

Introduction to Google Agentspace

In this module, you learn to ...

- Describe the value of Google Agentspace to your organization.
- Use Agentspace to find documents, get answers to questions, brainstorm, and more.
- O3 Create an Agentspace app.
- Configure an identity provider for authorization.
- Grant access to Workspace data stores.



Agenda

01	The value of Agentspace
02	How Agentspace works
03	Build a data store and app
04	Preview and configure your app
05	Make your app act on the user's behalf
96	Quiz & What's next





The value of Agentspace

Within enterprises, information discovery is an unsolved problem

Siloed data sources

Emails, Chats

Documents, Sheets

Databases, CRM, ERP

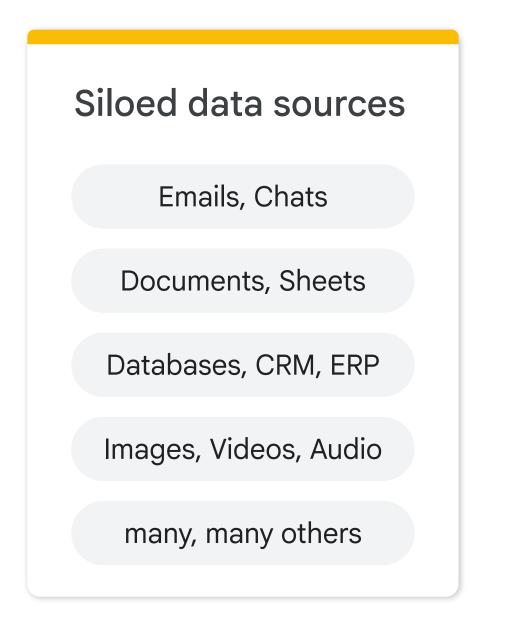
Images, Videos, Audio

many, many others

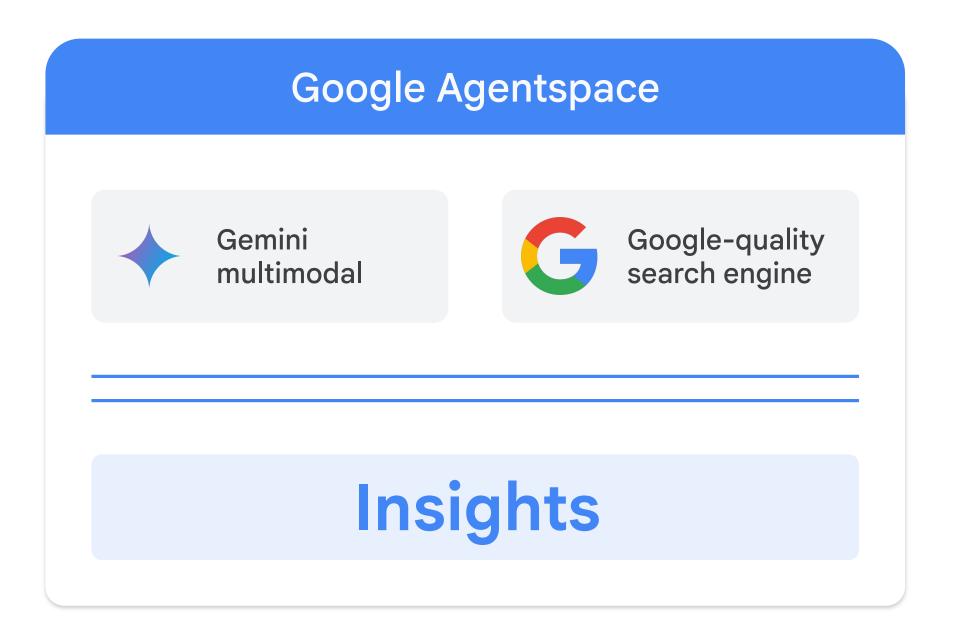
of all information employees retrieve is irrelevant.

of employees search across up to 6 sources for information.

