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What's new

Welcome to Splunk Enterprise 7.3

If you are new to Splunk Enterprise, read the *Splunk Enterprise Overview*. If you are familiar with Splunk Enterprise and want to explore the new features interactively, download the Splunk Essentials for Cloud and Enterprise app from Splunkbase.

For system requirements information, see the *Installation Manual*.

Before proceeding, review Known Issues for this release and Fixed issues.

Splunk Enterprise 7.3 was first released on June 4, 2019.

Planning to upgrade from an earlier version?

If you plan to upgrade to this version from an earlier version of Splunk Enterprise, read How to upgrade Splunk Enterprise in the *Installation Manual* for information you need to know before you upgrade.

See About upgrading: READ THIS FIRST for specific migration tips and information that might affect you when you upgrade.

The Deprecated features topic lists computing platforms, browsers, and features for which Splunk has deprecated or removed support in this release.

What's New in 7.3.0

<table>
<thead>
<tr>
<th>New Feature or Enhancement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SmartStore enhancements</td>
<td>Support for Splunk Enterprise Security workloads.</td>
</tr>
<tr>
<td></td>
<td>Support for report acceleration and data model acceleration summaries. See About SmartStore in <em>Managing Indexers and Clusters of Indexers</em>.</td>
</tr>
<tr>
<td></td>
<td>Data retention based on raw uncompressed data size per index, supplementing existing controls based on</td>
</tr>
<tr>
<td>New Feature or Enhancement</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td></td>
<td>time and compressed data size. See Configure data retention for SmartStore indexes in <em>Managing Indexers and Clusters of Indexers</em>.</td>
</tr>
<tr>
<td></td>
<td>Improved SmartStore resiliency.</td>
</tr>
<tr>
<td></td>
<td>Improved scalability of SmartStore and indexer clustering.</td>
</tr>
<tr>
<td></td>
<td>Support for SmartStore on non-clustered standalone indexers. See About SmartStore in <em>Managing Indexers and Clusters of Indexers</em>.</td>
</tr>
<tr>
<td>Indexing pipeline improvements</td>
<td>Balanced index load distribution: Efficient resource utilization by automatically distributing indexing load within an indexer across multiple pipeline sets, achieving higher indexing throughput, improved resource utilization, and reduced cost. See Manage pipeline sets for index parallelization in <em>Managing Indexers and Clusters of Indexers</em>.</td>
</tr>
<tr>
<td>Searchable data rebalance</td>
<td>Minimal disruption to searching during indexer cluster data rebalance. See Rebalance the indexer cluster in <em>Managing Indexers and Clusters of Indexers</em>.</td>
</tr>
<tr>
<td>Workload management</td>
<td>Shared memory resources between search workload pools.</td>
</tr>
<tr>
<td></td>
<td>New workload categories provide isolation of resources allocated to search and ingest processes. See How workload management works in the <em>Workload Management</em> manual.</td>
</tr>
<tr>
<td></td>
<td>Explicit resource caps on modular inputs and scripted inputs, to limit excessive resource usage.</td>
</tr>
<tr>
<td></td>
<td>Enhanced workload rules to control resource usage based on indexes and users, in addition to apps and roles. See Configure workload management in the <em>Workload Management</em> manual.</td>
</tr>
<tr>
<td>New Feature or Enhancement</td>
<td>Description</td>
</tr>
<tr>
<td>--------------------------------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>Improved monitoring of resource consumption on a per pool basis. See Monitor workload management in the Workload Management manual.</td>
<td>Ability to set distinct workload pools for data model acceleration and report acceleration searches. See Assign searches to workload pools in the Workload Management manual.</td>
</tr>
<tr>
<td>Splunk Metrics Workspace</td>
<td>Splunk Metrics Workspace is now part of Splunk Enterprise inside the Search &amp; Reporting app. See Visualize metrics in the Splunk Metrics Workspace.</td>
</tr>
<tr>
<td>Metrics rollups</td>
<td>Keep aggregated metrics data over longer periods of time in metrics rollup summaries for storage savings and better search performance. See Roll up metrics data for faster search performance and increased storage capacity in Metrics.</td>
</tr>
<tr>
<td>Chart multiple series</td>
<td>Co-analyze multiple related metrics easily in the same view and create sophisticated visualizations for monitoring.</td>
</tr>
<tr>
<td>Metrics index storage optimization</td>
<td>Reduced storage footprint and increased search performance.</td>
</tr>
<tr>
<td>Token-based authentication</td>
<td>Ability to authenticate in REST API calls using a token instead of username and password for LDAP and local login users. See Set up authentication with tokens in Securing Splunk Enterprise.</td>
</tr>
<tr>
<td>Improved roles management</td>
<td>New user interface for selecting Searchable Indexes, Default indexes, Capabilities, and Inheritance on the Roles configuration page. See Add and edit roles with Splunk Web in Securing Splunk Enterprise.</td>
</tr>
<tr>
<td>Deployer enhancements</td>
<td>Flexible deployer options for search head clustering to assist with application and configuration upgrades as well as single search head to SHC migration. See Use the deployer to distribute apps and configuration updates in the Distributed Search manual.</td>
</tr>
<tr>
<td>SearchEvaluator performance and memory usage</td>
<td>Reduced memory footprint of searches and increased performance.</td>
</tr>
<tr>
<td>New Feature or Enhancement</td>
<td>Description</td>
</tr>
<tr>
<td>----------------------------</td>
<td>-------------</td>
</tr>
<tr>
<td>improvements</td>
<td></td>
</tr>
<tr>
<td>Search performance</td>
<td>Faster search execution with lower memory usage, especially for complex queries spanning large numbers of indexers.</td>
</tr>
<tr>
<td>enhancements</td>
<td></td>
</tr>
<tr>
<td>Enhancement in</td>
<td>Ability to retain sub-second event data without indexing additional fields. See the ADD_EXTRA_TIME_FIELDS setting in props.conf in the Admin Manual.</td>
</tr>
<tr>
<td>sub-second event data</td>
<td></td>
</tr>
<tr>
<td>retention</td>
<td></td>
</tr>
</tbody>
</table>

**What's New in 7.3.1**

Splunk Enterprise 7.3.1 introduces enhancements to several features and resolves the issues described in Fixed issues.

<table>
<thead>
<tr>
<th>Enhancement</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Enhancement to Metric Store Logs to Metrics functionality</td>
<td>Support blacklist and whitelist for Metric dimensions when configuring Logs to Metrics. Support for wildcard ( * ) to specify patterns. Ability to automatically treat numeric fields as measures. See Set up ingest-time log-to-metrics conversion with configuration files in Metrics.</td>
</tr>
<tr>
<td>Enhancement to Metric Store rollups functionality</td>
<td>Ability to roll up only a subset of metrics, rather than every metric in the source metric index. Ability to specify multiple aggregate function rather than a single aggregate function. See Manage metric rollup policies with configuration files in Metrics.</td>
</tr>
<tr>
<td>Python future and 2to3 packages</td>
<td>Splunk Enterprise 7.3.1 includes the Python libraries &quot;future&quot; and &quot;2to3&quot;, which help to make Python 2 syntax compatible with both Python 2 and Python 3. The Splunk Python SDK is dual-compatible via the &quot;Six&quot; library as of v1.6.5, so &quot;future&quot; and &quot;2to3&quot; are most useful for customers who do not use the SDK or who need further modification. See Python 3 Migration for more information.</td>
</tr>
</tbody>
</table>

**Documentation updates**

Splunk Enterprise 7.3.0 introduces additional guided data onboarding manuals that provide end-to-end guidance for getting specific data sources into specific Splunk platform deployments. You can find all the guided data onboarding manuals by clicking the Add data tab on the Splunk Enterprise documentation page.
REST API updates

This release includes these new and updated REST API endpoints.

New endpoints:

- catalog/metricstore/rollup
- catalog/metricstore/rollup/{index}
- search/concurrency-settings
- search/concurrency-settings/scheduler
- search/concurrency-settings/search
- server/pipelinesets
- workloads/categories

Updated endpoints:

- workloads/pools

The REST API Reference Manual describes the endpoints.
Known issues for this release

Known issues

The following are issues and workarounds for this version of Splunk Enterprise.

Issues are listed in all relevant sections. Some issues appear more than once. To check for additional security issues related to this release, visit the Splunk Security Portal.

Refer to System requirements in the Installation Manual for a list of supported platforms and architectures.

For a list of deprecated features and platforms, refer to Deprecated features in this manual.

Highlighted issue

Splunk Enterprise 7.3.1 introduced a defect (SPL-175599) that affected data durability under certain conditions for customers using SmartStore. Splunk Enterprise 7.3.1.1 fixes this issue.

Upgrade issues

This section lists issues that customers have reported when upgrading from an earlier version of Splunk Enterprise. If you are considering an upgrade, please read "How to upgrade Splunk Enterprise" in the Installation Manual.

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-04-13</td>
<td>SPL-153403</td>
<td>After running the &quot;clean userdata&quot; command, admin is unable to login with msg &quot;No users exist. Please set up a new user.&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: Create a $SPLUNK_HOME/etc/system/local/user-seed.conf and restart Splunk</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[user_info] PASSWORD = &lt;yourpassword&gt;</td>
</tr>
<tr>
<td>2017-05-23</td>
<td>SPL-141964</td>
<td></td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| 2017-05-23| SPL-141961   | Older 6.0, 6.1, 6.2, 6.3 maintenance release versions unable to connect to 6.6.x and later versions. Workaround: This applies to License Master/Slave, Deployment Server/Client, Cluster Master/Peers, Search Head/Peers and affects Splunk 6.6.x and the following versions:  
  - 6.0.0 to 6.0.6  
  - 6.1.0 to 6.1.4  
  - 6.2.0 to 6.2.6  
  - 6.3.0 to 6.3.1  
  - 6.3.1511.1  
  Upgrade your older instances to the latest maintenance releases or on your 6.6.x Splunk instances. Add the following stanza to server.conf:  
    - [sslConfig]  
      - sslVersions = *,-ssl2  
      - sslVersionsForClient = *,-ssl2  
      - cipherSuite = TLSv1+HIGH:TLSv1.2+HIGH:@STRENGTH |
| 2017-03-20| SPL-139019   | Possible compatibility issues between Python / SDK clients and new 6.6.x and later default sslVersions, cipherSuites. Workaround: Users can do either of the following: |
1. Overwrite the new Splunk 6.6 server.conf [sslConfig] sslVersions, cipherSuites with your own settings that are compatible with your version of OpenSSL, e.g. the previous defaults from 6.5.x are compatible with OpenSSL 0.9.8 on Mac OSX:

   [sslConfig]
   sslVersions = *,-ssl2
   sslVersionsForClient = *,-ssl2
   cipherSuite = TLSv1+HIGH:TLSv1.2+HIGH:@STRENGTH

2. For some more up-to-date clients, it is possible to enforce TLS1.2 (e.g. --tlsv1.2 for curl) in order to connect successfully.

3. Upgrade OpenSSL on your platform and link it with your client (e.g. Python, curl, etc.). For example, OpenSSL 1.0.2 is available for Mac OSX via Homebrew (see https://brew.sh) and is compatible with the new Splunk 6.6 default sslVersions, cipherSuites.

---

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-03-13</td>
<td>SPL-138647</td>
<td>Possible compatibility issues between new 6.6 and later default sslVersions, cipherSuites and external services, e.g. e-mail, LDAP</td>
</tr>
</tbody>
</table>

Workaround:
If security is not a significant concern, simply revert back to the 6.5.x SSL/TLS defaults, e.g. for e-mail, add to $SPLUNK_HOME/etc/system/local/alert_actions.conf:

   [email]
   sslVersions = *,-ssl2
   cipherSuite = TLSv1+HIGH:TLSv1.2+HIGH:@STRENGTH

To configure LDAP with the same settings used by e-mail alerts: $SPLUNK_HOME/etc/openldap/ldap.conf

   TLS_PROTOCOL_MIN 3.1
   TLS_CIPHER_SUITE TLSv1+HIGH:TLSv1.2+HIGH:@STRENGTH

To completely revert the LDAP configuration to the 6.5.x SSL/TLS defaults, comment out TLS_PROTOCOL_MIN and TLS_CIPHER_SUITE.

If you would like to retain the more secure 6.6.x defaults, but prefer to add an exception for your less secure external services, follow the procedure below:

1. To determine what sslVersions and cipherSuites are supported by a server, run splunk cmd openssl s_client -connect hostname:port | awk '/Protocol/ || /Cipher/ || /Verify/'

The example below is for a Postfix SMTP server:

eserv@indexer01:~$ splunk cmd openssl s_client -connect smtp-server01:465 | awk '/Protocol/ || /Cipher/ || /Verify/

   depth=1 C = US, O = Example Customer, OU = IT, CN = Example Customer IT CA, emailAddress = customer@example.org verify error:num=19:self signed certificate in certificate chain New, TLSv1/SSLv3, Cipher is DHE-RSA-AES256-SHA

   Protocol : TLSv1
   Cipher : DHE-RSA-AES256-SHA
   Verify return code: 19 (self signed certificate in certificate chain)
2. Check the OpenSSL output for Protocol and Cipher. In the example above, Protocol = TLSv1 and Cipher = DHE-RSA-AES256-SHA

3. Update Splunk's relevant sslVersions and/or cipherSuite. In the example above, sslVersions should be set to tls (allows TLSv1, TLSv1.1, TLSv1.2) and DHE-RSA-AES256-SHA should be appended to the end of the default cipherSuites definition, e.g. add

```bash
[alert_actions.conf]
sslVersions = tls
```

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-08-20</td>
<td>SPL-89640</td>
<td>When running Splunk on Linux as non-root user and using RPM to upgrade, the RPM writes $SPLUNK_HOME/var/log/introspection as root, causing errors upon restarts. Workaround: Chown the $SPLUNK_HOME/var/log/introspection directory to the user Splunk Enterprise runs as after upgrading and before restarting Splunk Enterprise.</td>
</tr>
<tr>
<td>2013-08-19</td>
<td>SPL-73386</td>
<td>Users are not allowed to run historical scheduled search. Workaround: 1. Create a special power/admin user who can run scheduled searches. 2. Assign this user ownership of the scheduled searches. 3. Share the searches at the app level and grant read/write permission.</td>
</tr>
</tbody>
</table>

**Data input issues**

<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>2019-06-05</td>
<td>SPL-171491</td>
<td>$SplunkStanzaName value is not set in PowerShell script.</td>
</tr>
<tr>
<td>2017-08-17</td>
<td>SPL-144130</td>
<td>After data input and click 'start searching' will redirect to Launcher app.</td>
</tr>
<tr>
<td>2015-11-12</td>
<td>SPL-109362</td>
<td>When the disk runs out of space for the limit set in the server.conf, add data workflow gets stuck with &quot;Uploading file&quot; message modal in the review stage.</td>
</tr>
<tr>
<td>2015-05-22</td>
<td>SPL-101981</td>
<td>Field extractions do not work when sourcetypes use quotes in the Getting Data In interface.</td>
</tr>
<tr>
<td>2015-03-17</td>
<td>SPL-98163</td>
<td></td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>2014-03-10</td>
<td>SPL-81637</td>
<td>Splunkd preview runs indefinitely on any file preview with &quot;DATETIME_CONFIG=none&quot;.</td>
</tr>
<tr>
<td>2013-10-29</td>
<td>SPL-75764</td>
<td>Forwarder forwards duplicate data after props.conf is in place for cross platform scenario/when the forwarder is on Solaris and the indexer is on Linux.</td>
</tr>
<tr>
<td>2013-10-11</td>
<td>SPL-75116</td>
<td>The UI does not show configured items of some newly converted windows modular inputs that contain the name &quot;default&quot; in the stanza</td>
</tr>
<tr>
<td>2013-09-10</td>
<td>SPL-74209, SPL-74167</td>
<td>Persistent queues are not created on Windows for stanzas that contain unusual characters (such as &lt; and &gt;).</td>
</tr>
</tbody>
</table>

