

★ **Fusion Security: Using Sign In - Sign Out Audit REST API (Doc ID 2661308.1)**[To Bottom](#)**In this Document**[Goal](#)  
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Information in this document applies to any platform.

**GOAL**

Fusion Applications Release 13 Update 20A or higher offers **Sign In - Sign Out Audit REST API**, that can be used to track the last seven days of User Sign In and Sign Out activity by using industry standard RESTful architecture.

*REST API is an application programming interface that provides a simplified way to exchange data through HTTP requests from a client to the server.*

In this document we are providing the details on how to access the Audit REST API using a REST Client (*e.g. POSTMAN*) to interface with Fusion Application.

**SOLUTION**

Please follow the steps given below:

**Step #1: Enable Advanced Information section and grant access to the user on Users Page in Security Console**

Only Users with **Enable Administration Access for Sign In-Sign Out Audit REST API** value checked in the **Additional Information** section on the Users page can access the Sign In - Sign-Out Audit REST API.

**Advanced Information**

Enable Administration Access for Sign In-Sign Out Audit REST API

Here's how you enable the profile option:

1. In the Setup and Maintenance work area, open the task **Manage Administrator Profile Values**.
2. Search the following **Profile Option Code**:  
ASE\_ADVANCED\_USER\_MANAGEMENT\_SETTING
3. In the **Profile Value** drop-down list, select **Yes**.
4. Click Save and Close.

**Step #2: Access Sign In - Sign Out Audit REST API using REST Client**

Kindly download and install POSTMAN Rest Client from this website: <https://www.postman.com/downloads/>

**1. LOGIN\_URL:**

**OPC POD:** [https://POD\\_NAME.login.DATA\\_CENTER.oraclecloud.com](https://POD_NAME.login.DATA_CENTER.oraclecloud.com)

**OCI POD:** [https://login-POD\\_NAME-saasfaprod1.fa.ocs.oraclecloud.com](https://login-POD_NAME-saasfaprod1.fa.ocs.oraclecloud.com)

**FAaaS POD:** [https://login-POD\\_NAME.fa.ocs.oraclecloud.com](https://login-POD_NAME.fa.ocs.oraclecloud.com)

2. Open the Postman Application to access the API

**Document Details**

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**Document References**

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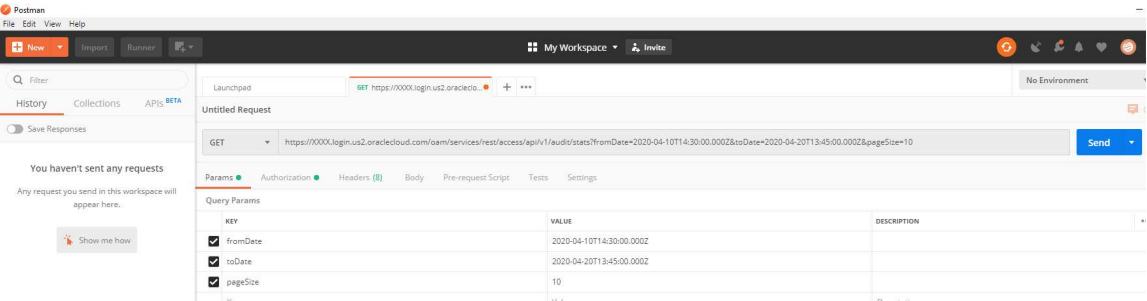
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3. How to construct a REST API Request

3.1 Use the Method named **GET**

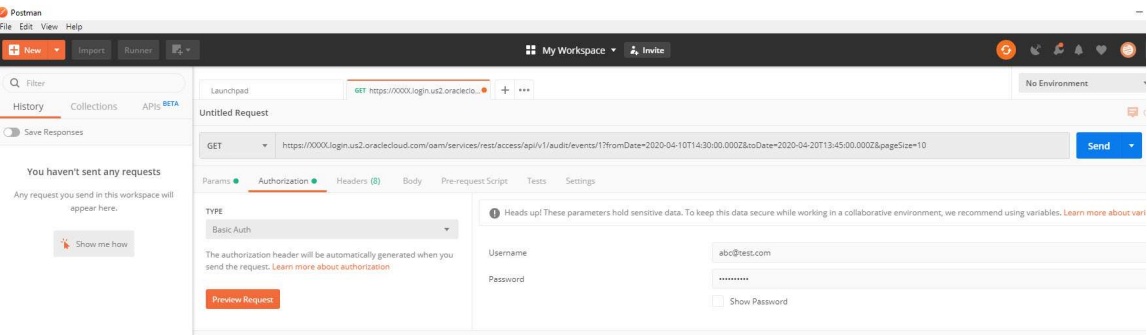
3.2 Use the URL in below format:

