

Splunk Integration Guide

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Overview

This document describes the integration of ObserveIT with Splunk software.

FEATURES

ObserveIT includes the following to collect and manage the data:

- ObserveIT Technology Add-on (ObserveIT TA): Connects Splunk to the ObserveIT RESTful API to continuously pull the latest user activity and alert events. ObserveIT TA pulls data from ObserveIT into Splunk as follows:
 - Subscribes to User Activity and/or Alert events
 - Polls events from multiple ObserveIT instances
- ObserveIT App for Splunk: Leverages the data collected by ObserveIT TA to provide full-featured User Activity and Alert dashboards. Direct session-playback links for each session from Splunk to the ObserveIT console bring instant deep analysis of user behavior to Splunk and includes:
 - Detailed summary of user sessions and alerts -drill down into individual user activities
 - Charts to highlight risky users and applications
 - Direct link to Session Player from all user activities and alerts

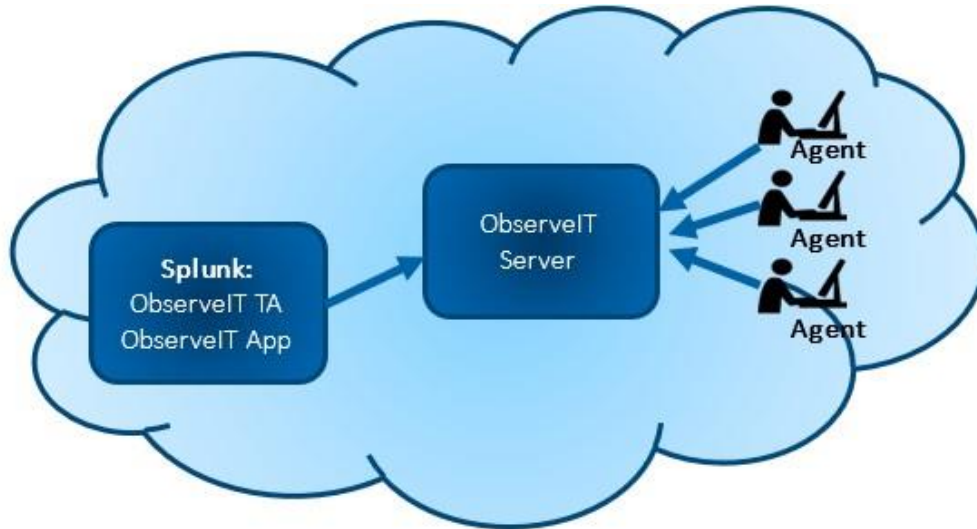
PREREQUISITES

- Download and install ObserveIT TA and ObserveIT App for Splunk from Splunkbase
- ObserveIT TA communicates with your ObserveIT API directly, typically on port 443
- ObserveIT (Minimum version: 7.6.2)
- Splunk (Minimum version: 6.5)

DEPLOYMENT ARCHITECTURE

Single-Instance Splunk Enterprise Deployment

Splunk is a simple non-distributed deployment on the same network as ObserveIT. ObserveIT TA and ObserveIT App are installed on the same node.

