Splunk® Supported Add-ons
Splunk Add-ons released
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Introduction

About Splunk add-ons

This manual provides information about a wide variety of add-ons developed by and supported by Splunk. These add-ons support and extend the functionality of the Splunk platform and the apps that run on it, usually by providing inputs for a specific technology or vendor.

Whenever possible, these add-ons also provide the field extractions, lookups, and event types needed to map data to the Common Information Model. These configurations allow customers to easily use the new data source in data models, pivots, and CIM-based apps like Splunk Enterprise Security.

For documentation of a specific add-on, browse the full list of manuals in the Splunk Supported Add-ons documentation set.

You can browse all available add-ons, both Splunk-supported and community-supported, on Splunkbase.

Join the conversation on Splunk Answers about existing and future add-ons by going to http://answers.splunk.com/topics/add-on.html.

Add-ons and CIM

Splunk add-ons are most commonly used to bring a new data source into the Splunk platform. Most add-on developers design their add-ons to be used with the Splunk Common Information Model (CIM) in order to work with the larger Splunk ecosystem. Splunk-developed add-ons provide the field extractions, lookups, and event types needed to map data to the CIM, allowing customers to easily use the new data source in data models, pivots, and CIM-based apps.

The Splunk Common Information Model add-on is not required to use add-on features such as data collection, prebuilt panels, or custom commands. You can use individual add-ons on their own, without installing the CIM add-on, if you do not want to map their data to the CIM.

To take advantage of the CIM mappings provided in an add-on, install the Splunk Common Information Model add-on to your search heads. The Splunk Common Information Model add-on is packaged with CIM-based apps such as Splunk Enterprise Security and the Splunk App for PCI Compliance. If you are using an add-on in conjunction with one of these apps, you do not need to install the Splunk Common Information Model add-on separately. However, the Splunk Common Information Model add-on is not packaged with all apps that are designed to use the CIM. In order to use data from an add-on with an app that relies on the CIM, you need to install the Splunk Common Information Model add-on.

A full list of apps that work with the Splunk Common Information Model is available on Splunkbase.

Source types for add-ons

All Splunk supported add-ons have one or more predefined source types to identify the type of data the add-on collects from the third-party system. Many source types support data models in the Common Information Model.
Source type naming conventions

Source type names use the following format:

vendor:product:technology:format

The shortest source type name is used to distinguish it from other source types. For example, if the vendor provides only a single format, then :format is not included in the source type name. If the vendor's product does not provide different log formats or sources for different technologies, then :technology is not included in the source type name. For example, the Splunk Add-on for OSSEC has a single source type called ossec. This source type name uses only one of the naming components because the add-on collects only one kind of data from the vendor, OSSEC.

Search using add-on source types

The source type naming format enables you to use wildcards at the end of a search term when you run a search to achieve the desired level of abstraction in the search results.

For example, you can run the following search to retrieve all Cisco logs.

sourcetype=cisco:*

Run the following search to retrieve all Cisco ESA logs.

sourcetype=cisco:esa:*

Run the following search to retrieve only the Cisco ESA textmail format logs.

sourcetype=cisco:esa:textmail

Setting source type for inputs

Some Splunk add-ons have preconfigured inputs set to the appropriate source type for the third-party technology. During index time, the add-on separates the data into specific source types if there is more than one source type included with the add-on.

For add-ons that require you to create inputs to retrieve data from the third-party system, you must set the source type to a specific source type for the add-on technology as referenced in the documentation for the add-on. This source type tells the Splunk platform how to format the events during indexing. The CIM mappings and any dashboard panels provided with the add-on are also dependent on this source type. If the data inputs are not set to the correct source type, the CIM mappings and dashboard panels included with the add-on will not work.

For more information about source types, see Why source types matter in the Splunk Enterprise Getting Data In manual.

Add-ons and indexes

The Splunk platform stores the data that it collects in indexes. Understanding Splunk indexes is important for ensuring good performance when you search, for setting retention policies, and for providing data security (controlling who has access to the data). Out of the box, all data collected by Splunk supported add-ons is indexed to the default Splunk index, main. Splunk administrators are encouraged to change the index that is used for the source types in the add-on from the default index to another index that will meet the retention requirements and user access needs for this data source.
You can change the index that is used for the data source when configuring the add-on. Some add-ons include a setup page that allows you to specify the index to send your data to. Note that these setup pages can only list indexes that are locally configured on that node. For add-ons that do not include a setup page, or for hosts that cannot list the desired index, you can edit the `inputs.conf` file directly to specify the index to use for the data collected by the input. To do this, add the following line to the input's stanza in `inputs.conf` on the Splunk platform component where the data is entering the system, usually a forwarder:

```
index = <index_name>
```

Note that you must first create the index and ensure that it is in place on all nodes that may receive data before data from the add-on can be routed to it.

