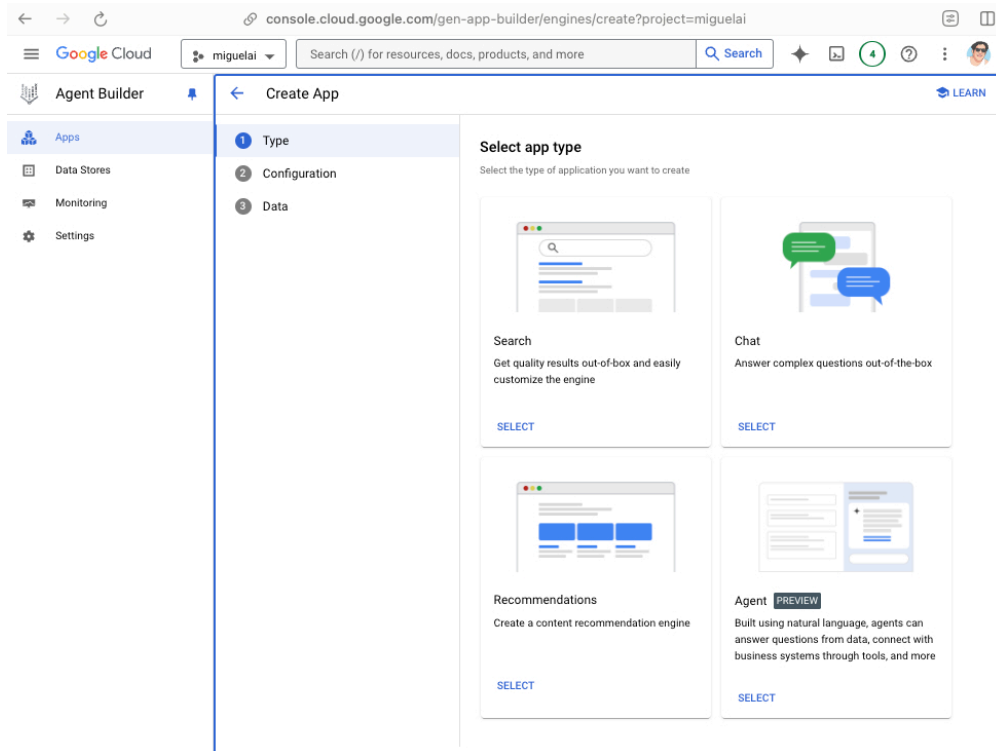


Vertex AI Agent Builder Instructions

Step 1: Select App Type

Navigate to the Vertex AI Agent Builder interface and click on the “Agent” select button.



Step 2: Create a New Agent

Click on the “Create Agent” button to begin setting up a new Vertex AI agent.



Create an agent

Display Name *

test_agent

Region *

us

Region cannot be changed after the playbook is created.

CANCEL

CREATE

Step 3: Enter Agent Name and Region

Provide a name for your agent and select the appropriate region from the dropdown menu.

← → ↺ console.cloud.google.com/gen-app-builder/engines?project=miguelai

Google Cloud

miguelai

Q

4

:

