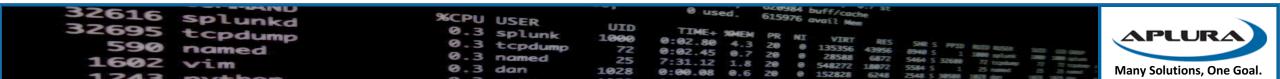
## What's New in 6.6

The other cool stuff!



# New SPL commands, and extensions to others!

- Union: Used with datasets to merge them together: <u>http://docs.splunk.com/Documentation/Splunk/6.6.0/SearchReferen</u> <u>ce/Union</u>
- The SQL-like "IN" operator <u>http://docs.splunk.com/Documentation/Splunk/6.6.0/SearchReferen</u> <u>ce/ConditionalFunctions#in.28VALUE-LIST.29</u>
  - Used with "eval", "where" command, against a list of values
  - ... | where status in("400", "401", "403", "404")

32616	Splunkd	%CPU USER		0 used. 615976 avail Mem
22095	tCDdump	0.3 splunk	UID 1000	
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### Search Head Clustering Improvements

- Outputlookup improvements
  - Can now allow for multi-value fields
- A GUI!
  - Available on all members
  - Only shows up when using a cluster
  - Allows for rolling restarts, captain transfer
  - All members must be on 6.6
- Deployment
  - Captain first
  - No .index on large lookups are replicated
  - Warnings on built-in apps
- Message Improvements
  - Now propagate to all members
- Replication Improvements
  - Avoids some bugs related to JSON object length
  - Available as a config item

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590	named	0.3 tcpdump 0.3 named	72	0:02.45 0.7 20 0 135356 43956 8940 5 1 1000 autor and an and	
1602	Vim	0.3 dan	1028		Many Solutions, One Goal.

### Indexer Clustering Improvements

- Take a node offline without search disruption
- Faster indexer recovery
- Avoid data coming in to indexers in manual detention
- Bundle rollback
  - http://docs.splunk.com/Documentation/Splunk/6.6.0/Indexer/Updatepeerco nfigurations#Rollback\_the\_configuration\_bundle
- No restart on new app deployment on indexers
- Phased bundle downloads

32616	Splunkd	%CPU USER		0 used. 615976 avail Mem	
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1602	Vim	0.3 named 0.3 dan	25 1028	0-00 00 548272 18072 5584 5 1 25 mmm	Many Solutions, One Goal.
			-0-0	0:00.08 0.6 20 0 152828 6248 2548 5 36588 1878 -	wany solutions, one doan

### Forwarding Improvements

- Multi-site aware forwarding
  - Failover between sites for forwarders
  - Must be using indexer discovery
  - Only forward to the same site, unless the targets are unavailable
  - http://docs.splunk.com/Documentation/Splunk/6.6.0/Indexer/indexerdiscovery#Configure\_the\_forwarder\_site\_failover\_ca pability
- Volume-based forwarding
  - You can balance by time (autoLB) or by volume (autoLBVolume) from outputs.conf
  - Or both! If the autoLBVolume has been reached, move to the next target, otherwise, stay until autoLBFrequency
  - Both should be used with EVENT\_BREAKER
  - Don't set this or the frequency too low!
- S2S v2
  - Not as chatty with the indexers
  - Gets better notification of indexer shutdowns
- Force local processing
  - Only for parts of the pipeline
  - NOT RECOMMENDED
  - Forces it through the existing structured data pipeline

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1242		U.S uun	1028	0:00.08 0.6 20 0 152828 6248 2548 5 38588 1828 4	Many Solutions, One Goal.

### Distributed Search Improvements

#### • SSL Session Reuse

useSslClientSessionCache = <bool>
 \* Whether to re-use client session.
 \* When set to true, client sessions are stored in memory for session re-use.
 This reduces handshake time, latency and computation time to improve SSL performance.
 \* When set to false, each ssl connection will perform full ssl handshake.
 \* Defaults to false

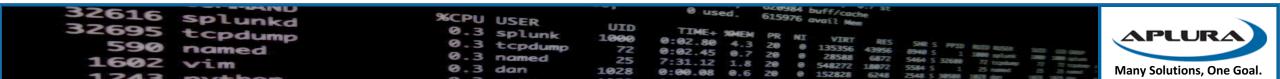
- Large lookup improvements
  - Transforms.conf, index\_fields\_list

32616	Splunkd	%CPU USER		0 used. 615976 avail Mem
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1602	Vim	0.3 dan	1028	7:31.12 1.8 20 0 548272 1872 5464 5 3268 72 5464 5 Many Solutions, One Goal.

### Pipeline Debugging Improvements

- regex\_cpu\_profiling
- Should only show on non-UF nodes

regex\_cpu\_profiling = <bool>
\* Enable CPU time metrics for RegexProcessor. Output will be in the
metrics.log file.
Entries in metrics.log will appear per\_host\_regex\_cpu, per\_source\_regex\_cpu,
per\_sourcetype\_regex\_cpu, per\_index\_regex\_cpu.
\* Default: false



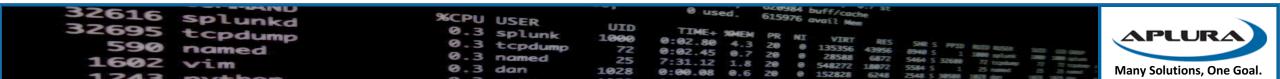
### Data Model Acceleration Improvements

- Even if max\_time was set, DMA used bucket boundries
- "More" respect of max\_time
- tags\_whitelist
  - Datamodels.conf
  - <u>http://docs.splunk.com/Documentation/Splunk/6.6.0/Knowledge/Designdata</u> <u>modelobjects#Set a tag whitelist for better data model search performa</u> <u>nce</u>
  - Improves/prevents KO Explosion

32616	Splunkd	%CPU USER		0 used. 615976 avail Men	
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1343	V L III	0.3 dan	1028		Solutions, One Goal.

### Better Outbound Proxy Support

- New config options
- If you use apps or add-ons that reach out to the internet
- proxyConfig in server.conf
- https://docs.splunk.com/Documentation/Splunk/6.6.0/Admin/Server conf#Splunkd\_http\_proxy\_configuration



### RemotePath in indexes.conf?

remotePath = <root path for remote volume, prefixed by a URI-like scheme>
\* Optional.

- \* Presence of this parameter means that this index uses remote storage, instead of the local file system, as the main repository for bucket storage. The index processor works with a cache manager to fetch buckets locally, as necessary, for searching and to evict them from local storage as space fills up and they are no longer needed for searching.
- \* This setting must be defined in terms of a storageType=remote volume definition. See the volume section below.
- \* The path portion that follows the volume reference is relative to the path specified for the volume. For example, if the path for a volume "v1" is "s3://bucket/path" and "remotePath" is "volume:v1/idx1", then the fully qualified path will be "s3://bucket/path/idx1". The rules for resolving the relative path with the absolute path specified in the volume can vary depending on the underlying storage type.
- \* If "remotePath" is specified, the "coldPath" and "thawedPath" attributes are ignored. However, they still must be specified.

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22032	tCDdump	9-3 spl.	UID 1000	TIME+ SHEW	APLURA
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1602	Vim	0.3 dan	1028	7:31.12 1.8 20 0 548272 18072 5566 5 32560 72 training To The second sec	Many Solutions, One Goal.

The default time range for Search is now "Last 24 hours". The previous default was "All time".

### http://docs.splunk.com/Documentation/Splu nk/6.6.0/ReleaseNotes/MeetSplunk