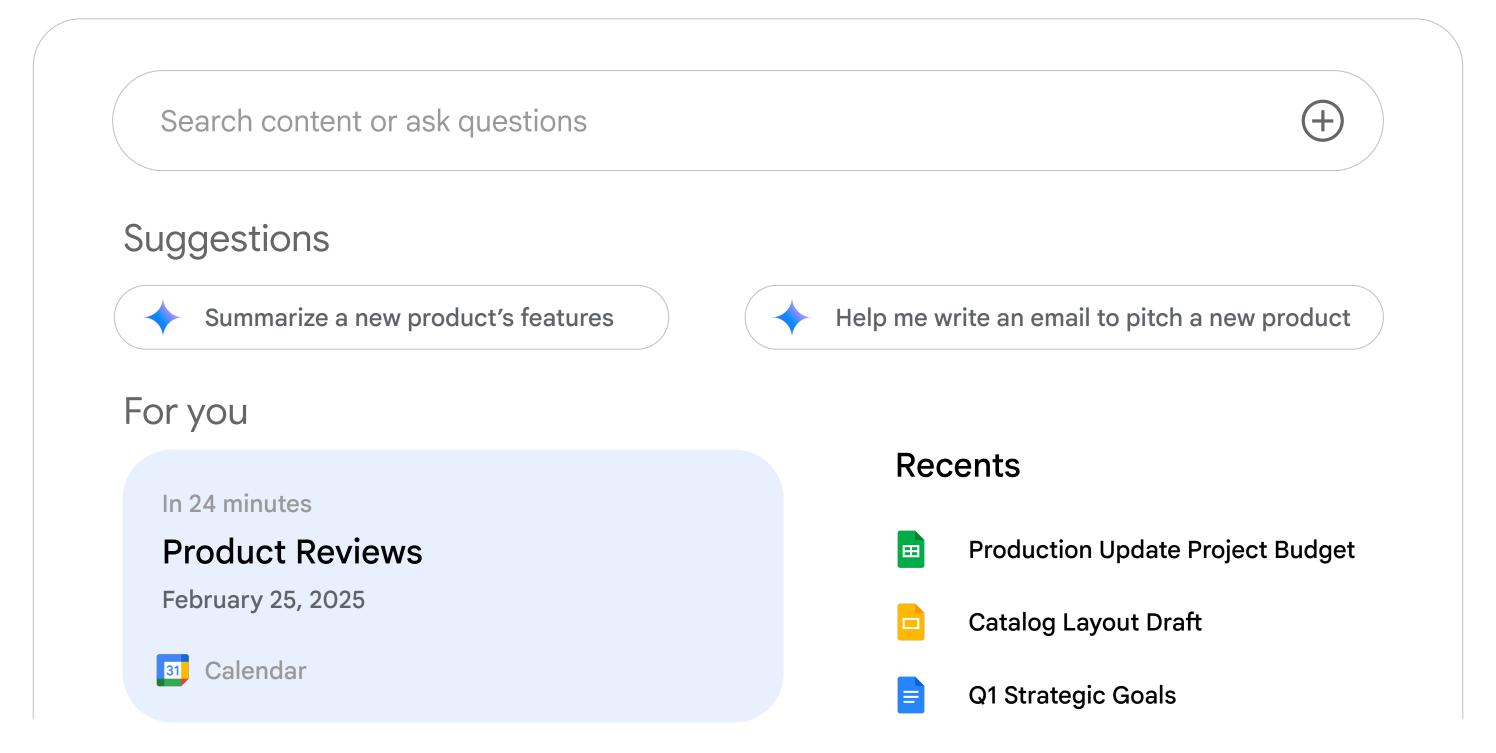
Bring your enterprise data together with Agentspace to extract insights quickly



