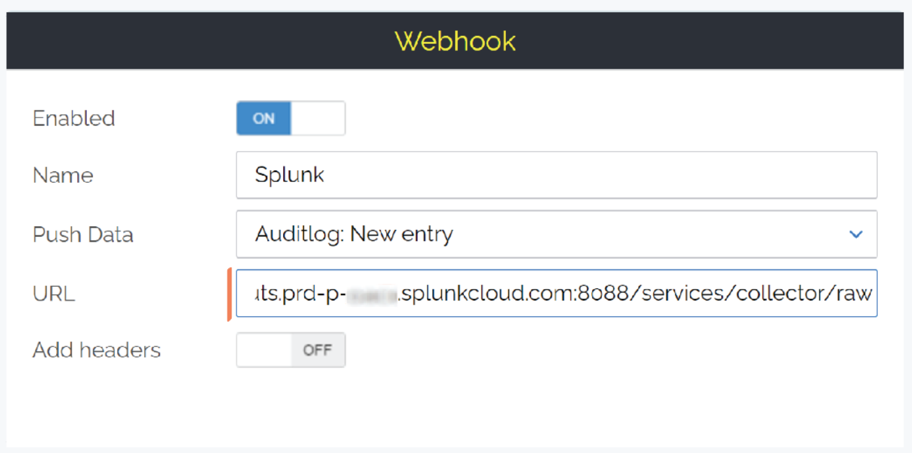
5. In the URL field, a string of the following format is required:

    - *https://inputs.prd-p-**[Your Splunk ID]**.splunkcloud.com:8088/services/collector/raw*

    So, if your Splunk URL is *https://prd-p-xxxxx.splunkcloud.com*, then your HEC URL would be:

    - *https://inputs.prd-p-xxxxx.splunkcloud.com:8088/services/collector/raw*

    IMPORTANT: Be aware that this may vary based on your Splunk settings. If in doubt, consult with your Splunk representative to ensure that you use the correct publicly available HEC endpoint for your Splunk solution.



Webhook

Enabled: ON

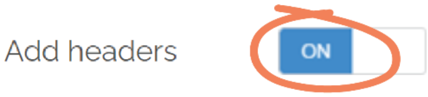
Name: Splunk

Push Data: Auditlog: New entry

URL: ıts.prd-p-[redacted].splunkcloud.com:8088/services/collector/raw

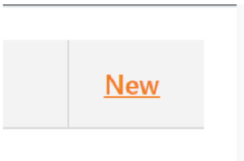
Add headers: OFF

6. Set the *Add headers* toggle to **ON**:

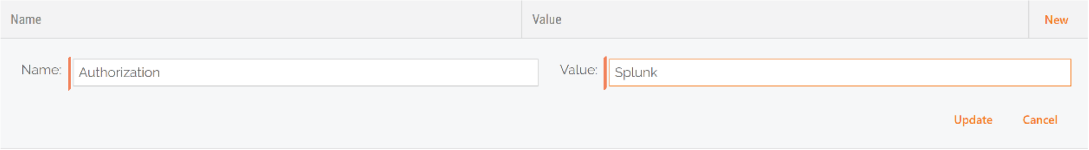


Add headers: ON

7. Select **New**:

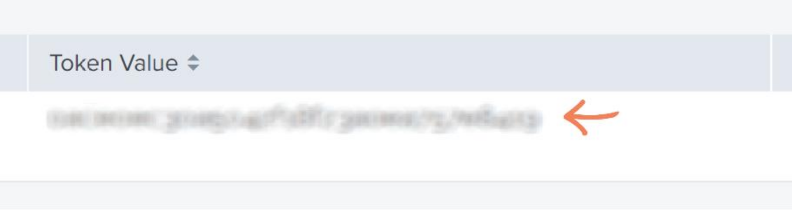


8. In the **Name** field, type *Authorization*, and in the **Value** field, *Splunk*.



Name	Value	New
Name: Authorization	Value: Splunk	

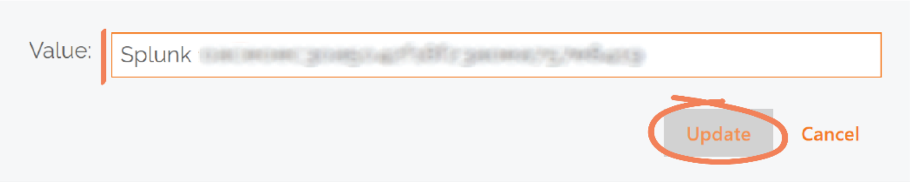
9. Navigate back to your Splunk instance and highlight and copy the **Token Value** provided in the HTTP Event Collector created in Task A:



Token Value ⬍
[redacted]

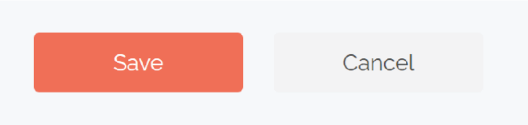
NOTE: The **Token Value** has been blurred out in the above example.

