

ORACLE

Creating the Chatbot Agent in OCI

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Enterprise Cloud Architects

NACI, Oil & Gas vertical

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Verify Access to Generative AI Agents Services



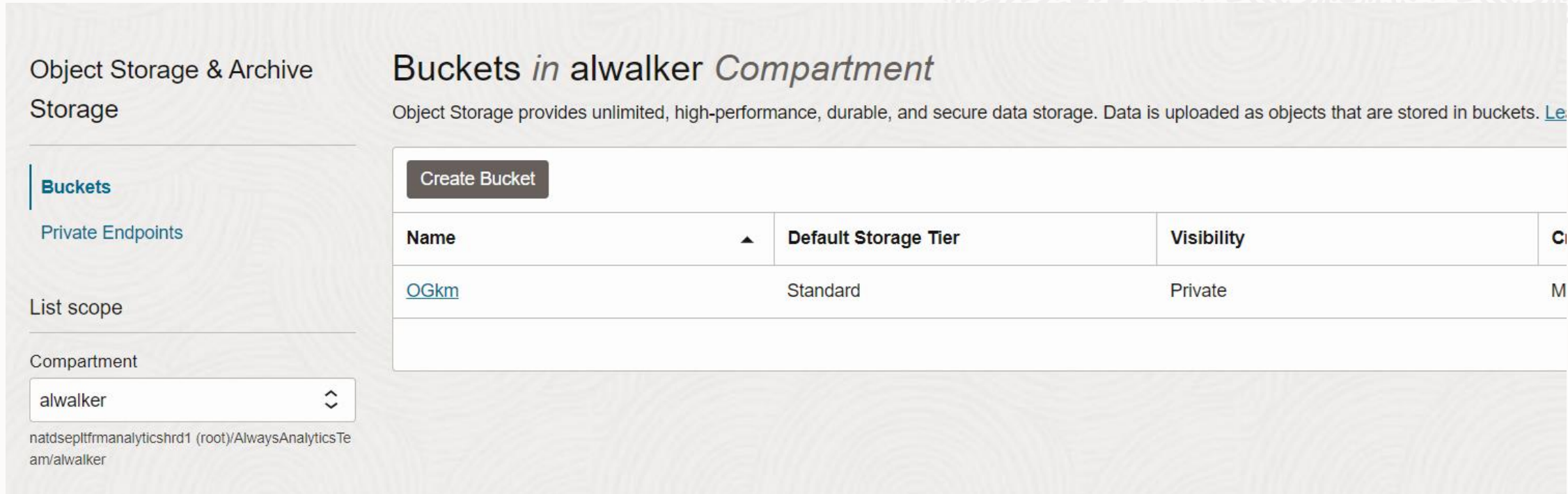
The screenshot shows the Oracle Cloud console interface. At the top, there is a search bar and the text "Search resources, services, documentation, and Marketplace". The region is set to "US Midwest (Chicago)". The main content area is titled "Analytics & AI" and is divided into several columns:

- Analytics**: Analytics Cloud
- Data Lake**: Big Data Service, Data Catalog, Data Integration, Data Flow
- Messaging**: Streaming, Connector Hub
- Machine Learning**: Data Science, Data Labeling
- AI Services**: Generative AI, Language, Speech, Vision, Document Understanding, Digital Assistant, **Generative AI Agents** (circled in red)
- Media Services**: Media Flow, Media Flow Jobs, Media Streams
- Related services**: Autonomous Database, HeatWave MySQL, Oracle NoSQL Database, Object Storage & Archive Storage, Application Performance Monitoring, Logging Analytics, Ops Insights, Logging
- Help**: Analytics Cloud Documentation, Big Data Documentation, Data Science Documentation, Digital Assistant Documentation, REST APIs

A left-hand navigation menu includes: Home, APPLICATIONS, My Applications, INFRASTRUCTURE, Compute, Storage, Networking, Oracle Database, Databases, **Analytics & AI** (highlighted), Developer Services, and Identity & Security.