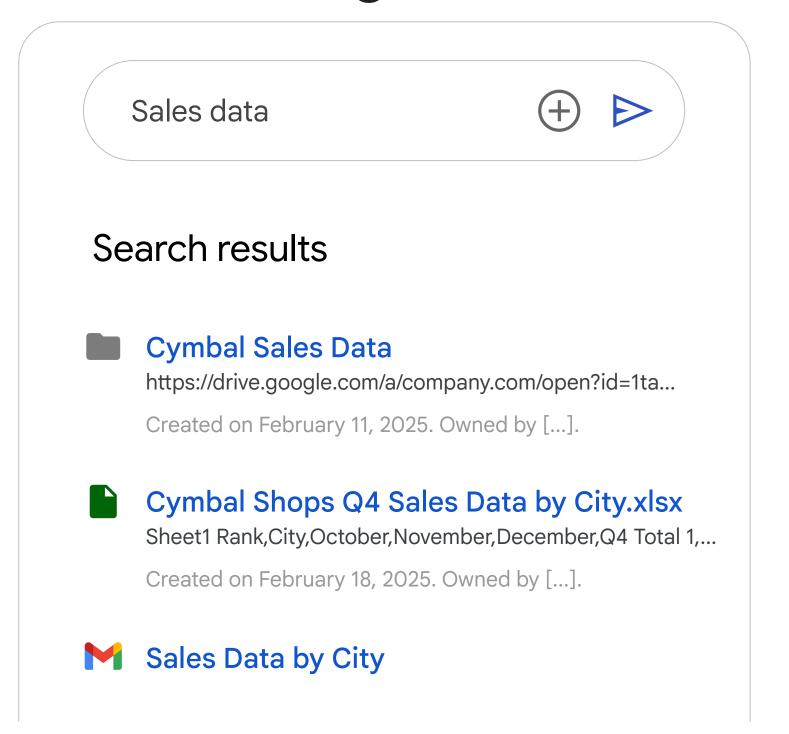


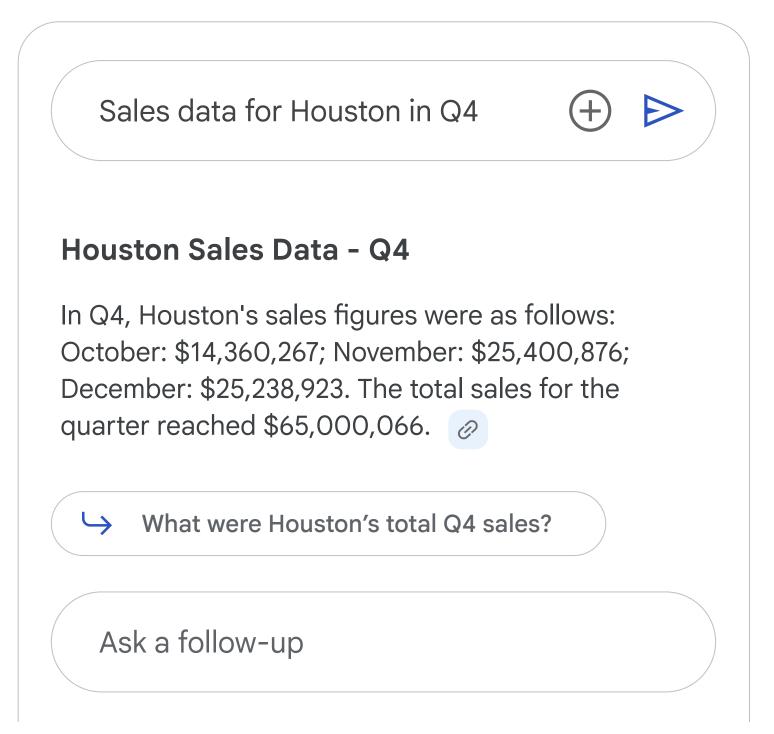


Agentspace can act as a homepage to start your daily work