See Set up multiple indexes in the *Managing Indexers and Clusters of Indexers* manual for more information about creating and using indexes.

**Syslog and timestamps**

**Selecting from multiple timestamps**

Many Splunk add-ons collect event data from third-party products using syslog. You need to configure the third-party product to send syslog data to the Splunk platform in a format that the Splunk platform can understand. Configuration is slightly different for each event-producing or event-processing product.

It is very common practice in large enterprises to use multiple syslog systems to route and forward data before indexing in the Splunk platform. Depending on how these configuration choices are made, there can be multiple timestamps and/or hostnames included in an event when the Splunk platform sees it. If this is the case, we have no way of knowing which of the multiple timestamps or hostnames the customer wanted to use. Rather than ship unused extractions for all possible outcomes, the add-ons that expect syslog inputs have a single configuration. Customers may need to alter the regular expressions in these add-ons to extract the proper hostname and time stamp.

The Splunk platform normally looks at the text of the event for the timestamp, and by default will select the leftmost recognizable timestamp. Add-on specific configuration may have modified this behavior. Refer to the documentation for the individual add-on you are configuring. If there is an issue with using the timestamps included in the syslog events, you can modify props and transforms to select a different timestamp format.

Alternatively, you can change how the Splunk platform extracts timestamps. There may be cases where you would prefer to use the event's time of receipt, that is, the time the event is received to the Splunk platform, instead. To use the time of receipt as the event timestamp, add the setting `DATETIME_CONFIG = NONE` to the local `props.conf` for the add-on. For example, `$SPLUNK_HOME/etc/apps/Splunk_TA_symantec-dlp/local/props.conf`. This setting disables event-based timestamp processing, which means the Splunk platform will use the time the event is received at an indexer or heavy forwarder as the event timestamp. This can be preferred for multi-source syslog configurations with events from different time zones, because forcing a single relative time series makes correlation easier.

**Selecting from multiple timezones**

If an event timestamp does not include a recognizable timezone, the Splunk platform uses the time zone of the host that indexes the event. For example, if an event with field `timestamp="2016-01-26 21:58:38.107"` is indexed by a Splunk platform instance in GMT-8, it will subtract 8 hours from the timestamp and set the `_time` of event to: `2016-01-26T13:58:38.000-08:00`. See How Splunk software determines time zones for details. The Splunk platform will also adjust the displayed `_time` based on the user's locale. See How browser locale affects timestamp formatting for...
more information.

It is not always possible to alter the logged time formats. Watch for potential issues at these points:

- Daylight savings time shifts. DST Fall Back events produce overlap in data streams. For example, if events are logging in EST (UTC-5) and shift to EDT (UTC-4), then new and old events will be interleaved. DST Spring Forward events produce gaps in data streams. For example, if events are logging in EST (UTC-5) and shift to EDT (UTC-4), then new events will be artificially offset from old events.
- Daylight savings time alterations. Daylight Savings is a legal construct rather than a physical one, and the rules change unpredictably with some regularity. These rule changes require OS and application level patches that are not reliably applied, which can cause systems in the same timezone to report with offsets from each other. Additionally, these offsets stop when patches are applied, which can be surprising.

Because this behavior can be confusing for data analysts in multiple timezones handling data sources from multiple timezones, Splunk recommends indexing data in UTC instead of local time. For information about timestamp configuration options, see Configure timestamp recognition in Getting Data In.

Add-ons and FIPS mode

FIPS mode is not currently supported by all Splunk-supported add-ons. Some add-ons with modular inputs use an encryption algorithm to store credentials. This encryption algorithm is not supported when FIPS is enabled on the Splunk platform. If you are required to use FIPS in your environment, the workaround for using this type of add-on is to install a heavy forwarder that is not using FIPS to perform data collection and then send that data to an indexer with FIPS enabled.

For more information about using FIPS with the Splunk platform, see About FIPS in the Securing Splunk Enterprise manual.

Troubleshoot add-ons

Stuck? Try these techniques to troubleshoot add-ons built by Splunk Inc.

Useful searches

Search the internal index for logs specific to the add-on. For the source, use a wild-carded version of the brief name of the technology that the add-on supports. The source should usually match the last element in the add-on folder name. See the examples below.

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<td>Splunk Add-on for ServiceNow</td>
<td>Splunk_TA_snow</td>
<td>index = _internal source=<em>snow</em></td>
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Once you have narrowed to the proper type of logs to find issues, here are some troubleshooting techniques that might be useful for a given scenario.
**Keyword searching**

Add useful keywords to your search, like "ERROR" or the name of the service or server that you are trying to connect to.