Agent Builder

▼

Apps

+ CREATE APP

FEEDBACK ON AGENT BUILDER

LEARN

Filter

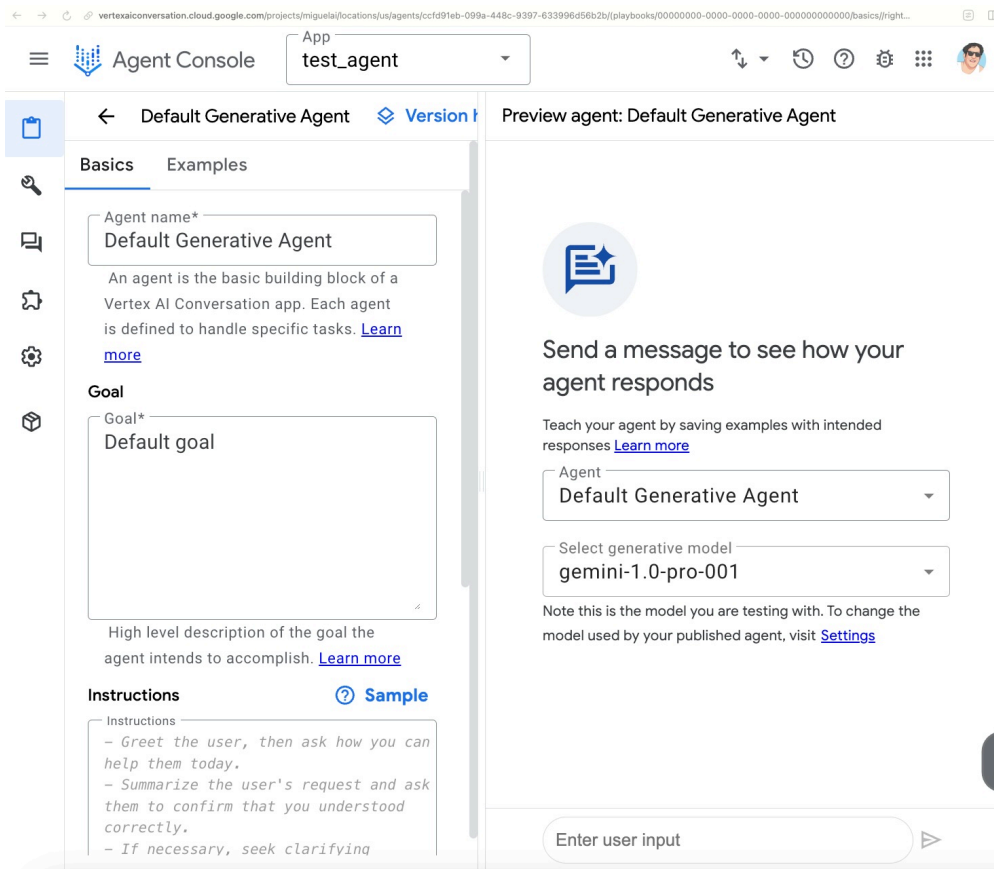
?

|||

Name ↑	App type	Connected data stores	Created	ID	Loca
Agent_Looker	Agent	view	Sep 19, 2024	d27f2462-5527-4091-9362-8b8455f9a753	US-CI

Step 4: Configure Agent Goal

Set the goal for the agent by specifying the purpose it will serve in your environment.



Step 5: Choose a Generative Model

Select a suitable generative model like Gemini 1.0 pro-001 for your agent.



Agents



Tools



Conversation hist...



Integrations ^[preview]



Settings



Prebuilt ^[preview]

Step 6: Open Agent Settings

Click on the "Settings" button to configure detailed settings for your agent.

← → ↺ vertexaiconversation.cloud.google.com/projects/miguelai/locations/us/agents/

App
test_agent

Tools Save

Using tools, you can connect agents to external systems. These systems can augment the knowledge of agents and empower them to execute complex tasks efficiently. [Learn more](#)

Tool name*

Type
Data store

Data store tools can be used by a generative agent for answers to end-user's questions from your data stores.
Note: Conversation history is used as context during tool invocation. [Learn more](#)

Description

Provide a description of this tool. This description is provided to the model as context informing how the tool is used.

Description

Data stores

Data stores are created and managed through Vertex AI Search and Conversation. [Learn more](#)

[Create a data store](#)

Step 7: Update Agent Details

Modify agent details such as company name and agent location for better contextual responses.

← Create App

✓ Type

2 Configuration

3 Data

Agent configurations

Configure your agent settings
You can review the pricing for each feature on our [Pricing Page](#). [↗](#)

Agent configurations

Company name *
your_company

Providing your company name helps the model provide higher-quality responses

✓ SHOW TIME ZONE AND LANGUAGE

Your agent name

Agent name
test_agent

ID: ccf91eb-099a-448c-9397-633996d56b2b. It cannot be changed later. [EDIT](#)

Location of your agent

Multi-region
us (multiple regions in United States)

CONTINUE CANCEL

Step 8: Navigate to Tools Section

Go to the “Tools” section to add or configure various tools like data stores, APIs, or extensions.

← Create App

✓ Type

✓ Configuration

3 Data

Data Stores [+ CREATE DATA STORE](#)

Filter Enter property name or value

Name ↑	Connected apps
<input type="radio"/> bigquery_data_store	Agent_Looker
<input type="radio"/> lookout_agent_datastore	Agent_Looker
<input type="radio"/> lookout_data_store	Agent_Looker

CREATE CANCEL




Step 9: Add a New Tool

Click on the “Add Tool” button to integrate a new tool with your agent.