**Search issues**

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2019-09-24</td>
<td>SPL-176990</td>
<td>A predicate filter in the search is ignored when the field in the filter is not extracted from _raw</td>
</tr>
</tbody>
</table>

Workaround:
Add to limits.conf on the SH:
<table>
<thead>
<tr>
<th>Date filed</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-07-25</td>
<td>SPL-173781</td>
<td>[search] phased_execution_mode = singlethreaded</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Transaction command not merging common values in multivalue fields after 7.2</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>From 7.2 onward when events with multivalue fields used for a transaction don't overlap completely, they are considered to be different transactions.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Example: In Splunk 7.1 and below this would create one transaction, but in 7.2 onward it will create two:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>If you append connected=f to the transaction command it will merge the events into one transaction if at least one value of the multivalue field overlaps:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>`</td>
</tr>
<tr>
<td>2019-07-01</td>
<td>SPL-172676, SPL-1691114</td>
<td>LookupDataProvider warning correction in splunkd.log (with ES installed)</td>
</tr>
<tr>
<td>2019-05-28</td>
<td>SPL-171188, SPL-168859</td>
<td>Any transformational commands will not include the base fields when performing search in SMART mode resulting in required field not being included</td>
</tr>
<tr>
<td>2019-02-05</td>
<td>SPL-166001</td>
<td>16MB+ events are not displayed on the search results, but they will be listed on the fields sidebar and in the timeline. search.log message: &quot;SRSSerializer - max str len exceeded - probably corrupt&quot;</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround:</td>
</tr>
<tr>
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<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
</tbody>
</table>
| 2018-12-18 | SPL-164107, SPL-169524 | Make sure fields are under 16777216 characters (or 16MB, usually _raw is the biggest)  
OR  
Revert back to the old serialization format (CSV), however, this applies to all searches, so you won’t be getting the (performance) benefits of the new format.  
$SPLUNK_HOME/etc/system/local/limits.conf: [search] results_serial_format=csv |
| 2018-12-18 | SPL-164107, SPL-169524 | the mstats rate(x) function does not work with wildcards in the enhanced syntax  
Workaround:  
The rate(x) function is designed to be applied to a single counter metric. Use an explicit projection field name or use "_value" syntax with wildcard and group by. |
| 2017-08-23 | SPL-144350 | Archived Index is created without error when the splunk index is invalid |
| 2017-08-03 | SPL-143607 | Searches ordered like this returns false results:  
search ... | eventstats ... | streamstats ...,  
because it's being run in batch mode when it shouldn't  
Workaround:  
Place the delta command before eventstats in the search pipeline:  
<p>| delta _time as d | eventstats count |
| 2017-07-13 | SPL-143111 | &quot;Splunkd daemon is not responding&quot; when edit local windows event log collection |
| 2017-04-04 | SPL-140765 | Splunk having problems extracting json file consisting of 68k plus key-value pairs |
| 2017-03-21 | SPL-140175 | Aborted delete searches may result in stale lock files being left behind |</p>
<table>
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<tr>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Workaround:_Delete stale lock files.</td>
</tr>
<tr>
<td>2016-11-29</td>
<td>SPL-133182</td>
<td>When two datasets have identical names but one is local (private) while the other is global, attempts to view or extend the global dataset use results from the local dataset instead.</td>
</tr>
<tr>
<td></td>
<td>SPL-118911</td>
<td>In SHC, referenced saved real-time searches in a dashboard do not stream results. Workaround: See Troubleshoot referenced real-time searches for workaround details.</td>
</tr>
<tr>
<td>2015-08-10</td>
<td>SPL-105061, SOLNESS-7274</td>
<td>Broken module prevents splunkweb from starting</td>
</tr>
<tr>
<td>2015-06-17</td>
<td>SPL-103247</td>
<td>Filtering on _time uses different semantics for the &quot;=&quot; operator on microseconds depending on whether the value is quoted.</td>
</tr>
<tr>
<td>2015-04-23</td>
<td>SPL-100170</td>
<td>Automatic Lookups limitation: No results returned in Smart Mode when there are nested lookups and the intermediate field is not mentioned in the search.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The replace function does not apply to fields names with an underscore in them. Workaround: Rename the fields before the replace.</td>
</tr>
<tr>
<td>2014-12-22</td>
<td>SPL-94910</td>
<td></td>
</tr>
<tr>
<td>2014-11-13</td>
<td>SPL-93039</td>
<td>The relevancy search command does not work, always returning 0 or -inf.</td>
</tr>
<tr>
<td>2014-10-02</td>
<td>SPL-91638, SPL-107375</td>
<td>For scheduled searches in a search head cluster, empty search jobs may appear in the</td>
</tr>
<tr>
<td>Date filed</td>
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</tr>
<tr>
<td>------------</td>
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<td>-------------</td>
</tr>
<tr>
<td>2014-09-15</td>
<td>SPL-90861, SPL-90396, SPL-90886</td>
<td>If search encounters invalid offsets or invalid rawdata at TSIDX offsets, it skips reading any number of events from that bucket. No message is displayed, though the information is added to search.log.</td>
</tr>
<tr>
<td>2014-04-16</td>
<td>SPL-83129</td>
<td>Eval function strptime does not return results when 1970 date is used.</td>
</tr>
<tr>
<td>2014-04-04</td>
<td>SPL-82650</td>
<td>A report created and scheduled by admin cannot be embedded by a power user.</td>
</tr>
<tr>
<td>2014-03-27</td>
<td>SPL-82357</td>
<td>The splunk clean all -f CLI command doesn't remove data from the main index on Windows systems.</td>
</tr>
</tbody>
</table>
| 2014-03-15 | SPL-81934 | For clusters, may be unable to open search results output file for search results in a cluster.  
Workaround:  
Write to a temp file and rename to the target file. |
| 2014-02-21 | SPL-80942 | Flashtimeline: 500 Internal Server Error when pasting long URL into panel name. |
| 2013-12-18 | SPL-78179 | REST /saved/searches App names with special characters have invalid links. |
| 2013-08-19 | SPL-73386 | Users are not allowed to run historical scheduled search  
Workaround:  
1. Create a special power/admin user who can run scheduled searches.  
2. Assign this user ownership of the scheduled searches.  
3. Share the searches at the app level and grant read/write permission to the correct set of users. |
## Saved search, alerting, scheduling, and job management issues

<table>
<thead>
<tr>
<th>Date filed</th>
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</tr>
</thead>
<tbody>
<tr>
<td>2019-05-22</td>
<td>SPL-170857, SPL-162249</td>
<td>The filter function of <code>&lt;splunk-search-dropdown&gt;</code> UI component is not working on on Splunk Enterprise 7.1 and later.</td>
</tr>
<tr>
<td>2018-09-19</td>
<td>SPL-160286</td>
<td>The data preview for the Add Data workflow does not display for Log to Metrics source types</td>
</tr>
<tr>
<td>2017-11-29</td>
<td>SPL-146802</td>
<td>Distributed environment requires index defined on search head for log event alerts</td>
</tr>
<tr>
<td>2016-09-23</td>
<td>SPL-129285</td>
<td>The search scheduler (SavedSplunker) has scaling problems with high disabled user count and external auth systems (SAML &amp; LDAP)</td>
</tr>
<tr>
<td>2015-11-15</td>
<td>SPL-109471</td>
<td>For Real Time Scheduled Search in search head cluster, alerts are triggered twice when members cannot HB to captain</td>
</tr>
</tbody>
</table>
| 2015-04-09 | SPL-99421 | Long name of app causes accelerated search to not complete normally and shows invalid results on Windows 2008 R2  
Workaround: Reduce length of name of the app and report acceleration searches will run properly within the context of the app. |
| 2014-08-15 | SPL-89332 | Report acceleration summaries do not show in Settings when you have hundreds of reports accelerated. |
| 2014-08-05 | SPL-88396 | After configuring a client name for a deployment client, the name is not shown in the Forwarder Management UI  
Workaround: Create a server class, where you can see the client name, and use that group when you add data. |
<p>| 2014-05-01 | SPL-83686 | Data Model Pivot: Extra NULL column displays in Pivot with big data and Numbered Attribute in |</p>
<table>
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</tr>
</thead>
</table>
|            |              | Split Columns.  
Workaround:  
The workaround is to add filter status=*, or make a more refined Data Model that has an object for events with status. |
| 2014-03-24 | SPL-82262, SPL-82241 | Pivot search command fails for an admin trying to pivot on a Private Data Model created by a User. |
| 2014-03-20 | SPL-82164 | Migrating invalid data models from 6.0 to 6.x fails. |
| 2014-03-19 | SPL-82133 | Data model allows users to upload a JSON file which has Field names with spaces but will not validate it. |
| 2014-03-10 | SPL-81645 | Data model exhibits sticky UI when "transaction group by object" name has a single (x) character. |
| 2013-11-26 | SPL-77054, SPL-77055 | Data model objects that have names starting with an underscore character ("_*") do not work correctly and cannot be used in Pivot. |

**Charting, reporting, and visualization issues**

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
</table>
| 2017-12-06 | SPL-147115 | Drilldown search fails when a timeformat is specified  
Workaround:  
Remove the timeformat specification from the drilldown search or manually remove the search from the URL and run it in a new window. |
| 2017-11-07 | SPL-146255 | limits.conf enable_clipping cloropleth setting is app/user tunable rather than global like the rest of limits.conf |
| 2016-09-15 | SPL-128819, SPL-130243, SPL-130245 | Editing panel in dashboard removes charting.legend.masterlegend option  
Workaround:  
Use <option name="charting.legend.masterLegend">null</option> |
| 2016-04-27 | SPL-118911 |                         |
In SHC, referenced saved real-time searches in a dashboard do not stream results.

Workaround:
See Troubleshoot referenced real-time searches for workaround details.

<table>
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</thead>
<tbody>
<tr>
<td>2015-03-31</td>
<td>SPL-98890</td>
<td>Maps printed from Report page do not honor custom zoom and center.</td>
</tr>
<tr>
<td>2015-02-23</td>
<td>SPL-97193</td>
<td>The initial value for Multiselect input does not display properly in Visualizations Editor if input has empty string.</td>
</tr>
</tbody>
</table>

### Data model and pivot issues

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-12-08</td>
<td>SPL-94047, SPL-98628</td>
<td>While creating a Pivot and using the _time column as a Split column, the table columns aren't formatted in a human readable way, but displayed with the epoc timestamp. It works when using _time as a 'Split Row' column.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: The workaround is to add filter status=*, or make a more refined Data Model that has an object for events with status.</td>
</tr>
<tr>
<td>2014-03-24</td>
<td>SPL-82262, SPL-82241</td>
<td>Pivot search command fails for an admin trying to pivot on a Private Data Model created by a User.</td>
</tr>
<tr>
<td>2014-03-20</td>
<td>SPL-82164</td>
<td>Migrating invalid data models from 6.0 to 6.x fails.</td>
</tr>
<tr>
<td>2014-03-19</td>
<td>SPL-82133</td>
<td>Data model allows users to upload a JSON file which has Field names with spaces but will not validate it.</td>
</tr>
<tr>
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<td>Description</td>
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<td>------------</td>
<td>------------------</td>
<td>---------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2014-03-11</td>
<td>SPL-81701</td>
<td>Data Model Pivot, &quot;Legend Position&quot; and &quot;Stack Mode&quot; change to default settings if you change the X/Y-Axis more than once.</td>
</tr>
<tr>
<td>2014-03-10</td>
<td>SPL-81645</td>
<td>Data model exhibits sticky UI when &quot;transaction group by object&quot; name has a single (x) character.</td>
</tr>
<tr>
<td>2014-03-07</td>
<td>SPL-81538</td>
<td>When using Pivot, stack mode is lost when &quot;Scatter Chart&quot; is selected.</td>
</tr>
<tr>
<td>2013-11-26</td>
<td>SPL-77054, SPL-77055</td>
<td>Data model objects that have names starting with an underscore character (&quot;_&quot;) do not work correctly and cannot be used in Pivot.</td>
</tr>
</tbody>
</table>

**Indexer and indexer clustering issues**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>2019-10-21</td>
<td>SPL-178228, SPL-176976</td>
<td>After multisite indexer cluster upgrade from 7.0.3.1 to 7.3.1 the UF/HF/SH are intermittently unable to forward data to the indexers.</td>
</tr>
<tr>
<td>2019-05-22</td>
<td>SPL-170937, SPL-167708</td>
<td>Apply cluster bundle does not apply bundle to any indexers which are in progress of adding to cluster</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: restart affected indexer(s)</td>
</tr>
<tr>
<td>2018-10-23</td>
<td>SPL-161815</td>
<td>Thawed buckets in a indexer cluster are sporadically unsearchable upon restart</td>
</tr>
<tr>
<td>2017-03-16</td>
<td>SPL-138846</td>
<td>In multisite clustering, deletion of events indexed on a different site is not pushed to other sites</td>
</tr>
<tr>
<td>2016-08-25</td>
<td>SPL-127353</td>
<td>Data rebalance finishes early when one peer is the source for all buckets</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: when only one indexer in a cluster indexed data (has all the searchable copies), rebalance once before adding the new indexer, and then rebalance a second time</td>
</tr>
<tr>
<td>2015-05-08</td>
<td>SPL-101184</td>
<td>Rolling restart in an Indexer Cluster may not be successful on a peer if a oneshot command is also running on that peer. Perform a manual restart to revive the peer.</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>2014-10-13</td>
<td>SPL-91861</td>
<td>On Windows indexer on an ec2 instance, splunk-optimize main thread can crash on buckets on the temporary drive z:.</td>
</tr>
<tr>
<td>2014-09-29</td>
<td>SPL-91432</td>
<td>On Windows when the master is down, the CLI command splunk offlinehangs when run from one of the streaming target peers.</td>
</tr>
<tr>
<td>2014-09-08</td>
<td>SPL-90630</td>
<td>On a multisite cluster, no warning is given when search head names are the same.</td>
</tr>
<tr>
<td>2014-08-29</td>
<td>SPL-90331</td>
<td>Multi-site indexer cluster doesn't meet replication factor/search head factor due to bucket issue. Workaround: From the endpoint, add the buckets missing RF/SF to the to_fix list. endpoint: https://[host]:[port]/services/cluster/master/buckets/{bucket_id}/fix</td>
</tr>
<tr>
<td>2014-07-29</td>
<td>SPL-87816</td>
<td>When implementing an indexer cluster or search head cluster, you cannot set pass4SymmKey in the general stanza. The system default values in the clustering and shclustering stanzas override any user-provided values in the general stanza. Workaround: Set the value in the [clustering] or [shclustering] stanza, depending on the type of cluster you’re implementing.</td>
</tr>
<tr>
<td>2014-07-14</td>
<td>SPL-86799</td>
<td>After adding a new license to the clustering search head, splunkd on restart cannot be reached by splunkweb.</td>
</tr>
<tr>
<td>2014-04-29</td>
<td>SPL-83636</td>
<td>If you first configure a master with default RF/SF and then give the misconfiguration command, you get an error message that is wrong.</td>
</tr>
<tr>
<td>2014-04-17</td>
<td>SPL-83169</td>
<td>on Windows, if peers' Windows explorer not closed for long enough time, adding a new index still requires a peer restart, not reload</td>
</tr>
<tr>
<td>2014-03-18</td>
<td>SPL-82038</td>
<td>Cluster-config does not work if a parameter value includes a space character.</td>
</tr>
<tr>
<td>2014-03-17</td>
<td>SPL-81955</td>
<td>Multisite: Peer takes approximately 6 minutes to restart when its site configuration is changed.</td>
</tr>
<tr>
<td>2014-01-06</td>
<td>SPL-78688</td>
<td>Peer is able to change to an invalid (empty) replication port</td>
</tr>
<tr>
<td>Date filed</td>
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<td>Description</td>
</tr>
<tr>
<td>------------</td>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2013-08-06</td>
<td>SPL-72484</td>
<td>You cannot use the CLI to delete an index with a capital letter in its name.</td>
</tr>
</tbody>
</table>

