

Creating indexing configurations

To improve the efficiency of resource usage, you can index resources and monitor their element usages within the selected scope of the Teamwork Cloud repository. This allows you to see if modifying or deleting certain model elements impacts other models that use these elements.

This chapter explains how to index resources for their element usages within the selected scope of the Teamwork Cloud repository so that later you could query these usages through the modeling tool.



Prerequisites

- To enable this functionality, you need to [install Elasticsearch \(v7 series\)](#) and [configure Magic Collaboration Studio](#). Elasticsearch allows you to index model element usage data and serve it efficiently when queried from a modeling tool.

The screenshot shows the 'Indexing management' interface. The main panel displays a table of indexing configurations with the following data:

Used Resource chosen to index	Scope chosen for specific used Resources	Indexing mode	Indexing status	Indexed
<input type="checkbox"/> 0328 index1	index21	Automatic	Indexed	May 3, 2022, 2:06:34 PM
<input type="checkbox"/> Electronic components library	HSUV Steering system	Automatic	Indexed	May 12, 2022, 3:39:53 PM
<input type="checkbox"/> Electronic components library demo	Global Usages Demo	Automatic	Indexed	May 12, 2022, 3:38:23 PM

An orange arrow points to a '+' button in the top right corner of the table. Below the table, a modal dialog titled 'Select used Resource to index' is open. It has three steps: 1. Resource, 2. Scope, and 3. Mode. The 'Resource' step is active, showing a search bar with 'usage' and a list of resources: u12, u13, u14, u15, u2, u3, u4 (highlighted), u5, u6, u7, u8, u9. At the bottom of the modal are 'CANCEL' and 'NEXT' buttons.

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To create indexing configurations

1. In the right-side menu of the Settings application, select **Indexing management**.

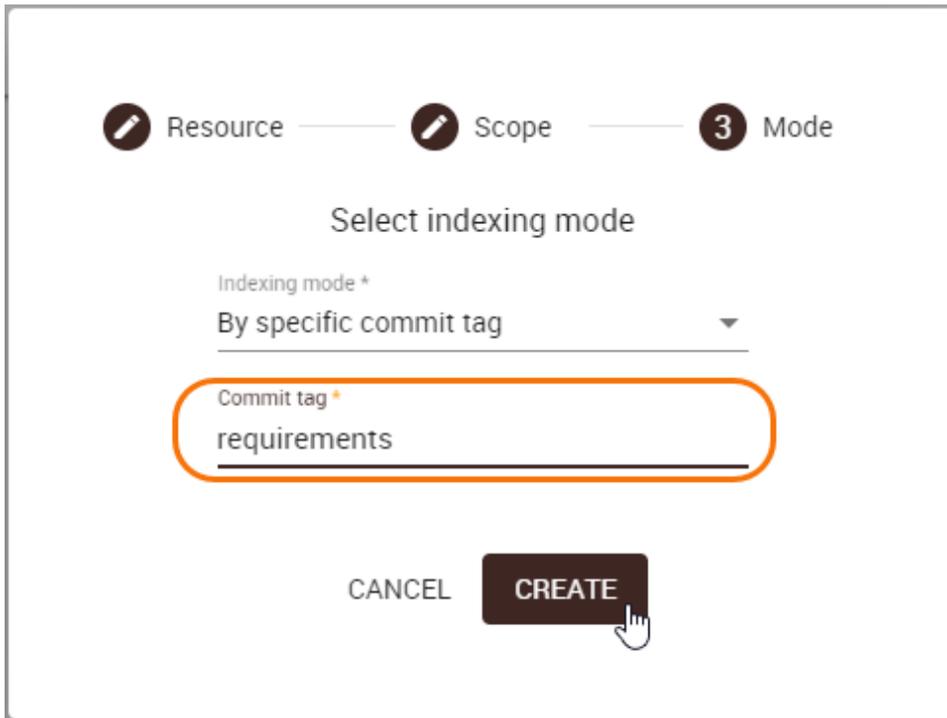
- Click  on the bottom right corner of the screen as shown in the figure above.
- In the open wizard, select the resource you want to create an indexing configuration for and click **Next**.

 **Note**
You can index just one resource at a time. Note that it is possible to search for element usages of indexed resources only.

- Select the scope to search for the element usages of the indexed resource, selected in step 3. Click **Next**.

 **Note on Scope**
The scope defines the resources or categories in which the element usages will be searched for. You can select one or several resources or categories as the indexing scope. If you want to search for the indexed resource element usages in the whole repository,

- In the last step of the wizard, select one of the following indexing modes:
 - Select all** - the resource is automatically indexed every time new project versions are committed in the indexing scope.
 - Automatic (default)** - the resource is automatically indexed every time new project versions are committed in the indexing scope.
 - Manual choice** - the resource is indexed only when new project versions are committed with a specified commit tag in the indexing scope. If you select this indexing mode, the **Commit tag** box appears where you need to specify the desired commit tag.



- Click the **Create** button.

The created indexing configuration automatically appears in the Indexing configurations list on the content pane. To refresh the indexing status, reload the web page.

Related pages

- [Global element usage indexing and search](#)
- [Global element usage search](#)