

Roadmap

This page details the current plans for future releases, these plans may change from time to time so check back regularly.

It is not a goal to list all Jira issues in a release here. Only major & controversial features, deprecations, breaking changes and other tasks that need coordination between releases need an entry.

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Deprecations

They are listed here separately on this page: [Deprecations](#)

Solr 10+ Roadmap

SolrCloud

- Distributed State Updates (vs Overseer)
 - Status 2024-04: real-world usage required to push this further. Concerned about Many-replica collection performance; maybe PRS addresses this?
- PRS: should Solr just work this way, removing the non-PRS code path?
 - Status 2024-04: Finally, tests randomly choose PRS
- Apache Curator for managing ZK connections – [SOLR-16116 - Getting issue details...](#) STATUS
 - Status 2024-04: PR is close! Need to get this over the finish line.

HTTP API / OpenAPI / JAX-RS

- OpenAPI: complete coverage.
- Remove Custom V2 API annotations/framework – use JAX-RS instead.

SolrJ / HttpClient

- Remove Apache HttpClient usages within Solr, thus transition to HTTP 2 completely. Maybe will remain as a SolrJ option?
- A JDK HttpClient option to reduce dependencies (made it into 9.6!!)

Solr 9x

Item	Description	Contributors	Theme	Jira
HTTP 1 HTTP 2	Switch the remaining HTTP 1 usage within Solr to HTTP 2. Apache HttpClient should no longer be used on the server.	Smiley		
Modularize SolrJ	SolrJ should be lighter-weight (smaller) for more users; fewer dependencies. Add modules for some dependencies and functionality.	Smiley, Jan, Houston, others		
Use JAX-RS	JAX-RS based V2 API definitions; use more and more.	Jason		

Solr 9.0

The theme of this release is to use Lucene 9.0 and to introduce some major frameworks.

We should **not** remove all features/APIs deprecated in 8.x yet, to give users a path to upgrade to 9.x without all the extra noise. Deprecated features can be removed in a later 9.x release, when the new alternative is solid and well known.

Item	Description	Contributors	Theme	Jira
First party packages & Slim Solr distribution	Solr should have first party packages, and a slim Solr tarball that doesn't have the first party packages	Ishan, Noble, Jan, et. al.	Lean Solr Core	SOLR-14688 - Getting issue details... STATUS
V2 API to be the default	Ref guide docs should use V2, where necessary we build V2 APIs, switch SolrJ to use V2 APIs, etc.		Usability	

Autoscaling / Replica assignment V2	A new pluggable framework replaces current autoscaling	Andrzej, Ilan, Noble	Lean Solr Core	SOLR-14749 - Getting issue details... <input type="button" value="STATUS"/>
				SOLR-14613 - Getting issue details... <input type="button" value="STATUS"/>
HDFS moved away from Solr-Core	Build a first party package out of HDFS support	Istvan Farkas, Gezapeti	Lean Solr Core	
Remove Ant support			Tech-debt	LUCENE-9433 - Getting issue details... <input type="button" value="STATUS"/>
Index Lifecycle Management	Automatically move indices between hot, warm and cold phases	Atri Sharma	Feature	
POJOs instead of loosely typed objects	Start using POJOs/interfaces wherever possible in public APIs where ever possible	Noble Paul		
Remove Filter.java from Solr	Filter.java is a legacy relic from earlier Lucene days. Solr uses Filter in a variety of places where it can use other constructs or in some cases we need to make new constructs. In some cases like TwoPhaselterator, this is an optimization.	David Smiley	Tech-debt	SOLR-12336 - Getting issue details... <input type="button" value="STATUS"/>

Solr 8.9

Last version before 9.0?

Item	Description	Contributors	Theme	Jira
Alternate SolrJ APIs without using NamedList /SimpleOrderedMap/Map	Get rid of concrete classes such as NamedList, SimpleOrderedMap, Map, etc and build our public APIs with interfaces	Noble Paul	Clean-API	SOLR-14730 - Getting issue details... <input type="button" value="STATUS"/>
New Cluster API	Standard set of APIs which consists of only interfaces. We should ensure that They are used wherever possible in server/client code. We should expose these interfaces to our plugins. They should be well -documented and we must always strive to maintain backward compatibility on these interfaces between versions	Noble Paul	Clean-API	SOLR-14680 - Getting issue details... <input type="button" value="STATUS"/>
New Remote Call API	Remote Calls should have simple constructs and they must be public interfaces. This should be used in all inter-node/client-server communications	Noble Paul	Clean-API	SOLR-14712 - Getting issue details... <input type="button" value="STATUS"/>
Multi-threaded search (SOLR-13350)	Multi threaded search across multiple segments at once, using CollectorManagers	Ishan Chattopadhyaya, Atri Sharma	Optimization	SOLR-13350 - Getting issue details... <input type="button" value="STATUS"/>
SIP-9	Advanced Query parser and supporting lucene filters	Mike Nibeck (LOC contributor), Gus Heck	Feature	SOLR-14597 - Getting issue details... <input type="button" value="STATUS"/>