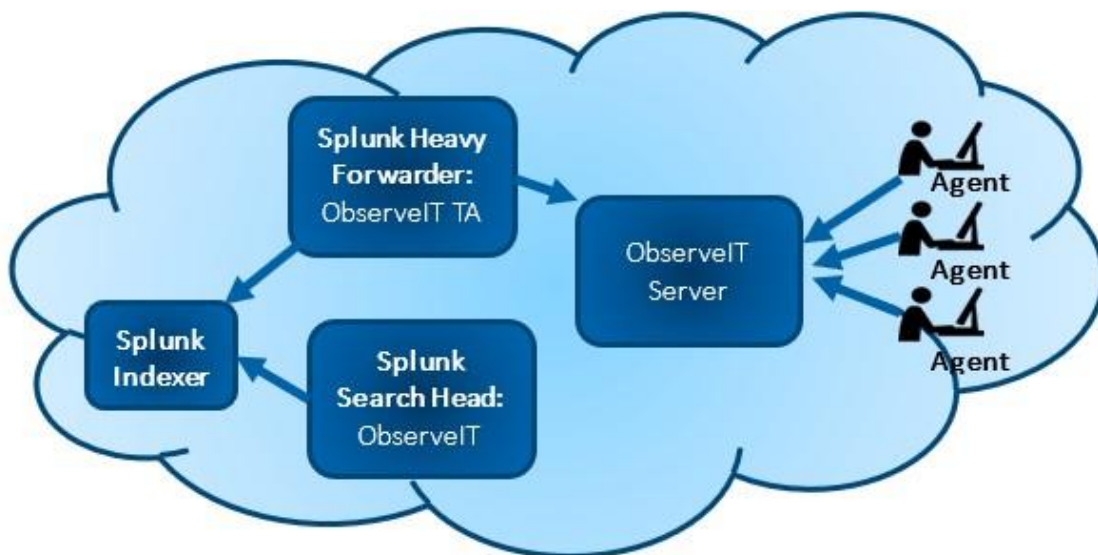


Distributed Splunk Enterprise Deployment

Splunk is a distributed deployment on the same network as ObserveIT.

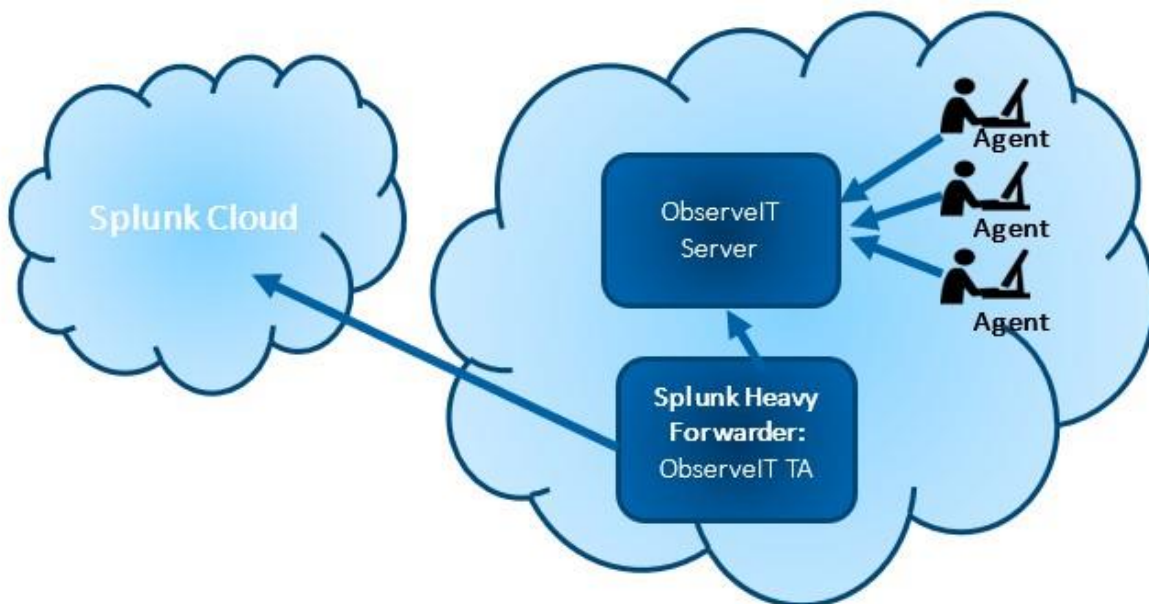
ObserveIT TA is installed on a Splunk heavy forwarder that sends data. (Installation of ObserveIT TA on a Universal Forwarder or SHC is not supported.)

The ObserveIT App is installed on the search heads that handles the search management functions.



Splunk Cloud Deployment

Splunk Cloud can be used to store and search for ObserveIT data. To forward the data to Splunk Cloud, ObserveIT TA is installed on a Splunk heavy forwarder on the same network as ObserveIT. The ObserveIT App is installed on Splunk Cloud.