**Find unusual logs**

Finding rare events is easier when all the similar things are hidden. If you add

```
| dedup punct
```

to the end of a search, it will temporarily reduce repetitive "noise" and make unusual lines stand out.

**Find transactions**

Some data sources log in a repetitive pattern across many entries. If a common field value is available, such as "pid", you can use

```
| transaction pid
```

at the end of a search to collapse these patterns into single events. That makes them easier to analyze with tools like `stats` or `dedup`. **Transaction** can use multiple fields as well:

```
index=_internal source="*s3_main.log" | transaction pid tid | search "Previous run is not done yet"
```

**Increase timeout settings**

If you are configuring accounts or inputs in Splunk Web and you experience errors or trouble saving, go to `$SPLUNK_HOME/etc/system/local/web.conf` and change your timeout settings as shown below.

```
[settings]
splunkdConnectionTimeout = 300
```

**Turn on debug logging**

Some add-ons allow you to configure the log level in the add-on setup page. Toggle this to DEBUG to review more verbose logs to help you find the root cause. If the add-on that you are using does not support this through the setup in Splunk Web, it may be possible to configure this in the configuration files instead. Check the documentation for each add-on for guidance.

**Check if the add-on is intended to be visible or not**

Some add-ons have a custom configuration UI that you can use in Splunk Web to set up a connection to your data and configure inputs. Other add-ons do not have a custom UI, and instead rely on the Splunk platform's native data collection and configuration capabilities. If the add-on you are using does not have any custom views, or if it does but you want to turn those views off on certain nodes of your distributed deployment to prevent confusion, make sure that visibility of the add-on is set to False.

If you are trying to launch or load views for an add-on in Splunk Web and you are experiencing results you do not expect, the add-on may not be intended to be visible. You can determine this by looking in the add-on's `default/app.conf` file. If you see `visible = false` in the `ui` stanza, this add-on is not intended to be treated as a visible app in Splunk Web on any nodes of your architecture.
To turn off visibility of an add-on:

1. Go to **Apps > Manage Apps**.
2. Find the row for the add-on you are working with and click **Edit properties**.
3. Under Visible, choose **No**, then click **Save**.

If the add-on includes prebuilt panels, you can access those through your existing dashboards. See [Access prebuilt panels included with add-ons](#).

### Check for conflicting configurations

Some add-ons are intended to replace older versions of add-ons with different package names. In these cases, you should remove the old, differently named package of the add-on when you install the newer version to avoid conflicts in your configuration files. Review the release notes for specific add-ons to find upgrade guides to walk you through this process.

For example, if a workflow action is not behaving as expected, try running `btool`.

```bash
$SPLUNK_HOME/bin/splunk btool --debug workflow_actions list [workflow_action_stanza] [--app=search]
```

The output will show which configurations came from which app. They should all originate from the add-on you are troubleshooting. Other conflicting configurations may be causing the unexpected behavior. For example, Splunk Web attempts to render the workflow action result as Splunk view instead of as an external site.

### Communication with external systems

Many Splunk developed add-ons that have modular inputs use a third-party API to communicate with an external system. You need to ensure that communication is allowed by your networking infrastructure. If you use a firewall in your environment, you need to open the correct firewall port. For an SSL enabled API, that port is typically 443. For example, the Splunk Add-on for F5 BIG-IP requires port 443 to be open on your firewall to enable F5 BIG-IP to communicate with the iControl API over SSL. If the correct port is not open, you may get "Destination unreachable" errors.

### Prevent event data loss

When a Splunk add-on with modular inputs is collecting data on a heavy forwarder and the forwarder is stopped, event data can be lost.

**Workaround:** If you need to stop a forwarder for any reason, first disable all add-ons that might be collecting data on it, and wait for at least 10 seconds before stopping the forwarder.

### On Windows, disable an add-on with modular inputs before upgrading it

On Windows, upgrading an add-on with modular inputs may fail due to some processes that keep running in the background and prevent some files from being overwritten during the upgrade. As a workaround, disable an add-on with modular inputs before upgrading it and enable it after upgrade is complete.

### Support and resource links for add-ons
Support

Splunk provides support for the latest versions (not previous versions) of free apps and add-ons that are built by Splunk and designated as "Splunk Supported" on Splunkbase.

Be sure to upgrade to the latest version of the app or add-on available on Splunkbase before filing a Splunk Support ticket using the Splunk Support Portal.

For general Splunk platform support, see Splunk Support Programs.