Create an Object Storage Bucket and Upload Files



Object Storage & Archive Storage

Buckets *in alwalker Compartment*

Object Storage provides unlimited, high-performance, durable, and secure data storage. Data is uploaded as objects that are stored in buckets. [Learn more](#)

Create Bucket

Name	Default Storage Tier	Visibility	Created
OGkm	Standard	Private	M

List scope

Compartment

alwalker

natdseptfrmanalyticshrd1 (root)/AlwaysAnalyticsTeam/alwalker

- From the navigational menu – go to **Storage > Buckets**
- Click on **Create Bucket**



Create a Knowledge Base

ORACLE Cloud Search resources, services, documentation, and Marketplace

Generative AI Agents

- Overview
- Agents
- Knowledge Bases**
- Chat

List scope

Compartment

Knowledge bases *in alwalker Compartment*

Knowledge bases connect to agents and provide them access to your data sources. [Learn more](#)

[Create knowledge base](#)

Name	Lifecycle state
ogKB	New knowledge base

The knowledge base is the base for all the data sources that an agent can use to retrieve the data for its chat answers.

Create a knowledge base that either imports content into a retrieval-augmented generation (RAG) system or uses your own data store.

Name

Compartment
naldseptlfrmanalyticshrd1 (root)/AlwaysAnalyticsTeam/alwalker

Description *Optional*

Data store type

- Object storage
- Object storage
- OCI OpenSearch
- Oracle AI Vector Search

[Specify data source](#)

Name	Type	Bucket name
------	------	-------------



Create a Data source



Specify data source

! Information ingested into the knowledge base is securely stored and used as reference context when the Agent generates responses. The ingestion process does not attempt to identify, filter, or remove personal information from the input.

Name
ogDS

Description *Optional*

Data bucket

Select bucket in **alwalker** ([Change compartment](#))
OGkm

Select directories and/or individual files inside the Object Storage bucket name specified above. Content indexing is supported for the following file types: PDF, TXT

Select all in bucket ⓘ

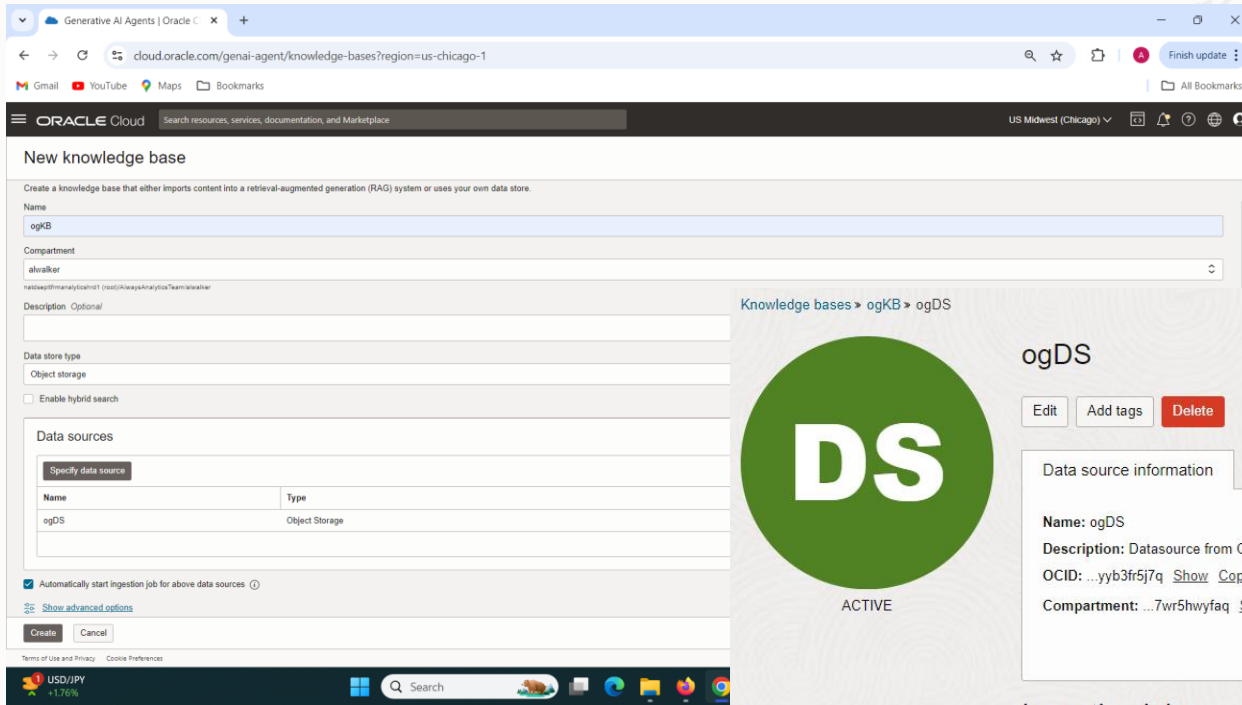
<input type="checkbox"/> Object prefixes	Time updated
<input type="checkbox"/> Energy Information Administration (EIA)- Manufacturing Energy Consumption Survey (MECS) Steel Analysis Brief.pdf	Mon, 30 Sep 2024 17:02:44 GMT
<input type="checkbox"/> Energy Review/	Wed, 02 Oct 2024 15:57:43 GMT
<input type="checkbox"/> Energy Review/Monthly Energy Review - September 2024 - mer.pdf	Wed, 02 Oct 2024 15:58:09 GMT

