

# Aura Agent Early Access Program FAQ

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## About Aura Agent.

Aura Agent is a new no/low-code platform in Neo4j Aura that lets you build, test, and deploy intelligent AI agents grounded in your AuraDB knowledge graphs.

## What problems does Aura Agent solve?

It removes the complexity of building graph-backed AI agents — handling query translation, graph data retrieval, and secure deployment — so you can focus on solving business problems.

## How do I create an agent?

In the Aura Console, go to Agents → Create. Name your agent, add a description and prompt instructions, connect it to your AuraDB instance, then configure tools.

You can also check the [Aura Agent EAP announcement blog post](#) for a detailed walkthrough of creating an agent.

There is an [Aura Agent tutorial repository](#) with end-to-end examples creating, testing and deploying agents.

## What types of tools can I add to my agent?

Three types are supported:

- Parameterized Cypher Templates for predefined queries.
- Vector (Similarity) Search for vector-based semantic search.
- Text2Cypher for dynamic ad-hoc queries.

## I'm new to Cypher — how can I get help creating a Cypher Template?

You can:

- Learn [Cypher fundamentals at GraphAcademy](#).
- Use [Query Copilot to generate Cypher queries](#) from natural language.
- Use your favorite LLM-power code assistant: ChatGPT, Cursor, Claude, Claude Code.
  - With Claude and Claude Code, you can use the [MCP Neo4j Cypher Server](#) to generate and validate Cypher queries against your knowledge graph.
- Most are capable of generating good Cypher for simple queries.

Once you have a working Cypher Query, it is a case of pasting it in your Cypher Template.

### **How can I test my agent?**

After saving your agent, you can test it directly in the Aura Console using the built-in chat interface. You can:

- Ask natural language questions (e.g., “List the top 5 organizations with the most contracts”).
- Expand the reasoning box to see which tools were used, the queries executed, and intermediate outputs.
- Add, Update, Delete tools and prompts as needed, then re-test before making your agent external.

### **How can I make my agent accessible to GenAI Apps (outside of Aura)?**

Set your agent visibility to External. This will deploy it to an Aura API endpoint.

Next, you can [follow instructions](#) to generate your API credentials. This will get your API client id and secret to securely connect from external applications.

Once you have your API client id, secret and agent endpoint, you can use AURA API authentication to access your agent outside of Aura. [See step-by-step instructions here](#)

### **How much does it cost?**

Aura Agents are free for all Aura customers and users **during the Early Access Program** (EAP). At this time, Aura Agents can only be created against Free, Professional, and Business Critical instances.

Once GA is announced, there will be charges and limits for your published agents.

### **Where can I find out more?**

See the [tutorial repository](#) which contains sample datasets and step-by-step instructions to build Aura Agents from them.

You can also check the [Aura Agent EAP announcement blog post](#).

### **Where do I report issues or bugs?**

Report through the dedicated [Neo4j Aura feedback](#) board

**What kind of support is available?**

During Early Access Preview, you can use the [Neo4j Aura feedback](#) to report any issues.

We will make every effort to address issues reported on the board.

As an EAP/beta product, Aura Agent is not covered by your official Aura support contract / terms.

**When is the product going to be Generally Available?**

Expect an announcement later in Q4 2025.

Once the product goes GA, pricing and support information will be made available.

**What are good use cases for Aura Agents?**

Any Aura user with a business relevant Knowledge Graph in AuraDB (Free, Professional, Business Critical instance).

You are building an agent or multi-agent system and want natural language answers grounded by data in your knowledge graph.

**I don't see my embedding provider listed in the similarity search tool.**

At this point, Aura Agent similarity tool will only work if you have previously generated embeddings with the latest text embedding services from OpenAI and Google Vertex AI. You must have also stored the same type and size of embeddings in your knowledge graph and created a vector index in Neo4j.

We will be adding text embedding providers and models in future. Use [Neo4j Aura feedback](#) if your embedding provider is not listed.