Configuration

You configure ObserveIT TA to reach the ObserveIT REST API and retrieve report data.

CREATING APPLICATION IN OBSERVEIT

To integrate ObserveIT with Splunk using RESTful API, you register the application to authenticate access. OAuth2 is the method of authenticating access to the ObserveIT RESTful API.

This procedure describes how to generate a token that you use when you configure ObserveIT TA for Splunk.

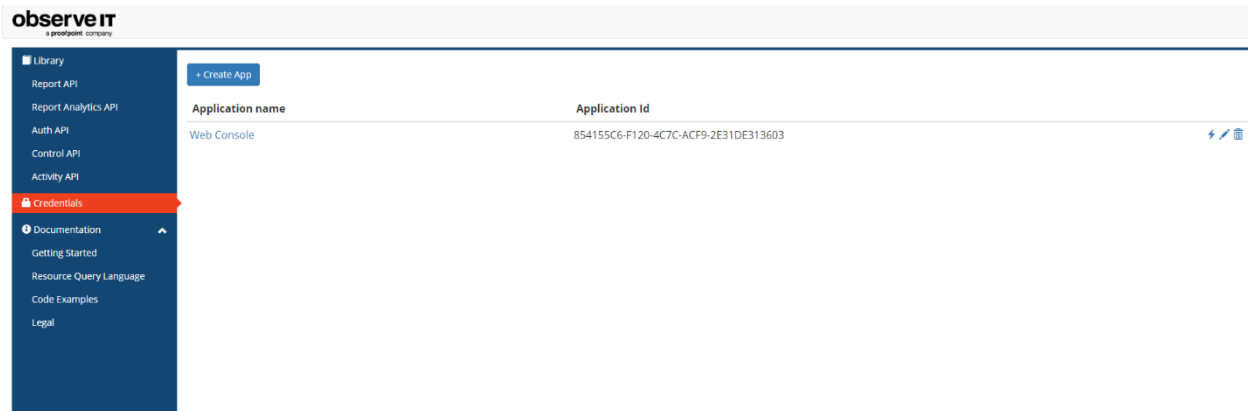
1. From the ObserveIT Web Console, click the  in the upper-right corner and select Developer Portal from the menu.

Notes:

If the Developer Portal is not installed by default, you will be prompted to install it.

If the Developer Portal fails to properly load, log out of the ObserveIT console and log back in with a local system account rather than an LDAP account.

2. From the Developer Portal, select Credentials and then click the Create App button.



The Create Application dialog box displays. This is where you register the application.