More resources

Access these Splunk platform resources for more help:

- Splunk Enterprise documentation
- Splunk Cloud documentation
- Splunk Light documentation
- Splunk Answers
- Splunk Community chat
Installing add-ons

About installing Splunk add-ons

Use this guide to install any Splunk-supported add-on to your Splunk platform. Also be sure to consult the specific installation instructions for an individual add-on if they are available.

Before you install an add-on

1. Find the add-on that you want on Splunkbase.
2. Read the documentation to verify that the add-on satisfies your use case and works for the version of software that you are using.
3. Verify that your hardware and software meet the specific requirements specified in the documentation for the add-on.
4. See the installation overview in the documentation for the add-on to familiarize yourself with the configuration steps necessary on the vendor software side and within your Splunk platform.
5. See the installation instructions for the specific add-on to determine where you must install the add-on and to review additional requirements that might affect your installation.

Installation instructions

Download the add-on and install it on your Splunk platform, following the guide that matches your deployment scenario:

- Install an add-on in a single-server Splunk Enterprise
- Install an add-on in a distributed Splunk Enterprise
- Install an add-on in Splunk Cloud
- Install an add-on in Splunk Light

If you have questions about on what tiers of your Splunk platform architecture you must install a particular add-on and why, see Where to install Splunk add-ons. However, unless otherwise stated, you can safely install Splunk-supported add-ons to all tiers of your Splunk platform deployment without causing any problems.

Special considerations for using a deployment server to install an add-on

You can use the deployment server to install an add-on to your forwarders only if the add-on supports deployment servers for data collection nodes. Check the deployment instructions for each individual add-on to verify whether deployment servers are supported.

If the add-on uses modular or scripted inputs to collect data from remote sources, using a deployment server to deploy the configured add-on to multiple forwarders acting as data collectors causes duplication of data. This limitation applies to third-party deployment solutions as well as the deployment server.

You can safely use a deployment server to deploy unconfigured add-ons.

For more information about using a deployment server, see About deployment server and forwarder management in the Splunk Enterprise documentation.
Special considerations for using add-ons on search head clusters

Unless otherwise noted, add-ons are supported on search head clusters for search-time functionality, but not for data collection. To avoid creating duplicate inputs, do not configure inputs in a search head cluster.

Some add-ons require you to configure credentials and other settings on your search heads. For example, if the add-on includes workflow actions or search commands that require the search head to authenticate with the third-party technology, you must provide those credentials on your search heads. Configuring credentials on a search head cluster is supported for Splunk platform version 6.3 and later but not for previous versions.

If any step in your add-on configuration requires you to access a Setup page on a search head cluster node, click Settings > Show All Settings so that you can see the Setup link on your search head cluster node.

Summary of limitations

<table>
<thead>
<tr>
<th>Can install manually on</th>
<th>Can install with a deployment server on</th>
<th>Can install on a Search Head Cluster</th>
</tr>
</thead>
<tbody>
<tr>
<td>Search heads</td>
<td>Indexers</td>
<td>Forwards</td>
</tr>
<tr>
<td>Add-on collects remote data via modular or scripted input</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Add-on uses credential management</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

* You can install add-ons on a search head cluster for all search-time functionality, but inputs should be configured on a forwarder to avoid duplicate data collection.

** Add-ons that use credential management can be installed on a search head cluster only in one of these circumstances:

- You are using Splunk platform 6.3.X or later.
- You are using Splunk platform 6.2.X, and the credentials are not required on the search heads. If credentials are required only for data collection, set up a forwarder to handle the inputs and configure the credentials on that node. Some add-ons do require the search heads to communicate directly with a third-party system using stored credentials. These add-ons are not supported on search head clusters in 6.2.X.

Where to install Splunk add-ons

Best practice

Unless otherwise noted, you can install any add-on to all tiers of your Splunk platform architecture – search tier, indexer tier, forwarder tier – without any negative impact. Splunk recommends installing Splunk-supported add-ons across your entire Splunk platform deployment, then enabling and configuring inputs only where they are required.
For example, if you install an add-on to your indexer tier, but the add-on does not have any index-time functionality, it does no harm to have it there. Add-on packages do not take up significant room on disk, so you can safely install them across your architecture.

Be sure to follow the specific configuration instructions for each individual add-on, and be aware of any limitations regarding using a deployment server.

Advanced information

If you prefer to install add-ons only to the locations they are required, consult the installation instructions for each individual add-on, which indicate where your add-on must be installed in order to work in a distributed architecture. Each add-on differs depending on what it contains, as shown in the diagram below.