**In my Cypher Template, I'd like to return relationships but the agent is not picking them up.**

LLM-powered Agents are optimized for text output. At this point, we ask that your Cypher queries return specific named node and relationship properties. We are exploring the use of nodes and relationships to power visually rich output in our built-in chat function.

**If I reload the chat window, the conversation history is lost, why?**

Our built-in chat functionality is currently designed for testing/verifying agent responses and not as a general-purpose chat assistant. We will provide support to store conversation history later on.

**How many tools can be added to the agent?**

There is no upper limit, up to 10-15 tools is reasonable. You should always check that your agent answers as you would expect with the tools available. When an agent fails to answer, it usually benefits from an additional tool.

### **I need some ideas/inspiration on how to build my first agent.**

Think about the questions your agent is likely to be asked, and what data is needed for composing the answer, this will help you identify a minimal set of tools that you need to define for your agent.

You can read our end-to-end tutorials showing the basics: create agent, add tools, test agent, access your agent externally. Here's a [contract review agent](#) and a [know-your-customer](#) agent

### **I can't create an agent on my knowledge graph. What's wrong?**

Check your knowledge graph contains data and also that it is hosted on an Aura Free, Professional or Business Critical instance (not VDC). Finally, make sure your instance is "RUNNING" (not stopped)

### **Can I use the agent to write to the knowledge graph?**

No. At this point, the agent does not write to your Aura Instance. This is intentional. We are taking feedback on this capability so if this is important for your use case, please report it via [Neo4j Aura feedback](#) board.

### **My vector similarity tool is not working**

Make sure that:

- You have a vector index created on the embedding property.
  - The name of the index matches the configuration in your vector similarity tool.
- Your embeddings were generated using one of the supported providers (OpenAI and Vertex AI) and models.
- Your embeddings are not partial/truncated (e.g you are not using a subset of the original embedding generated). We will add support for "dimensions" so you can specify in the vector similarity tool.

### **My agent is not working with IP Filtering. What could be the problem?**

IP Filtering is not supported yet. This will be resolved for GA. In the meantime, agents configured to use an Aura Business Critical instance that uses IP filtering, will not work.

**Best Practices:**

- **Agent:**
  - Use agent description to set the tone and personality of your agent.
- **Tools:**
  - Use tool description to describe the purpose of this tool. Provide explicit guidance as to when the agent should use it. You can provide examples.
  - Cypher Templates - Bulk queries: When defining a Cypher template, consider using a comma-separated list of string or integers and have your Cypher query unpack these and execute a single Cypher query. Otherwise, your agent will require multiple trips to the database (unnecessary increasing latency)
  - Consider adding to your system prompt the requirement that the agent outputs ids of entities retrieved from the graph, so that subsequent tools can be passed these ids and don't have to search for the entity by name or description

# Additional Content

## Known Issues

- Only the output message history is preserved during a conversation,
  - which means the same tool can be called multiple times during the same conversation - this is expected
  - The tool call responses are not kept in the context, only the final, textual output, so if you want IDs of entities for later tool calls (without having to find the entities again with an extra call) you have to tweak your prompts or the agent instructions to (always) output the id's as part of the response
- Only a single chat at a time, for a new chat reload the page, there is nothing saved between chats (no chat memory)
- All tools are executed as read only currently no writing to the database (for safety reasons) will reconsider in the future

## Getting Started

### Overview

- Go to Agents in Sidebar
- Create Agent Button
- Specify Agent (title, description (short), instructions)
  - a. Need to have at least ONE tool to save the agent
- Add Tools
  - a. 2-3 Cypher Template Tools for different queries (can have parameters) possibly
  - b. one text2cypher tool, and
  - c. one (or more) vector search tool
- Save Agent
- Start asking questions in the test chat experience
  - a. Fold out the "Thinking Bar" for details
- Context menu for Agent - Edit, Delete
- Public API
  - a. Make Agent Public
  - b. Get Auth Token
  - c. Invoke Endpoint

### Enable GenAI Assistance

- GenAI usage needs to be enabled on the Org Level



Projects

Users

Security

Settings

## Organization settings

### General settings

Organization name

Michaels Test Org

Organization ID

3d6481bf-2df1-47cf-8392-0288b1ac215f

Copy

### Preferences



Generative AI assistance

Enable generative AI features that assist users in exploring and querying graphs.

