

# **Saviynt Splunk Integration & Prerequisites**

<Client>
KPMG Build

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<Client> Document Control

# **1 Document Control**

## 1.1 Document Review & Feedback

An updated version of this document has been created and will be reviewed by the team members and stakeholders listed below. The feedback obtained from their review will be incorporated.

Manjunath Madiraju	07/27/2022	Architect	07/27/2022
Architect	Date	<title>&lt;/td&gt;&lt;td&gt;Date&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;th&gt;&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Security Architect&lt;/td&gt;&lt;td&gt;Date&lt;/td&gt;&lt;td&gt;&lt;Title&gt;&lt;/td&gt;&lt;td&gt;Date&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;Title&gt;&lt;/td&gt;&lt;td&gt;Date&lt;/td&gt;&lt;td&gt;&lt;Title&gt;&lt;/td&gt;&lt;td&gt;Date&lt;/td&gt;&lt;/tr&gt;&lt;/tbody&gt;&lt;/table&gt;</title>	

## **1.2 Document Acceptance**

## **Representative Approvers**

By signing this document, you confirm that you have read, reviewed, and approved the contents of this deliverable.

AGREED TO AND ACCEPTED BY:	AGREED TO AND ACCEPTED BY:
Client Project Management	Vendor Project Management
By:	By:
Name:	Name:
Title:	Title:
Date:	Date:



<Client> Document Control

# **1.3 Modification History**

Change Date	Author	Version Modified	Description of Changes
July 27, 2022	Manjunath Madiraju	1.0	Initial Creation



<Client> Document Purpose

# 2 Document Purpose

Enabling access to technology resources in a secure and efficient manner is at the core of a strong cyber security program. An organization must provide its workforce (employees, contractors and business partners) with the required access to securely enable business operations and collaboration. The purpose of this document is to provide Splunk Prerequisites for <Client>.



<Client> Introduction

## 3 Introduction

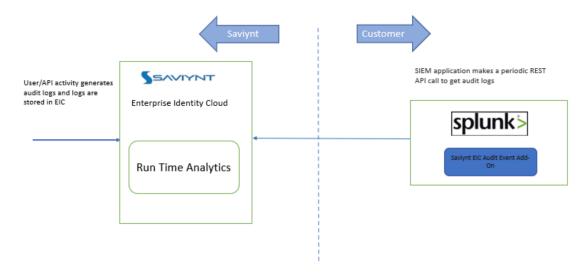
Saviynt Enterprise Identity Cloud (EIC) generates audit logs that records all actions performed by a user such as changes to SAV role, changes to global configurations, changes to connections. These audit logs include the following entries: OBJECT TYPE, OBJECT NAME, ACTION, ATTRIBUTE, ACCESS BY, ACCESS TIME, IP ADDRESS, and MESSAGE.

## 4 Splunk Architecture

Saviynt provides a REST API to allow the Splunk application to fetch audit logs.

Perform the following steps to fetch audit logs:

- 1. Setup up a runtime Analytics in Saviynt Enterprise Identity Cloud (EIC) to fetch the data using Saviynt REST API. For more information, see <a href="Creating an Analytics Record">Creating an Analytics Record</a>.
- 2. Setup an API user with appropriate permissions. For more information, see <u>Setup a User to Manage the SIEM Integration</u>.
- 3. Use the Splunk add-on to collect data from EIC and to feed the data to the Splunk application.



**Splunk Integration Architecture** 

## 4.1 Creating an Analytics Record (Saviynt Action)

Create a new runtime analytics control (V2) using an SQL Query. For more information, see <u>Analytics</u> <u>Control V2 using SQL query</u>. While creating an analytics control, copy the following query in the **Analytics Query** parameter.

select ua.TYPEOFACCESS as 'Object Type',ua.ActionType as 'Action Taken',u.username as 'Accessed By', ua.IPADDRESS as 'IP Address',ua.ACCESSTIME as 'Event Time',ua.DETAIL as 'Message' from users u , userlogin\_access ua, userlogins I where I.loginkey = ua.LOGINKEY and I.USERKEY = u.userkey and ua.AccessTime >= (NOW() - INTERVAL \${timeFrame} Minute) and ua.Detail is not NULL



## 4.2 Setting up Permissions (Saviynt Action)

Saviynt recommends that you create a dedicated user with the least privileges required to call the Saviynt API and get audit logs. In EIC, you can associate a Role Admin SAV Role or a custom SAV Role to a user.