Create Application

Application Name

Splunk

Allowed Scopes separate by space for multiple scopes, example itreports*

*

Allowed Grants

- Client Credentials
- Password
- Authorization Code
- Refresh Token
- Implicit

Redirect URIs used for authorization_code and token(implicit) flows

Redirect URI

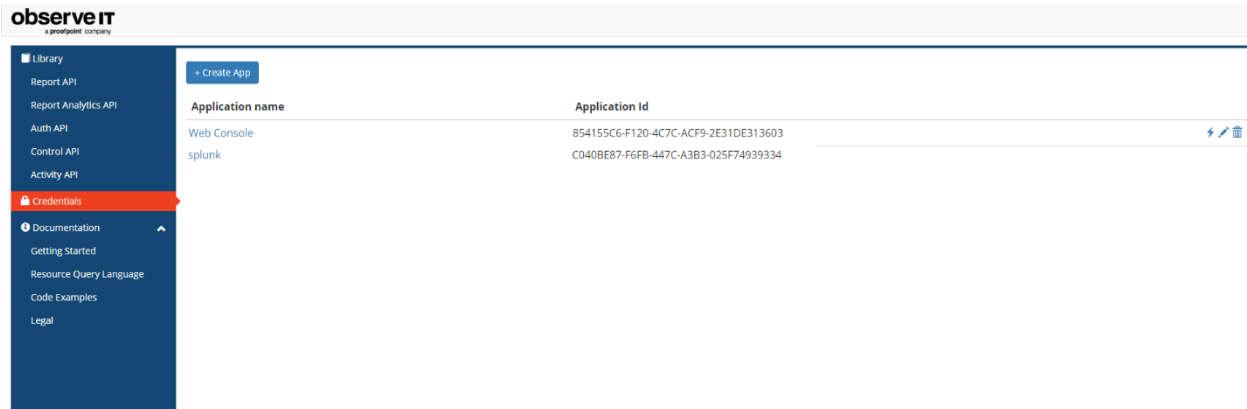
Redirect URI

Redirect URI

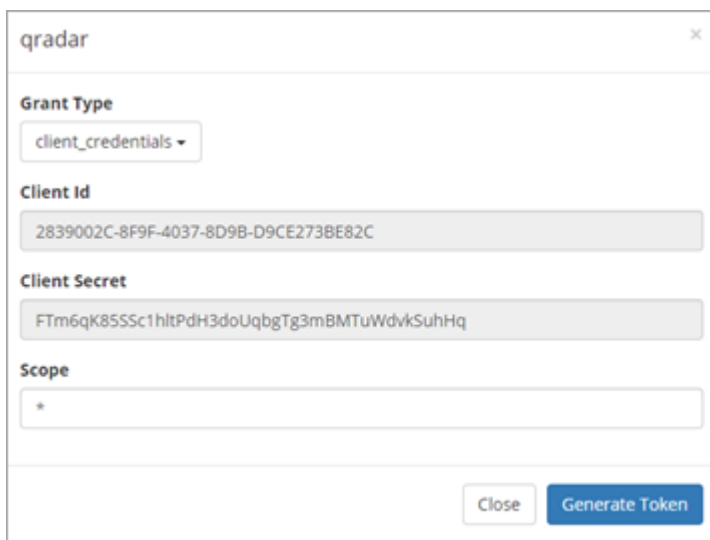
Cancel Save

3. Do the following:

- In the Application Name field, enter a name. It is recommended that you choose a name you can recognize, such as Splunk, Splunk1 etc.
- In Allowed Grants, check Client Credentials.
- Click Save and the application is added to the list.



4. Click the application you just created. The dialog box for generating a token displays.



Note the Client Id and Client Secret values. You will enter them into the configuration screen of the Splunk add-on. (See: [Configuring ObserveIT TA for Splunk.](#))

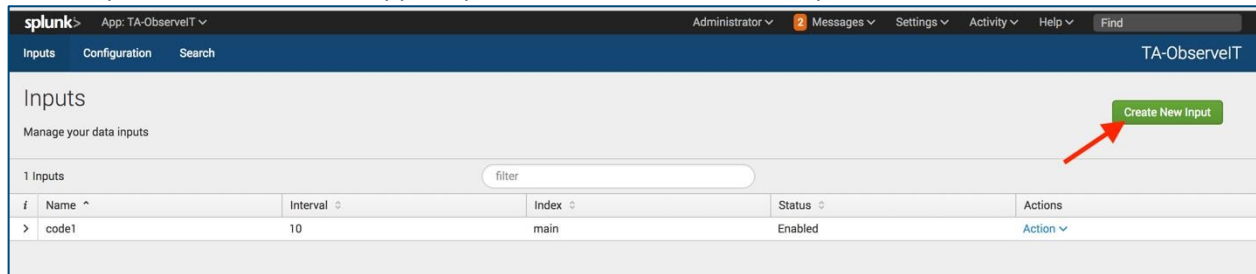
CONFIGURING OBSERVEIT TA FOR SPLUNK

This procedure describes the registration process in Splunk.

Your ObserveIT instance(s) need to be registered as the Splunk Technology Add-on (TA). The access token (with the Client ID and Client Secret you generated in the ObserveIT Developer Portal will be used to authenticate with the API.

Note: If you would like to store ObserveIT events in their own index, create it on the indexer before following these configuration steps.