- a. Get total count of audit events: **<LOGIN\_URL>/oam/services/rest/access/api/v1/audit/stats**
- b. Get audit event details: **<LOGIN\_URL>/oam/services/rest/access/api/v1/audit/events/1**



3.3 On **Authorization** Tab, choose Type = **Basic Auth** and in **Username** and **Password**, enter your application username and password which you use to login to the application. *This user account must have the Enable Administration Access for Sign In-Sign Out Audit REST API option checked in the Security Console > Users - Advanced Information*

*NOTE: The Audit REST API only allows for Basic Authentication and does NOT support Token based (JWT/SAML/OAuth) authentication.*



4. Steps to invoke the Audit REST API

4.1 **Get total number of login/logout events:** Set the URI and Parameters to get the total number of Sign In-Sign Out events for a particular period of time and click on **Send** button

Request URI:  
`https://<LOGIN_URL>/oam/services/rest/access/api/v1/audit/stats`

Parameters:

ddTHH:mm:ssZ)

Key/Name : **fromDate**      Value : **2020-04-01T10:00:00.000Z**    (Date Time in UTC format yyyy-MM-ddTHH:mm:ssZ)

Key/Name : **toDate**        Value : **2020-04-02T10:00:00.000Z**    (Date Time in UTC format yyyy-MM-ddTHH:mm:ssZ)

GET

https://POD\_NAME.login.us2.oraclecloud.com/oam/services/rest/access/api/v1/al...

Send

Query Params

	KEY	VALUE	DESCRIPTION
<input checked="" type="checkbox"/>	fromDate	2020-04-01T10:00:00.000Z	
<input checked="" type="checkbox"/>	toDate	2020-04-02T10:00:00.000Z	
	Key	Value	Description

BodyCookies (7)Headers (13)Test ResultsStatus: 200 OKTime: 762 msSize: 558 BSav

PrettyRawPreviewVisualizeXML

1

<?xml version="1.0" encoding="UTF-8" standalone="yes"?>

2

<Stats>

3

<count>3</count>

4

</Stats>

4.2 **Get Event Details:** Set the URI and Parameters to get the details of the Sign In-Sign Out events and click on **Send** button

Request URI:

https://<LOGIN\_URL>/oam/services/rest/access/api/v1/audit/events/1

Parameters:

MM-ddTHH:mm:ssZ

Key/Name : **fromDate**

Value : **2020-04-01T10:00:00.000Z**

(Date Time in UTC format yyyy-MM-ddTHH:mm:ssZ)

MM-ddTHH:mm:ssZ

Key/Name : **toDate**

Value : **2020-04-02T10:00:00.000Z**

(Date Time in UTC format yyyy-MM-ddTHH:mm:ssZ)

Key/Name : **pageSize**

Value : **3**

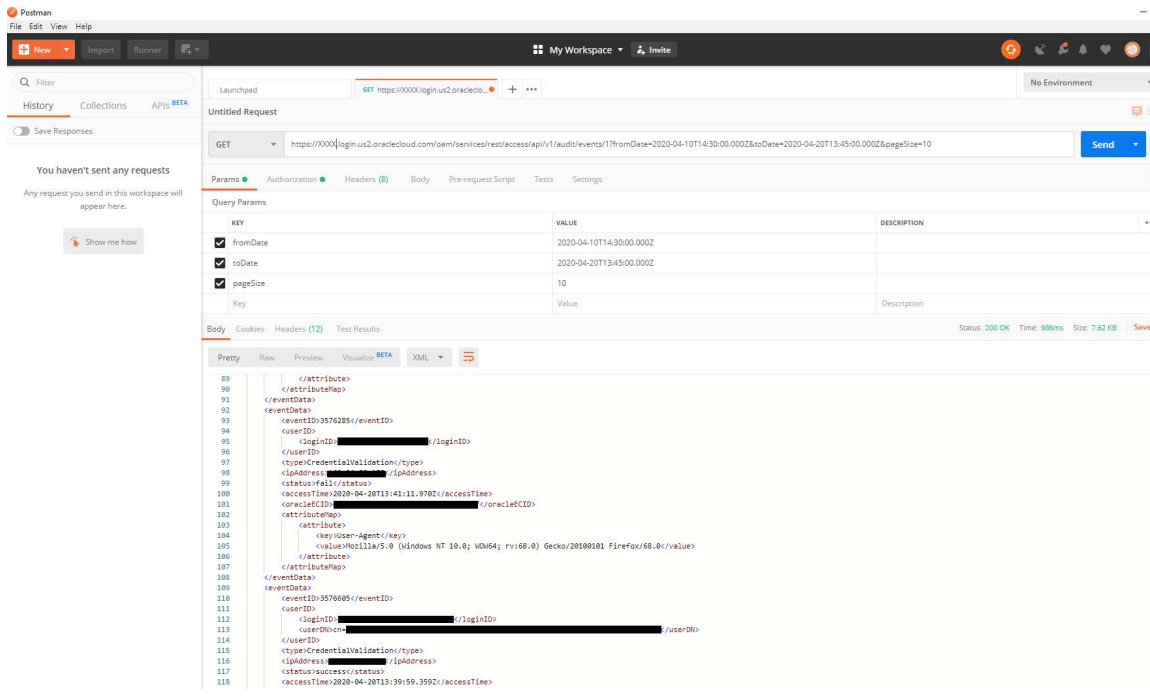
(Value of the **count** attribute from the /stats API response shown above)