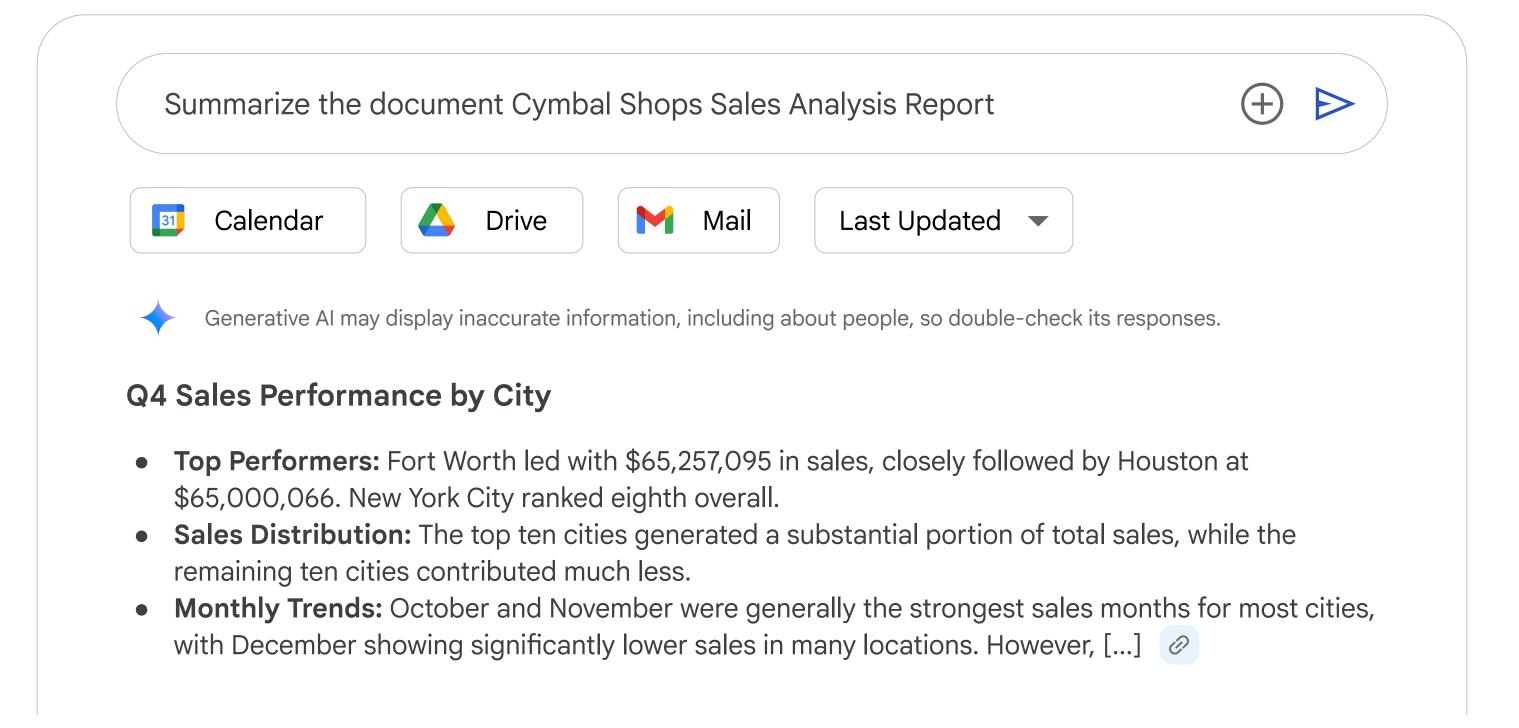


Search for documents, emails or other existing content

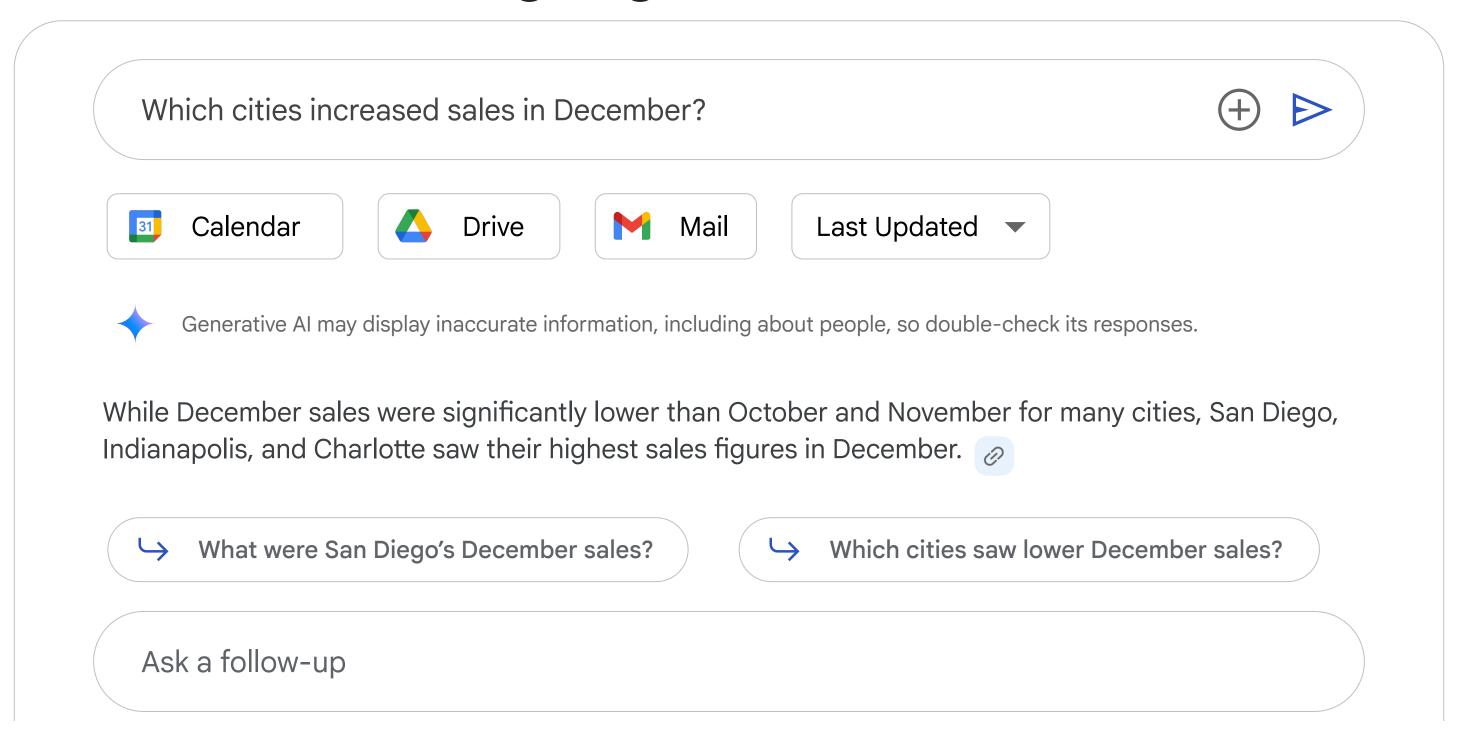