**Distributed search and search head clustering issues**

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-03-13</td>
<td>SPL-167652</td>
<td>SHC-Repl: Enterprise Security app enabling inputs.conf replication causes issue when adding new SHC member.</td>
</tr>
<tr>
<td>2018-03-14</td>
<td>SPL-152148</td>
<td>KV store replication fails on the upgrade search head during SHC member-by-member upgrade. Workaround:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>To ensure there is no kvstore activity during upgrade, perform an offline upgrade as follows:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1. Shutdown all cluster members.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Upgrade all members.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Start the member</td>
</tr>
<tr>
<td>2017-11-29</td>
<td>SPL-146802</td>
<td>Distributed environment requires index defined on search head for log event alerts</td>
</tr>
<tr>
<td>2017-03-13</td>
<td>SPL-138654</td>
<td>Splunk searches fail when filepath gets too long on Windows</td>
</tr>
<tr>
<td>2016-07-12</td>
<td>SPL-124085</td>
<td>On Search Head Cluster It is not possible to remove an App from the SHs once it has been disabled.</td>
</tr>
<tr>
<td>2015-11-15</td>
<td>SPL-109471</td>
<td>For Real Time Scheduled Search in search head cluster, alerts are triggered twice when members cannot HB to captain</td>
</tr>
<tr>
<td>2015-09-23</td>
<td>SPL-106978</td>
<td>Failed SHC captain election causes unnecessary change in server.conf</td>
</tr>
<tr>
<td>2015-02-26</td>
<td>SPL-97385</td>
<td>$SPLUNK_HOME/var/run/splunk/snapshot contains large tarballs in the presence of large ES lookup table files.</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: The allowable size of the download can be increased by setting the following in server.conf.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[httpServer] max_content_length = 1500MB</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The other option is to disable the search which controls the generation of the large lookup file. In this case, the search is:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[Endpoint - Local Processes Tracker - Lookup Gen]</td>
</tr>
<tr>
<td>2014-08-25</td>
<td>SPL-90028</td>
<td>Using &quot;inputcsv dispatch=true&quot; to read a CSV from a dispatch directory may not work on search head cluster members that have a replica of the desired artifact.</td>
</tr>
<tr>
<td>2014-08-14</td>
<td>SPL-89131</td>
<td>In a search head cluster, the search Job management page on cluster member doesn't immediately reflect 'isSaved' state after you click Save.</td>
</tr>
<tr>
<td>2014-08-02</td>
<td>SPL-88228</td>
<td>When user clicks on the RSS feed for an alert, search pool information is not displayed. Individual pool member information is displayed, however.</td>
</tr>
</tbody>
</table>

**Universal forwarder issues**

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-04-10</td>
<td>SPL-153251</td>
<td>Universal Forwarder txz package cannot be installed on FreeBSD 11.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: 1. Use pkg install instead of pkg add</td>
</tr>
<tr>
<td></td>
<td></td>
<td>OR 2. Install package by untarring tgz file to /opt/splunkforwarder</td>
</tr>
<tr>
<td>2015-04-14</td>
<td>SPL-99687, SPL-129637</td>
<td>Splunk universal forwarder is 7-10 days behind recent Windows Security and system log events.</td>
</tr>
</tbody>
</table>
### Workaround:

To mitigate this, edit the following stanza in inputs.conf:

```plaintext
[WinEventLog://Security]
evt_resolve_ad_obj = 0.
```

### Universal Forwarders stop sending data repeatedly throughout the day

**Date filed:** 2015-04-07  
**Issue number:** SPL-99316

**Description:** Universal Forwarders stop sending data repeatedly throughout the day

**Workaround:**

In limits.conf, try changing `file_tracking_db_threshold_mb` in the `[inputproc]` stanza to a lower value.

---

### After configuring a client name for a deployment client, the name is not shown in the Forwarder Management UI

**Date filed:** 2014-08-05  
**Issue number:** SPL-88396

**Description:** After configuring a client name for a deployment client, the name is not shown in the Forwarder Management UI

**Workaround:**

Create a server class, where you can see the client name, and use that group when you add data.

---

### The Splunk universal forwarder installer for Solaris 10 does not add the splunk user when you attempt to install it using the `pkgadd` command. This results in the script generating lots of errors.

**Date filed:** 2013-09-18  
**Issue numbers:** SPL-74427, SPL-74448

**Description:** The Splunk universal forwarder installer for Solaris 10 does not add the splunk user when you attempt to install it using the `pkgadd` command. This results in the script generating lots of errors.

**Workaround:**

To work around this issue, create a splunk user on your system before attempting to run the installer.

---

## Distributed deployment, forwarder, deployment server issues

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014-10-02</td>
<td>SPL-91648, SPL-91358</td>
<td>Forwarder unable to push scripted inputs to a Linux deployment client from a Windows deployment server.</td>
</tr>
<tr>
<td>2014-08-15</td>
<td>SPL-89333</td>
<td>Using client filtering in forwarder management interface when the deployment server is servicing a large numbers of deployment clients (over approximately 5000) can cause a temporary spike</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>2014-06-20</td>
<td>SPL-85739</td>
<td>When running a high number of deployment clients for a server, memory growth may be excessive. Workaround: To mitigate this, set forceHttp10=always.</td>
</tr>
</tbody>
</table>

### Monitoring Console/DMC issues

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-10-10</td>
<td>SPL-161159, SPL-171211, SPL-174926, SPL-175193</td>
<td>DMC/MC (UI) - KV Store-&gt; Instance -&gt; 'Average Replication Lag' is removed. The user no longer will be able to see 'Average Replication Lag' for each instance.</td>
</tr>
<tr>
<td>2017-08-18</td>
<td>SPL-144193</td>
<td>Bundle validation errors prevent future app deployment to indexer cluster</td>
</tr>
<tr>
<td>2017-08-14</td>
<td>SPL-143981</td>
<td>Uninstall app dialog does not show the app name correctly when the app doesn't have the label</td>
</tr>
<tr>
<td>2017-08-04</td>
<td>SPL-143664</td>
<td>Uploaded apps page makes two calls to packages endpoint</td>
</tr>
<tr>
<td>2017-05-24</td>
<td>SPL-141982</td>
<td>Upload modal should use size=large File element</td>
</tr>
<tr>
<td>2017-04-19</td>
<td>SPL-141274</td>
<td>Clicking Install multiple times in Install dialog causes error</td>
</tr>
<tr>
<td>2017-04-19</td>
<td>SPL-141273</td>
<td>Task endpoint fetch once even when there's no last deploy task id</td>
</tr>
<tr>
<td>2017-03-07</td>
<td>SPL-138351, SPL-172626</td>
<td>The role change of DMC via UI does not reflect to distsearch.conf Workaround: As a workaround can the customer manually modify the distsearch.conf.</td>
</tr>
<tr>
<td>2016-11-14</td>
<td>SPL-132151</td>
<td>XML error when trying to download uninstalled app</td>
</tr>
</tbody>
</table>
## Splunk Web and interface issues

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-05-22</td>
<td>SPL-170857, SPL-162249</td>
<td>The filter function of <code>&lt;splunk-search-dropdown&gt;</code> UI component is not working on Splunk Enterprise 7.1 and later.</td>
</tr>
<tr>
<td>2017-08-23</td>
<td>SPL-144350</td>
<td>Archived Index is created without error when the splunk index is invalid</td>
</tr>
<tr>
<td>2017-07-13</td>
<td>SPL-143111</td>
<td>&quot;Splunkd daemon is not responding&quot; when edit local windows event log collection</td>
</tr>
<tr>
<td>2016-11-14</td>
<td>SPL-132133</td>
<td>App Browser filtering of the apps does not work</td>
</tr>
<tr>
<td>2015-11-09</td>
<td>SPL-109165</td>
<td>Interactive Field Extractor hangs when using &quot;^&quot; as delimiter.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: Use props and transforms to specify the delimiter of your choice.</td>
</tr>
<tr>
<td>2015-08-10</td>
<td>SPL-105061, SOLNESS-7274</td>
<td>Broken module prevents splunkweb from starting</td>
</tr>
<tr>
<td>2015-06-30</td>
<td>SPL-103701</td>
<td>Actions links should be removed for &quot;Apps Browser&quot;</td>
</tr>
<tr>
<td>2014-07-16</td>
<td>SPL-87015</td>
<td>chart count by source and &quot;</td>
</tr>
<tr>
<td>2014-04-04</td>
<td>SPL-82650</td>
<td>A report created and scheduled by admin cannot be embedded by a power user.</td>
</tr>
<tr>
<td>2014-02-26</td>
<td>SPL-81103</td>
<td>Username surrounded by dollar signs cannot create saved searches.</td>
</tr>
<tr>
<td>2013-11-20</td>
<td>SPL-76798</td>
<td>Time range picker is not customizable via times.conf the same as version 5 or as suggested by docs.</td>
</tr>
<tr>
<td>2013-08-19</td>
<td>SPL-73386</td>
<td>Users are not allowed to run historical scheduled search</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>-------------</td>
<td>--------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: 1. Create a special power/admin user who can run scheduled searches.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>2. Assign this user ownership of the scheduled searches.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>3. Share the searches at the app level and grant read/write permission to the correct set of users.</td>
</tr>
</tbody>
</table>

**Windows-specific issues**

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-06-07</td>
<td>SPL-171660,</td>
<td>Splunk is filling the &quot;C:/Windows/Temp&quot; folder with .tmp files</td>
</tr>
<tr>
<td></td>
<td>SPL-166645</td>
<td></td>
</tr>
<tr>
<td>2019-06-05</td>
<td>SPL-171491</td>
<td>$SplunkStanzaName value is not set in PowerShell script</td>
</tr>
<tr>
<td>2015-11-13</td>
<td>SPL-109430</td>
<td>In Windows only, inheritance is broken for folders created by splunkd. Files created are accessible only to the user as whom splunkd is running.</td>
</tr>
<tr>
<td>2015-04-14</td>
<td>SPL-99687,</td>
<td>Splunk universal forwarder is 7-10 days behind recent Windows Security and system log events.</td>
</tr>
<tr>
<td></td>
<td>SPL-129637</td>
<td></td>
</tr>
<tr>
<td>2015-04-01</td>
<td>SPL-98978</td>
<td>Workaround: To mitigate this, edit the following stanza in inputs.conf: [WinEventLog://Security] evt_resolve_ad_obj = 0.</td>
</tr>
<tr>
<td>2014-09-25</td>
<td>SPL-91279</td>
<td>On differing versions of Splunk Enterprise indexer (5.0.1) and universal forwarder (6.2.2), collection of the Security Event log can take increasingly longer over time.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: To fix the problem, restart Windows on the forwarder.</td>
</tr>
</tbody>
</table>
Splunk Universal Forwarder on Windows (specifically, the splunk-perfmon.exe process) does not release key handles.

Workaround:

The UI does not show configured items of some newly converted windows modular inputs that contain the name "default" in the stanza.

Workaround:
Edit inputs.conf: in stanzas that contain WinRegMon://default, replace "default" with something else, then restart splunk.

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2013-10-11</td>
<td>SPL-75116</td>
<td>Splunk Universal Forwarder on Windows (specifically, the splunk-perfmon.exe process) does not release key handles.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>The UI does not show configured items of some newly converted windows modular inputs that contain the name &quot;default&quot; in the stanza.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: Edit inputs.conf: in stanzas that contain WinRegMon://default, replace &quot;default&quot; with something else, then restart splunk.</td>
</tr>
</tbody>
</table>

Rest, Simple XML, and Advanced XML issues

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-07-13</td>
<td>SPL-143111</td>
<td>&quot;Splunkd daemon is not responding&quot; when edit local windows event log collection</td>
</tr>
<tr>
<td>2016-10-31</td>
<td>SPL-131072</td>
<td>Datamodel backend allows invalid time values</td>
</tr>
<tr>
<td>2013-05-15</td>
<td>SPL-67453</td>
<td>When sending the following XML data as a GET or POST param to a custom splunkd endpoint: &lt;dashboard&gt;&lt;foo&gt;&lt;/dashboard&gt;, the endpoint actually receives:&lt;dashboard&gt;&lt;foo&gt;&lt;/dashboard&gt;.</td>
</tr>
</tbody>
</table>

Authentication and Authorization issues

For a list of security issues, please see the Security Advisory. A list of all recent advisories can be found in the Security Portal.