1. Open the ObserveIT TA app in Splunk and click Create New Input.



2. Complete the Add ObserveIT API dialog box.

Update ObserveIT API

Name *
Enter a unique name for the data input

Interval *
Time interval of input in seconds.

Index *

Reports API URL *
API URL optionally including port. E.g.
https://observeit.mycompany.com:443/v2/apis/report;realm=observeit/reports

Client ID *
Create app in API Console. E.g. https://observeit.mycompany.com/v2/apps/portal/home.html?
#creds

Client Secret *

Historical Data To Pull
WARNING: Updating this value on an active input will result in data duplication.

Events Pagination *
Amount of events to index per input invocation

Reports To Collect * UI Activities Command Activities Alerts FileActivity

SSL Verification
Uncheck to bypass HTTPS SSL verification

- Enter a unique Name that represents the ObserveIT instance, for example use the hostname such as Splunk.
- In the Interval and Events Pagination fields, enter values you want. Make sure that their combination is sufficient to ingest your anticipated event rate.
- The Reports API URL is formatted as:
https://<hostname>:<port> /v2/apis/report;realm=observeit/reports
- In the Client ID and Client Secret, enter the values you copied when the application was created in ObserveIT. (See: Creating Application in O.)

- e. To include existing events on your system, in the Historical Data To Pull field, select the time period you want to go back to. Select None, if you want only new events to be loaded.
- f. Select Reports to Collect.

Choose the reports you want to load in Splunk:

- UI Activities: User interface activity events from Windows or Mac agents
- Command Activities: Commands run on UNIX agents
- Alerts: Alert events from all agents
- FileActivity: File Activity events from all agents

Currently ObserveIT does not support certificate verification for self-signed certificates or those signed by any CA not trusted by the Requests package in Splunk's Python environment. Requests sources their trust CA list from [Mozilla trust store](#).

If you are unable to assign your ObserveIT Web Console a trusted certificate, then uncheck the SSL Verification box.

Note: This is a less secure option and should not be used in production.

Usage

VIEWING EVENTS

You view events logged as soon as ObserveIT data collection is configured and enabled in the ObserveIT TA. You can start using the data in Splunk searches and reports.

i	Time	Event
>	6/6/18 5:43:18.446 PM	<pre> { [-] accessedSiteName: accessedUrl: null applicationName: Windows Shell Experience Host collectorId: C2C1C429-C002-4FB8-99F4-7F1005ED9889 collectorUrl: https://code1.preview.observeit.net// command: commandParams: createdAt: 2018-06-06T17:43:18.446Z domainName: code1.observeit.net endpointId: E035BBC2-1D72-48A0-ABBC-AA4DE0BC5AF1 endpointName: EC2AMAZ-18L6TVS id: 7330EB6D-A8BB-4F25-9408-2BD807FB7B13 loginName: Administrator observedAt: 2018-06-06T17:43:18.163Z os: Windows playbackUrl: https://code1.preview.observeit.net/ObserveIT//SlideViewer.aspx?SessionID=1A8B52A9-EDAC-4 A8BB-4F25-9408-2BD807FB7B13 processExecutable: shellexperiencehost remoteAddress: 127.0.0.1 remoteHostName: Michaels-MacBoo risingValue: 2018-06-06T17:43:18.446Z secondaryDomainName: n/a secondaryLoginName: n/a sessionId: 1A8B52A9-EDAC-448E-9871-79DB21D53C28 sessionUrl: https://code1.preview.observeit.net///v2/apis/activity/sessions/1A8B52A9-EDAC-448E-9871-79 timezoneOffset: 0 windowTitle: Start } </pre> <p>Show as raw text</p> <p>host = code1.preview.observeit.net source = observeit_api sourcetype = oit:useractivity</p>
>	6/6/18 5:43:18.446 PM	<pre> { [-] accessedSiteName: </pre>