## Database requirements

- not empty
- version 5 or 2025 and **not paused**,
- Aura Pro/Business Critical databases only **NOT Enterprise/VDC Tenants**
- seamless auth needs to be enabled for the database (organization) in the Org settings under Security

Feedback



Projects

Users

Security

Settings

Debug

## Security

### Single sign-on

Configure single sign-on for your organization and instances.

Not setup



### IP filtering

Control access to networks or systems by allowing or blocking traffic based on specified IP addresses.

Not setup



### Tool authentication with Aura user

Allow tools to connect with permissions from the user's project role.

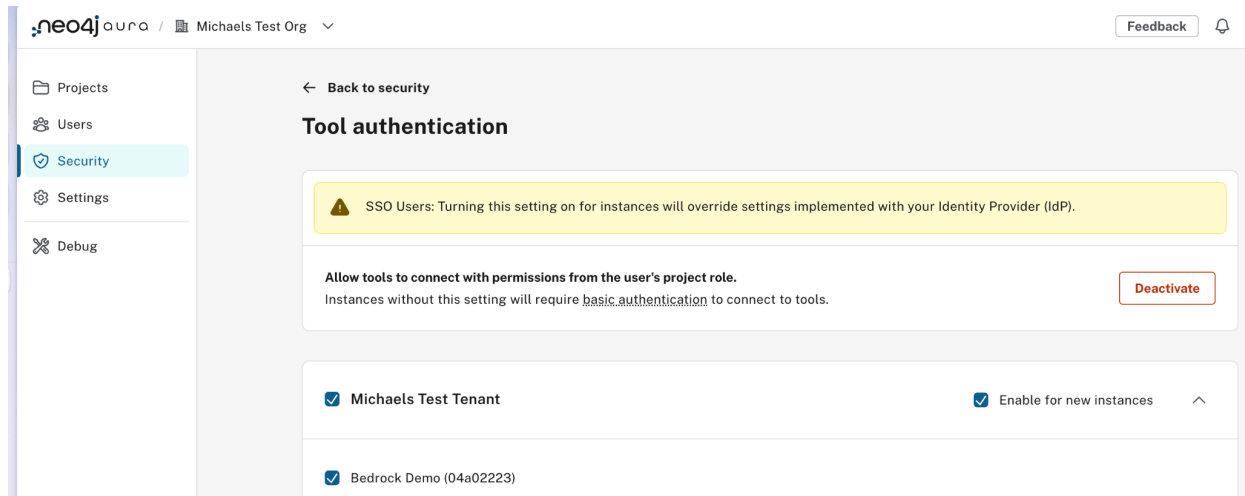


### MFA (Multi-Factor Authentication)

Require all members of the organization to login using email/password and a code from an authenticator app.