- Add-ons that contain search-time functionality, such as dashboards, prebuilt panels, saved searches, macros, tags, data models, and lookups, need to be installed on your search heads.
- Add-ons that contain data manipulation functionality, usually in props.conf and transforms.conf files, should be installed on search heads, indexers, and forwarders, because that data manipulation could apply at various phases in the data pipeline: parsing, indexing, or search. Unless you are certain of where the data manipulation functions of the add-on occur, install it across all tiers of your architecture.
- Add-ons that contain inputs belong on forwarders, and in some select cases also on search heads. Inputs that contain dynamic lookups need to be installed on search heads because they feed results back into the input directly from the search. Consult the documentation of the add-on for special instructions.
For more information about how Splunk software components correlate to phases in the data pipeline, see Configuration parameters and the data pipeline in the Splunk Enterprise documentation.

The remaining sections in this chapter describe how to install an add-on in various deployment scenarios and to specific parts of your architecture.

**Install an add-on in a single-instance Splunk Enterprise deployment**

All add-ons are supported in a single-instance Splunk Enterprise deployment.

Follow these steps to install an add-on in a single-instance deployment.

1. Download the add-on from Splunkbase.
2. From the Splunk Web home screen, click the gear icon next to Apps.
3. Click **Install app from file**.
4. Locate the downloaded file and click **Upload**.
5. If Splunk Enterprise prompts you to restart, do so.
6. Verify that the add-on appears in the list of apps and add-ons. You can also find it on the server at `$SPLUNK_HOME/etc/apps/<Name_of_add-on>`.

If you are using separate forwarders in conjunction with your single-instance deployment, be sure to deploy the add-on to your forwarders as well.

**Install an add-on in a distributed Splunk Enterprise deployment**

If your Splunk Enterprise environment is distributed, follow the instructions in each of the sections below to deploy add-ons to your search heads, indexers, and forwarders.

**Search heads**

To install an add-on to a search head:

1. Download the add-on from Splunkbase.
2. From the Splunk Web home screen, click the gear icon next to Apps.
3. Click **Install app from file**.
4. Locate the downloaded file and click **Upload**.
5. If Splunk Enterprise prompts you to restart, do so.
6. Verify that the add-on appears in the list of apps and add-ons.

Make sure the add-on is not visible. If the Visible column for the add-on is set to **Yes**, click **Edit properties** and change Visible to **No**. Disabling visibility of add-ons on search heads is recommended to avoid inputs from being created on search heads. Data collection components are not recommended for search heads because of the potential to conflict with users’ search activity.

You can also find it on the server at `$SPLUNK_HOME/etc/apps/<Name_of_add-on>`.
Search head clusters

Before deploying an add-on to a search head cluster, check the documentation of the add-on to ensure it is supported on search head clusters. The add-on documentation might also include pre-deployment steps that you must perform in order to avoid validation errors. The files that cause the validation errors are all irrelevant to search head functionality, but the validation errors prevent deployment.

Unless otherwise instructed in the documentation for the specific add-on, before deploying an add-on to a search head cluster, make the following changes to the add-on package:

1. Remove the eventgen.conf files and all files in the samples folder.
2. Remove the inputs.conf and inputs.conf.spec files, if the add-on contains them. Exception: If you are collecting data locally from the machines running your search head nodes, keep these files.
3. Remove the database.conf file, if the add-on contains one.

To deploy an add-on to the search head cluster members, use the deployer. See Use the deployer to distribute apps and configuration updates in Distributed Search.

Indexers

To install an add-on to an indexer:

1. Download the add-on from Splunkbase, then unpack the .tgz package.
2. Place the resulting Splunk_TA_<add-on_name> folder in the $SPLUNK_HOME/etc/apps directory on your indexer.
3. Restart the indexer.

Indexer clusters

Unless noted, add-ons are supported on indexer clusters, whether single-site or multi-site.

If the add-on defines configurations for modular inputs that are located in apps or add-ons that are not included in the configuration bundle, your deployment of the configuration bundle fails due to validation errors. The affected files are all irrelevant to indexer functionality, provided that you configure your inputs on forwarders, but the validation errors prevent deployment.

To work around this issue, before deploying add-ons to indexer clusters, make the following changes to the add-on package unless the documentation for the add-on overrides these instructions:

1. Remove the eventgen.conf files and all files in the samples folder.
2. Remove the inputs.conf and inputs.conf.spec files, if the add-on contains them. Exception: If you are collecting data locally from the machines running your indexers, keep these files.
3. Remove the database.conf file, if it contains one.

Deploy add-ons to peer nodes on indexer clusters using a master node. For more information about using a master node to deploy to peer nodes of an indexer cluster, see Manage app deployment across all peers in Managing Indexers and Clusters of Indexers.