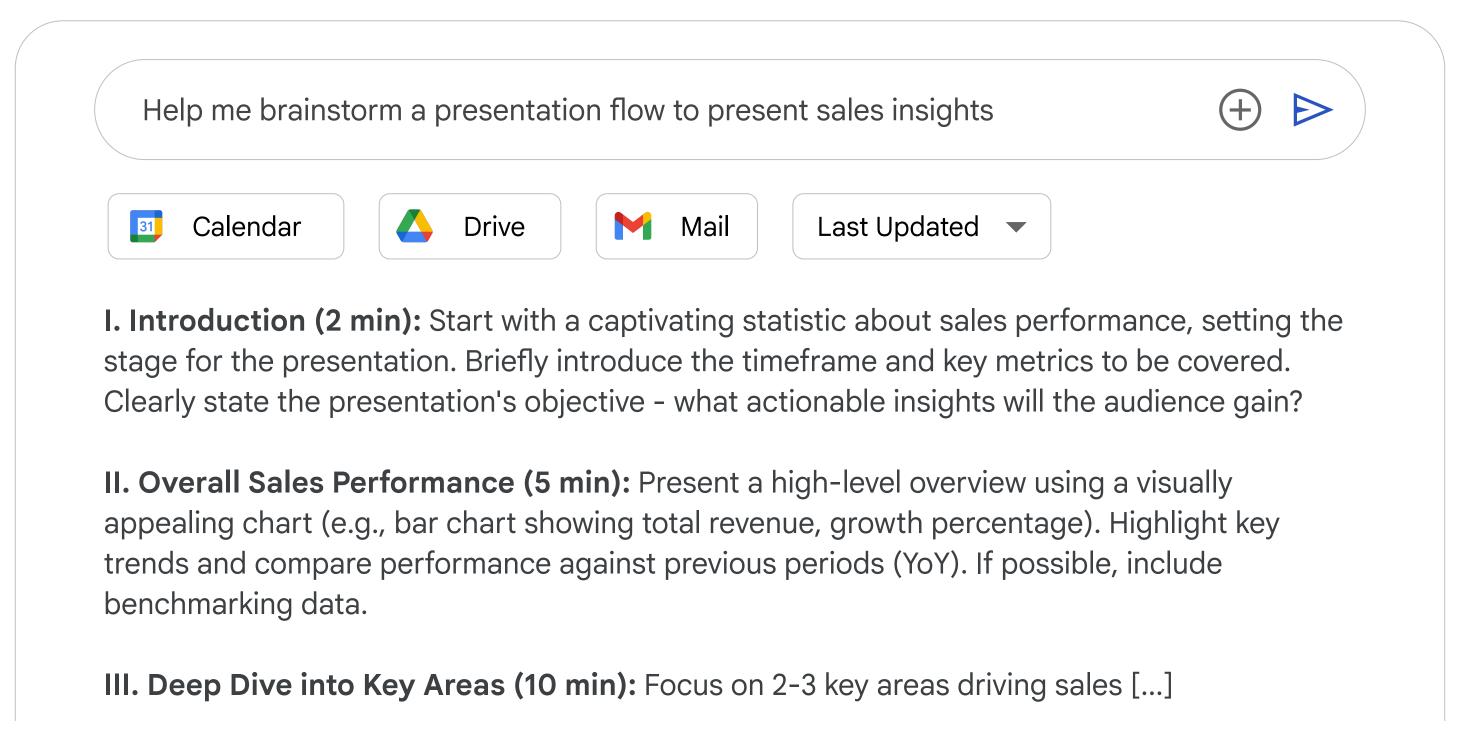
Receive a generative Al summary of the key information in documents



