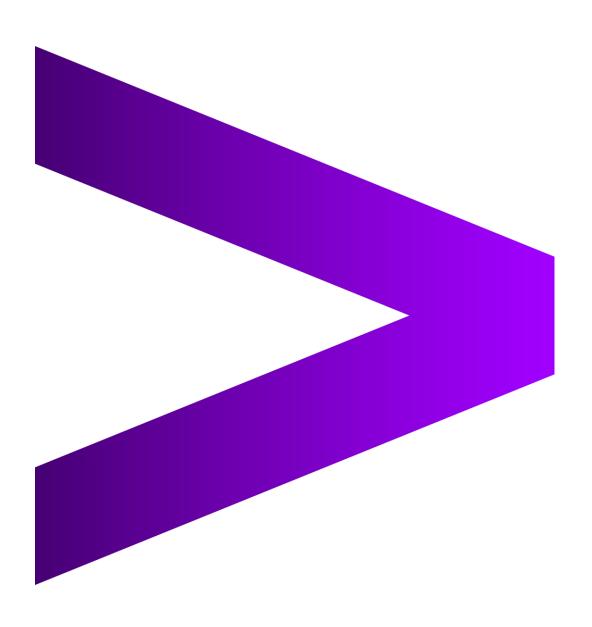
# IDEFENSE INTELGRAPH ADD-ON FOR SPLUNK ACCENTURE CYBER THREAT INTELLIGENCE



**Accenture Security** 

# **Table of Contents**

| About   | 3  |
|---|----|
| Requirements  | 3  |
| Installation and Configuration                          |    |
| Installation  | 3  |
| Manually Load Historical Threat Intelligence            | 5  |
| Change Intelligence Download Frequency                  | 5  |
| Adding Accenture CTI Notable Review Fields to Splunk ES | 5  |
| Contents  | 7  |
| Threat Intelligence KV Store                            | 7  |
| Macros for Data Enrichment                              |    |
| Accenture CTI Integration Health Check Dashboard        | g  |
| Correlation Search/Alert: iDefense Threat Match         | g  |
| Troubleshooting   | 11 |
| Where to find the Logs for this Add-On                  | 11 |
| Changing Log Level                                      | 12 |
| Health Check Dashboard                                  |    |
| Splunk Mission Control                                  | 12 |
| Getting the add-on ready for Splunk Mission Control     | 12 |

# **About**

The iDefense Technology Add-on provides an easy way to interact with iDefense IntelGraph API by loading threat indicators into the Splunk Enterprise Security Threat Intelligence Framework.

# Requirements

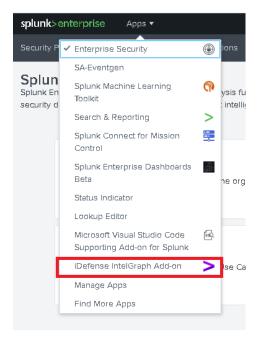
| Current Add On Version | Supported Version of Splunk Enterprise |
|------------------------|--|
| 3.0                    | <u>8.1</u> , <u>8.0</u> , <u>7.3</u>   |

- The add-on must be installed on the Search Head.
- Splunk Enterprise for Security must be installed for the TA to function correctly.
- The customer must have a subscription to Threat Indicator API and be able to generate an API token from the iDefense IntelGraph portal.

# **Installation and Configuration**

### Installation

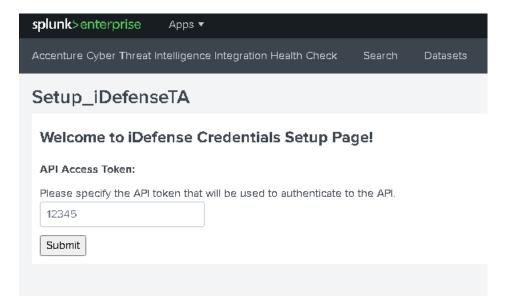
- Generate API token from IG portal at the <u>user profile page</u>. The token must have at least the "iGraph Read API Threat Indicator" role.
- Install the add-on from Splunkbase into the Splunk Search Head containing Splunk ES.
- Once installed, click on the "Apps" drop-down menu, then on the iDefense Intelgraph Add-On.