NOTE: **pageSize** parameter can be set based on the total count that is retrieved by the **/stats** API  
e.g. if the /stats API returned a total count of 500 events then you can retrieve the event details by using the logic below:

**Total Event Count: 500**  
**pageSize: 100**  
**Number of pages: Total Event count/ pageSize i.e. 500/100 = 5 pages**

You will have to invoke the Events API 5 times by incrementing the page number value:

- Page #1: https://<LOGIN\_URL>/oam/services/rest/access/api/v1/audit/events/1
- Page #2: https://<LOGIN\_URL>/oam/services/rest/access/api/v1/audit/events/2
- Page #3: https://<LOGIN\_URL>/oam/services/rest/access/api/v1/audit/events/3
- Page #4: https://<LOGIN\_URL>/oam/services/rest/access/api/v1/audit/events/4
- Page #5: https://<LOGIN\_URL>/oam/services/rest/access/api/v1/audit/events/5



**NOTE:** This does NOT trace login through REST APIs and WebServices Calls. Audit Data is stored for past 7 days only. To maintain an audit history it is recommended to invoke and store the Audit REST API output on a weekly basis. The response XML can be saved in an Excel format.

**Login** – User needs to provide valid credentials on the login page and land on the home page.

**Logout** – User needs to explicitly initiate and complete the logout task which includes confirmation page.

**NOTE:** Audit is tracked only when user session is created or destroyed by user intervention. Hence SSO devoid of login(i.e. active user session) & Logout without confirmation are NOT valid events. Further session expiry, idle timeout and abrupt close of browser window are NOT eligible to be audited.

Here is a detailed description on how to interpret the XML attributes returned by the Sign In - Sign On Audit REST API:

Attribute Name	Description
eventID	Unique system generated identifier for a sign in/ signout event
loginID	Login Name/ User ID of the end user
userDN	User Distinguished Name as stored in the Oracle LDAP server
type	Only 2 Event Types are recorded: <ul style="list-style-type: none"> <li>CredentialValidation</li> <li>Logout</li> </ul>
ipAddress	Public IP Address of the end user's device (e.g. phone, computer)
status	Status of the event can be either 'success' or 'fail' <i>e.g. when type = CredentialValidation and status = success then it means user was lo</i>
accessTime	Date and Time in UTC format
oracleECID	Oracle Execution Context ID is a system generated number for Oracle internal process
key	'User-Agent' HTTP header
value	Value of the "User-Agent" HTTP header that indicates the device used to login to Fusio

e.g. value = Mozilla/5.0 (Linux; Android 4.4.4; SM-T365 AppleWebKit/537.36 (KHTML Safari/537.36

indicates that Google Chrome browser version 81 on Android (KitKat) on Samsung Ga was used to login to Oracle Fusion.

NOTE: The User Agent string value can be parsed using the online tool: [https://developers.whatismybrowser.com/useragents/parse/?utm\\_source=whatismybrowsercom&utm\\_medium=internal&utm\\_campaign=breadcru](https://developers.whatismybrowser.com/useragents/parse/?utm_source=whatismybrowsercom&utm_medium=internal&utm_campaign=breadcru)

For more information on Sign In - Sign Out Audit REST API please refer the latest [Oracle documentation](#).

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Keywords

ADMINISTRATION; API; AUDIT; EVENT; LOGIN; OCI; REST; SECURITY; SIGN-OUT; XML

Translations

- English Source
- Japanese 日本語

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