DASHBOARDS

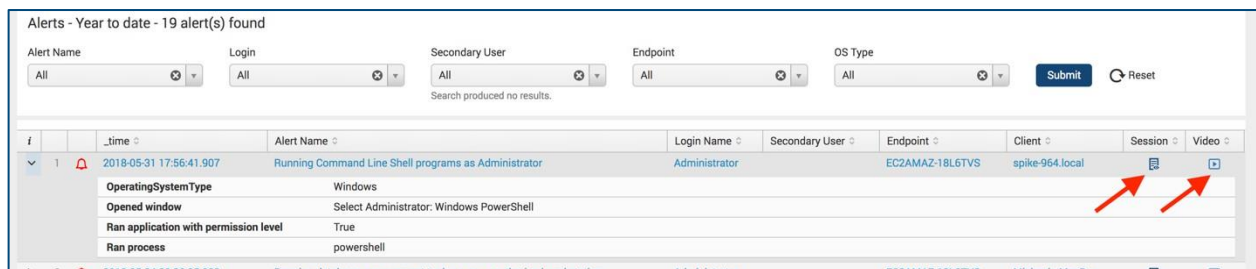
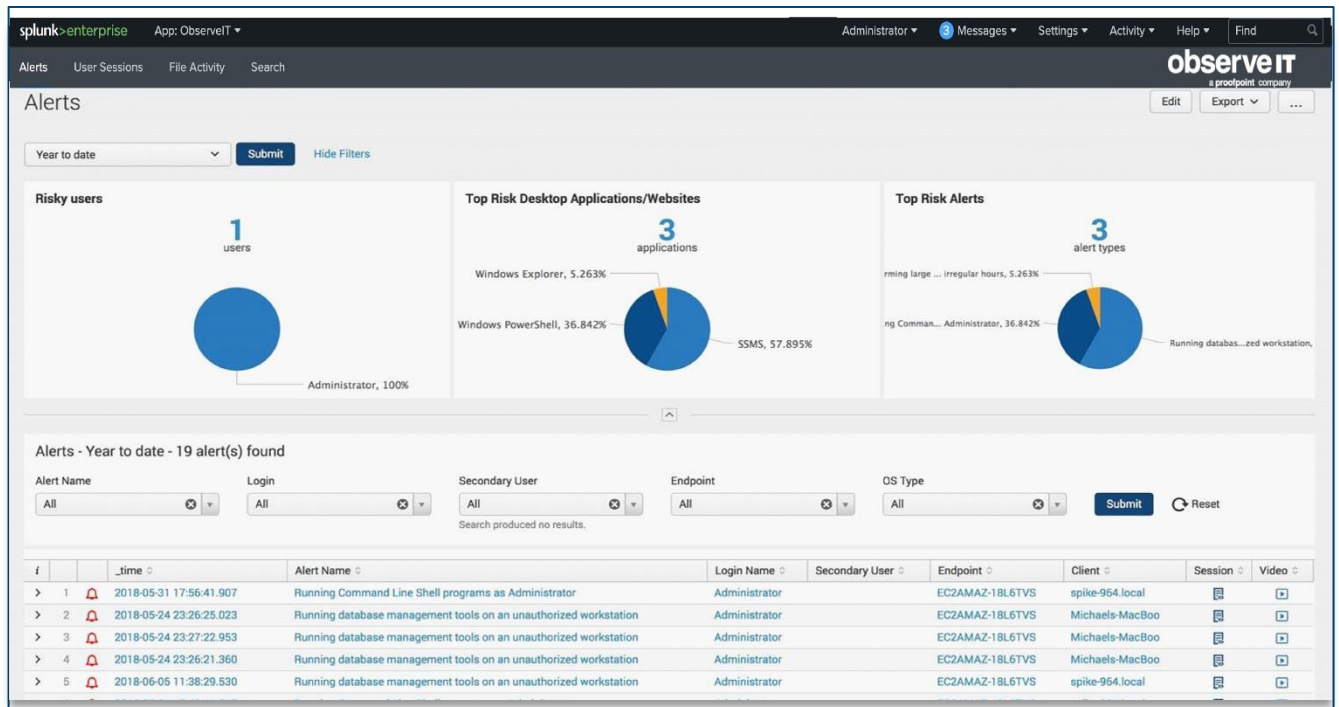
The ObserveIT App provides a comprehensive dashboard to view summary information about risky users and applications as well as drilldowns and links to view recorded user sessions.