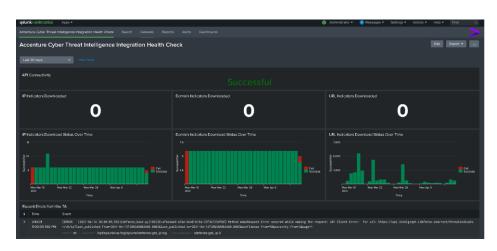
• Then click on Continue to App Setup Page.



• In the next page, paste the API key previously generated, then submit.



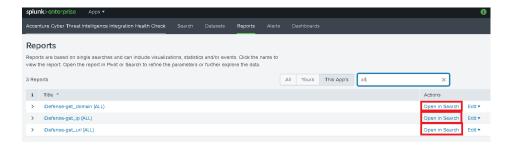
• Clicking on the app should now present the Health Check Dashboard. Connectivity to the API server should show as successful in the Health Check Dashboard.



## **Manually Load Historical Threat Intelligence**

The Technical Add-On automatically fetches Threat Intelligence updates every 4 hours from Accenture IntelGraph. However, after the first install, the data can be downloaded manually for the first time to get historical context and alerts for historical intelligence data. To do this, run the following searches:

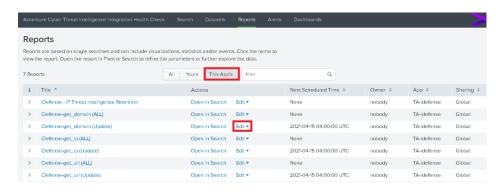
- iDefense-get\_domain (ALL)
- iDefense-get url (ALL)
- iDefense-get\_ip (ALL)



# **Change Intelligence Download Frequency**

The TA downloads threat intel updates every four hours by default. However, this interval can be configured within Splunk by following the steps below:

 Navigate to the App in Splunk, then to the Reports Tab. Update the filter to show reports only within the scope for this app.

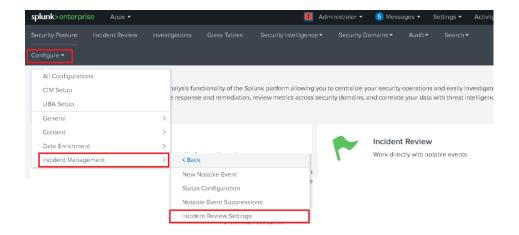


 Click on Edit > Edit Schedule for the Intel type that you wish to update the download frequency. Then change the CRON schedule as necessary.

# Adding Accenture CTI Notable Review Fields to Splunk ES

For data and notable enrichment, it is recommended to add Accenture CTI-specific notable review fields to Splunk ES. Please note that this is a required step if using the Splunk Mission Control Plugin. To add notable review fields, follow the steps below:

• Navigate to the Enterprise Security App, then to Configure > Incident Management > Incident Review Settings.

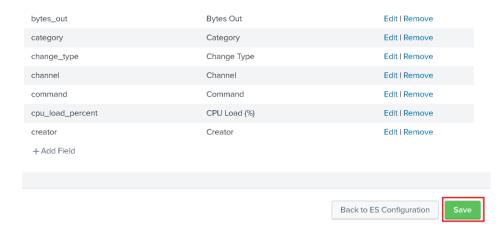


• In the Incident Review - Event Attributes, add the following Fields and Labels.

| Field                     | Label                      |
|---------------------------|----------------------------|
| idefense_key_type         | ACTI Key Type              |
| idefense_key              | ACTI Indicator             |
| idefense_threat_campaigns | ACTI Threat Campaigns Test |
| idefense_threat_types     | ACTI Threat Types          |
| idefense_uuid             | ACTI UUID                  |
| idefense_severity         | ACTI Severity              |
| idefense_malware_family   | ACTI Malware Family        |
| idefense_last_seen_as     | ACTI Last SeenAs           |
| idefense_associated_files | ACTI Associated Files      |
| idefense_last_seen        | ACTI Last Seen             |
| idefense_last_published   | ACTI Last Published        |
| idefense_last_modified    | ACTI Last Modified         |

| idefense_confidence | ACTI Confidence Score |
|---------------------|-----------------------|
|---------------------|-----------------------|

Click on Save, once finished adding the fields.