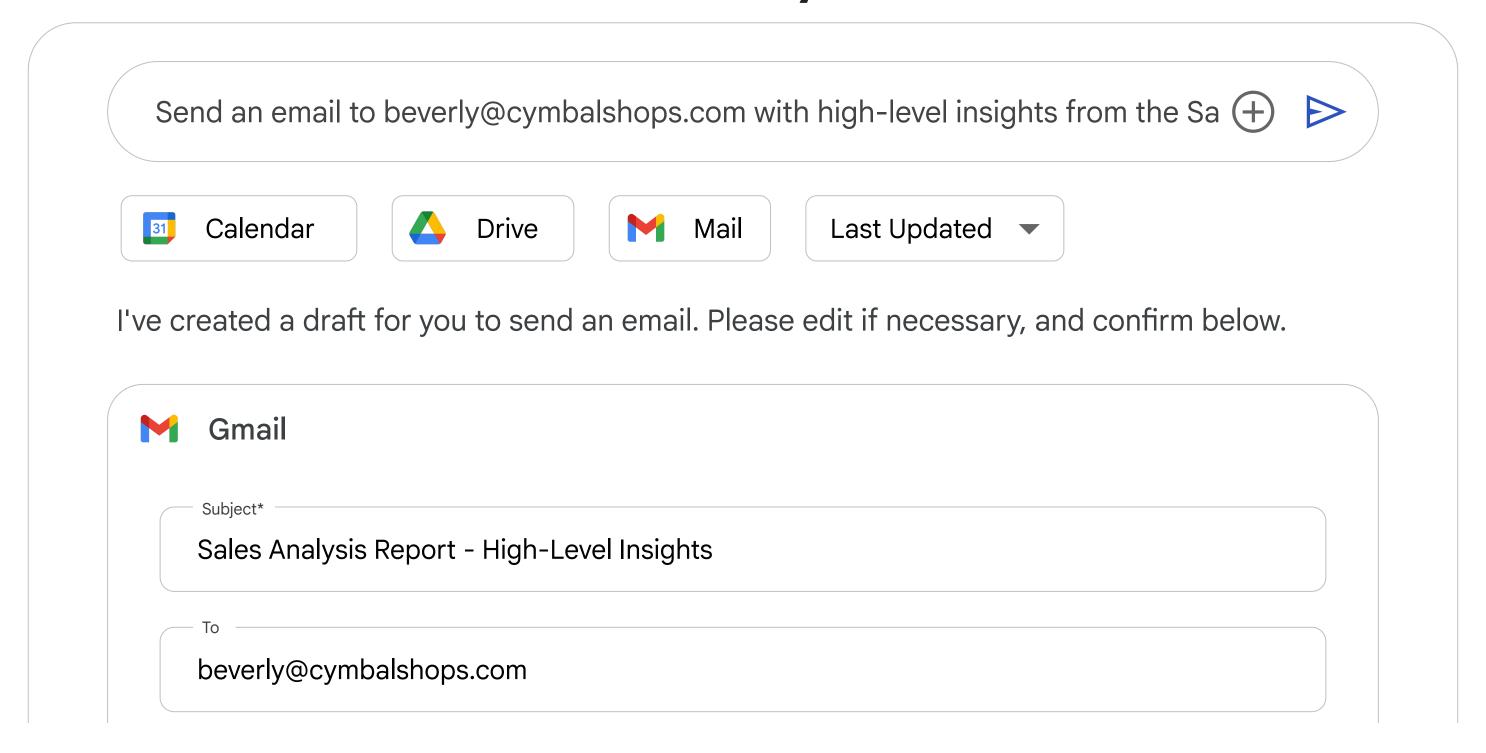
Ask questions and get responses with citations in natural language



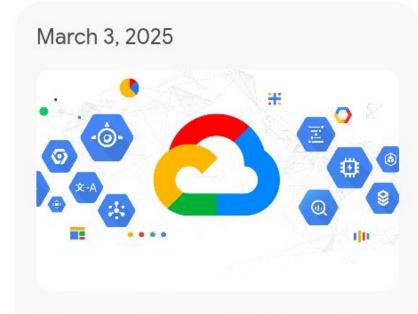
Use the assistant to receive helpful guidance



Ask Agentspace to take actions in Gmail, Calendar, or other connected systems



Broadcast helpful information to your users with Announcements



Stay curious with Google Cloud Training

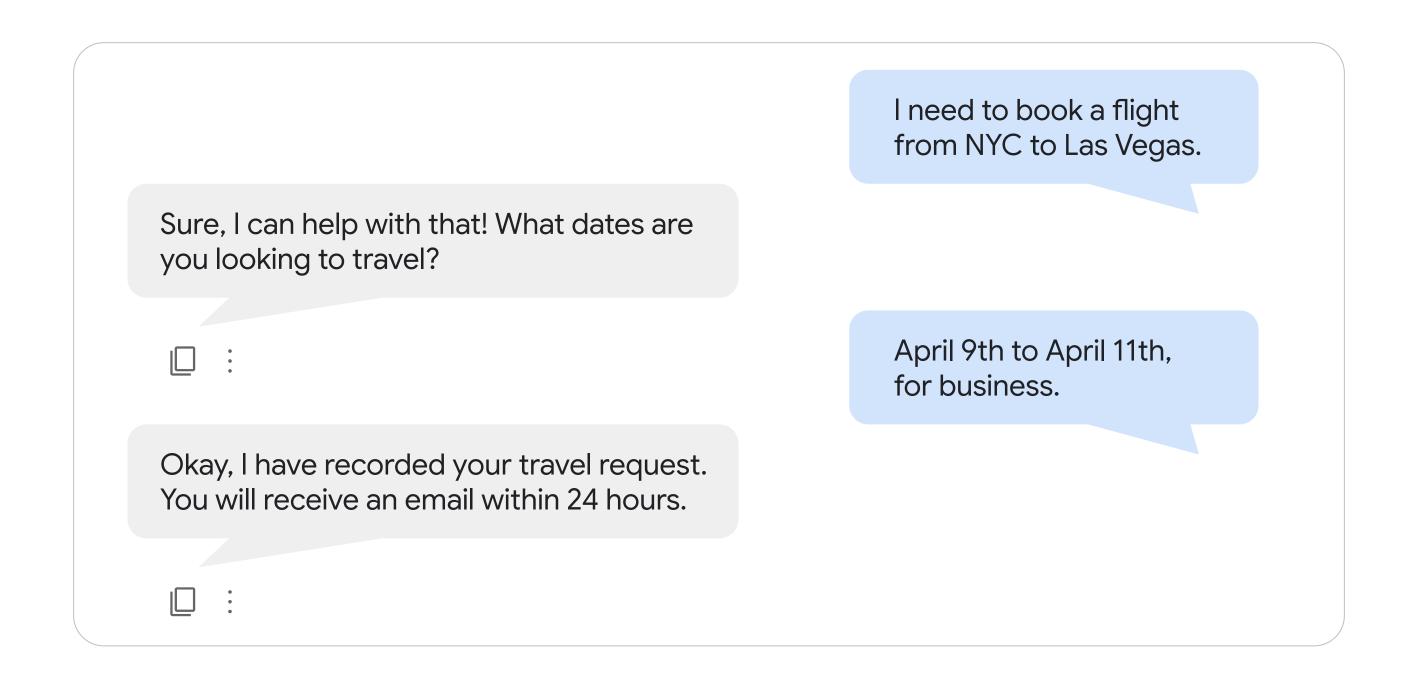
Leverage our on-demand courses and hands-on experiences on Cloud Skills Boost. December 14, 2024