Universal or light forwarders

Check the installation instructions for each individual add-on to determine which forwarder types are supported.
To install an add-on to a universal or light forwarder manually:

1. Download the add-on from Splunkbase, then unpack the .tgz package.
2. Place the resulting Splunk_TA_<add-on_name> folder in the $SPLUNK_HOME/etc/apps directory on your forwarder.
3. Restart the forwarder.

**Use a deployment server to install add-ons**

You can use a deployment server to install an add-on to your forwarders only if the add-on supports deployment servers. Check the installation instructions for each individual add-on to verify whether deployment servers are supported for forwarders. See [Special considerations for using a deployment server to install an add-on](#) for more details.

For more information about using a deployment server, see [About deployment server and forwarder management](#) in the Splunk Enterprise documentation.

### Heavy forwarders

You can use a deployment server to install an add-on to your forwarders only if the add-on supports deployment servers. Check the installation instructions for each individual add-on to verify whether deployment servers are supported for forwarders. See [Special considerations for using a deployment server to install an add-on](#) for more details.

To install an add-on to a heavy forwarder manually:

1. Download the add-on from Splunk Apps.
2. From the Splunk Web home screen on your heavy forwarder, click the gear icon next to Apps.
3. Click **Install app from file**.
4. Locate the downloaded file and click **Upload**.
5. If the forwarder prompts you to restart, do so.
6. Verify that the add-on appears in the list of apps and add-ons. You can also find it on the server at $SPLUNK_HOME/etc/apps/<Name_of_add-on>.

### Install an add-on in Splunk Cloud

To install add-ons for use with your Splunk Cloud instance, your procedure varies depending on three questions:

- **Is your Splunk Cloud deployment self-service or managed?** If you aren't sure, see Types of Splunk Cloud deployment.
- **Does the add-on need to be installed on an Inputs Data Manager (IDM)?** Any add-on that requires ingestion on the search tier is disallowed in Splunk Cloud, so you need to use IDM or a heavy forwarder to achieve this. The IDM is a hosted solution for Splunk Cloud for scripted and modular inputs. In a majority of cases, an IDM will obviate the need for customer-managed infrastructure. However, note that an IDM is not a one-to-one replacement for a heavy forwarder. You still need to use a heavy forwarder if you need to perform parsing or activities other than standard scripted and modular data inputs. As a best practice, cloud-based add-ons should be installed on an IDM, and on-premise-based add-ons should be installed on a forwarder or heavy forwarder. Note: If the add-on is tightly integrated with an Enterprise Security search head, you should not use IDM.
- **Does the add-on need to be installed on a forwarder in addition to your Splunk Cloud instance?** Some add-ons require that you install them on a forwarder for data collection. Some add-ons even require specific types of forwarders. Most add-ons also need to be installed on your Splunk Cloud instance to enable their index- and search-time capabilities. Check the documentation for the add-on that you want to use for details.
Determine the answers to those questions, then follow the instructions in the sections below that apply to you.

**Self-service Splunk Cloud deployments**

You can install add-ons to your self-service instance of Splunk Cloud using the app browser in Splunk Cloud.

1. From the Splunk Web home screen, click on the gear icon next to Apps in the left navigation bar.
2. Click **Browse more apps**.
3. Find the app or add-on that you want to install, then click **Install**.
4. Follow the on-screen prompts to complete your installation.
5. Consult the add-on documentation to determine if your add-on requires a forwarder for data collection, and if so, what type of forwarders are supported.
6. If forwarders are required, see Install add-ons to forwarders to get data into Splunk Cloud in this topic.

**Managed Splunk Cloud deployments**

1. Consult the add-on documentation to determine if your add-on should be installed on search heads.
2. If the add-on does need to be installed on search heads, install it on your Splunk Cloud instance. See Install apps in your Splunk Cloud deployment in the Splunk Cloud User Manual.
3. Turn visibility off on your search heads to prevent data duplication errors that can result from running inputs on your search heads instead of (or in addition to) on your data collection node.
4. Consult the add-on documentation to determine if your add-on requires a forwarder for data collection, and if so, what type of forwarders are supported.
5. If the add-on supports universal forwarders but also needs to be installed on indexers in that case, contact Splunk Support to verify that the add-on is installed on your cloud indexers, or use a heavy forwarder instead.
6. If forwarders are required, see Install add-ons to forwarders to get data into Splunk Cloud in this topic.

**Install add-ons to an IDM to get data into Splunk Cloud**

If an IDM is required to get data in, you will need to request the add-on installation from Splunk Cloud Support. You will also need to request that Splunk Cloud Support installs the add-on on your Splunk Cloud instance.