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2018-04-13</td>
<td>SPL-153403</td>
<td>After running the &quot;clean userdata&quot; command, admin is unable to login with msg &quot;No users exist. Please set up a new user.&quot;</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>2016-07-26</td>
<td>SPL-125052</td>
<td>Workaround: Create a <code>$SPLUNK_HOME/etc/system/local/user-seed.conf</code> and restart Splunk. [user_info] <code>PASSWORD = &lt;yourpassword&gt;</code></td>
</tr>
<tr>
<td>2016-07-26</td>
<td>SPL-125052</td>
<td>Sole Admin can demote his/herself to Power without path of recovery in GUI. Workaround: Through the command line, you can open notepad and modify the password file.</td>
</tr>
<tr>
<td>2015-11-13</td>
<td>SPL-109427</td>
<td>LDAP SSL no longer working in Splunk 6.3 (and later) for Windows 2003. Workaround: The workaround is to 1) obtain Ciphers configured on Windows AD 2003 server. 2) tweak <code>TLS_CIPHER_SUITE</code> command in etc/openldap/ldap.conf to match it. The following is a working <code>TLS_CIPHER_SUITE</code> for one of the customers: <code>HIGH:MEDIUM:@STRENGTH:+3DES:+RC4:!aNULL:!MD5:!SRP:!PSK:!aDSS:!kECDH:!kDH:!SEED,!IDEA,!RC2:!RC5</code></td>
</tr>
<tr>
<td>2012-02-22</td>
<td>SPL-48342</td>
<td>LDAP strategy host field cannot work with ipv6 format address but computer name is okay.</td>
</tr>
</tbody>
</table>

**Admin and CLI issues**

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-08-05</td>
<td>SPL-174406,</td>
<td>Root unable to run splunk cli if SPLUNK_OS_USER is set.</td>
</tr>
<tr>
<td></td>
<td>SPL-109254</td>
<td></td>
</tr>
<tr>
<td>2017-11-29</td>
<td>SPL-146820</td>
<td>Unable to access some settings/manager pages (data model editor) if LINE_BREAKER is defined for a sourcetype. Workaround: Navigate to a visible app, such as the search and reporting app, and access the Splunk settings pages from that app context.</td>
</tr>
<tr>
<td>2017-11-07</td>
<td>SPL-146255</td>
<td>limits.conf enable_clipping cloropleth setting is app/user tunable rather than global like the rest of limits.conf.</td>
</tr>
<tr>
<td>2017-04-11</td>
<td>SPL-141051</td>
<td>When LINE_BREAKER is defined for a sourcetype, UI forces SHOULD_LINEMERGE to true. Workaround: None in Splunk Cloud.</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>2017-04-03</td>
<td>SPL-140747</td>
<td>SSL connection in Python when using new ciphers may be slow.</td>
</tr>
<tr>
<td>2016-11-09</td>
<td>SPL-131880</td>
<td>Reports/Alerts owned by the deleted user can not be found in orphaned tab</td>
</tr>
<tr>
<td>2015-09-23</td>
<td>SPL-106978</td>
<td>Failed SHC captain election causes unnecessary change in server.conf</td>
</tr>
<tr>
<td>2015-03-11</td>
<td>SPL-97942</td>
<td>Capability defined in an app does not take effect when assigned to a role</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: The workaround is to change the ui-prefs in ./.etc/users/username/local/ui-prefs.conf to look like this:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[search] display.events.fields =</td>
</tr>
<tr>
<td></td>
<td></td>
<td>[&quot;description&quot;,&quot;except_extract_1&quot;,&quot;except_extract_2&quot;,&quot;except_extract_3&quot;,&quot;sap_order_status&quot;,&quot;sourcetype&quot;,&quot;source&quot;,&quot;status&quot;,&quot;request_mode&quot;,&quot;request_id&quot;,&quot;request_status_id&quot;,&quot;object_id&quot;,&quot;BillToCity_&quot;,&quot;Airline_&quot;,&quot;BillToName_&quot;,&quot;BillToCountry_&quot;,&quot;City_&quot;]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>display.events.type = table</td>
</tr>
<tr>
<td>2014-04-07</td>
<td>SPL-82699</td>
<td>SSO: Acceleration icon fails to display in Searches, Reports, and Alerts page.</td>
</tr>
<tr>
<td>2013-05-25</td>
<td>SPL-68010</td>
<td>The error thrown when your Splunk instance cannot connect to splunkbase/.../checkforupdate is not an ERROR, should be lowered to INFO</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: Set server.conf [applicationsManager] allowInternetAccess = false</td>
</tr>
<tr>
<td>2013-05-02</td>
<td>SPL-66511</td>
<td>If $SPLUNK_HOME/etc is located on a case-insensitive filesystem, create a new view with the same name as an existing view but with different case (capital letters vs lowercase, etc) and it will silently overwrite the existing view.</td>
</tr>
</tbody>
</table>

**Unsorted issues**

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-07-01</td>
<td>SPL-172676, SPL-169114</td>
<td>LookupDataProvider warning correction in splunkd.log (with ES in indexer)</td>
</tr>
<tr>
<td>2018-12-18</td>
<td>SPL-164107, SPL-169524</td>
<td>The mstats rate(x) function does not work with wildcards in the enhanced syntax.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: The rate(x) function is designed to be applied to a single counter metric. Use an explicit projection field name or use &quot;_value&quot; syntax with wildcard and group by.</td>
</tr>
<tr>
<td>2018-10-17</td>
<td>SPL-161632</td>
<td>customer can't install RPM Splunk 7.2 file in Red Hat EL5</td>
</tr>
<tr>
<td>2018-10-10</td>
<td>SPL-161159, SPL-171211, SPL-174926, SPL-175193</td>
<td>DMC/MC (UI) - KV Store-&gt; Instance -&gt; 'Average Replication Lag' is removed. The user no longer will be able to see &quot;Average Replication Lag&quot; for each instance.</td>
</tr>
<tr>
<td>2018-09-19</td>
<td>SPL-160286</td>
<td>The data preview for the Add Data workflow does not display for Log to Metrics source types</td>
</tr>
<tr>
<td>2018-09-04</td>
<td>SPL-159598</td>
<td>KV store fails to start on an indexer if the first time initialization of the splunkd process fails.</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2018-04-18</td>
<td>SPL-153555, SPL-152283</td>
<td>mongod errors out on distros with older glibc (2.7 and below) with &quot;Invalid access at address: 0x10&quot;</td>
</tr>
<tr>
<td>2018-04-10</td>
<td>SPL-153251</td>
<td>Universal Forwarder txz package cannot be installed on FreeBSD 11.1 &lt;br&gt;Workaround: &lt;br&gt;1. Use pkg install instead of pkg add &lt;br&gt;OR 2. Install package by untarring tgz file to /opt/splunkforwarder</td>
</tr>
<tr>
<td>2017-05-23</td>
<td>SPL-141961</td>
<td>Older 6.0, 6.1, 6.2, 6.3 maintenance release versions unable to connect to 6.6.x and later via management port &lt;br&gt;Workaround: &lt;br&gt;This applies to License Master/Slave, Deployment Server/Client, Cluster Master/Peers, Search Head/Peers and affects Splunk 6.6.x and the following versions: &lt;br&gt;• 6.0.0 to 6.0.6 &lt;br&gt;• 6.1.0 to 6.1.4 &lt;br&gt;• 6.2.0 to 6.2.6 &lt;br&gt;• 6.3.0 to 6.3.1 &lt;br&gt;• 6.3.1511.1 &lt;br&gt;Upgrade your older instances to the latest maintenance releases or on your 6.6.x Splunk instances. Add the following stanza to server.conf: &lt;br&gt;<code>text [sslConfig] sslVersions = *,-ssl2 sslVersionsForClient = *,-ssl2 cipherSuite = TLSv1+HIGH:TLSv1.2+HIGH:@STRENGTH </code></td>
</tr>
<tr>
<td>2017-05-23</td>
<td>SPL-141964</td>
<td>Older 6.0 and 6.1 maintenance release forwarders unable to forward events to 6.6.x and later indexers via splunktcp-ssl. &lt;br&gt;Workaround: &lt;br&gt;This affects communication between Splunk 6.6.x and later indexers and: &lt;br&gt;• 6.0.0 to 6.0.6 forwarders &lt;br&gt;• 6.1.0 to 6.1.4 forwarders</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>2017-03-27</td>
<td>SPL-140442, SOLNESS-11786</td>
<td>In Splunk Enterprise 6.6.0 and later, with Enterprise Security 4.5.2 and 4.6.0, roles without &quot;edit_roles&quot; capability cannot perform operations on notable event review statuses. <strong>Workaround:</strong> If users cannot perform operations on notable event review statuses or have issues viewing &quot;Edit all selected&quot; links on Incident Review, user roles must be provided with the &quot;edit_roles&quot; capability.</td>
</tr>
<tr>
<td>2017-03-20</td>
<td>SPL-139019</td>
<td>Possible compatibility issues between Python / SDK clients and new 6.6 and later default sslVersions, cipherSuites <strong>Workaround:</strong> Users can do either of the following: 1. Overwrite the new Splunk 6.6 server.conf [sslConfig] sslVersions, cipherSuites with your own settings that are compatible with your version of OpenSSL, e.g. the previous defaults from 6.5.x are compatible with OpenSSL 0.9.8 on Mac OSX:</td>
</tr>
<tr>
<td>2017-03-14</td>
<td>SPL-138731</td>
<td>New 6.6 and later default SHA256/2048-bit key certificates are not compatible with previous versions SHA1/1024-bit key certificates if cert verification is enabled. <strong>Workaround:</strong> Users can do any of the following: 1. Disable certificate verification - the same root certificate is available with every Splunk download so enabling certificate verification while using the default certificates provides very little additional security.</td>
</tr>
<tr>
<td>2017-03-13</td>
<td>SPL-138647</td>
<td>Possible compatibility issues between new 6.6 and later default sslVersions, cipherSuites and external services, e.g. e-mail, LDAP. <strong>Workaround:</strong> If security is not a significant concern, simply revert back to the 6.5.x SSL/TLS defaults, e.g. for e-mail, add to $SPLUNK_HOME/etc/system/local/alert_actions.conf</td>
</tr>
</tbody>
</table>
To configure LDAP with the same settings used by e-mail alerts:

```
TLS_PROTOCOL_MIN 3.1
TLS_CIPHER_SUITE TLSv1+HIGH:TLSv1.2+HIGH:@STRENGTH
```

To completely revert the LDAP configuration to the 6.5.x SSL/TLS defaults, comment out TLS_PROTOCOL_MIN and TLS_CIPHER_SUITE.

If you would like to retain the more secure 6.6.x defaults, but prefer to add an exception for your less secure external services, follow the procedure below:

1. To determine what `sslVersions` and `cipherSuites` are supported by a server, run `splunk cmd openssl s_client -connect hostname:port | awk '/Protocol/ || /Cipher/ || /Verify/'`.

   The example below is for a Postfix SMTP server:

   ```
eserv@indexer01:~$ splunk cmd openssl s_client -connect smtp-server01:465 | awk '/Protocol/ || /Cipher/ || /Verify/'
Protocol : TLSv1
  Cipher : DHE-RSA-AES256-SHA
  Verify return code: 19 (self signed certificate in certificate chain)
```

2. Check the OpenSSL output for Protocol and Cipher. In the example above, Protocol = TLSv1 and Cipher = DHE-RSA-AES256-SHA

3. Update Splunk's relevant `sslVersions` and/or `cipherSuite`. In the example above, `sslVersions` should be set to `tls` (allows TLSv1, TLSv1.1, TLSv1.2) and DHE-RSA-AES256-SHA should be appended to the end of the default `cipherSuites` definition, e.g. add `$SPLUNK_HOME/etc/system/local/alert_actions.conf`:

   ```
   sslVersions = *,-ssl2
   cipherSuite = TLSv1+HIGH:TLSv1.2+HIGH:@STRENGTH
   ```

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016-11-21</td>
<td>SPL-132670</td>
<td>Mac OS 10.11: disable boot-start doesn't remove the file /Library/</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
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<td>-------------------------------------------------------------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>2015-06-10</td>
<td>SPL-103010</td>
<td>Indexing throughput on a forwarder with four pipelinesets drops 30% compared to a forwarder with two pipelinesets.</td>
</tr>
<tr>
<td>2015-03-25</td>
<td>SPL-98594</td>
<td>Routing events to two different groups not working as expected.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2014-11-10</td>
<td>SPL-92831</td>
<td>A mismatch of versions between the license-master and the license-slave is generating Warning messages like &quot;WARN LMDirective - directive cmd=D_set_feature_state args='Acceleration,ENABLED' failed: reason='feature='Acceleration' is invalid'.&quot;</td>
</tr>
<tr>
<td>2014-10-17</td>
<td>SPL-92162</td>
<td>Writing large amounts of data (&gt; 20 GB) to KV store collections using outputlookup can result in high memory usage on the machine.</td>
</tr>
<tr>
<td>2014-08-20</td>
<td>SPL-89640</td>
<td>When running Splunk on Linux as non-root user and using RPM to upgrade, the RPM writes $SPLUNK_HOME/var/log/introspection as root, causing errors upon restarts.</td>
</tr>
<tr>
<td>2014-04-22</td>
<td>SPL-83365</td>
<td>Splunk Enterprise on Windows does not show an error message when a user without the edit_license capability tries to add a license through the CLI.</td>
</tr>
<tr>
<td>2014-03-12</td>
<td>SPL-81810</td>
<td>Licensing - license pool warning at license master keeps coming back after deleting it.</td>
</tr>
<tr>
<td>2013-11-27</td>
<td>SPL-77139</td>
<td>Licenser pool usage gets reflected only after restarting splunkd.</td>
</tr>
<tr>
<td>2013-09-18</td>
<td>SPL-74427, SPL-74448</td>
<td>The Splunk universal forwarder installer for Solaris 10 does not add the splunk user when you attempt to install it using the pkgadd command.</td>
</tr>
<tr>
<td>2013-09-13</td>
<td>SPL-74337, BETA-496</td>
<td>You cannot specify a destination folder when installing on OSX.</td>
</tr>
<tr>
<td>2013-06-13</td>
<td>SPL-69304</td>
<td>If license slaves are running &lt;6.0 version, they do not have the idx field and in the License Usage view, the split by index field will show a field named UNKNOWN.</td>
</tr>
</tbody>
</table>
## Uncategorized issues

