ReleaseNote53

21 August 2015, Apache Solr™ 5.3 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, dynamic
clustering, database integration, rich document (e.g., Word, PDF)
handling, and geospatial search. Solr is 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 5.3 is available for immediate download at:
  http://lucene.apache.org/solr/mirrors-solr-latest-redir.html

Please read CHANGES.txt for a full list of new features and changes:
  https://lucene.apache.org/solr/5_3_0/changes/Changes.html

Solr 5.3 Release Highlights:

In built security plugins implementing Basic Auth
In addition to many other improvements in the security framework, Solr now includes an AuthenticationPlugin implementing HTTP Basic Auth that stores credentials securely in ZooKeeper. This is a simple way to require a username and password for anyone accessing Solr’s admin screen or APIs.

See the Basic Authentication Plugin section of the Solr ref guide under the Securing Solr section.

The JSON Facet API can now change the domain for facet commands, essentially doing a block join and moving from parents to children, or children to parents before calculating the facet data.

Major improvements in performance of the new Facet Module / JSON Facet API.
See the facet performance benchmarks for more details.

Just like the JSON Facet API, pivot facets can how nest other facet types such as range and query facets.

The MoreLikeThis QParser mlt now supports all options provided by the MLT Handler.
The query parser is much more versatile than the handler as it works in cloud mode as well as anywhere a normal query can be specified.

The new SchemaRequest Java class in SolrJ can be used to make requests to the Schema API.

Solr’s pseudo-join query parser has a new optional attribute score that can be used specify the scores produced on the resulting documents. It’s value can be min, max,avg or total.

Query Comments
Lucene/Solr query syntax (i.e. Solr’s dialect of the lucene syntax) now supports nested C-style comments.

A second parameter has been added to the field function to select the minimum or maximum value of a multi-valued field with docValues.