# **Contents**

# **Threat Intelligence KV Store**

The add-on stores the threat intelligence data from iDefense IntelGraph in the Splunk KV stores. The KV store for each intelligence type and their schema is as follows:

- idefense\_threatindicator\_ip
- idefense\_threatindicator\_domain
- idefense\_threatindicator\_url

| field        | Data<br>Type | Description   |
|--------------|--------------|---|
| type         | string       | Denotes indicator type (IP, Domain or URL).   |
| threat_types | array        | List of associated critical intelligence requirement (CIR) types.   |
| severity     | number       | Numerical representation of severity from 1 to 5 with 1 being the least severe and 5 the most severe with the following options: Minimal, Low, Medium, High, Extreme. |
| last_seen_as | array        | Lists any other Indicators that this might have been associated with.   |
| confidence   | array        | Confidence Score for the indicator.   |

| last_published          | string | Date when the indicator was published in IntelGraph.               |
|-------------------------|--------|--|
| last_seen               | string | Date when the indicator was last observed in action.               |
| uuid                    | string | The UUID for the indicator in IntelGraph.                          |
| files                   | array  | Files associated with this indicator.                              |
| malware_family          | array  | Classification of Malware, if associated with malware              |
| threat_campaigns        | array  | Threat Campaigns the indicator is associated with, if any.         |
| mentioned_by            | array  | If this indicator is mentioned by other nodes in IntelGraph.       |
| seen_at                 | array  | Other nodes in IntelGraph where this indicator was observed.       |
| asns (IP only)          | array  | Autonomous System Numbers associated with the IP, if any.          |
| idn (Domain Only)       | array  | Internationalized Domain Name, if the actual domain is in PunyCode |
| arguments (URL<br>Only) | array  | List of arguments objects each containing a key value pair         |

The KV store above can be used to correlate against any logs and data models using the `lookup` and `inputlookup` command. The data from above KV store also gets incorporated into the the Splunk's Threat Intelligence Framework. The data gets stored into the following KV stores that are within Splunk ES:

- ip\_intel
- http\_intel

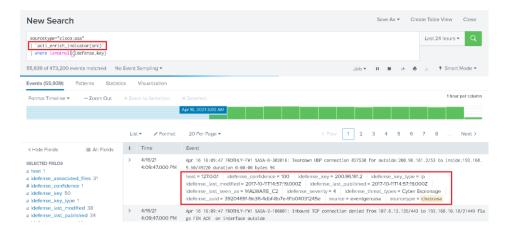
Check this <u>link</u> for more information on the Splunk's threat intel framework.

### **Macros for Data Enrichment**

The add on comes packaged with following Splunk Macros that can be used for enriching events with ACTI threat fields and used to correlate events:

- acti\_enrich\_ip(\$ip\$)
- acti\_enrich\_domain(\$domain\$)
- acti\_enrich\_url(\$url\$)
- acti\_enrich\_indicator(\$indicator\$)

Use the macros above to look up IP addresses, domain names, URLs, or an indicator in general in the local ACTI KV store. Here is an example of the usage of the indicator enrichment macro:

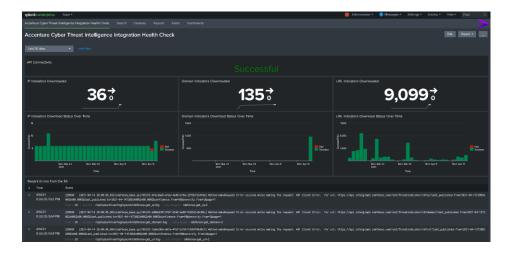


## Accenture CTI Integration Health Check Dashboard

The add-on has a Health Check Dashboard that admins can use to check the health of the integration between Accenture CTI and Splunk. The Health Check dashboard has the following panels:

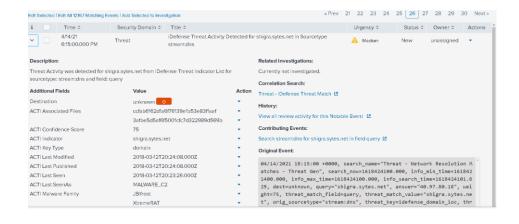
- API Connectivity: Shows the Connectivity Status to the ACTI API endpoints.
- IP, Domain, URL Indicators Download: Shows the number of indicators downloaded over the given time range.
- IP, Domain, URL Indicator Download Status: Shows each time the TA tried to pull indicators from ACTI and whether those attempts were successful.
- Final Panel shows recent errors from the TA.