Create


A data source points to the source of data. After you add a data source to a knowledge base, you must ingest the data source's data, so agents using the knowledge base can reach that data.



Start the Ingestion Job



Knowledge bases > ogKB > ogDS



ogDS

Edit Add tags Delete

Data source information Tags

Name: ogDS
Description: Datasource from OCI Object Storage Bucket
OCID: ...yjb3fr5j7q [Show](#) [Copy](#)
Compartment: ...7wr5hwyfaq [Show](#) [Copy](#)

Data source type: OCI_OBJECT_STORAGE
Bucket: [OGkm](#)
Object prefixes: Select all in bucket
Created by:
Time created: Mon, 30 Sep 2024 15:39:39 GMT

ACTIVE

Resources

- Ingestion jobs
- Work requests

Tag filters [add](#) | [clear](#)

no tag filters applied

Ingestion jobs

Ingestion jobs add files from object storage with the specified prefixes to the data source. New ingestion jobs are required whenever files are added or removed from the object storage bucket.

Create Ingestion job

Name	Lifecycle state	Time created
OG Ingestion2	● Succeeded	Wed, Oct 2, 2024, 16:00
genaiagentdataingestionjob20240930153939	● Succeeded	Mon, Sep 30, 2024, 15:39:39

Data ingestion is a process that extracts data from data source documents, converts it into a structured format suitable for analysis, and then stores it in a knowledge base



Create the Agent



ORACLE Cloud Search resources, services, documentation, and Marketplace

Generative AI Agents

Overview
Agents
Knowledge Bases
Chat

List scope

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Agents in alwalker Compartment

Generative AI agents connect to your data sources, retrieve data, and augment model responses with relevant, ground agents.

Create agent

Name	Lifecycle state	Time cr
ogAgent2	● Active	Mon, 30
ogAgent	● Active	Mon, 30

An agent is a program that uses AI to perform tasks covering various categories. The Generative AI Agent service supports a specific type of agent called retrieval-augmented generation (RAG) agent, which retrieves relevant information from a knowledge base and uses natural language generation to produce relevant and context-aware responses.

Create the Agent



ORACLE Cloud Search resources, services, documentation, and Marketplace

New agent

Create an agent and optionally add a knowledge base to connect the agent to. You can also add a knowledge base to the agent after you create the agent.

Name
ogAgent2

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Description *Optional*
A short description of what this agent does

Welcome message *Optional* ⓘ
Hi user, I am AI assistant. I can help you with the things like answering questions, and providing information. How can I help you?

Add knowledge bases

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Create knowledge base

Name	OCID	Lifecycle state	Time updated
<input type="checkbox"/> ogKB	...h4qzvwxcya Show Copy	● Active	Mon, 30 Sep 2024 16:16:2

0 selected

Create Cancel



Use the Chat Interface



Generative AI Agents

- Overview
- Agents
- Knowledge Bases
- Chat**

Agent compartment: alwalker
natdseplfrmanalyticshrd1 (root)/AlwaysAnalyticsTeam/alwalker

Agent endpoint compartment: alwalker
natdseplfrmanalyticshrd1 (root)/AlwaysAnalyticsTeam/alwalker

Chat

Agent: ogAgent Agent endpoint: genaiaagentendpoint2024093...

Chatting with [ogAgent](#)

Hello User! I am the AI assistant. Ask me anything! How can I help you?

Type a message...

Submit Reset chat session

Logs



Questions



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