

ReleaseNote65

27 March 2017, Apache Solr 6.5.0 available

Solr is the popular, blazing fast, open source NoSQL search platform from the Apache Lucene project. Its major features include powerful full-text search, hit highlighting, faceted search and analytics, rich document parsing, geospatial search, extensive REST APIs as well as parallel SQL. Solr is enterprise grade, secure and highly scalable, providing fault tolerant distributed search and indexing, and powers the search and navigation features of many of the world's largest internet sites.

Solr 6.5.0 is available for immediate download at:

. <http://lucene.apache.org/solr/mirrors-solr-latest-redirect.html>

Please read CHANGES.txt for a full list of new features and changes:

. https://lucene.apache.org/solr/6_5_0/changes/Changes.html

Solr 6.5 Release Highlights:

Fields:

- * PointFields (fixed-width multi-dimensional numeric & binary types enabling fast range search) are now supported
- * In-place updates to numeric docValues fields (single valued, non-stored, non-indexed) supported using atomic update syntax
- * A new LatLonPointSpatialField that uses points or doc values for query
- * It is now possible to declare a field as "large" in order to bypass the document cache

Queries:

- * New sow=false request param (split-on-whitespace) for edismax & standard query parsers enables query-time multi-term synonyms
- * XML QueryParser (defType=xmlparser) now supports span queries

Highlighters:

- * hl.maxAnalyzedChars now have consistent default across highlighters
- * UnifiedSolrHighlighter and PostingsSolrHighlighter now support CustomSeparatorBreakIterator

Streaming:

- * Scoring formula is adjusted for the scoreNodes function
- * Calcite Planner now applies constant Reduction Rules to optimize plans
- * A new significantTerms Streaming Expression that is able to extract the significant terms in an index
- * StreamHandler is now able to use runtimeLib jars
- * Arithmetic operations are added to the SelectStream

Ease of use / Admin UI:

- * Added modernized self-documenting /v2 API
- * The .system collection is now created on first request if it does not exist
- * Admin UI: Added shard deletion button

Metrics:

- * Metrics API now supports non-numeric metrics (version, disk type, component state, system properties...)
- * The disk free and aggregated disk free metrics are now reported
- * The DirectUpdateHandler2 now implements MetricsProducer and exposes stats via the metrics api and configured reporters.

Optimizations:

- * BlockCache is faster due to less failures when caching a new block
- * MMapDirectoryFactory now supports "preload" option to ask mapped pages to be loaded into physical memory on init

Misc:

- * Security: BasicAuthPlugin now supports standalone mode
- * Arbitrary java system properties can be passed to zkcli
- * SolrHttpClientBuilder can be configured via java system property
- * Javadocs and Changes.html are no longer included in the binary distribution, but are hosted online

Further details of changes are available in the change log available at: http://lucene.apache.org/solr/6_5_0/changes/Changes.html

Please note, this release cannot be built from source with Java 8 update 121, use an earlier version instead! This is caused by a bug introduced into the Javadocs tool shipped with that update. The workaround was too late for this Solr release. Of course, you can use the binary artifacts.

Please report any feedback to the mailing lists (<http://lucene.apache.org/solr/discussion.html>)

Note: The Apache Software Foundation uses an extensive mirroring network for distributing releases. It is possible that the mirror you are using may not have replicated the release yet. If that is the case, please try another mirror. This also applies to Maven access.