

Relevancy Rules based Custom Search for Collibra Assets

Overview

Lucid's Relevancy Rules based Custom Search for Collibra assets (Lucid's Custom Search) enables users to always find appropriate data assets from the Enterprise catalog with the least number of clicks. This custom search service that can be embedded in any application, including within a dashboard in Collibra Data Governance Center (DGC).

Product versions supported:

Collibra Data Governance Centre v5.6.x, v5.7.x, 2020.12, 2021.01

Demo Video



Version: 2.2

Features

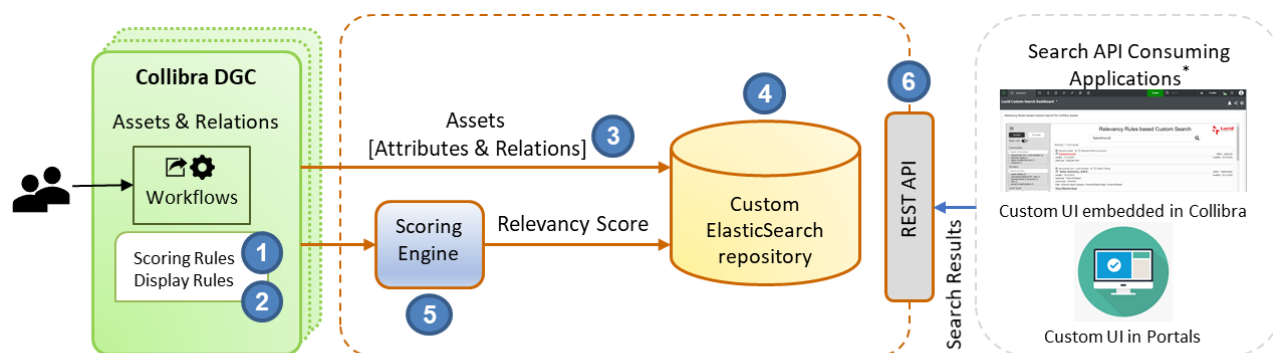
- Configurable rules to calculate 'Relevancy scores' for specific asset types that control the order of the search results
- Search results contain both the matched asset as well as the related asset configured for display (first level relations only)
- The Search Service exposed as a REST API for use in other applications
- Automated refresh of assets from multiple Collibra DGC instances into a single custom Elasticsearch repository for Search
- Ability to store and manage the configurations required for this solution in Collibra DGC. Custom workflows are provided to manage the configurations
- Search API parameter to support Search using the custom relevancy score calculation or using native Elastic algorithms
- Support for wild card searches
- Ability to filter search by Community, Domain, Asset status and Asset type
- Ability to select the attributes (asset name, label, alias, domain, and community) to match the search keyword
- Ability to suppress unwanted output fields in the Search API output
- Ability to add multiple levels of relationship across assets to leverage the same in scoring and display rules
- The Search output shows the matched asset and its first-level relations (with their characteristics)
- Ability to enable Aggregations on search results to visualize a faceted search on the frontend applications that consumer the Search API

Note: UI is not provided as part of the solution. The REST APIs provided can be used in any application.

Key Differences from Collibra Search

Feature	Lucid's Custom Search	Collibra's Search API v2
Native to Collibra platform	✗ No (needs additional infrastructure)	✓ Yes (part of the functionality)
Order of search results driven by user-defined rules	✓ Yes	✗ No
Display either matched assets or related assets	✓ Yes	✗ No
Search on Collibra assets is available even for non-Collibra users i.e. Provide options to embed the search outcome as a widget outside Collibra	✓ Yes	✓ Yes
Ability to search across multiple Collibra DGC instances	✓ Yes	✗ No
Identify and segregate exact and partial matches	✓ Yes	✗ No
Limit on page size for the search results from the API	✓ Yes	✓ Yes
Manage what content is loaded into index for Search	✓ Yes	✗ No
Endpoint to remove obsolete / deprecated content from the Search index	✓ Yes	✗ No

Solution Architecture



* Search API Consuming Applications are not included as part of this solution

Refer	Purpose
1	Scoring Rules: Rules that specify what assets are relevant in the context of the search, attributes to be matched against the search keyword(s) on either the asset or a related asset and relative relevancy weight (used to order the search result).
2	Display Rules: Rules that specify what assets and attributes should be displayed in the search result. When a search keyword is matched against an attribute of a related asset, the matched asset is also made available in the search result.
3	Extract: Assets are periodically extracted from Collibra DGC using Collibra REST APIs. The extraction (refresh) frequency can be configured. Initial and incremental refresh options are supported.
4	Search Repository: Custom Elasticsearch repository used for persisting extracted content.
5	Scoring Engine: Calculates the relevancy score of assets using the scoring rules. The relevancy score will be used to order the search results.
6	Search Service: Delivered as a REST API that can be used in any application.

Deployment kit contents

- Asset model extensions
- Workflows for managing the rules
- Index Creation Scripts for the Elastic indices and other required configuration information
- Deployable as a WAR/Docker container
- Documentation: Installation & Configuration Guide, Release Notes, Operations Guide, User guide

License details

This solution is offered on an annual subscription basis. A limited time-bound proof-of-technology can also be supported.

Feature	What is offered
Licensing	Annual Subscription
Validity Period	1-year
Documentation	Yes
Training included	2 hours of virtual sessions for install/config (or) troubleshooting
Helpdesk/Support	Email-based support
Support response SLA	1 business day
Custom Extensions	Not supported*
Pricing	Contact Lucid

* No custom extension requests are supported as part of the subscriptions, however, can be separately considered for a one-time fee, with on-going support attached to the subscription.

Dependencies

- Elasticsearch v6.7.1 and above (for versions higher than v6.7.1, support for some of the features that are dependent on Elasticsearch would depend on Elastic's backward compatibility support)
- Solution requires an existing Elastic-Logstash-Kibana (ELK) environment. The ELK environment is **NOT** bundled with the solution. The solution only includes the Index creation scripts and other configuration required for the Elastic indices.

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