

What's New in 8.2.0.CR1

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Dependency upgrades

Hibernate ORM

Hibernate Search targets the Hibernate ORM 7.2 series.

Lucene

The Lucene backend now uses Lucene 9.12.3, while the lucene-next backend relies on Lucene 10.3.2

Elasticsearch

The Elasticsearch backend works with Elasticsearch 9.2, as well as other already compatible versions.

OpenSearch

The Elasticsearch backend works with OpenSearch 3.2 and 3.3, as well as other already compatible versions.

Pluggable Elasticsearch backend REST clients

This version of Hibernate Search introduces pluggable REST clients for the Elasticsearch backend. Historically, the Elasticsearch backend relied on the Elasticsearch low-level REST client, which is based on the Apache HTTP Client 4. With the new pluggable client architecture, it is possible to switch to a different REST client as needed. This may be useful when you are running Hibernate Search in an environment relying on a different HTTP client type (e.g. Vert.x). or when you need to use some distribution specific client features and for example need to switch to the OpenSearch REST client.

Hibernate Search provides the following REST client options out of the box:

Elasticsearch low level REST client (Apache HTTP Client 4)

Coordinates

GroupID

org.hibernate.search

ArtifactID

hibernate-search-backend-elasticsearch-client-rest4

Underlying HTTP Client

Apache HTTP Client 4

This Elasticsearch backend REST client is based on the Elasticsearch low level client (org.elasticsearch.client:elasticsearch-rest-client). Currently, the default REST client used by the Elasticsearch backend.

Elasticsearch low level REST client (Apache HTTP Client 5)

Coordinates

GroupID

org.hibernate.search

ArtifactID

hibernate-search-backend-elasticsearch-client-rest5

Underlying HTTP Client

Apache HTTP Client 5

This Elasticsearch backend REST client is based on the newer Elasticsearch low level client (co.elastic.clients:elasticsearch-rest5-client), which is also used in the co.elastic.clients:elasticsearch-java.

OpenSearch low level REST client (Apache HTTP Client 5)

Coordinates

GroupID

org.hibernate.search

ArtifactID

hibernate-search-backend-elasticsearch-client-opensearch-rest

Underlying HTTP Client

Apache HTTP Client 5

This Elasticsearch backend REST client is based on the OpenSearch low level client (org.opensearch.client:opensearch-rest-client).



It is recommended to explicitly add a client that you prefer as a dependency, since in the future version of Hibernate Search we will remove the implicit dependency on hibernate-search-backend-elasticsearch-client-rest4 from the Elasticsearch backend.

Simple REST client based on the JDKs HttpClient

Coordinates

GroupID

org.hibernate.search

ArtifactID

hibernate-search-backend-elasticsearch

Underlying HTTP Client

JDKs Http Client (java.net.http.HttpClient)

This Elasticsearch backend REST client is based on the HTTP client that is part of the JDKs <code>java.net</code> API. Mostly intended for very basic use cases, and may lack some features, e.g. automatic node discovery, compared to the other clients. As this client implementation relies only on the JDK, it is shipped as part of the Elasticsearch backend and does not require any extra dependencies.



JDKs HTTP client allows configuration though the system properties. Consult the list of available properties for your JDK version, e.g. JDK 25