Note: Installation of ObserveIT TA is a prerequisite for using the ObserveIT App.

Alerts Dashboard

The Alerts dashboard shows the top alerts and top risky users and applications. All alerts are listed, with a link to launch the ObserveIT player so you can playback the user's session. The session column lets you drill-down to the individual activities that comprise the alerted session.

TIP: If you want to view only the alert list, use horizontal collapse bar to hide the pie views.



User Sessions Dashboard

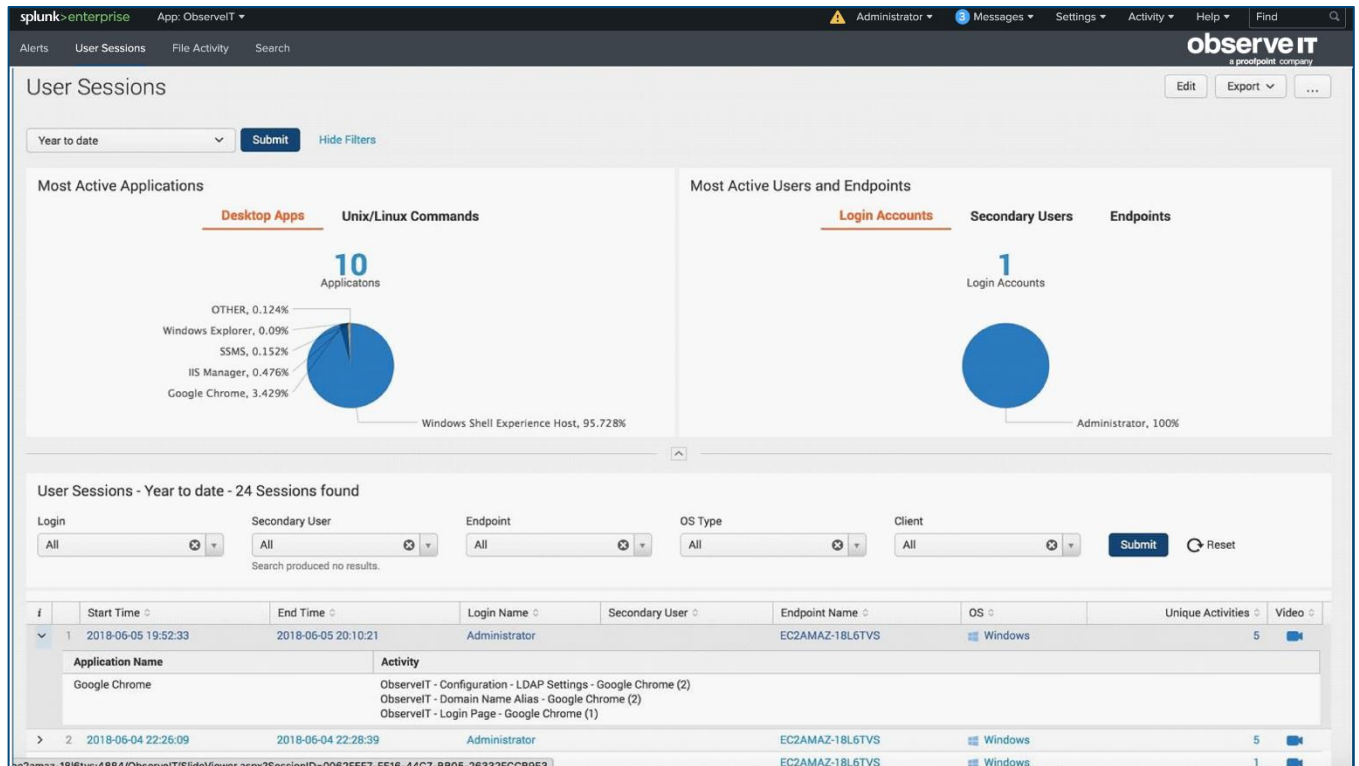
The User Session dashboard shows the most active users and endpoints as well as the most used applications.