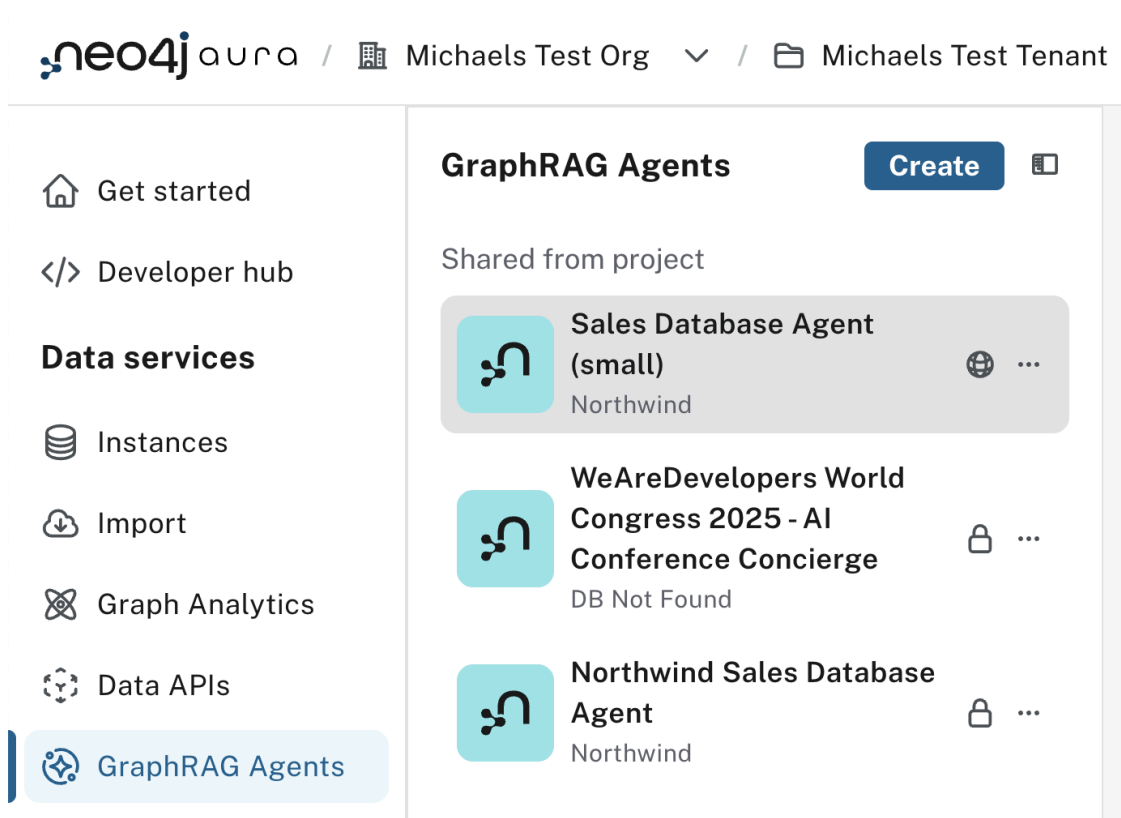
Not setup





## Create Agent

Specify Agent (title, description (short), instructions)



## Create GraphRAG Agent

Cancel

Save



GraphRAG Agent Name

Sales Database Agent

Description

An agent that can provide information and analytics for a sales database

Prompt instructions

Optional

You are a helpful agent that can provide information and analytics for a sales database, for products, customers, categories.

Target instance

Northwind



Internal

Available to members of this  
Aura project



External

Available from an endpoint that  
will be generated for you

### Agent tools

The agent will use its tools to answer questions

Add tool ▼

**Need to have at least ONE tool to save the agent**

### Add Tools

- 2-3 Cypher Template Tools for different queries (can have parameters) possibly
- one text2cypher tool, and
- one (or more) vector search tool

## Add Cypher Template tool

Cancel

Save

### Details

Name

list products

Description

List all products with details (like categories or supplier)

### Parameters *(optional)*

Define parameters for your agent to use in the cypher below

Add parameter

### Cypher query

```
1 MATCH (p:Product)
2 RETURN p {.*, embedding: null} as product,
3      [ (p)-[:SUPPLIES]-(s) | s {.*} ] as supplier,
4      [ (n)-[:IN_CATEGORY]->(c) | c {.*} ] as category
```

Type \$ to access your parameters

## Add Cypher Template tool

Cancel

Save

### Details

Name

Products in Category

Description

Return products in a category (by category name) including product details, sales volume and sales value

### Parameters *(optional)*

Add parameter

Define parameters for your agent to use in the cypher below

\$category  
Category name



### Cypher query

```
1 MATCH (p:Product)-[:IN_CATEGORY]->(c:Category)
2 WHERE toLower(c.categoryname) contains toLower($category)
3 CALL (p) {
4   MATCH (p)-[:CONTAINS]-(o)
5   RETURN sum(p.price * li.quantity) as order_value, sum(li.quantity) as order_volume
6 }
7 RETURN p {.*, embedding: null} as product, order_value, order_volume
```


## Test Agent

- Start asking questions in the test chat experience


- Fold out the "Thinking Bar" for details

- Fold out the "Thinking Bar" for details


List dairy products



Thought for 6s

 Reasoning

The user is asking to list products belonging to the "dairy" category. The 'products\_in\_category' tool can directly fulfill this request by providing products within a specified category.