Select a data source

Choose a data source for your data store

Native sources

 Website Content Automatically crawl public website content from a list of URL patterns you define. SELECT	 Cloud Storage Import data from your storage bucket. SELECT	 API Import data manually by calling the API. SEE DOCUMENTATION
---	--	--

Step 10: Link a Data Store

Select a data store from the list to link it to your agent for data-driven responses.

Import data from Cloud Storage

Specify the data you want to import to your data store

What kind of data are you importing?

For more information, see [Prepare data for ingesting](#).

- ☒ **Unstructured documents (PDF, HTML, TXT and more)**
Supported file formats: PDF, HTML, TXT (CSV for FAQ, DOCX and PPTX are available in Preview)
- ☐ **Linked unstructured documents (JSONL with metadata)**
JSONL files with unstructured document links and its metadata. The schema is auto detected. [View requirements](#)
- ☐ **Structured FAQ data for a chat application (CSV)**
Structured FAQ data

Select a folder or a file you want to import

[FOLDER](#) [FILE](#)

[BROWSE](#)

[CONTINUE](#) [CANCEL](#)

Step 11: Choose Data Store Type

Select the type of data store you want to link, such as Cloud Storage or Website Content.

Configure your data store

Configure additional settings for your data store

Location of your data store

Multi-region
us (multiple regions in United States) ▼

Your data store name

Data store name *
some_data_store

ID: some-data-store_1726762642293. It cannot be changed later. [EDIT](#)

☐ This data store contains access control information

DOCUMENT PROCESSING OPTIONS

Document parsing

Select a parser to apply to your documents. [Learn more about parsing and chunking documents.](#)

Default document parser *
Digital Parser ▼

Select the parser override for specific document formats:

[+ ADD EXCEPTION FOR A FILE FORMAT](#)

Document chunking

You can't change document chunking after creating the data store

☒ Enable advanced chunking configuration

Chunk size limit
500 Tokens

☐ Include ancestor headings in chunks

[CREATE](#) [CANCEL](#)

Step 12: Import Data into Data Store

Specify the type of data to be imported into your data store, like structured or unstructured data.

You have successfully created a data store



Step 13: Configure Data Parsing Options

Set up document parsing options such as advanced chunking or custom metadata extraction.

Data Stores

CREATE DATA STORE

Filter

Enter property name or value

	Name ↑	Connected apps	Created	ID	Location
<input type="radio"/>	bigquery_data_store	Agent_Looker	Sep 17, 2024	bigquery-data-store_1726620241033	us
<input type="radio"/>	looker_agent_datastore	Agent_Looker	Sep 17, 2024	looker-agent-datastore_1726618608145	us
<input type="radio"/>	looker_data_store	Agent_Looker	Sep 17, 2024	looker-data-store_1726626180717	us
<input checked="" type="radio"/>	some_data_store	N/A	Sep 19, 2024	some-data-store_1726762642293	us

CREATE

CANCEL

Step 14: Data Store Creation Confirmation

A confirmation message appears indicating the successful creation of the data store.

Available data stores

NEW DATA STORE

ADD EXISTING DATA STORES

The following data stores can be connected to your agent in Dialogflow CX

Indexing a website or a set of documents can take minutes or days, depending on the amount of data. Be sure to test your agent before releasing it to the public for the first time

Filter

Enter property name or value

Name	Type	Date created
some_data_store	Unstructured data	Sep 19, 2024

Step 15: View Data Store Details

Click on the newly created data store to view its details such as ID, type, and region.

some_data_store

Your agent can use the content in this datastore to generate responses.

Data store ID

some-data-store_1726762642293

Type

Unstructured data

Region

us

Language

N/A

Number of documents

0

Last document import

Sep 19, 2024, 11:19:02 AM

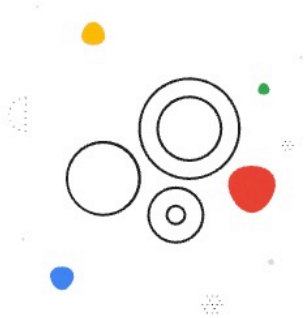
VIEW DETAILS

DOCUMENTS

ACTIVITY

PROCESSING CONFIG

PREVIEW



Processing data...

For more information see the [Activity tab](#).

REFRESH

Step 16: Check Imported Data

Verify the number of documents imported and their status in the “Documents” tab.

some_data_store

Your agent can use the content in this datastore to generate responses.