**Install add-ons to forwarders to get data into Splunk Cloud**

If a forwarder is required to get data in, install and configure a forwarder on a server under your control, then install your add-on on that forwarder. Follow the directions for the forwarder type required by the add-on you are installing.

**Install an add-on on a universal forwarder**

Install and configure a universal forwarder to send data to your Splunk Cloud instance, then install the add-on on that forwarder.

1. See Forward data in the Splunk Cloud User Manual for complete directions on installing a universal forwarder and configuring the credentials to connect your forwarder to your Splunk Cloud instance.
2. See Install an add-on in a distributed Splunk Enterprise deployment in this manual and follow the directions to install your add-on on the universal forwarder.
**Install an add-on on a heavy forwarder**

Install and configure a heavy forwarder to send data to your Splunk Cloud instance, then install the add-on on that forwarder.

1. Install a full Splunk platform instance on a server under your control.
2. Configure it as a heavy forwarder. See Set up forwarding in the Splunk Enterprise *Forwarding Data* manual.
3. Download and install the forwarder credentials to connect your forwarder to your Splunk Cloud instance.

Although the credentials package that you download and install is called "Universal Forwarder Credentials", these credentials do not apply only to universal forwarders. Apply these credentials to forwarders of any type that you need to connect to your Splunk Cloud instance.

- If your forwarder is installed on a Linux server, see Forward data to Splunk Cloud from Linux in the *Splunk Cloud User Manual* and scroll down to Step 3: Download and install the universal forwarder credentials.
- If your forwarder is installed on a Windows server, see Forward data to Splunk Cloud from Microsoft Windows in the *Splunk Cloud User Manual* and scroll down to Step 3: Download and install the universal forwarder credentials.
- If your forwarder is installed on a MacOS server, see Forward data to Splunk Cloud from MacOS in the *Splunk Cloud User Manual* and scroll down to Step 3: Download and install the universal forwarder credentials.

4. See Install an add-on in a distributed Splunk Enterprise deployment in this manual and follow the directions to install your add-on on the heavy forwarder.

**Install an add-on in Splunk Light**

1. Open the sidebar panel in your Splunk Light instance and select Data > Add-Ons.

2. Review the available add-ons that appear. You can download and enable add-ons on this view.

**Note:** Not all add-ons are supported in Splunk Light. Any add-ons that do not appear in the Add-Ons view in Splunk Light are not supported for Splunk Light at this time.
Accessing Knowledge Objects

Access knowledge objects for an add-on

Many add-ons contain Splunk knowledge objects that enable you to extract knowledge from your raw IT data as you need it, such as events, fields, timestamps, and so on. The Splunk platform extracts some of this information as it indexes your IT data, but it creates most of this information at search time.

Event types

To see the event types in an add-on, in Splunk Web, go to Settings > Event Types. Make sure that you have the App context set to the add-on that you are using. The Event types page displays showing a list of all event types defined in this app context.

Click on the name to access the details page for the event type, where you can edit the Search string, Tags, and Priority for the event type, if you have the permissions to do so.

Tags

To see the Tags defined in an add-on, in Splunk Web, go to Settings > Tags > List by field-value pair. Make sure that you have the App context set to the add-on that you are using. The List by field-value pair page displays a list of all Tags defined in the add-on associated with each field-value pair. The Field extractions page displays showing the Field extractions defined within the app context.

Field extractions

To see the Field extractions defined in an add-on, in Splunk Web, go to Settings > Fields > Field Extractions. Make sure that you have the App context set to the add-on that you are using. The Splunk platform automatically extracts fields from your IT data to help you better understand your data and how you can use it.

Access prebuilt panels included with add-ons

Some add-ons include a set of prebuilt panels that you can add to your dashboards in Splunk platform versions 6.2.X or later.

View prebuilt panels included with an add-on

Follow these steps to find out if the add-on you are using includes prebuilt panels and view them if available.

1. In Splunk Web, go to Settings > User interface > Prebuilt panels.
2. Set the app context to the add-on that you are using.
3. The Prebuilt panels page displays a list of all panels defined in this app context. If the add-on you are using includes prebuilt panels, they appear on this page.
Use prebuilt panels in a dashboard

1. In Splunk Web on your search head, go to the Search & Reporting app and click **Dashboards**.
2. Select an existing dashboard or create a new one.
3. Click **Edit**, then click **+ Add Panel**.
4. In the Add Panel sidebar, click **Add Prebuilt Panel**.
5. In the search bar at the top of the Add Panel sidebar, enter the name of the technology the add-on supports. If the full name doesn't work, try an abbreviated version.
6. Preview any prebuilt panels that appear by clicking on their names. If you want to add the panel to your dashboard, click **Add to Dashboard**.
Third-party components

Third-party component credits for Splunk-supported add-ons

Selected Splunk add-ons contain components or libraries that were written by others and are being redistributed as part of the Splunk add-on under their respective open source licenses. We wish to thank the contributors to these projects.