Google Agentspace announced!

Uncover insights from your enterprise data with Google Agentspace.

Build custom agents to act on the user's behalf



Unlock enterprise expertise on Google Cloud

NotebookLM Enterprise

- Same features as NotebookLM and NotebookLM Plus
- Hosted on Google Cloud
- Enhanced security and privacy features

Agentspace Enterprise

- Single, company-branded multimodal search agent
- Conversational assistance, answer complex questions, make proactive suggestions, take actions
- Supports unstructured and structured data
- Provides built-in translation and prebuilt connectors to common third-party applications

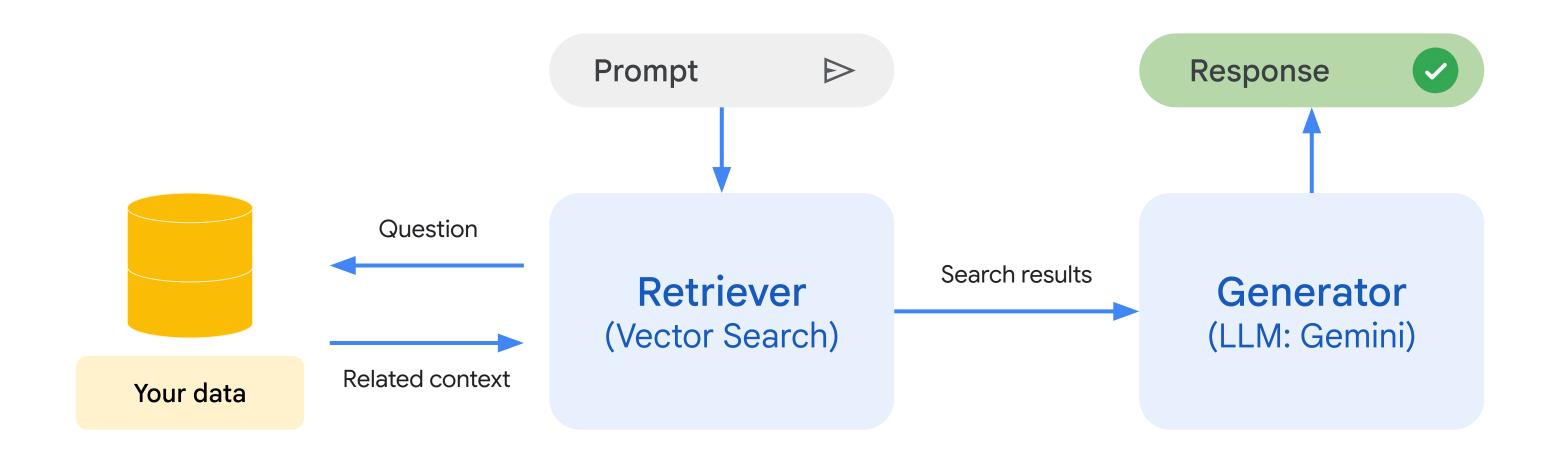
Agentspace Enterprise Plus

- Same features and experience as Agentspace Enterprise
- Build custom agents
 that apply generative AI
 contextually to
 automate business
 workflows