The Health Check Dashboard appears as follows:

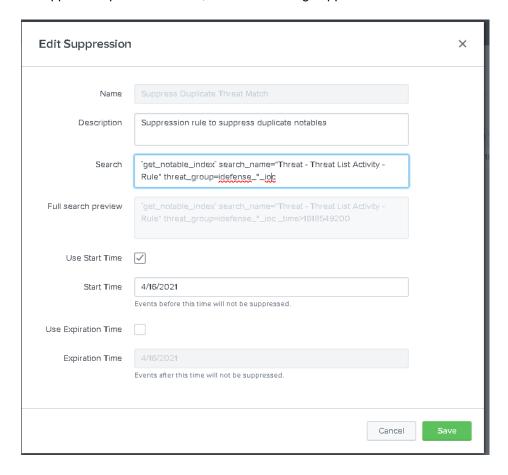


### Correlation Search/Alert: iDefense Threat Match

This TA comes bundled with a correlation search that triggers Splunk ES notables. This search looks for any indicator matches for data that is correctly parsed into either the Splunk Common Information Model and the threat intelligence data model. The correlation search is disabled by default so as to avoid unintentional impact to the customers SOC environment. The customer can enable the correlation search to enable alerts for any indicator matches against appropriately onboarded data. Following is an example of a notable that gets triggered by this alert:



If the default correlation search for threat match is enabled ("Threat - Threat List Activity - Rule"), then this can cause problems. Enabling the correlation search above might lead to duplicate notables for the same threat types. To disable or suppress duplicate notables, add the following suppression rules:



# **Troubleshooting**

# Where to find the Logs for this Add-On

This add-on logs to the following locations:

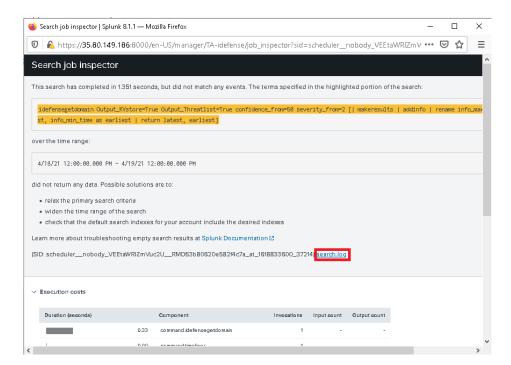
- \$SPLUNK\_HOME/var/log/idefense-get\_ip.log
- \$SPLUNK\_HOME/var/log/idefense-get\_domain.log
- \$SPLUNK\_HOME/var/log/idefense-get\_url.log
- \$SPLUNK\_HOME/var/log/idefense-validate.log

The logs for each run of a TI pull can also be viewed in the Search Head UI, by viewing the search log. To view this log for a TI download that was run recently, follow the steps below:

- Navigate to the app's Home Page, then click on Reports. Then update the filters to view contents for only this app.
- Then, click on the report or TI pull that you want to view logs for. Then click on Job and then Inspect Job.



Click on "search.log" in the pop-up that comes up to view search logs for the last run of the TI pull.



# Changing Log Level

The log level for the add-on can be changed by updating its configuration file. To update the log level for the app, follow the steps below:

- Create a file named "idefense.conf" in the directory \$SPLUNK\_HOME/etc/apps/TA-idefense/local/
- Add the following config to the file above:

[default]
log\_level=INFO
#Following values are allowed for log
level
# INFO, WARNING, ERROR, CRITICAL

Restarting the Splunk service is not required for the above config file to take effect.

### **Health Check Dashboard**

The add-on comes with a Health Check Dashboard, providing a single place to view the health of integration between Splunk and IntelGraph. Please refer to the Health Check Dashboard <u>section</u> for more information.

# **Splunk Mission Control**

# Getting the add-on ready for Splunk Mission Control

The following steps will ensure that the iDefense IntelGraph integration works with Splunk Mission Control Plugin for ACTI:

- Complete the installation and requirement of this TA on all of the Splunk ES Search Heads.
- · Add ACTI Notable Fields in the Notable Review Settings.
- Enable the iDefense Threat Match Correlation Search.