To determine in which add-ons these third-party libraries appear, refer to the release notes of each add-on.

View the licenses by selecting a library name on the left.

Apache Axis

Version 1.1

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Apache log4j

Version 1.2.17
axios

Version 0.18.0

https://github.com/axios/axios

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AzureSdk for Python

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**babel-polyfill**

https://github.com/babel/babel/tree/master/packages/babel-polyfill

Version 6.23.0

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**BigSuds**

Version 1.0.1

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Bootstrap

Version 2.3.2

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**Castor**

Version 1.3

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certifi

Version 2018.04.16

https://github.com/certifi/python-certifi

This package contains a modified version of ca-bundle.crt:

c-a-bundle.crt -- Bundle of CA Root Certificates

Certificate data from Mozilla as of: Thu Nov 3 19:04:19 2011# This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree: http://mxr.mozilla.org/mozilla/source/security/nss/lib/ckfw/builtins/certdata.txt?raw=1# It contains the certificates in PEM format and therefore can be directly used with curl / libcurl / php_curl, or with an Apache+mod_ssl webserver for SSL client authentication. Just configure this file as the SSLCACertificateFile.#

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@(#) $RCSfile: certdata.txt,v $ $Revision: 1.80 $ $Date: 2011/11/03 15:11:58 $

chardet

Version 3.0.4

https://github.com/chardet/chardet

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Common.Logging.Nlog20

version 2.1.2

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Version 1.0

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configparser

https://pypi.org/project/configparser/

Version 3.7.4

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dateutil

Version 2.7.3

https://github.com/dateutil/dateutil

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dateutil - Extensions to the standard Python datetime module.

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dateutils

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dateutils

python-dateutils 2.8.0

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**debug**

Version 3.1.0

https://github.com/visionmedia/debug

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**defusedxml**

Version 0.4.1

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docutils

docutils 0.12

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fastjson

Version 1.2.60

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fw1-loggrabber

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follow-redirects

Version 1.3.0

https://github.com/olalonde/follow-redirects

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functools32

Source code: https://pypi.python.org/pypi/functools32/3.2.3-2

Version 3.2.3-2

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**futures**

Source code: https://pypi.python.org/pypi/futures

Version: 3.0.5

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**guava**

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Google Auth httplib2

Google Auth Python Library

Version 0.0.3

https://github.com/googleapis/google-auth-library-python

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idna

Version 2.6

https://github.com/kjd/idna

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**intro.js**

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**is-buffer**

Version 1.1.5  
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**iso8601**

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**jinja2**

Source code: https://palletsprojects.com/p/jinja/

Version: 2.10.1

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**jboss-cli-client**

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jqBootstrapValidation

Version 1.3.6

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**jquery-cookie**

Version 1.4.1

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**jQuery**

https://jquery.com/download/

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Version 1.10.4

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jsonschema

Source code: https://github.com/Julian/jsonschema

Version 2.6.0

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jsonpath-rw

Version 2.0

Source code: https://github.com/kennknowles/python-jsonpath-rw

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lodash

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ms

Version 2.0.0

https://github.com/zeit/ms

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munch

http://github.com/Infinidat/munch

Version 2.3.2

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oauth2client

Version 3.0.0

https://github.com/googleapis/oauth2client

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pythonfutures

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python-dateutil

https://github.com/dateutil/dateutil/

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Python sortedcontainer

Version 1.5.2

https://github.com/grantjenks/python-sortedcontainers

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qs

Version 6.5.2

https://github.com/ljharb/qs

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sax.js

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**simplejson**

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**six.py**

Version 1.12.0

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**six.py**

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six.py1130

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snappy

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**splunksdk**

http://github.com/splunk/splunk-sdk-python

Version 1.6.6

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**suds**

Version 0.4

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For details, visit:

- Project site: https://fedorahosted.org/suds/
- Documentation: https://fedorahosted.org/suds/wiki/Documentation

**suds_py3**

https://github.com/cackharot/suds-py3

Version 1.3.3.0

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**u-msgpack-python**

Version 2.5.0

https://github.com/vsergeev/u-msgpack-python

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https://github.com/vsergeev/u-msgpack-python

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urllib3

Version 1.24.3

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urllib3

Version 1.24.3

https://github.com/urllib3/urllib3

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wsdl4j

Version 1.6

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