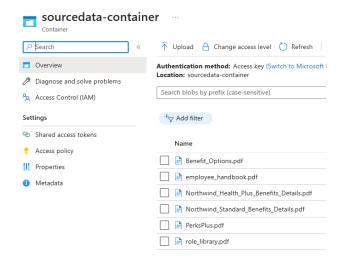
Azure Al Search - Create a Hybrid Search Solution (including vector search)

1. Prerequisites:

- a. Azure OpenAI service with embedding model deployed
- b. Azure storage account with a container

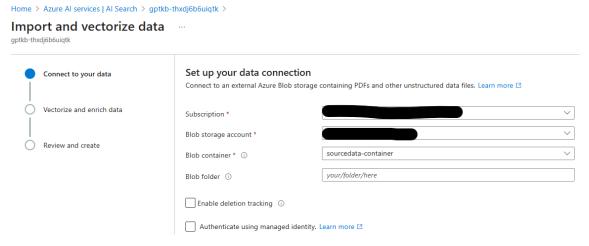
2. Upload sample data (PDF documents) to Azure storage container.

Sample data available on GitHub at https://github.com/amulchapla/GenAI-LLMapps-lifecycle-workshop/tree/main/AzureAISearch-VectorSearch



3. Create Azure Al Search service and create vector store

- a. Login to Azure Portal
- b. Create a new Azure AI Search service (if one doesn't exist already)
- c. Go to Azure AI Search service and click "Import and vectorize data". Follow the data import wizard.
 - i. **Set up your data connection**: Connect to an external Azure Blob storage containing PDFs and other unstructured data files. You can leave Blob folder empty.

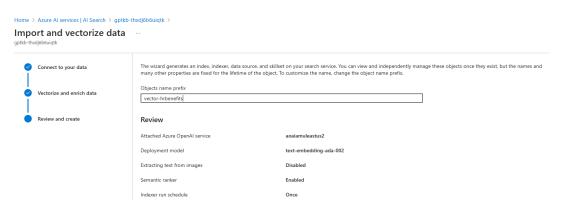


ii. **Vectorize your data with Azure OpenAI**: Connect to an Azure OpenAI service and select an embedding model for vector generation.

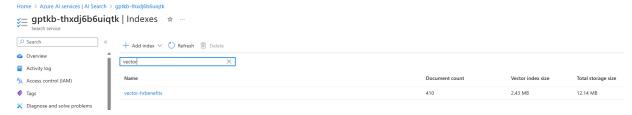
You need Azure OpenAl service with embedding model deployed for this step. If you don't have this then complete that task first.

Import and vectorize data gptkb-thxdj6b6uiqtk			
Connect to your data	Vectorize your data with Azure OpenAl Connect to an Azure OpenAl service and select an embedding model for vector generation. Learn more ©		
Vectorize and enrich data	Subscription *		Y
Review and create	Azure OpenAl service * ①	aoaiamuleastus2	∨ ♡
		Create a new Azure OpenAl service ☑	
	Model deployment * ①	text-embedding-ada-002	<u> </u>
	Authentication type ①	API key System assigned User assigned	ed
	✓ I acknowledge that connecting to an Azure OpenAl service will incur additional costs to my account. View pricing ②		
	Enrich your data with Al skills If documents are image files, or contain embedded images, you can merge the text extracted from those images with the textual content of the documents. You will need to select an Azure Al service or create a new one in the same region as your search service to power your skills and enrich your data. Learn more [2] Extract text from images		
	Advanced ranking and relevancy Semantic ranker uses deep neural networks to provide relevant results and answers based on semantics, not just lexical analysis. Learn more Enable semantic ranker		
	Schedule indexing		
	Schedule	Once	<u> </u>

iii. **Update the search index name (optional):** The wizard generates an index, indexer, data source, and skillset on your search service. You can view and independently manage these objects once they exist, but the names and many other properties are fixed for the lifetime of the object. To customize the name, change the object name prefix.



iv. Wait for search index setup to complete.



- d. **Test Azure Al Search**: Go to the Azure Al Search service and click on Indexes and select the search index you created above.
 - i. Enter a search term related to HR benefits and make sure you get search results.