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-09-09</td>
<td>SPL-176190, SPL-178138, SPL-176640</td>
<td>Count option is not working when it is set with a token. Workaround: In 7.3, page displays 5 records even after user selects 50. A browser refresh is required to display 50 records.</td>
</tr>
<tr>
<td>2019-09-02</td>
<td>SPL-175783</td>
<td>Search results for the stats function perc95() are different for DFS and Splunk Enterprise. Workaround: Use exactpercX(Y) function instead of perc95() to get more accurate results.</td>
</tr>
<tr>
<td>2019-08-08</td>
<td>SPL-174634, SPL-175167, SPL-175272, SPL-175273</td>
<td>$message$ token is not working for &lt;fail&gt; search event handler.</td>
</tr>
<tr>
<td>2019-05-22</td>
<td>SPL-170856, SPL-170282</td>
<td>S3Client shows statusCode=403 with a wrong access_key when multiple on-prem remote storages are configured.</td>
</tr>
<tr>
<td>2019-03-26</td>
<td>SPL-168314</td>
<td>SmartStore standalone instance + Monitoring Console: Bootstrapping panel needs to reflect the standalone bootstrapping process.</td>
</tr>
</tbody>
</table>
| 2018-03-20 | SPL-152330, SPL-151992 | After installing Splunk on Windows using msiexec and the "GENRAN
d(and if generated password ends with backslash) admin is unable to log in. Please set up a new user." Workaround: Create a $SPLUNK_HOME/etc/system/local/user-seed.conf and restart Splunk, add indexes_edit and dispatch_rest_to_indexers capability to the Power role for all indexes to be listed. |
<p>| 2018-03-14 | SPL-152095 | Edit Summary Indexing - Index List empty/incomplete for User with Power role in Splunk 6.6.0+. Workaround: add indexes_edit and dispatch_rest_to_indexers capability to the Power role for all indexes to be listed. |
| 2017-08-08 | SPL-143777 | Chart: missing time axis label near daylight savings boundary. |
| 2017-05-09 | SPL-141693 | |</p>
<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-04-27</td>
<td>SPL-141478</td>
<td>_index_name does not resolve properly when used with the thawedPath.</td>
</tr>
<tr>
<td>2017-01-18</td>
<td>SPL-135260</td>
<td>Search formatting keyboard shortcut does not work for French language.</td>
</tr>
<tr>
<td>2017-01-06</td>
<td>SPL-134707</td>
<td>Splunk restart does not create missing server.pem certificate on Windows.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: Use Template:Bin/splunk createssl server-cert -d etc/auth/ -n server to generate a new certificate.</td>
</tr>
<tr>
<td>2016-11-23</td>
<td>SPL-132925</td>
<td>Table data rows generated with the addcoltotals command do not show up.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: If you are using addcoltotals to generate a totals data row, renaming the _time field can cause PDF generation issues.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Remove the label and labelfield or change the label to a number to generate the PDF as expected.</td>
</tr>
<tr>
<td>2016-06-21</td>
<td>SPL-123174</td>
<td>JSON indexed_extractions doesn't work for TCP inputs</td>
</tr>
<tr>
<td>2015-10-07</td>
<td>SPL-107606</td>
<td>Inconsistency between summary and datamodel_summary files.</td>
</tr>
<tr>
<td>2015-05-24</td>
<td>SPL-102008</td>
<td>On Internet Explorer, a warning message does not display when you change the time zone difference.</td>
</tr>
<tr>
<td>2015-05-11</td>
<td>SPL-101289</td>
<td>When the number of indexing pipeline sets is greater than four, indexing throughput decreases.</td>
</tr>
<tr>
<td>2015-05-06</td>
<td>SPL-100980</td>
<td>Single indexer does not scale when receiving parsed data from multiple pipeline sets.</td>
</tr>
<tr>
<td>2015-05-04</td>
<td>SPL-100792</td>
<td>There are multiple group=thruput metrics lines in metrics.log. Searches that do not differentiate among them may get falsely high totals.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: Searches that key off these lines need to select their desired name=x category in order to see a single thruput value.</td>
</tr>
<tr>
<td>2015-04-24</td>
<td>SPL-100322</td>
<td>A view gets stuck with &quot;loading&quot; due to problematic navigation (default view).</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Workaround: Workaround is to use label attribute for collection element.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt;collection label=&quot;Others&quot;&gt;</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
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<td>-------------</td>
</tr>
</tbody>
</table>
| 2015-03-26 | SPL-98700    | splunkd Indexer crashes in IndexerTPoolWorker due to duplicated bucket.  
Workaround:  
The workaround is to remove the duplicated bucket. |
| 2015-02-26 | SPL-97389    | When using timechart command, the embedded report shows different time format than the original report. |
| 2015-01-08 | SPL-95144, SPL-107317, SPL-101986, SPL-101987, SPL-106884, SPL-142789 | Indexed message for Windows security event logs shows "FormatMessage error".  
Workaround:  
Splunk believes this was introduced in a Microsoft Windows patch. The workaround is to configure a delayed start of the Splunk service(s) so that it starts after the Windows Event Log service. |
| 2014-10-31 | SPL-92596    | After upgrade from Splunk Enterprise 6.1 or earlier to 6.4.x on Windows, splunkweb service does not start automatically. Attempts to start it manually show "Error 1053: The service did not respond to the start or control request in a timely fashion."  
Workaround:  
This is expected behavior. See the Splunk Answers post:  
| 2014-10-24 | SPL-92432, SPL-99583 | Chart in dashboard panel does not honor interval settings.  
Workaround:  
In the panel XML, specify a larger height to use the correct interval settings. |
| 2014-09-11 | SPL-90738    | Monitoring a directory with an unknown sourcetype produces indexing errors. |
| 2014-08-26 | SPL-90139    | <timestamp> does not display in the Patterns tab when searches are run in fast mode. |
| 2014-06-16 | SPL-85497    | Unable to save generated PDFs using Chrome internal PDF viewer.  
Workaround:  
Enable Adobe Acrobat or Acrobat Reader as the default PDF viewer. For more information, see https://support.google.com/chrome/answer/142056. |
<p>| 2014-04-14 | SPL-83068    | Default index can be set to random index. |
| 2014-04-01 | SPL-82517    | |</p>
<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Paper Size and Layout in PDF Schedule dialog do not respect Paper Size and Layout in Email Settings.</td>
</tr>
<tr>
<td>2014-03-23</td>
<td>SPL-82238</td>
<td>Datamodel fails to drill down further when the same attribute for Split Rows and Split Columns are selected.</td>
</tr>
<tr>
<td>2014-03-13</td>
<td>SPL-81856</td>
<td>Show all lines does not work in data model editor preview.</td>
</tr>
<tr>
<td>2014-03-12</td>
<td>SPL-81781</td>
<td>In the Data Model Manager, &quot;Acceleration Status&quot; and &quot;Access Count&quot; fail to update when you click &quot;Update&quot;.</td>
</tr>
<tr>
<td>2014-02-13</td>
<td>SPL-80568</td>
<td>Highcharts determines Y-axis values based on first point outside visible range.</td>
</tr>
<tr>
<td>2014-02-07</td>
<td>SPL-80285</td>
<td>In the Data Model Editor, the Edit Lookup page is blank if Lookup is shared only in Lookup Definitions.</td>
</tr>
<tr>
<td>2014-02-06</td>
<td>SPL-80187</td>
<td>In the Data Model Editor, lookup pages open with options displayed for other Lookup when the data model definition is private but the file is app or globally shared.</td>
</tr>
<tr>
<td>2014-01-31</td>
<td>SPL-79842</td>
<td>On Windows, Indexer doesn't accept new connections on splunktcpin port after queue blockage is resolved</td>
</tr>
<tr>
<td>2013-08-28</td>
<td>SPL-73826</td>
<td>Windows: hostname override not working properly</td>
</tr>
<tr>
<td>2013-08-22</td>
<td>SPL-73569</td>
<td>Pie maps do not have legend labels.</td>
</tr>
<tr>
<td>2013-05-16</td>
<td>SPL-67491</td>
<td>PDF report: Events format settings like List, Table, MaxLines, and Wrapping don't apply to PDF report</td>
</tr>
<tr>
<td>2013-04-30</td>
<td>SPL-66213</td>
<td>PDF server app is not working with latest Xvfb</td>
</tr>
<tr>
<td>2012-11-26</td>
<td>SPL-58744</td>
<td>Area chart is not filled if the points are unconnected</td>
</tr>
<tr>
<td>2010-10-08</td>
<td>SPL-34347</td>
<td>wmi input default fields - with value including newlines doesn't search properly because of \r\n issue</td>
</tr>
</tbody>
</table>

**Splunk Analytics for Hadoop**

<table>
<thead>
<tr>
<th>Date filed</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2017-04-04</td>
<td>ERP-2040</td>
<td>Splunk archiving fails for large block sizes (buckets) due to HDFS write crashes for Hadoop version 2.8, 2.7.x</td>
</tr>
<tr>
<td>Date filed</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>------------</td>
<td>--------------</td>
<td>-------------</td>
</tr>
<tr>
<td>2015-09-09</td>
<td>ERP-1650</td>
<td>timestamp data type not properly deserialized.</td>
</tr>
</tbody>
</table>
| 2015-08-05 | ERP-1619     | Searching on a newly created archive index before the bucket copy saved search is run causes a filenotfound exception.  
Workaround:  
Reenable the bucket copy saved search and let it run, or force the archiving to happen via | archivebuckets force=1 and then rerun the search. |
| 2015-07-07 | ERP-1598     | minsplit rampup - splits generation takes too long. |
| 2015-07-07 | ERP-1502     | Non-accelerated pivot search on Pivot UI page waits for a long time to return result. |
| 2015-01-08 | ERP-1343, SPL-95174 | Splunk Analytics for Hadoop searches fail on corrupted journal.gz files, although Splunk searches run without error.  
Workaround:  
Add the journal.gz to the input path's blacklist (vix.input.1.ignore =....) |
| 2014-10-27 | ERP-1216     | Data Explorer preview does not honor existing sourcetypes for big5/sjis files. |
| 2014-10-03 | ERP-1164     | Report acceleration summary gets deleted when two Splunk Analytics for Hadoop instances point to the same Splunk working directory.  
Workaround:  
To mitigate this issue, make sure that vix.splunk.home.hdfs (or Working directory in the UI) is unique on both search heads that are not in a pool. To keep your instances in the same working directory, configure vix.splunk.search.cache.path to |
Splunk Enterprise and anti-virus products

Splunk Enterprise requires ample disk I/O bandwidth to perform indexing tasks. In particular, disk write operations are very intensive. These disk writes can clash with any product, such as anti-virus on-access scan software, that installs a driver that intermediates between Splunk Enterprise and the operating system.

When you run Splunk (Enterprise or forwarder) on a host that has an anti-virus product (such as McAfee VirusScan on Windows or Trend Micro ServerProtect on Linux) installed, Splunk strongly recommends that you exclude all Splunk processes as well as the Splunk installation directory from any kind of on-access scanning.

On Windows hosts, on-access scanners can significantly decrease performance. On *nix hosts, these scanners can use up file descriptors and render a host completely inaccessible.

Files and processes to exclude

The following table gives you a list of the Splunk directories and executables you should exclude from anti-virus scanning on a Windows host.

<table>
<thead>
<tr>
<th>Version:</th>
<th>Directories to exclude:</th>
<th>Processes to exclude:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Splunk Enterprise (Windows)</td>
<td><code>%SPLUNK_HOME%</code> and all sub-directories</td>
<td><code>splunk-admon.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-compressstool.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-MonitorNoHandle.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-netmon.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-optimize-lex.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-optimize.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-perfmon.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-regmon.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-winevtlog.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-winhostinfo.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-winprintmon.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk-wmi.exe</code></td>
</tr>
<tr>
<td></td>
<td>\Program Files\Splunk\var\lib\splunk (%SPLUNK_DB%) and all sub-directories</td>
<td><code>splunk.exe</code></td>
</tr>
<tr>
<td>Version:</td>
<td>Directories to exclude:</td>
<td>Processes to exclude:</td>
</tr>
<tr>
<td>----------</td>
<td>------------------------</td>
<td>----------------------</td>
</tr>
</tbody>
</table>
| Splunk universal forwarder (Windows) | \Program Files\SplunkUniversalForwarder (%SPLUNK_HOME%) and all subdirectories | • splunk-admon.exe  
• splunk-compress tool.exe  
• splunk-MonitorNoHandle.exe  
• splunk-netmon.exe  
• splunk-optimize-lex.exe  
• splunk-optimize.exe  
• splunk-perfmon.exe  
• splunk-regmon.exe  
• splunk-winevtlog.exe  
• splunk-winhostinfo.exe  
• splunk-winprintmon.exe  
• splunk-wmi.exe  
• splunk.exe  
• splunkd.exe |
| Splunk Enterprise (*nix) | /opt/splunk ($SPLUNK_HOME) and all subdirectories  
/opt/splunk/var/lib/splunk ($SPLUNK_DB) and all sub-directories  
OS X:  
/Applications/splunkforwarder and all sub-directories | • bloom  
• btool  
• btprobe  
• bzip2  
• cherryd  
• classify  
• exporttool  
• locktest  
• locktool  
• node  
• python*  
• splunk  
• splunkd  
• splunkmon  
• tsidxprobe  
• tsidxprobe_plo  
• walklex |
| Splunk universal forwarder (*nix) | /opt/splunkforwarder ($SPLUNK_HOME) and all subdirectories  
OS X:  
/Applications/splunkforwarder | Same as Splunk Enterprise (*nix) |
Other items to exclude

If you run a Splunk app or add-on on your Splunk Enterprise instance or forwarder, exclude any executables that might come with the app or add-on. An example is the Splunk Add-on for PowerShell - this modular input comes with an executable named `powershell.exe` that should also be excluded from anti-virus scans when it runs.

In general, any file associated with Splunk Enterprise that can be executed should be excluded from scanning. You might need to inspect additional files in apps or add-ons to determine whether or not they qualify.

Workaround for network accessibility issues on Splunk Windows systems under certain conditions

Introduction

This page discusses how to work around an issue where network-intensive Splunk Enterprise operations on a Windows system can sometimes cause that system to become inaccessible from the network.

Symptoms

A Windows system that supports a Splunk Enterprise instance which performs network-intensive operations can become inaccessible from the network after a period of time. Problems usually begin within eight to twelve hours, but can start as late as 2-3 days depending on the amount of network activity that the instance sees. When this anomaly occurs, any attempts to connect to the system remotely fail, and you must restart the computer to return it to service.

You might see the following error in splunkd.log, or in the search.log file(s) created in the individual dispatch directory that each search (scheduled or real-time) generates:

```
01-16-2013 06:55:33.935 WARN  NetUtils - Error connecting - winsock error 10055
```
Cause

This problem has multiple causes:

- By default, Windows configures a low number (5000) of available ephemeral, or short-lived, network (TCP) ports.
- When you perform network-intensive activities in Splunk Enterprise, Splunk Enterprise generates a large number of short-lived network connections, which use these ports. Network-intensive activities include but are not limited to:
  - Running a large number of concurrent real-time searches (usually from an app).
  - Configuring a deployment client to connect to a deployment server which is on the same computer.
- Once the Windows system runs out of available ports, it returns WSAENOBUFS (Windows Sockets error 10055) to any application that requests a port for network operations, and immediately becomes inaccessible from the network.

When this happens, the only way to fix the problem is to reboot the affected computer.

Note: While this problem most commonly occurs when you employ numerous concurrent real-time searches, any kind of search - and more importantly, any kind of network operation - can trigger the issue. The problem is not limited to Splunk, but Splunk can often cause the problem to appear.

This problem only appears on Windows systems.

Workaround

To work around this issue, you can complete one or both of the following steps.

Caution: The steps below require that you make administrative changes to your Windows system. These advanced changes might render your system unstable or unusable. If you are not able to make these changes, or are either unsure or uncomfortable about what to do, then contact your internal IT support organization for assistance.

1. Modify the Registry to increase the number of available user ports.
   Follow the instructions at "When you try to connect from TCP ports greater than 5000 you receive the error 'WSAENOBUFS'" (http://support.microsoft.com/kb/196271/en-us) on the Microsoft Support site to
modify the Registry and increase the number of ephemeral TCP ports.

**Important:** We suggest you complete this step first, then restart your system. If the problem persists, then perform the next step.

2. **Install a downloadable hotfix from Microsoft.** If your system is a multiple-CPU system that runs either Windows Server 2008 R2 or Windows 7, then you can download and install a hotfix which addresses this specific issue. For information and instructions on how to download and apply the hotfix, see "Kernel sockets leak on a multiprocessor computer that is running Windows Server 2008 R2 or Windows 7" (http://support.microsoft.com/kb/2577795) on the Microsoft Support site.

**Important:** This option is available only for systems with multiple CPUs that run Windows Server 2008 R2 or Windows 7.

You must restart your computer after performing either of these actions.

**Workaround for Windows universal forwarder enabling inputs unexpectedly on installation or upgrade**

**Important:**

A new build of the Splunk universal forwarder for Windows which fixes the issue described in this topic is available on Splunk's universal forwarder download page.

The fixed universal forwarder has build number 182611 and was made available on Tuesday, October 8, 2013.

**Introduction**

This page discusses how to work around an issue where installing or upgrading the Splunk 6.0 universal forwarder on Windows systems enables the Registry monitor and file system change (FSchange) inputs unexpectedly under certain conditions.