#### Perform the following steps to set up permissions:

- 1. Create a user ID, for example, siem-sid. For more information on creating users, see <u>Creating Users</u>. For more information on changing the password of the user, see <u>Managing Users</u>.
- 2. Create an SAV Role, for example, ROLE\_SIEM.
- 3. Assign SAV Role permissions.
  - 1. Assign the SAV Role the permission to access the web service URL of the API. For more information, see <a href="Creating SAV Roles Web Service Access">Creating SAV Roles Web Service Access</a>.
  - 2. Assign the SAV Role the permission to verify the analytics record that you created. For more information, see <a href="Creating SAV Roles Analytics"><u>Creating SAV Roles Analytics</u></a>.
- 4. Add the SAV Role to the user. For more information, see <a href="Creating SAV Roles Users"><u>Creating SAV Roles Users</u></a>.

**Note:** If you want to associate a Role Admin SAV Role to a user, you have to only add the SAV Role to the user while creating the SAV Role. You need not perform steps 3a and 3b listed above.

## 4.3 Invoke the Saviynt API (Splunk Action)

EIC maintains an audit log of all security activities performed by a user within the identity warehouse of EIC. You can send these logs from EIC to your SIEM application using the Saviynt REST API.

### Perform the following steps to create a REST-based integration with the SIEM application:

Invoke the authentication API to get the authorization token to make a REST API call.

Method: POST

Endpoint: {{url}}/ECM/api/login
Syntax used in the API URLs:

{{url}}/ECM/{{path}}/apiName

Example:

{{url}} - https://example.saviyntcloud.com

{{path}} - Use api/v5 for EIC v5.2 onwards. Use api for older versions of EIC.

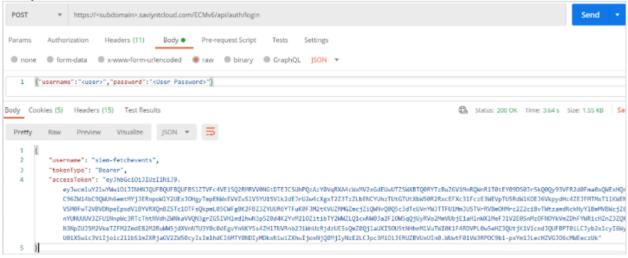
Body:

{"username":"admin","password":"password"}



For more information about the request and response details, see API document.

Sample screenshot taken from the Postman tool:



1. Invoke the fetchRuntimeControlsDataV2 API to fetch data.

```
Method: POST
Endpoint: {{url}}/ECM/{{path}}/fetchRuntimeControlsDataV2
Body:
{
    "analyticsname": "<Analytics Name>",
    "attributes": {
        "timeframe": "<INTERVAL in minutes>"
     }
}
```

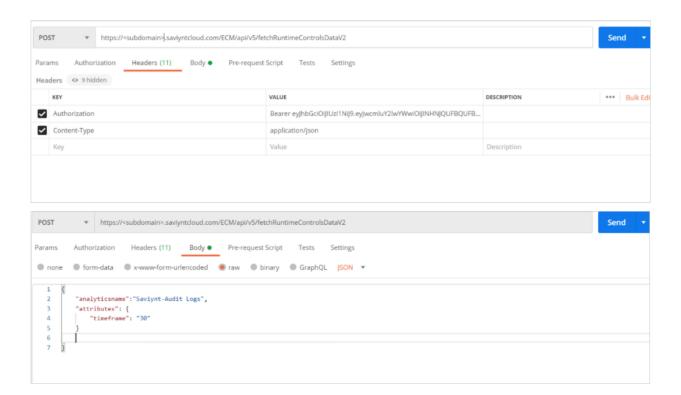
Ensure that you add the following in the body of the API:

Variable	Details
analyticsname	Specify the name of analytic control created in <u>Step 1</u> .
timeframe	Specify a timeframe in minutes to schedule the API at regular intervals.  Note: Saviynt recommends that this timeframe must neither be lesser than 15 minutes nor greater

For more information about the request and response details, see API document.