Data store ID

some-data-store_1726762642293

Type

Unstructured data

Region

us

Language

N/A

Number of documents

0

Last document import

Sep 19, 2024, 11:19:02 AM

VIEW DETAILS

DOCUMENTS

ACTIVITY

PROCESSING CONFIG

PREVIEW

Activity

+ IMPORT DATA

Filter

Status	Detail	Items succeeded	Operation name	Last updated
<div></div> Import in progress	No errors	0	import-documents-907522314896313173	Sep 19, 2024, 11:19:02 AM

Step 17: Monitor Import Progress

Check the import progress and status updates for the data store.

Available data stores

+ NEW DATA STORE

ADD EXISTING DATA STORES

The following data stores can be connected to your agent in Dialogflow CX

Indexing a website or a set of documents can take minutes or days, depending on the amount of data. Be sure to test your agent before releasing it to the public for the first time

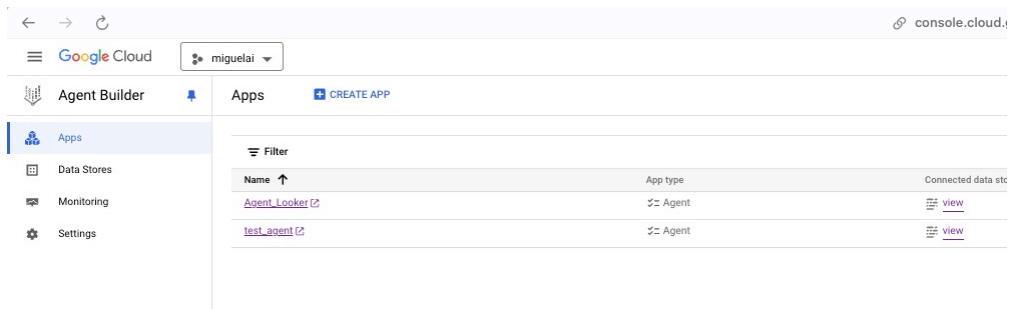
Filter

Enter property name or value

Name	Type	Date created
some_data_store	<div></div> Unstructured data	Sep 19, 2024

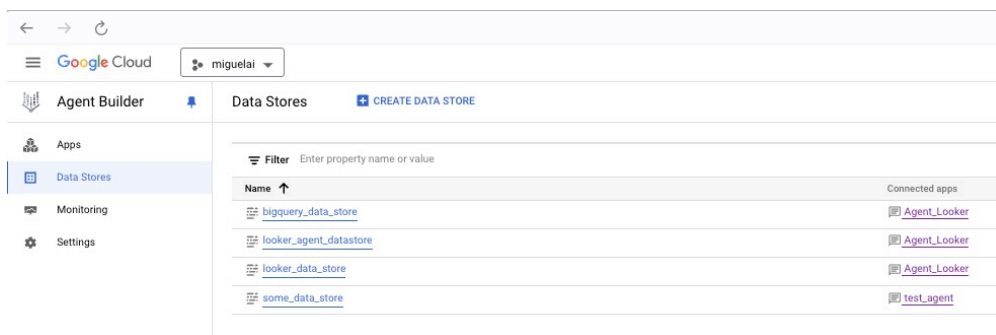
Step 18: View Data Store Activity

Review the activity log for import history, errors, and other processing tasks.



Step 19: Link Existing Data Store

Choose an existing data store and link it to the agent configuration.



Step 20: Add Data Store as Tool

Return to the "Tools" section and add the newly created data store as a tool for the agent.