**Symptoms**

When you install or upgrade the Splunk version 6.0 universal forwarder under certain conditions as detailed below, the universal forwarder enables monitoring of the Registry and changes to the file system.
Soon after installing the universal forwarder, you might see license violations on your Splunk indexers due to the significant increase in indexing volume that the enabled inputs generate.

**Cause**

This problem has multiple causes:

- The Splunk Technology Add-on for Windows (which is included in the Splunk universal forwarder installation package) has a configuration file, `regmon-filters.conf`, which enables Registry monitoring by default.
- The TA also has an `inputs.conf` which enables the fschange input by default.
- Migration logic introduced in version 5.0 of Splunk now moves configuration information from files like `regmon-filters.conf` to `inputs.conf`. This causes specific problems in this scenario when you upgrade the universal forwarder.

This problem only appears on Windows systems.

**Workaround**

To work around this issue, follow the instructions in the table below based on the scenario that best applies to your situation:

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Impact</th>
<th>Workaround</th>
</tr>
</thead>
<tbody>
<tr>
<td>You perform a clean install of the Splunk universal forwarder, but do not enable any of the inputs that</td>
<td>No impact.</td>
<td>No workaround needed.</td>
</tr>
<tr>
<td>Scenario</td>
<td>Impact</td>
<td>Workaround</td>
</tr>
<tr>
<td>----------</td>
<td>--------</td>
<td>------------</td>
</tr>
<tr>
<td>the forwarder's installer offers to install.</td>
<td>The forwarder installs the Splunk Technology Add-on for Windows. The TA enables the Registry Monitor and FSchange inputs by default. This results in increased indexing volume and potential license violations.</td>
<td>After installing the forwarder, edit <code>regmon-filters.conf</code> and <code>inputs.conf</code> in the <code>%SPLUNK_HOME%\etc\apps\Splunk_TA_windows\local</code> directory to explicitly disable the inputs. Then, restart the universal forwarder to ensure the changes take effect. Confirm that the forwarder is no longer collecting Registry monitoring and FSchange data.</td>
</tr>
<tr>
<td>• You perform a clean install of the Splunk universal forwarder, AND • You enable one or more of the inputs that the installer offers to install.</td>
<td>After installing the Splunk Technology Add-on for Windows, edit <code>regmon-filters.conf</code> and <code>inputs.conf</code> in the <code>%SPLUNK_HOME%\etc\apps\Splunk_TA_windows\local</code> directory to explicitly disable the inputs. Then, restart the universal forwarder to ensure the changes take effect. Confirm that the forwarder is no longer collecting Registry monitoring and FSchange data.</td>
<td></td>
</tr>
<tr>
<td>Scenario</td>
<td>Impact</td>
<td>Workaround</td>
</tr>
<tr>
<td>-------------------------------------------------------------------------</td>
<td>---------------------------------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>any of the inputs that the forwarder's installer offers to install, AND</td>
<td>license violations.</td>
<td></td>
</tr>
<tr>
<td>• You subsequently install the Splunk Technology Add-on for Windows.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• You upgrade a universal forwarder from either Version 4 or 5 to Version 6, AND</td>
<td>If you have not explicitly disabled existing Windows inputs, any inputs that get migrated from their Version 4- or 5-style configuration files will be enabled by default in Version 6 due to how migration to modular inputs works.</td>
<td>After upgrading the forwarder, review inputs.conf for migrated Windows inputs, and disable inputs which you do not want enabled specifically by adding <code>disabled=1</code> to each input's stanza.</td>
</tr>
<tr>
<td>Scenario</td>
<td>Impact</td>
<td>Workaround</td>
</tr>
<tr>
<td>----------</td>
<td>--------</td>
<td>------------</td>
</tr>
<tr>
<td>Add-on for Windows (either manually or via a deployment server)</td>
<td>collection of unexpected information by the upgraded forwarder.</td>
<td></td>
</tr>
</tbody>
</table>

- You upgrade a universal forwarder from either Version 4 or 5 to Version 6, AND
- You have previously installed the Splunk Technology Add-on for Windows (either manually or via a deployment server) | If you have not explicitly disabled existing Windows inputs, any inputs that get migrated from their Version 4- or 5-style configuration files will be enabled by default in Version 6 due to how migration to modular inputs works. This leads to collection of unexpected information by the upgraded forwarder. | After upgrading the forwarder, review `inputs.conf` for migrated Windows inputs, and disable inputs which you do not want enabled specifically by adding `disabled=1` to each input's stanza.  

**Important:** You must restart Splunk on the computer after performing any changes for those changes to take effect.
Performance Monitor inputs show maximum values of 100 percent usage for a process on multicore Microsoft Windows machines

Introduction

This page discusses how to work around an issue where the standard Performance Data Helper (PDH) APIs cause Performance Monitor inputs to show maximum values of 100% usage for a process on multicore Windows machines, even when the process uses more than one core at a time.

Symptoms

Performance Monitor inputs display maximum values of 100% usage for a process on multicore Windows machines, even when the process uses more than one core at a time.

Cause

A problem was found in the PDH APIs that causes Performance Monitor inputs to show maximum values of 100% usage for a process on multicore Microsoft Windows machines, even when the process uses more than one core at a time. For example, if a process uses 5 of 8 cores on an 8-core machine, the input should return a value of approximately 500, rather than the incorrect 100.

Currently, the input uses the standard Performance Data Helper (PDH) APIs to calculate CPU usage for a process. On multicore systems, the maximum value that PDH APIs return is 100, regardless of the number of cores in the machine that the process uses.

Workaround

To work around this issue:

1. Identify how many processors are in your system. On your Windows deployment, navigate to System information to identify the total number of CPU cores in your deployment.
2. Navigate to $SPLUNK_HOME/etc/system/local/inputs.conf.
3. In the stanza for the Performance Monitor inputs where you want to use the kernel APIs to get process information, set the useWinApiProcStats function to true.
4. Restart Splunk Enterprise.

Each processor core in your system is equal to a maximum processor performance percentage of 100%. So for each core in a multicore windows deployment, 100% is added to the total maximum available processor performance percentage. For example, an 8 core windows environment will have a maximum process capability of 800%.

Total processor capability can be validated in your Splunk platform deployment by navigating to Data inputs > Local performance monitoring> Select system.

When this setting is configured to true, the Performance Monitor input uses process kernel mode and user mode times to calculate CPU usage for a process, and the input uses the GetProcessTime() function in the core Windows API to calculate CPU usage for a process, for the following Performance Monitor counters only:

- Processor Time
- User Time
- Privileged Time

The APIs this setting uses are English language only. If your Windows machine uses a non-English system locale, in the same stanza as the Performance Monitor inputs, configure the useEnglishOnly setting to true.

**Transparent huge memory pages and Splunk performance**

Some distributions of Linux (for example, Red Hat, CentOS, and Ubuntu) have an advanced memory management scheme called **Transparent Huge Pages** (THP). THP acts as an abstraction layer that lets the memory management units (MMUs) in a Linux host work with huge memory pages. With THP, this work occurs without specific action on the behalf of the administrator or the software that runs on the host.

Every CPU in a modern host has an MMU. The MMU manages memory in pages, and huge pages are structures that let MMUs manage multiple gigabytes and terabytes of memory more efficiently.
THP has been associated with degradation of Splunk Enterprise performance in at least some Linux kernel versions (for example, the 2.6.32 kernel used in Red Hat Enterprise Linux 6). When enabled, THP can significantly degrade overall system performance on systems that run Splunk Enterprise because of several issues:

- The implementation is too aggressive at coalescing memory pages for short-lived processes (such as many Splunk searches)
- It can prevent the jemalloc memory allocation implementation from releasing memory back to the operating system after use. The jemalloc implementation is more scalable version of the malloc implementation and has been used in newer distributions of Linux.
- For some workloads, it can cause I/O regressions surrounding swapping of huge pages.

On systems with THP enabled, Splunk has observed a minimum of a 30% degradation in indexing and search performance, with a similar percentage increase in latency. For this reason, Splunk recommends that you disable THP in your Linux system configuration unless that system runs an application that requires THP.

In future versions of Linux, kernel engineers might find ways to improve the behavior of THP for the Splunk workload.

See the following pages for additional information about THP and how to disable it. Specific steps on disabling the feature are not shown here because the procedure differs on each distribution.

- "How do I disable Transparent Huge Pages (THP) and confirm that it is disabled?" (http://answers.splunk.com/answers/188875/how-do-i-disable-transparent-huge-pages-thp-and-confirm.html) on Splunk Answers.
- "Performance Issues with Transparent Huge Pages" (https://blogs.oracle.com/linux/entry/performance_issues_with_transparent_huge)
- "Update on Hugepages" (https://dbakerber.wordpress.com/2015/03/11/update-on-hugepages-rewrite-to-fix-formatting/) on Andrew Kerber's Oracle DBA Weblog.
- Your Linux distribution documentation on memory management.
Linux kernel memory overcommitting and Splunk crashes

Many distributions of Linux have a parameter that controls how the kernel handles requests for large amounts of memory. The Memory Overcommit tunable kernel parameter (vm.overcommit_memory) determines whether the kernel accepts or denies such requests.

The parameter can be set by running a command such as `sysctl` or by echoing a value to a specific file on the machine. The parameter takes three values:

<table>
<thead>
<tr>
<th>Value</th>
<th>Default</th>
<th>Meaning</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>X</td>
<td>Heuristic overcommit handling, denying blatantly invalid requests</td>
</tr>
<tr>
<td>1</td>
<td></td>
<td>No overcommit handling</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Denies requests that are equal to or greater than the sum of available swap space and the percentage of physical memory as specified by the overcommit_ratio parameter</td>
</tr>
</tbody>
</table>

How this setting impacts Splunk performance

Setting this parameter to anything other than the default of 0 can cause Splunk Enterprise to crash frequently with logs that do not reliably provide information on the root cause of the crash. In particular, setting the overcommit_memory parameter to 2 can result in crashes that provide no information, which makes troubleshooting and problem diagnosis difficult to impossible.

Confirm that you have set the vm.overcommit_memory parameter to its default of 0, unless you run an app on the same machine that requires changing this parameter. As a best practice, do not run other applications on a machine that runs Splunk Enterprise, unless those applications are directly related to or required by Splunk services.

See the following for additional information about the memory overcommitting feature:

- Capacity Tuning on the Red Hat Linux Performance Tuning Guide
- Your Linux distribution documentation on memory management
Field alias behavior change

When you upgrade to version 7.2.x of Splunk Enterprise, the behavior of certain field alias configurations changes.

A field alias is a way of setting up an alternate name for a field. You can then use that alternate name to search for events that contain that field. Ideally, you should be able to define multiple aliases for a single field, but each alias you define should apply only to one source field. Additionally, when you apply a field alias configuration to a search, the expectation is that the source field is in the events, but the alias field is not in the events.

This issue involves events that do not meet that expectation. They fit into the following categories:

- Events that already include both the source field and the alias field.
- Events that already include the alias field, but which are missing the source field or have no value for the source field.

Before the 7.2.x field alias fix

In versions of Splunk Enterprise previous to 7.2.x, when you applied a field alias configuration to events that already had the alias fields, the search head made no changes to those fields. They were allowed to stay, even when this resulted in events where the values of the alias fields in the event did not match up with the values of the source fields to which they were aliased.

This behavior is an erroneous application of the field alias concept. Among other things, it allows users to associate individual aliases with multiple source fields.

Example of the old field alias behavior

Here are four events of sample log data. This is what they look like before we apply field alias processing to them. Each of these events has a sourcetype of st1 and a source of example.log.

02-19-2019 19:46:56.122 user=jessica id=123456789 uid=1241 message=this is just a simple example
02-19-2019 19:46:11.342 user=joe id=123777789 message=this is just a simple example
02-18-2019 11:12:56.854 uid=7788 message=this is just a simple example
02-18-2019 11:11:25.478 user=adam message=this is just a simple example
Now, say you want to apply this pair of `props.conf` field alias configurations to that set of events.

```
[st1]
FIELDALIAS-class1 = uid AS user

[source::example.log]
FIELDALIAS-class2 = id AS user
```

With this pair of configurations, events that share a `sourcetype` of `st1` and a `source` of `example.log` have the `user` field aliased to two different source fields: `uid` and `id`. These colliding configurations are problematic because field aliases are supposed to reference only one source field at a time.

In addition, you know that `user`, the alias field, already exists in the events. If your field alias configurations say that the value of `user` should match a value of either `uid` or `id` but the `user` field in the event already has a value of `jessica`, what is supposed to happen?

Before the 7.2.x fix, nothing happened. Under the pre-7.2.x rules for field aliasing, if an alias field is present in an event when field alias processing takes place, it remains unchanged in the event, after processing is complete. But if the alias field is not present in the event while the source field is present, the search head adds the alias field with the value of the source field in the event.

Here is what the sample events look like after field alias processing with the pre-7.2.x rules.

```
02-19-2019 19:46:56.122 user=jessica id=123456789 uid=1241 message=this is just a simple example
02-19-2019 19:46:11.342 user=joe id=123777789 message=this is just a simple example
02-18-2019 11:12:56.854 user=7788 uid=7788 message=this is just a simple example
02-18-2019 11:11:25.478 user=adam message=this is just a simple example
```

The third event is the only event that changes. Before processing, it had a source field, but no alias field. After processing it has an alias field with the value of the source field. This is how field aliases are supposed to work. But the first and second events now have alias fields that do not match the values of either source field. The fourth event has an alias field without a source field. Field aliases do not follow a consistent logic throughout the event set.
After the 7.2.x field alias fix

In 7.2.x, this bug was fixed. The fix changed the behavior when you apply a field alias configuration to an event where the alias field is already present. This table explains how the behavior has changed and why.

<table>
<thead>
<tr>
<th>Event contains source field?</th>
<th>Event contains alias field?</th>
<th>Before 7.2.x, what happened after application of the field alias configuration to the event?</th>
<th>After 7.2.x, what happens after application of the field alias configuration to the event?</th>
<th>Why does this happen?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>Yes</td>
<td>The search head replaces the value of the alias field with the value of the source field.</td>
<td>The search head replaces the value of the alias field with the value of the source field.</td>
<td>If a source field and its alias field are both present in an event they, should share the value of the source field.</td>
</tr>
<tr>
<td>No</td>
<td>Yes</td>
<td>Nothing. The search head does not change or remove the alias field.</td>
<td>The search head removes the alias field from the event.</td>
<td>If a source field is missing from an event, its alias field should not be present in that event.</td>
</tr>
<tr>
<td>Yes</td>
<td>No</td>
<td>The search head adds an alias to the event. It is given the value of the source field in the event.</td>
<td>The search head adds an alias to the event. It is given the value of the source field in the event.</td>
<td>This is the ideal environment for a field alias. It enables you to search for events using a field name that is an alias for a source field that is already present in those events.</td>
</tr>
<tr>
<td>No</td>
<td>No</td>
<td>Nothing happens. The search head leaves the event unchanged.</td>
<td>Nothing happens. The search head leaves the event unchanged.</td>
<td>If the event does not have the source field, and the alias field is also not present, there is no need</td>
</tr>
</tbody>
</table>
Event contains source field? | Event contains alias field? | Before 7.2.x, what happened after application of the field alias configuration to the event? | After 7.2.x, what happens after application of the field alias configuration to the event? | Why does this happen?
---|---|---|---|---
| | | | | to change the event.