A summary view of each user session is available, including the start and end time of the session, the number of unique activities, and the user involved.

A link to the ObservelT player to replay the session is also included.

A drilldown shows more details about the individual activities that comprise the session.

When the user session dashboard is opened via alert drill-down, you see only that individual single session's activities.

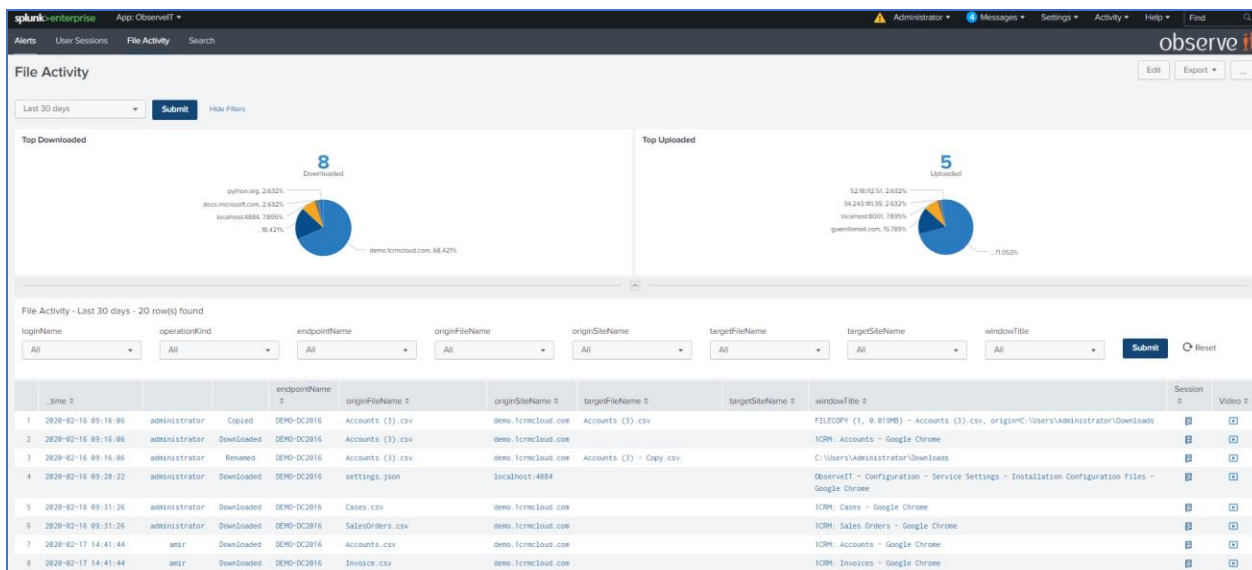


File Activity Dashboard

The File Activity dashboard shows the top upload/downloaded files URLs

A summary view of each File Activity is available, including the date/time, action (Rename/Copy/Delete/Download etc.), User ID, Filename Windows Title and link to the session data.

A link to the ObservelT player to replay the session is also included.



Troubleshooting

Events not flowing: If you have configured ObserveIT TA and do not see events flowing into the system, check the internal logs for any error messages.

In the Splunk console, search `ta_observeit_observeit_api.log` for non-INFO messages:
`index=_internal sourcetype="ta:observeit:log" NOT "INFO"`

Support

For help using the ObserveIT platform, contact the ObserveIT support organization.

<https://proofpointcommunities.force.com/community/s/>

You can also send an email to oit-support@proofpoint.com with questions about this and other ObserveIT integrations.

Not a customer yet? Start your Free Trial of ObserveIT today!

Free Trial

Start your free trial with ObserveIT today. Detect and prevent insider threats in minutes. Reduce your risk, speed up investigations, and streamline compliance.