# Indexing

We index the content so that when a JCR query is executed , the indexes are searched initially.

Indexes are configured as nodes in the repository under the **oak:index**node.

Available indexes are

1. **Property Index**

Useful for queries that have property constraints(not full text). To create a property index

* Oak:index **(nt:unstructured)**
  + propertyIndex(**oak:QueryIndexDefinition**) (A)

below are the properties to be added on (A) node for configuring the indexing behavior

|  |  |
| --- | --- |
| Property on oak:QueryIndexDefinition | Significance |
| **Type** | Specifies the type of index |
| **propertyNames** | List of properties to be stored in index |
| **Unique** | If set to **true,** add a uniqueness constraint on property index |
| **declaringNodeTypes** | Allows to specify specific nodeTypes on which index is applied |
| **reIndex** | If set to **true,** will trigger a full context reindex |

1. Ordered Index

This is deprecated and has to be replaced with Lucene Property index

1. Lucene Full Text Index

Used for full text indexing irrespective of other indexed conditions. To create a lucene property index

* Oak:index **(nt:unstructured)**
  + propertyIndex(**oak:QueryIndexDefinition**) (A)

below are the properties to be added on (A) node for configuring the indexing behavior

|  |  |
| --- | --- |
| Property on oak:QueryIndexDefinition | Significance |
| **Type** | Specifies the type of index. Here its **lucene** |
| **async** | If set to **true,**  This will send the index update process to a background thread. |
| **excludePropertyNames** | define a blacklist of property names |
| **includePropertyTypes** | Defines which subset of property types will be included in the index |
| **reIndex** | If set to **true,** will trigger a full context reindex |
| **fullTextEnabled** | True/false |

1. Lucene Property Index

Lucene can be used to create indexes which involve property constraints that are not full-text.

* Oak:index **(nt:unstructured)**
  + LucenepropertyIndex(**oak:QueryIndexDefinition**) (A)