Google Cloud

miguelai

Agent Builder

Data

Data stores

some_data_store

Data

some_data_store

Data store ID

some-data-store_1726762642293

Type

Unstructured data

Region

us

Language

N/A

Connected apps

test_agent

Number of documents

16

Last document import

Sep 19, 2024, 11:19:02 AM

VIEW DETAILS

DOCUMENTS

ACTIVITY

PROCESSING CONFIG

PREVIEW

+ IMPORT DATA

PURGE DATA

ID	URI
0171e1f32b1335b9b4edadae51c52331	gs://agent_miguel_jooker_bucket/bigquery/Functions, operators, and conditionals - BigQuery - Google Cloud.pdf
185077b0c16321640623a80bd63883f8b	gs://agent_miguel_jooker_bucket/bigquery/Function calls - BigQuery - Google Cloud.pdf
18aa188ced23560557afc10ea854693c	gs://agent_miguel_jooker_bucket/bigquery/Text analysis - BigQuery - Google Cloud.pdf
1c277d1f3aef2efbc32ee92bd9bfbfd	gs://agent_miguel_jooker_bucket/bigquery/Query syntax - BigQuery - Google Cloud.pdf
1fa307f5d2105c57037c73b4b060b9f	gs://agent_miguel_jooker_bucket/bigquery/Conditional expressions - BigQuery - Google Cloud.pdf
32911d51d7d7789a0ebf62c94c23274b	gs://agent_miguel_jooker_bucket/bigquery/Aggregate function calls - BigQuery - Google Cloud.pdf
354bdf7055d974d7da36a9243e6eebb9	gs://agent_miguel_jooker_bucket/bigquery/Operators - BigQuery - Google Cloud.pdf
7f36c99213e623958f64fcc3498701dd	gs://agent_miguel_jooker_bucket/bigquery/Format elements - BigQuery - Google Cloud.pdf
8dafa4998437535e409ed0bfb49a39f2	gs://agent_miguel_jooker_bucket/bigquery/Optimized SQL functions and operators - BigQuery - Google Cloud.pdf
aac4398b1d1913617eaf375ac80c9071	gs://agent_miguel_jooker_bucket/bigquery/Window function calls - BigQuery - Google Cloud.pdf
bc8d0c97cae267d4dffa76489123232b	gs://agent_miguel_jooker_bucket/bigquery/Lexical structure and syntax - BigQuery - Google Cloud.pdf
cc639a2d425e0b697d58e5faa8e09ee3	gs://agent_miguel_jooker_bucket/bigquery/Data definition language (DDL) statements in GoogleSQL - BigQuery - Google Cloud.pdf
d87716a7d757f36b01634b844b6e64fe	gs://agent_miguel_jooker_bucket/bigquery/Subqueries - BigQuery - Google Cloud.pdf
e846facb983884957236e62c0b9c422e	gs://agent_miguel_jooker_bucket/bigquery/Conversion rules - BigQuery - Google Cloud.pdf
e92444b47b3ff27b9cd71487ba47bf58	gs://agent_miguel_jooker_bucket/bigquery/Working with collation - BigQuery - Google Cloud.pdf
fce5ba3d89921531bda42eb472859667	gs://agent_miguel_jooker_bucket/bigquery/Data types - BigQuery - Google Cloud.pdf

Step 21: Verify Tool Configuration

Ensure that the newly added tool is visible and correctly configured under the agent’s tools.

→↺

Agent Console

Project
miguelai

App
test_agent

You are currently in the **upgraded version of the Agent Console (V2)**, which contains the latest bugs fixes and features.
Feel free to report any bugs using the bug icon above. You can also switch back to V1 at any time via the banner link.

← Default Generative Agent Version history Save

Basics Examples

Agent name*

Default Generative Agent

An agent is the basic building block of a Vertex AI Conversation app. Each agent is defined to handle specific tasks.
[Learn more](#)

Goal

Goal*

Default goal

High level description of the goal the agent intends to accomplish. [Learn more](#)

Instructions ? Sample

Instructions

- Greet the user, then ask how you can help them today.
- Summarize the user's request and ask them to confirm that you understood correctly.
- If necessary, seek clarifying details.
- Use \${TOOL: Example tool name} to help the user with their task.
- Use \${AGENT: Example agent name} to help the user with a complex subtask.
- Thank the user for their business and say goodbye.

Ordered list of step-by-step execution instructions to accomplish target goal. Specify instructions using [unordered markdown list](#) syntax. Instructions may be nested to specify substeps. Use the syntax `${TOOL: tool name}` to reference a tool, and `${AGENT: agent name}` to reference another agent. [Learn more](#)