 Applying agent tools


`</> products_in_category`

Input

```
{
  "category": "Dairy"
}
```

Output

```
{
  "keys": [
    "product",
    "order_value",
    "order_volume"
  ],
  "records": [
    {
      "order_value": 3822,
      "order_volume": 182,
      "product": {
        "embedding": null,
        "price": 21,
        "productid": 11,
        "productname": "Queso Cabrales",
        "unit": "1 kg pkg."
      }
    }
  ],
}
```

Message agent... 

This is an experimental AI chatbot. All information should be verified.

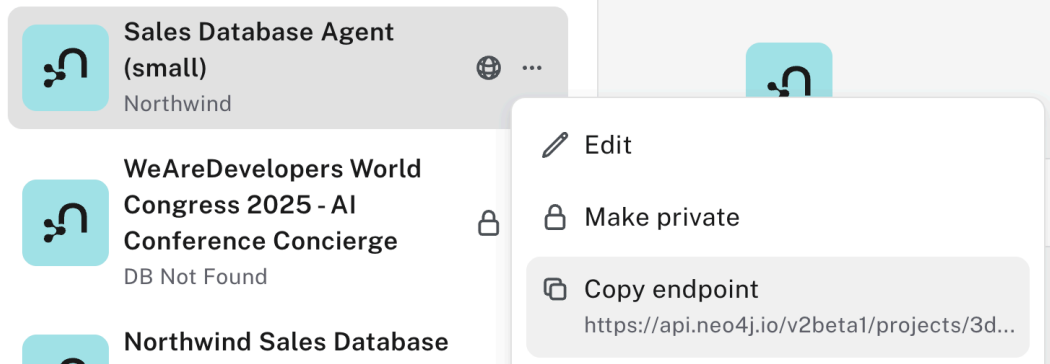
### Context menu for Agent

- Edit,
- Delete,
- Make Public

### Public API

- Make Agent Public
  - a. Copy endpoint URL

Shared from project



**Sales Database Agent (small)**  
Northwind

**WeAreDevelopers World Congress 2025 - AI Conference Concierge**  
DB Not Found

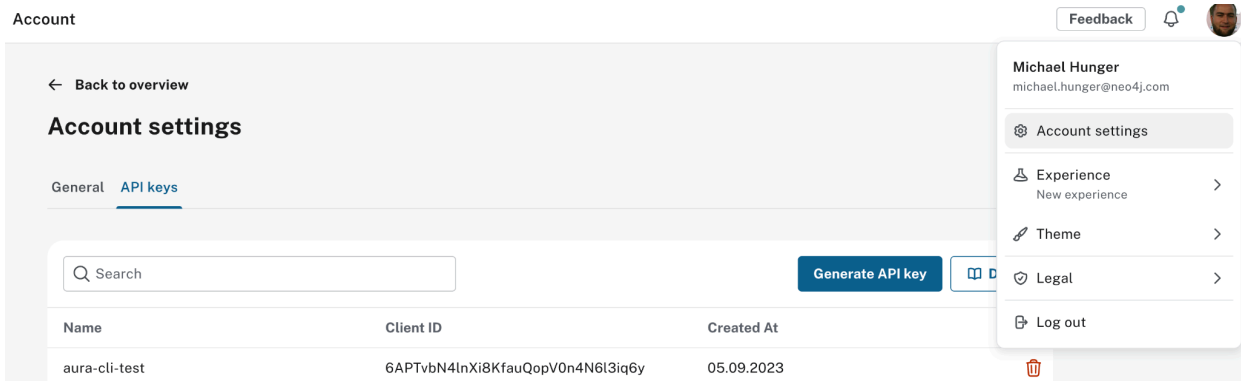
**Northwind Sales Database**

Edit

Make private

Copy endpoint  
https://api.neo4j.io/v2beta1/projects/3d...

