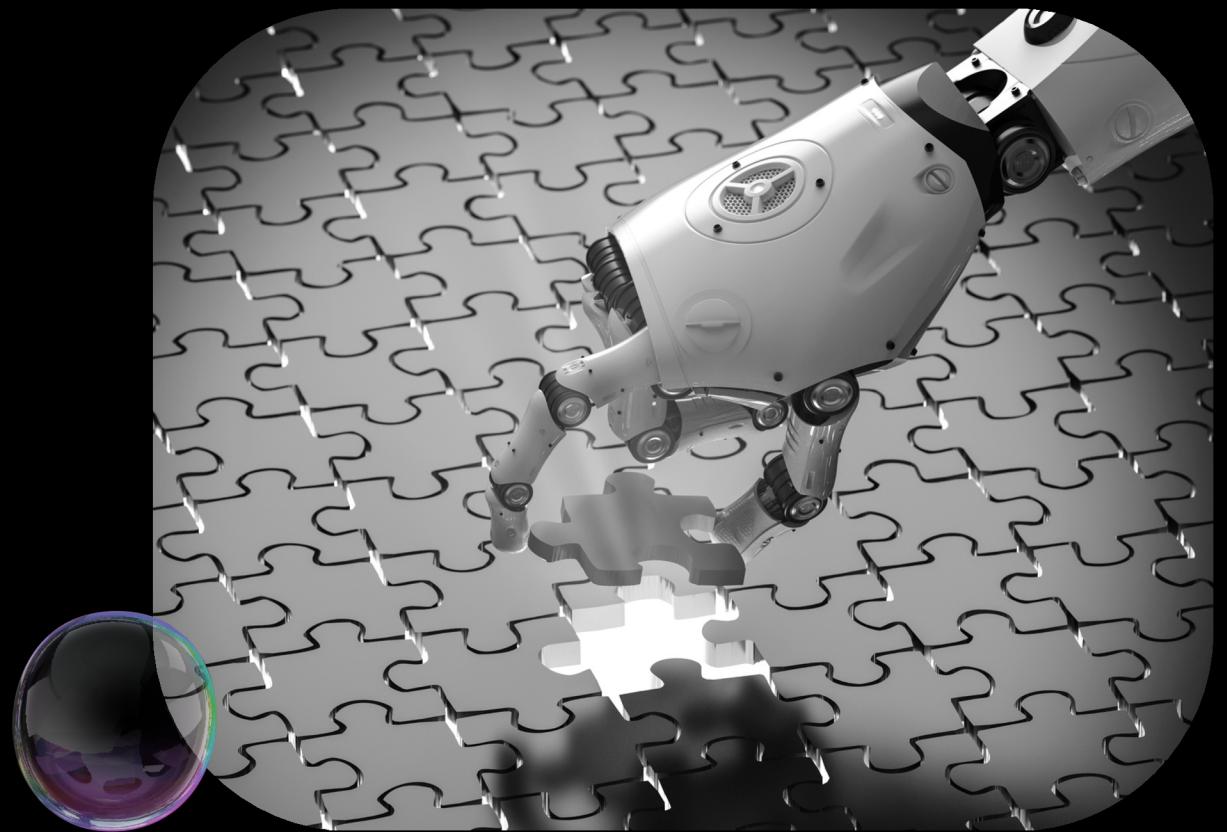


Azure Mastery: Building Smarter Bots

Index & Indexer



Created by
Katerina Chernevskaya





Index

Definition

An index in Azure AI Search is a structured dataset designed to quickly handle queries. It's essentially a place where data is stored in a way that makes retrieval fast and efficient.

You can design an index to best match the types of data you are working with, such as text, numbers, or dates, and optimize it for the kinds of queries you expect to run. This customization helps enhance search performance by making data retrieval more efficient and accurate for your specific application requirements.



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Index

Limits

Indexes in Azure AI Search have limitations related to the number of fields, the size of each index, and the total amount of data they can handle. These constraints are important to ensure optimal performance and resource allocation.

For details:

<https://learn.microsoft.com/en-us/azure/search/search-limits-quotas-capacity#index-limits>



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Index

Schema

An index schema defines the structure of an index including its fields and their data types.

Required fields typically include a **unique identifier** and various searchable fields depending on the data being indexed.

Field name	Type	Retrievable	Filterable	Sortable	Facetable	Searchable	Analyzer	Dimensions
chunk_id	String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Keywo... ▾	
parent_id	String	<input checked="" type="checkbox"/>	Standa... ▾					
chunk	String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standa... ▾	
title	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standa... ▾	
metadata_storage_pi	String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Standa... ▾	
text_vector	SingleCollection	<input checked="" type="checkbox"/>				<input checked="" type="checkbox"/>		1536



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Indexer

Definition

An indexer in Azure AI Search is a tool that automatically extracts data from various sources and populates the index based on field-to-field mappings.

It simplifies the process of ingesting data into indexes without manual data handling.



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Indexer

Limits

Indexers also have limitations, such as the amount of data they can process at a time and the frequency of updates they can handle. Understanding these limits is crucial for efficient indexer setup and operation.

For details:

<https://learn.microsoft.com/en-us/azure/search/search-limits-quotas-capacity#indexer-limits>



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Indexer

Delete Detection

Azure AI Search handles deletions using a **Soft Delete** strategy where documents are first marked for deletion in the search index before being physically deleted from the data source.

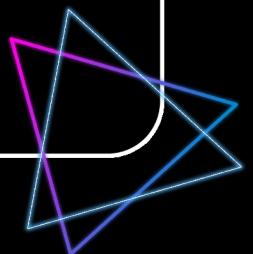
This ensures that the index remains synchronized with the data source.

The process involves setting up deletion detection in the Azure portal or via the REST API, which allows the indexer to recognize and process deletions accordingly.

The deletion detection strategy should be applied from the very first indexer run.



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Indexer

Delete Detection

Home > [Storage account] | Data protection

Data protection provides options for recovering your data when it is erroneously modified or deleted.

Recovery

- Enable Azure Backup for blobs
- Enable point-in-time restore for containers
- Enable soft delete for blobs

Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. [Learn more](#)

Keep deleted blobs for (in days) *

Save Discard Give feedback

Home > [Search service] > Import and vectorize data

Configure your Azure Blob Storage

Subscription: [Subscription]

Storage account: [Storage account]

Blob container: [container]

Blob folder: [your/folder/here]

Enable deletion tracking:

Native blob soft delete

Soft delete using custom metadata

Authenticate using managed identity. [Learn more](#)

Previous Next Give feedback

Enable soft delete for blobs in Azure Blob Storage

Enable deletion tracking in Azure AI Search



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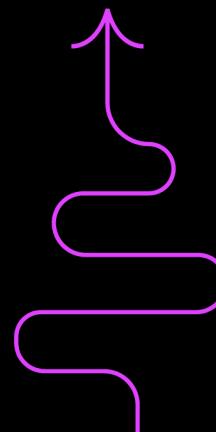
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Key Terms

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