Available tools

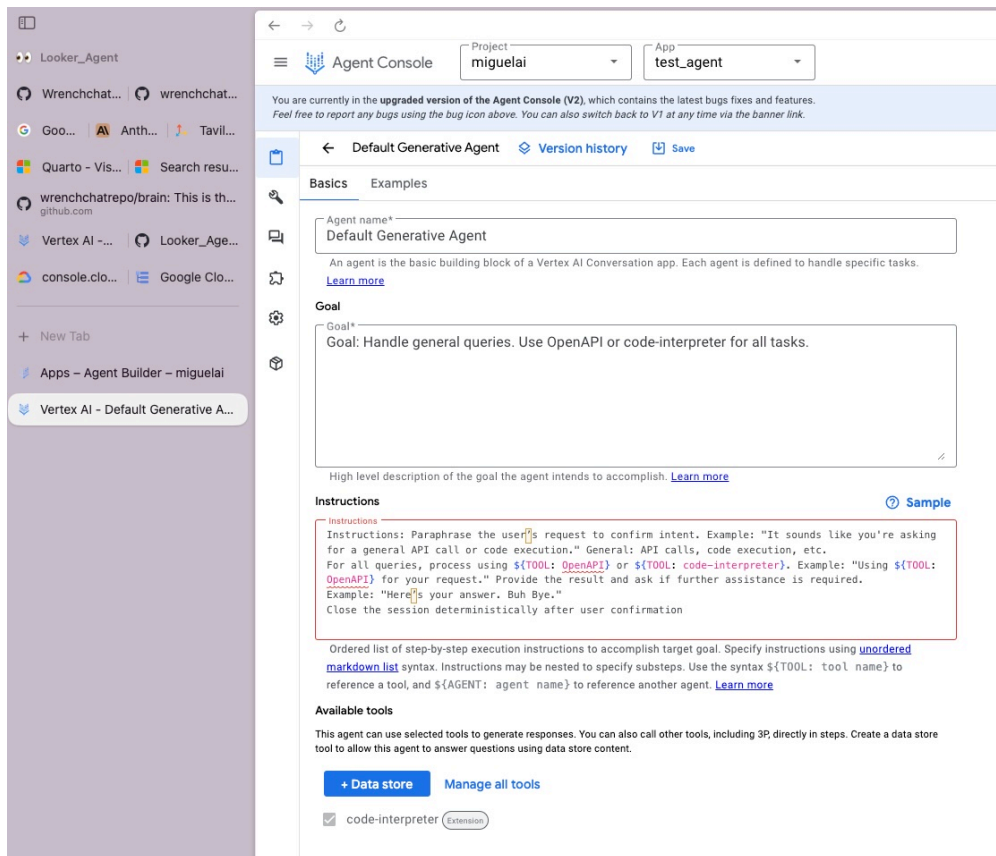
This agent can use selected tools to generate responses. You can also call other tools, including 3P, directly in steps. Create a data store tool to allow this agent to answer questions using data store content.

+ Data store Manage all tools

☒ code-interpreter Extension

Step 22: Test the Agent with New Tool

Use the testing interface to issue queries and validate the agent's responses using the data store.



Step 23: Add Additional Tools

Consider adding other tools like APIs or extensions to enhance the agent's capabilities.

Tool OpenAPI does not exist under the agent ccfd91eb-099a-448c-9397-633996d56b2b.

Step 24: Finalize Agent Configuration

Review all the tools and data sources linked to the agent and finalize the configuration.

Service

Enter the name of the [service directory](#)

Step 25: Conduct Comprehensive Testing

Run a series of tests to ensure the agent performs as expected in various scenarios.

```
Found errors in the Open API specification [attribute
paths.'/generate'(post).requestBody.content.'application/json'.schema is not of
type 'object', attribute paths.'/generate'(post).responses is missing, Exception
safe-checking yaml content (maxDepth 2000, maxYamlAliasesForCollections
2147483647)]
```



Step 26: Save and Prepare for Publishing

Save the agent's configuration and prepare it for publishing once all testing is complete.

←

→

↺

≡

Agent Console

Project

miguelai

App

Agent_Looker

You are currently in the **upgraded version of the Agent Console (V2)**, which contains the latest bugs fixes and features. Feel free to report any bugs using the bug icon above. You can also switch back to V1 at any time via the banner link.

📄

Tools

Save

🔑

Using tools, you can connect agents to external systems. These systems can augment the knowledge of agents and empower them to execute complex tasks efficiently. [Learn more](#)

💬

Tool name*

some_data_store

🔗

Type

Data store

⚙️

Data store tools can be used by a generative agent for answers to end-user's questions from your data stores. Note: Conversation history is used as context during tool invocation. [Learn more](#)

📖

Description

Provide a description of this tool. This description is provided to the model as context informing how the tool is used.

Description

Some_Data_Store has files in it. Use them

📊

Data stores

Select up to one data store of each type. Refresh to see newly created data stores.

[Refresh data stores](#)
[Manage data stores](#)

Display name	Type
Data store	Website
some_data_store	Unstructured documents
Data store	FAQ documents

Step 27: Add More Tools if Needed

Step 28: Review Agent Instructions

Step 29: Conduct Comprehensive Testing

Contact Information For issues, reach out to the repo owner at dion@doit.com