**Example of the 7.2.x fix**

This example shows you how the 7.2.x fix changed the results of some searches. Say you start with the same two field alias configurations:

```
[st1]
FIELDALIAS-class1 = uid AS user

[source::example.log]
FIELDALIAS-class2 = id AS user
```

You apply those configurations to the same four events as the preceding examples. Here are the results:

```
02-19-2019 19:46:56.122 user=123456789 id=123456789 uid=1241 message=this is just a simple example
02-19-2019 19:46:11.342 user=123777789 id=123777789 message=this is just a simple example
02-18-2019 11:12:56.854 uid=7788 message=this is just a simple example
02-18-2019 11:11:25.478 message=this is just a simple example
```

As you can see, this results in the overwriting of user values in the first two events, and no changes to the other two events. The search head resolves the conflict between id and uid in the first event by selecting id.

The search head resolves collisions between two or more AS configurations by running through the FIELDALIAS class names in lexicographical order and using the last one in the list. In this case, id wins out because class2 follows class1 in lexicographical order.

**The introduction of ASNEW in 7.2.x**

Version 7.2.x of the Splunk platform introduced the ASNEW field alias configuration. ASNEW allows the pre-7.2.x field alias processing behavior discussed above. Use ASNEW if your searches involving field aliases rely on that behavior.
For example, say you have a search that runs over events that include the `dst` field, and you want to apply the following `props.conf` field alias configuration to it:

```
[sv1]
FIELDALIAS-classx src AS dst
```

In the case of events that already have `dst`, you want the field and its values to be undisturbed by the field alias processing. You do not want `dst` to be removed, and you do not want the value of `dst` to be altered. In this case you must change the configuration from `AS` to `ASNEW`:

```
[sv1]
FIELDALIAS-classx src ASNEW dst
```

When you apply this configuration, the search head passes over instances of `dst` that are already present in your events. It does not remove them or overwrite them.

**If you use Splunk Web**

If you are a Splunk Cloud user, or if you simply prefer to manage your field aliases through their Settings pages, you can use the [Overwrite field values](https://docs.splunk.com/Documentation/Splunk/8.1.0/Forward/FieldAliases#Overwrite_field_values) setting to determine how alias fields are treated when they are already present in events at the time that field alias processing takes place.

Select [Overwrite field values](https://docs.splunk.com/Documentation/Splunk/8.1.0/Forward/FieldAliases#Overwrite_field_values) for a field alias that uses the corrected field alias behavior. This means that it does what it takes during processing to ensure that the alias fields in the event share the values of their corresponding source fields. See the table in After the 7.2.x alias field fix for more information.

When [Overwrite field values](https://docs.splunk.com/Documentation/Splunk/8.1.0/Forward/FieldAliases#Overwrite_field_values) is not selected, the field alias uses the uncorrected behavior, which means that the alias field is not changed or removed if it exists in an event when field alias processing takes place.

When you create a new field alias, [Overwrite field values](https://docs.splunk.com/Documentation/Splunk/8.1.0/Forward/FieldAliases#Overwrite_field_values) is not selected by default.

See [Create field aliases in Splunk Web](https://docs.splunk.com/Documentation/Splunk/8.1.0/Forward/FieldAliases) for more information about the workflow for field alias creation with the Settings pages.

**Using calculated fields to apply an alias field to multiple source fields**
Calculated fields provide a more versatile method for applying an alias field to multiple source fields. Use eval functions such as coalesce to determine the order in which colliding source fields are applied to your alias fields.

Calculated fields that use functions like mvappend and mvdedup also enable you to deal with situations where your field alias configuration collides with a field extraction. For example, say you have this combination of a field alias configuration and a field extraction configuration:

```
[st1]
FIELDALIAS-class1 = uid AS user

[source::example.log]
EXTRACT-class2 = 123(?<user>[0-9]+)789
```

During a search, the EXTRACT-class2 configuration extracts user field values for events with a source of example.log. Later in the search pipeline, the FIELDALIAS-class1 configuration applies a field alias to events with a source type of st1. FIELDALIAS-class1 gives the user field the same value as uid even when uid is null. As a result, events with a source of example.log and a source type of st1 have the extracted value of the user field overwritten by the contents of the uid field.

Here is the same set of results used earlier in this topic, after they have been processed through these two configurations:

```
02-19-2019 19:46:56.122 user=1241 id=123456789 uid=1241 message=this is just a simple example
02-19-2019 19:46:11.342 id=123777789 message=this is just a simple example
02-18-2019 11:12:56.854 user=7788 uid=7788 message=this is just a simple example
02-18-2019 11:11:25.478 message=this is just a simple example
```

This configuration is fine if you intend for the extracted value of user to be overwritten. But if that is not the case, one of the following three calculated field configurations would be a better choice than the FIELDALIAS-class1 configuration, depending on the effect you are trying to achieve:

<table>
<thead>
<tr>
<th>Calculated field configuration</th>
<th>What it does</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVAL-user = coalesce(user, uid)</td>
<td>Retains only one field value. Prioritizes the extracted value over the aliased value.</td>
</tr>
<tr>
<td>EVAL-user = mvappend(user, uid)</td>
<td>Maintains both the extracted and aliased values. Could lead to duplicated values.</td>
</tr>
<tr>
<td>Calculated field configuration</td>
<td>What it does</td>
</tr>
<tr>
<td>-------------------------------</td>
<td>-----------------------------------</td>
</tr>
<tr>
<td>EVAL-user = mvdedup(mvappend(user, uid))</td>
<td>Maintains both the extracted and aliased values. No duplicates.</td>
</tr>
</tbody>
</table>
Fixed issues

Splunk Enterprise 7.3.1.1

Splunk Enterprise 7.3.1.1 was released on September 18, 2019. Version 7.3.1 introduced a defect (SPL-175599) that affected data durability under certain conditions for customers using SmartStore. Version 7.3.1.1 fixes this issue. This issue is also fixed in version 7.3.2 and higher.

Splunk Enterprise 7.3.1

Splunk Enterprise 7.3.1 was released on July 31, 2019. This release includes fixes for the following issues.

Issues are listed in all relevant sections. Some issues might appear more than once. To check for additional security issues related to this release, visit the Splunk Security Portal.

Search issues

<table>
<thead>
<tr>
<th>Date resolved</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-10-07</td>
<td>SPL-172819, SPL-142263</td>
<td>TAB character in Search string causes splunk to throw error - ERROR bucket - Error in 'bucket' command: Invalid argument: ''</td>
</tr>
<tr>
<td>2019-06-21</td>
<td>SPL-170761, SPL-166901</td>
<td>Search intermittently hangs when using custom python command and chunked protocol on Windows</td>
</tr>
<tr>
<td>2019-06-09</td>
<td>SPL-170977, SPL-130503</td>
<td>CEXC: Field order not preserved in generating reporting custom commands</td>
</tr>
</tbody>
</table>

Saved search, alerting, scheduling, and job management issues

<table>
<thead>
<tr>
<th>Date resolved</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
</table>

58
<table>
<thead>
<tr>
<th>Date resolved</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-06-09</td>
<td>SPL-171390, SPL-168454</td>
<td>now() function in real time alert returns 0 Epoch time</td>
</tr>
</tbody>
</table>

**Charting, reporting, and visualization issues**

<table>
<thead>
<tr>
<th>Date resolved</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-06-25</td>
<td>SPL-166952, SPL-164920</td>
<td>Dashboard issue: Multiselect URL retains single value after Hide Filters selected</td>
</tr>
<tr>
<td>2019-06-05</td>
<td>SPL-168636, SPL-166770</td>
<td>URI malformed error in dashboard if search string contains %</td>
</tr>
</tbody>
</table>

**Indexer and indexer clustering issues**

<table>
<thead>
<tr>
<th>Date resolved</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-06-21</td>
<td>SPL-170366, SPL-169959</td>
<td>max_nonhot_rep_kbPs setting is not working after restarts</td>
</tr>
<tr>
<td>2019-06-12</td>
<td>SPL-169632, SPL-166222</td>
<td>7.2.1.1 CM using up whole memory available.</td>
</tr>
</tbody>
</table>

**Distributed search and search head clustering issues**

<table>
<thead>
<tr>
<th>Date resolved</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-06-24</td>
<td>SPL-171341, SPL-169046</td>
<td>in SHC, several copies of the same scheduled index-time realtime search are running on distinct SHC instances - impacting ITSI itsi_event_grouping</td>
</tr>
</tbody>
</table>

**Unsorted issues**

<table>
<thead>
<tr>
<th>Date resolved</th>
<th>Issue number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2019-06-19</td>
<td>SPL-169239, SPL-162510</td>
<td>Memory Exhaustion causes LMTracker to stay in INFLIGHT state permenantly</td>
</tr>
<tr>
<td>2019-06-05</td>
<td>SPL-170800, SPL-163485</td>
<td>Daily License Usage panel for previous 30 days does not sum all license stacks for stack size overlay</td>
</tr>
<tr>
<td>Date resolved</td>
<td>Issue number</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>------------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td>SPL-172417, SPL-172431</td>
<td>Entries for <code>coldToFrozenDir</code> and <code>coldToFrozenScript</code> in indexes.conf.spec incorrectly state that the settings are not available for remote storage enabled indexes.</td>
</tr>
<tr>
<td>2019-06-18</td>
<td>SPL-170748, SPL-167402</td>
<td>search of host=app* not returning results in 7.2.4 whereas host=<em>app</em> returning results</td>
</tr>
<tr>
<td>2019-06-12</td>
<td>SPL-169431, SPL-175437</td>
<td>tab characters used in quoted string in map command negate results in 7.2.0+</td>
</tr>
<tr>
<td>2019-06-07</td>
<td>SPL-170616, SPL-167918</td>
<td>Expanding event in events viewer has lot of horizontal space in the table</td>
</tr>
</tbody>
</table>
Deprecated features

Deprecated and removed in version 7.3

This page lists features, computing platforms, and browsers for which Splunk, Inc. has deprecated or removed support in version 7.3 of the Splunk platform.

What does "deprecated" mean?

Deprecated features, platforms, and browsers continue to work and Splunk supports them until support is removed. However, customers need to begin planning now for the future removal of support.

What does "removed" mean?

When Splunk removes support for a feature, platform, or browser it means that the feature, platform, or browser no longer works with the Splunk platform and customers must find an alternative.

Deprecated features in version 7.3

The following table summarizes the features that are deprecated in version 7.3. These features continue to be supported in version 7.3, but Splunk reminds customers that deprecated features might be removed in a future release.

<table>
<thead>
<tr>
<th>Newly deprecated in this version</th>
<th>What do I need to know?</th>
<th>First deprecated</th>
</tr>
</thead>
<tbody>
<tr>
<td>The <code>tscollect</code> command</td>
<td>The <code>tscollect</code> command relies on time-series index (tsidx) files in namespaces that reside on individual search heads and are incompatible with search head clustering. This feature has been superseded by data models, which reside on the indexer and are more performant. Data models are accessible from any search head. See Accelerate data models in the Knowledge Manager Manual.</td>
<td>Version 7.3.0</td>
</tr>
<tr>
<td>Newly deprecated in this version</td>
<td>What do I need to know?</td>
<td>First deprecated</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td><strong>Still deprecated in this version</strong></td>
<td>What do I need to know?</td>
<td>First deprecated</td>
</tr>
<tr>
<td>literals.conf</td>
<td>Use of <code>literals.conf</code> has been deprecated. Use <code>messages.conf</code> to modify notifications that display in Splunk Web.</td>
<td>Version 7.2.2</td>
</tr>
<tr>
<td>The <code>static/app-packages</code> endpoint</td>
<td>This endpoint has been deprecated and might be removed entirely in a future release.</td>
<td>Version 6.6.x.</td>
</tr>
<tr>
<td>The <code>apps/appinstall</code> endpoint</td>
<td>This endpoint has been deprecated and might be removed entirely in a future release.</td>
<td>Version 6.6.x.</td>
</tr>
<tr>
<td>Element-level refresh interval</td>
<td>The element-level refresh interval option <code>&lt;option name=&quot;refresh.auto.interval&quot;&gt;</code> has been replaced with more robust refresh controls to set both the interval/delay as well as the display type.</td>
<td>Version 6.5.x</td>
</tr>
<tr>
<td>HeaderView and FooterView in the Splunk Web Framework</td>
<td>HeaderView and FooterView are replaced by LayoutView.</td>
<td>Version 6.5.x</td>
</tr>
<tr>
<td>Dashboard Framework: Dual support for option height configuration</td>
<td>Splunk has deprecated dual support for option height configuration as &quot;100px&quot; and &quot;100&quot;.</td>
<td>Version 6.4.x</td>
</tr>
<tr>
<td>Dashboard Framework: Selected attributes of <code>&lt;single&gt;</code></td>
<td>Splunk has deprecated the following attributes of <code>&lt;single&gt;</code>: • <code>additionalClass</code> • <code>classField</code> • <code>beforeLabel</code> • <code>afterLabel</code> • <code>linkFields</code> • <code>linkSearch</code> • <code>linkView</code></td>
<td>Version 6.4.x</td>
</tr>
<tr>
<td>SplunkWeb Legacy Mode</td>
<td>Running SplunkWeb in Legacy Mode by setting <code>appServerPorts = 0</code> in <code>web.conf</code> has been</td>
<td>Version 6.4.x</td>
</tr>
<tr>
<td>Newly deprecated in this version</td>
<td>What do I need to know?</td>
<td>First deprecated</td>
</tr>
<tr>
<td>----------------------------------</td>
<td>-------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>deprecated. This was a temporary workaround for issues that are now resolved. Normal mode provides performance and configuration benefits.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Advanced XML</td>
<td>For future development, use Simple XML.</td>
<td>Version 6.3.x</td>
</tr>
<tr>
<td>Simple XML <code>&lt;seed&gt;</code> tag</td>
<td>In Simple XML <code>&lt;form&gt;</code> code blocks, use <code>&lt;initialValue&gt;</code> instead of <code>&lt;seed&gt;</code>.</td>
<td>Version 6.3.x</td>
</tr>
<tr>
<td>Simple XML <code>&lt;option name = &quot;previewResults&quot;&gt;</code> tag</td>
<td>This tag has been deprecated and might be removed entirely in a future release.</td>
<td>Version 6.3.x</td>
</tr>
<tr>
<td>&quot;Run a Script&quot; alert action</td>
<td>Use the custom alert action framework introduced in Splunk platform 6.3.</td>
<td>Version 6.3.x</td>
</tr>
<tr>
<td>Simple XML <code>&lt;chart&gt;</code> tag</td>
<td>These attributes have been deprecated and might be removed entirely in a future release.</td>
<td>Version 6.3.x</td>
</tr>
<tr>
<td>Search Head Pooling over the Network File System (NFS) protocol</td>
<td>As an alternative, configure search head clustering.</td>
<td>Version 6.2.x</td>
</tr>
<tr>
<td>Simple XML row grouping</td>
<td>Row grouping is replaced by the <code>&lt;panel&gt;</code> node in Simple XML.</td>
<td>Version 6.2.x</td>
</tr>
<tr>
<td>Simple XML <code>&lt;searchString&gt;</code>, <code>&lt;searchTemplate&gt;</code>, <code>&lt;searchName&gt;</code>, and <code>&lt;searchPostProcess&gt;</code> elements</td>
<td>These elements are replaced by the new <code>&lt;search&gt;</code> element.</td>
<td>Version 6.2.x</td>
</tr>
<tr>
<td>Simple XML <code>&lt;earliestTime&gt;</code> and <code>&lt;latestTime&gt;</code> elements</td>
<td>These elements are replaced by <code>&lt;earliest&gt;</code> and <code>&lt;latest&gt;</code> elements.</td>
<td>Version 6.2.x</td>
</tr>
<tr>
<td>Simple XML <code>&lt;populatingSearch&gt;</code> and <code>&lt;populatingSavedSearch&gt;</code> elements</td>
<td>These elements are replaced by the <code>&lt;search&gt;</code> element.</td>
<td>Version 6.2.x</td>
</tr>
<tr>
<td>Simple XML link attributes <code>&lt;link field=&quot;...&quot;&gt;</code> and <code>&lt;link series=&quot;...&quot;&gt;</code> used in drilldown to constrain an action to a certain field</td>
<td>These elements are replaced by the <code>&lt;condition field=&quot;...&quot;&gt;</code> element.</td>
<td>Version 6.2.x</td>
</tr>
<tr>
<td>Newly deprecated in this version</td>
<td>What do I need to know?</td>
<td>First deprecated</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>-------------------------</td>
<td>------------------</td>
</tr>
<tr>
<td>The <code>datamodel/acceleration</code> REST endpoint</td>
<td>This endpoint has been deprecated and might be removed entirely in a future release.</td>
<td>Version 6.1.x</td>
</tr>
<tr>
<td><code>license_audit.log</code></td>
<td>Use <code>license_usage.log</code> instead.</td>
<td>Version 6.0.x</td>
</tr>
<tr>
<td>The <code>SplunkLightForwarder</code> app</td>
<td>Use a universal forwarder instead. If you are using an app that still requires the light forwarder, see Deploy a light forwarder in the Forwarding Data manual.</td>
<td>Version 6.0.x</td>
</tr>
<tr>
<td>Pre-trained CSV and IIS sourcetypes using the <code>CHECK_FOR_HEADER</code> attribute</td>
<td>Use the <code>INDEXED_EXTRACTIONS</code> and associated attributes instead.</td>
<td>Version 6.0.x</td>
</tr>
<tr>
<td>The ability to deploy in multi-tenant environments using <code>tenants.conf</code> on a deployment server</td>
<td>This feature has been deprecated and might be removed in a future release.</td>
<td>Version 6.0.x</td>
</tr>
<tr>
<td>The capability for a deployment server to be a deployment client of itself</td>
<td>This feature was disabled in version 6.0.x. It is deprecated and might be removed in a future release.</td>
<td>Version 6.0.x</td>
</tr>
<tr>
<td><code>FSchange</code> monitor</td>
<td>Use <code>auditd</code> and monitor the file output on *nix, or enable auditing of the Security Event Log and monitor file access events on Windows. See Monitor file system changes in Getting Data In.</td>
<td>Version 5.x</td>
</tr>
<tr>
<td>Saved searches used within event types</td>
<td>This feature has been deprecated and might be removed in a future release.</td>
<td>Version 5.x</td>
</tr>
<tr>
<td>Event type auto-discovery</td>
<td>This feature has been deprecated and might be removed in a future release.</td>
<td>Version 5.x</td>
</tr>
<tr>
<td>Distributed block signing and event hashing</td>
<td>This feature has been deprecated and might be removed in a future release.</td>
<td>Version 5.x</td>
</tr>
<tr>
<td><code>CHECK_FOR_HEADER</code> <code>props.conf</code> attribute (for index-time field extractions)</td>
<td>This feature has been deprecated and might be removed in a future release.</td>
<td>Version 5.x</td>
</tr>
</tbody>
</table>
### Newly deprecated in this version