10. Navigate back to your new Header in the Admin By Request User Portal, paste the copied **Token Value** next to *Splunk* in the *Value* field, and click **Update**:

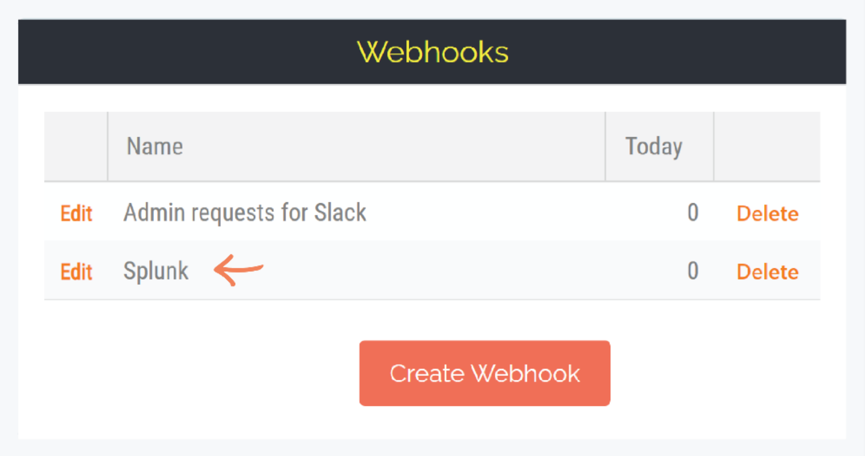


Value: Splunk [redacted]

11. **Save** the new webhook:



NOTE: The new Splunk webhook is now listed in the Webhooks section:



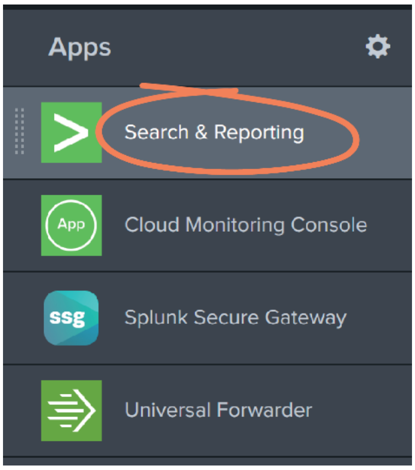
Webhooks

	Name	Today	
Edit	Admin requests for Slack	0	Delete
Edit	Splunk	0	Delete

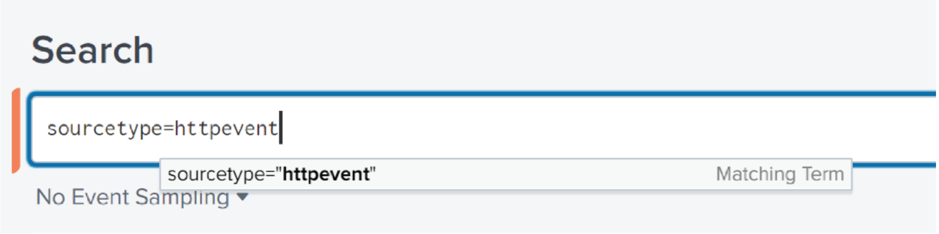
Task C: Receive Events

Auditlog events, such as Requests for elevated access, are now sent to the HEC endpoint.