- Get Auth Token
  - a. You need an Aura API Client-ID and Client Secret (from your Account Page)



Account

Feedback

← Back to overview

**Account settings**

General **API keys**

Search

Generate API key

Name	Client ID	Created At
aura-cli-test	6APTvbN4lnXi8KfauQopV0n4N6l3iq6y	05.09.2023

Michael Hunger  
michael.hunger@neo4j.com

- Account settings
- Experience  
New experience
- Theme
- Legal
- Log out

- Invoke Endpoint

Shell

```
export CLIENT_ID="..."
export CLIENT_SECRET="..."
export
ENDPOINT_URL="https://api.neo4j.io/v2beta1/projects/.../agents/.../invoke"

# get bearer token
curl --request POST 'https://api.neo4j.io/oauth/token' \
  --user "$CLIENT_ID:$CLIENT_SECRET" \
  --header 'Content-Type: application/x-www-form-urlencoded' \
  --data-urlencode 'grant_type=client_credentials'

{"access_token":"eyJh...","expires_in":3600,"token_type":"Bearer"}

#invoke endpoint
```



```
export BEARER_TOKEN=$(curl -s --request POST 'https://api.neo4j.io/oauth/token' \
  --user "$CLIENT_ID:$CLIENT_SECRET" \
  --header 'Content-Type: application/x-www-form-urlencoded' \
  --data-urlencode 'grant_type=client_credentials' | jq -r .access_token)

curl --request POST \
  "$ENDPOINT_URL" \
  -H 'Content-Type: application/json' \
  -H 'Accept: application/json' \
  -H "Authorization: Bearer $BEARER_TOKEN" \
  -d '{"input": "List all the products in the Dairy category"}' \
  --max-time 60 | jq .
```

## JSON Output

```
JSON
{
  "content": [
    {
      "thinking": "The user is asking to list products within a specific category, and the `products_in_category` tool is designed for this purpose.",
      "type": "thinking"
    },
    {
      "id": "83572c3e-56e8-46ff-ad72-9d9c6eba5d00",
      "input": {
        "category": "Dairy"
      },
      "name": "products_in_category",
      "type": "cypher_template_tool_use"
    },
    {
      "output": {
        "keys": [
          "product",
          "order_value",
          "order_volume"
        ]
      }
    }
  ]
}
```

```

],
"records": [
  {
    "order_value": 3822,
    "order_volume": 182,
    "product": {
      "embedding": null,
      "price": 21,
      "productid": 11,
      "productname": "Queso Cabrales",
      "unit": "1 kg pkg."
    }
  },
  ....
  {
    "order_value": 9396,
    "order_volume": 270,
    "product": {
      "embedding": null,
      "price": 34.8,
      "productid": 72,
      "productname": "Mozzarella di Giovanni",
      "unit": "24 - 200 g pkgs."
    }
  }
],
"summary": {}
},
"tool_use_id": "83572c3e-56e8-46ff-ad72-9d9c6eba5d00",
"type": "cypher_template_tool_result"
},
{
  "thinking": "I have successfully retrieved the list of products in the Dairy category using the `products_in_category` tool. The output contains all the necessary information to answer the user's query.",
  "type": "thinking"
},
{
  "text": "Here are all the products in the Dairy category:\n\n* Queso Cabrales\n* Queso Manchego La Pastora\n* Gorgonzola Telino\n* Mascarpone Fabioli\n* Geitost\n* Raclette Courdavault\n* Camembert Pierrot\n* Gudbrandsdalsost\n* Fløtemysost\n* Mozzarella di Giovanni",
  "type": "text"
}

```

```
],  
  "end_reason": "FINAL_ANSWER_PROVIDED",  
  "role": "assistant",  
  "status": "SUCCESS",  
  "type": "message"  
}
```