<table>
<thead>
<tr>
<th>Python SDK function</th>
<th>What do I need to know?</th>
<th>First deprecated</th>
</tr>
</thead>
<tbody>
<tr>
<td>entity.setEntity</td>
<td>This feature has been deprecated and might be removed in a future release.</td>
<td>Version 5.x</td>
</tr>
</tbody>
</table>

#### Splunk modules

The following Splunk modules (elements of a view or dashboard) have been deprecated and might be removed in a future release:

- AdvanceModeToggle
- AjaxInclude
- AsciiTimeline
- CakeBrushFormatter
- ConvertToRedirect
- DistributedSearchServerChooser
- HiddenIntention
- IndexesSizes
- MultiplexSparkline
- PostProcessBar
- SavedSearches
- Segmentation
- SimpleEventsView

### Removed features in version 7.3

Splunk has removed the following features in version 7.3; customers must immediately find alternatives:

<table>
<thead>
<tr>
<th>Removed in this version</th>
<th>What do I need to know?</th>
<th>First deprecated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Django Web Framework</td>
<td>Apps and pages that are built using Django Web Framework will not work in Splunk Enterprise 7.3.0 and later, and will return a 404 error. Customers should migrate Django-based apps and pages to Simple XML or HTML Dashboards framework.</td>
<td>Version 6.3.0</td>
</tr>
<tr>
<td>The input command</td>
<td>Searches that use the <code>input</code> command will no longer work in Splunk Enterprise 7.3.0 and later. To add, enable, or disable inputs, use Splunk Web or edit the <code>inputs.conf</code> file. Use the following search to detect saved searches</td>
<td>Version 7.1.0</td>
</tr>
</tbody>
</table>
that directly utilize the `input` command. The results of this search do not include searches in which the `input` command is not present in the unparsed textual representation of the search, for example when the `input` command is used in a search macro.

```
| rest /servicesNS/-/-/saved/searches | where search LIKE "|%input%" | table title eai:acl.app eai:acl.owner search
```

Planned removals

Splunk expects to remove the following previously deprecated features in the next non-maintenance release of the Splunk platform.

<table>
<thead>
<tr>
<th>Feature</th>
<th>What do I need to know?</th>
<th>First deprecated</th>
</tr>
</thead>
<tbody>
<tr>
<td>Splunk Web legacy mode</td>
<td>Running SplunkWeb in Legacy Mode by setting <code>appServerPorts = 0</code> in <code>web.conf</code> has been deprecated. This was a temporary workaround for issues that are now resolved. Normal mode provides performance and configuration benefits.</td>
<td>Version 6.4.0</td>
</tr>
<tr>
<td>Advanced XML</td>
<td>Search your dashboard and custom app code for the <code>&lt;module&gt;</code> tag to identify Advanced XML that needs to be updated to Simple XML.</td>
<td>Version 6.3.0</td>
</tr>
</tbody>
</table>

Platform support changes in version 7.3

The following tables summarize the deprecation and removal of support for specific operating systems and file systems in this version of Splunk Enterprise.

For complete information on supported platforms, see System requirements for use of Splunk Enterprise on-premises in the Splunk Enterprise Installation Manual.

**Deprecated operating systems in version 7.3**

The following table summarizes the deprecated operating systems in this version of Splunk Enterprise. A blank cell or an unlisted operating system indicates there is no change to support in this version.
### Removed operating systems in version 7.3

The following table summarizes the removal of support for specific operating systems in this version of Splunk Enterprise. A blank cell or an unlisted operating system indicates there is no change to support in this version.

<table>
<thead>
<tr>
<th>Operating system</th>
<th>Splunk Enterprise with an Enterprise license</th>
<th>Splunk Enterprise with a Free or Trial license</th>
<th>Universal forwarder</th>
</tr>
</thead>
<tbody>
<tr>
<td>Windows 8.1 x86_64</td>
<td></td>
<td></td>
<td>Deprecated</td>
</tr>
<tr>
<td>Windows 8.1 x86_32</td>
<td></td>
<td>Deprecated</td>
<td>Deprecated</td>
</tr>
<tr>
<td>Windows Server 2012 R2 x86_64</td>
<td>Deprecated</td>
<td>Deprecated</td>
<td>Deprecated</td>
</tr>
<tr>
<td>Windows Server 2012 x86_64</td>
<td>Deprecated</td>
<td>Deprecated</td>
<td>Deprecated</td>
</tr>
<tr>
<td>Linux Kernel 2.6 x86-64</td>
<td>Deprecated</td>
<td>Deprecated</td>
<td></td>
</tr>
<tr>
<td>FreeBSD 10 x86_64</td>
<td>Deprecated</td>
<td>Deprecated</td>
<td>Deprecated</td>
</tr>
<tr>
<td>Mac OS X 10.12</td>
<td>Deprecated</td>
<td>Deprecated</td>
<td></td>
</tr>
<tr>
<td>Solaris 10</td>
<td></td>
<td></td>
<td>Deprecated</td>
</tr>
</tbody>
</table>

### Deprecated file systems in version 7.3

None.

### Removed file systems in version 7.3

None.
Browser support changes in version 7.3

The following sections summarize the deprecation and removal of support for specific browsers in this version of the Splunk platform.

*Deprecated browser support in version 7.3*

None.

*Removed browser support in version 7.3*

None.
Third-party software

Credits

Some of the components included in Splunk Enterprise are licensed under free or open source licenses. We wish to thank the contributors to those projects.

View the license(s) associated with each component by selecting a component name on the left.

Splunk Enterprise version 7.3.0 and later includes the Splunk Metrics Workspace app by default. For information about the third-party software used in the app, see Third-party software attributions for the Splunk Metrics Workspace in the Using the Splunk Metrics Workspace manual.

Aaargh

Version 0.4

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ace

Version 1.2.2

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Almond.js

Version 0.2.9

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Version 1.3

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Version 1.4

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Apache HttpClient Client

Versions 4.3.6 and 4.5.5

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Version 4.3.6

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asap

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AWS SDK for Java

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Babel

Version 0.9.4

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Backbone.js

Version 1.1.2

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Version 0.9.1

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bcpkix-jdk15on

Version 1.59

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bcprov-jdk15on

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blanket.js

Version 1.1.5

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bowser

Version 1.7.0

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Julian Seward, jseward@bzip.org bzip2/libbzip2 version 1.0.6 of 6 September
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Version 3.1.2

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**CoffeeScript**

CoffeeScript 1.1.2

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commonmark

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commonmark-react-renderer

Version 4.3.2

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Contextify

Version 0.1.9

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**core-js**

Version 2.5.1

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**cssmin**

Version 0.1.4

`cssmin.py` - A Python port of the YUI CSS compressor.

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CSSOM

Version 0.3.0

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cssstyle

Version 0.2.21

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d3.js

Version 3.4.13

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d3.v2.js

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**debug**

Version 2.6.0

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**decorator**

Version 2.2.0

author: Michele Simionato E-mail: michele.simionato@gmail.com

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defusedxml

Version 0.5.0

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document-register-element

Version 0.5.3

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**domhandler**

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**doT**

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**double-conversion**

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**duo_python**

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encoding

Version 0.1.12

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Version 0.0.2

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fbjs

Version 0.8.9

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Firebug Lite

Version 1.0

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In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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future

Version 0.17.1

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futures

Version 3.2.0

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history.js

Version 1.7.1

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htmlparser2

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Version 0.9.2

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**iconv-lite**

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**immutable-js**

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isomorphic-fetch

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is-stream

Version 1.1.0

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jemalloc

Version 4.5.0

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jg_global

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jmespath

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**jqTree**

Version 0.19

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jQuery

Versions 1.8.2, 1.8.3, 2.1.0

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jQuery.resize

Version 1.1

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jQuery bgiframe

Version 2.1.2

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**jquery-cookie**

Version r548

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**jQuery deparam**

Version 0.1.0

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jQuery Dimensions

Version 1.2

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jQuery File Upload

Version 5.40.1

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Version 2.8.4

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jQuery Iframe Transport

Version 1.8.2

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jQuery nestedSortable

Version 1.1.1

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jquery-placeholder

Version 1.7

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jQuery QUnit

Version 1.14.0

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jQuery Sparkline

Version 2.1.3

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jQuery tablesorter

Version 2.0.3

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jQuery TipTip

Version 1.3

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jQuery Tools

Version 1.2.5

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jquery-treeview

Version 1.4.1

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**jQuery Trap Input**

Version 1.1.0

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**jQueryUI**

Versions 1.8.5, 1.8.24, 1.9.0, 1.10.4

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jQuery UI selectmenu

Version 1.10

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jQuery UI Spinner

Version 1.10.4

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jsdom

Version 1.1.0

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jsep

Version 0.3.0-beta

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**jsmin**

jsmin.c

Version 1.0

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Version 2018-01-30

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js-tokens

Version 3.0.1

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**keycode**

Version 2.1.8

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Version 0.4.5

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less.js

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loose-envify

Version 1.3.1

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LowPro for jQuery

Version 1.0.0

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Ixml/ElementTree/XML Toys Library

248
lxml

Version 3.3.5

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Moment.js

Version 2.8.3

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mongo-c-driver

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nan

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node

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node-http-proxy

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numeral.js

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NVD3

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nwmatcher

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object-assign

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pcre2

Version 10.31

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**pdflatex**

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prop-types

Version 15.6.1

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Protocol Buffers

Version 3.5.1

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ptmalloc2

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Py4J

Version 0.10.6

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Version 0.13.1

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PyPNG

Version 0.0.13

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was a sponsoring member of the PSF.

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python-dateutils

Version 2.6.1

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python-semanticversion

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**pywin32**

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**react**

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**react-event-listener**

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**react-lines-ellipsis**

Version 0.10.3

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react-motion

Version 0.5.2

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react-router, react-router-dom

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redux

Version 3.6.0

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redux-actions

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**redux-immutable**

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**redux-logger**

Version 2.6.1
Redux-Observable

Version 0.18.0

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redux-thunk

Version 2.1.0

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Requests

Version 2.3.0

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**require-css**

Version 0.1.1

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**RequireJS**

Version 2.1.15

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**reselect**

Version 3.0.1

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robin-map

Version 0.2.0

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rxjs

Version 5.5.9

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sax-js

Version 1.1.4

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script.js

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Select2

Version 3.4.6

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**setimmediate**

Version 1.0.5

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**six**

Version 1.12.0

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**Contributors**

- Tatu Saloranta
  - Providing benchmark suite
- Alec Wysoker
  - Performance and memory usage improvement

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SoundManager

Version 2.95a.20090717

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spin.js

Version 1.2.7

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sprintf.js

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symbol-observable

Version 1.0.4

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t-digest

Version 3.2

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**ua-parser-js**

Version 0.7.12

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**ubuntu-font-family**

Version 0.80

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Underscore.js

Version 1.6.0

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Unicode character database

Version 8.0.0

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**whatwg-fetch**

Version 2.0.2

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**XMLHttpRequest**

Version 1.6.0

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XML Security Library

Version 1.2.20

xmlsec, xmlsec-openssl, xmlsec-gnutls, xmlsec-gcrypt libraries

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xmlsec-nss library

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xmlsec-mscrypto library

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xxhash

Version 0.6.5

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**zlib**

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