1. Navigate to Splunk home and select **Search & Reporting** from the left-hand menu:



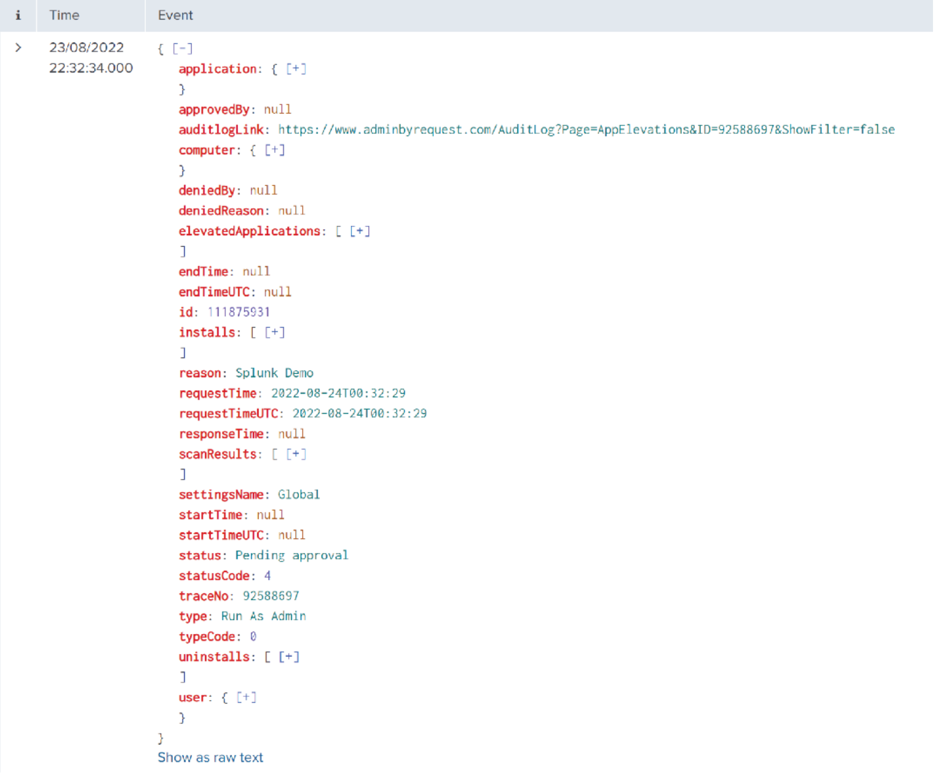
2. Use the *Search* field to search for http events:



```
sourcetype=httpevent
```

```
sourcetype="httpevent"
```

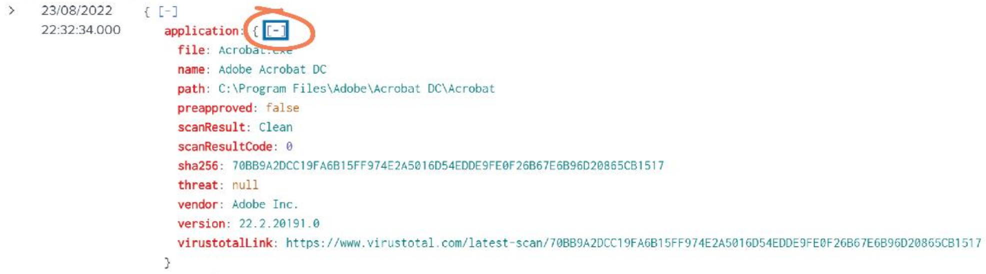
3. Recent Admin By Request events are detailed here. In this example, we see a Request to run Adobe Acrobat DC as Admin, displaying details on *application*, *computer*, *reason* (for request), *scanResults*, and *user*.



Time	Event
23/08/2022 22:32:34.000	

```
{ [-]
   application: { [+]
   }
   approvedBy: null
   auditlogLink: https://www.adminbyrequest.com/AuditLog?Page=AppElevations&ID=92588697&ShowFilter=false
   computer: { [+]
   }
   deniedBy: null
   deniedReason: null
   elevatedApplications: [ [+]
   ]
   endTime: null
   endTimeUTC: null
   id: 111875931
   installs: [ [+]
   ]
   reason: Splunk Demo
   requestTime: 2022-08-24T00:32:29
   requestTimeUTC: 2022-08-24T00:32:29
   responseTime: null
   scanResults: [ [+]
   ]
   settingsName: Global
   startTime: null
   startTimeUTC: null
   status: Pending approval
   statusCode: 4
   traceNo: 92588697
   type: Run As Admin
   typeCode: 0
   uninstalls: [ [+]
   ]
   user: { [+]
   }
}
```

NOTE: Use the **+** (plus) icon to expand key sections and display more information on each:



```
>   23/08/2022      { [-]
    22:32:34.000      application: { [-]
                        file: Acrobat.exe
                        name: Adobe Acrobat DC
                        path: C:\Program Files\Adobe\Acrobat DC\Acrobat
                        preapproved: false
                        scanResult: Clean
                        scanResultCode: 0
                        sha256: 70BB9A2DCC19FA6B15FF974E2A5016D54EDDE9FE0F26B67E6B96D20865CB1517
                        threat: null
                        vendor: Adobe Inc.
                        version: 22.2.20191.0
                        virustotalLink: https://www.virustotal.com/latest-scan/70BB9A2DCC19FA6B15FF974E2A5016D54EDDE9FE0F26B67E6B96D20865CB1517
                      }
```