#### Sample screenshot taken from the Postman tool:





# 5 Splunk Prerequisites (Splunk Action)

#### **Supported Software Versions**

Software	Version
EIC	Release v5 and later

#### **Setting up Saviynt Add-on for Data Collection**

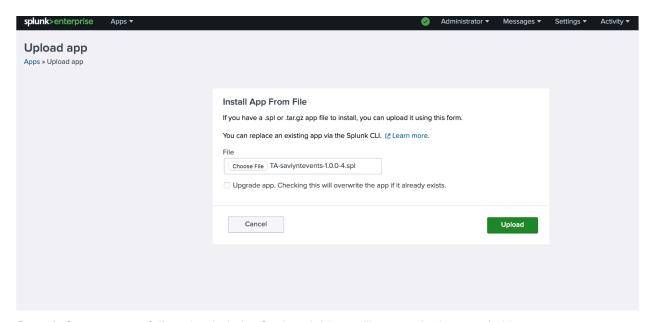
This section describes the steps required to install and configure the Saviynt EIC add-on for Splunk to extract audit logs from EIC.

- **Step 1**: Download the Splunk EIC Add-on.
- Step 2: Login to Splunk Enterprise with Admin privileges.
- Step 3: Go to Apps and Select Install app from file



Step 3: Select the file downloaded in Step 1 and upload

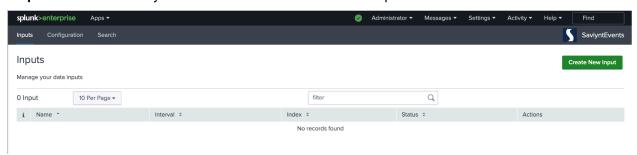




Step 4: Once successfully uploaded, the Saviynt Add-on will appear in the apps/add-on.



Step 5: Click on the SaviyntEvents Add-on and Create a New Input



Step 6: Add the configuration values specific to your Saviynt tenant and Splunk setup

Name: Name of the input

Interval - Time interval when this add-on will be

**Index** - Choose the appropriate index

**Saviynt Tenant** - The Saviynt tenant URI - https://<<Saviynt Tenant>> (without the forward slash / at the end)

**Username -** API user name that has the appropriate permissions to use the APIs and execute the runtime analytics. Refer to <u>documentation</u> for more details.

Password - API user credentials

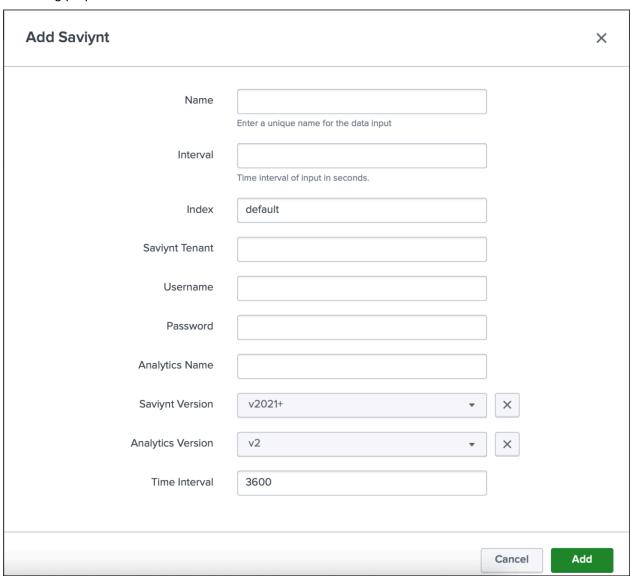
Analytics Name - Frequency to pull Audit Events from Saviynt (this is in seconds)

Saviynt Version - Select the version of your Saviynt tenant from drop down



## Analytics Version - Version of the RunTime Analytics used

**Time Interval** - This is the time interval in minutes when the Saviynt Analytics will collect the data, except for testing purposes set it same as Interval.

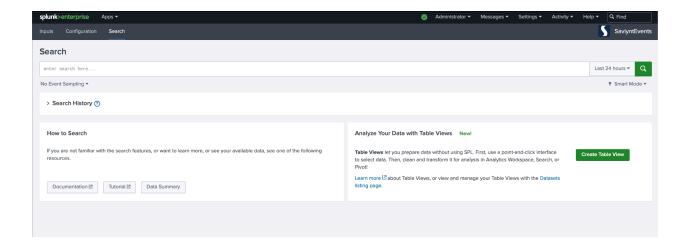


Step 7: Click Add to finish setting up the SaviyntEvents Add-on



Step 8: Validate by Searching for an event once the add-on has executed







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