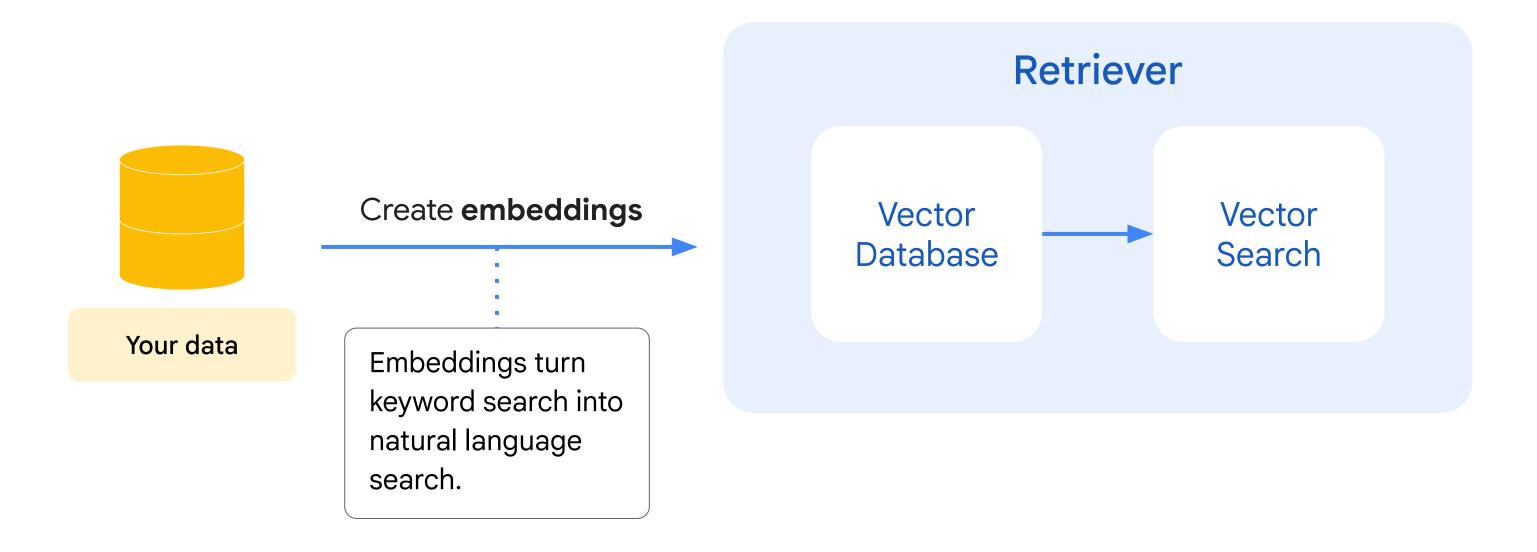


How Agentspace works

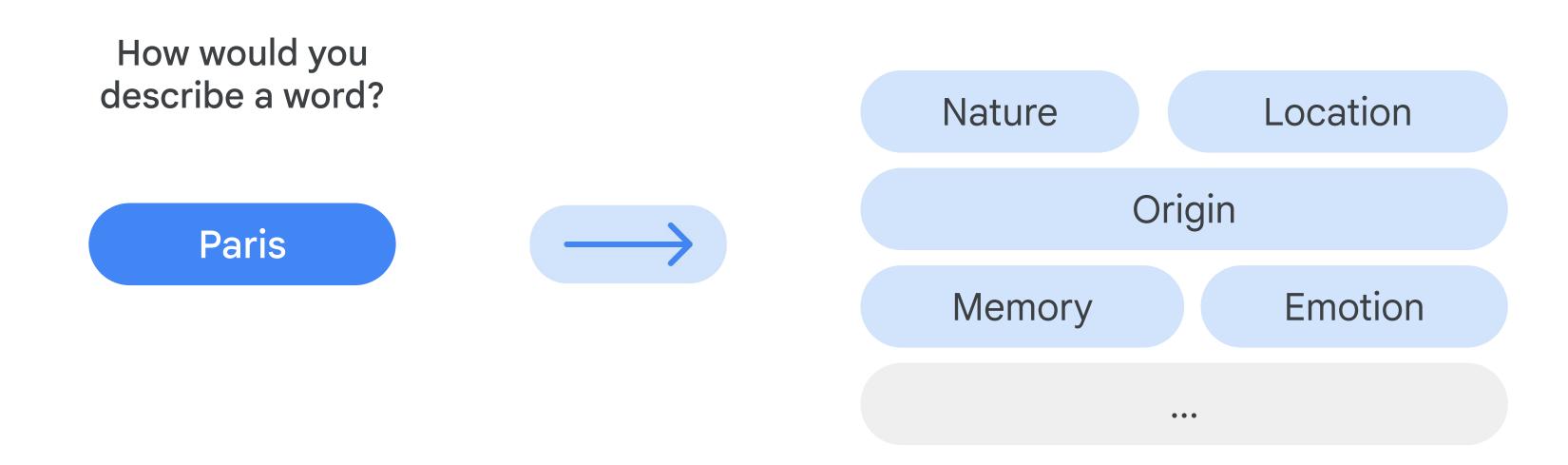
Agentspace uses Retrieval Augmented Generation (RAG) to provide responses grounded in your data



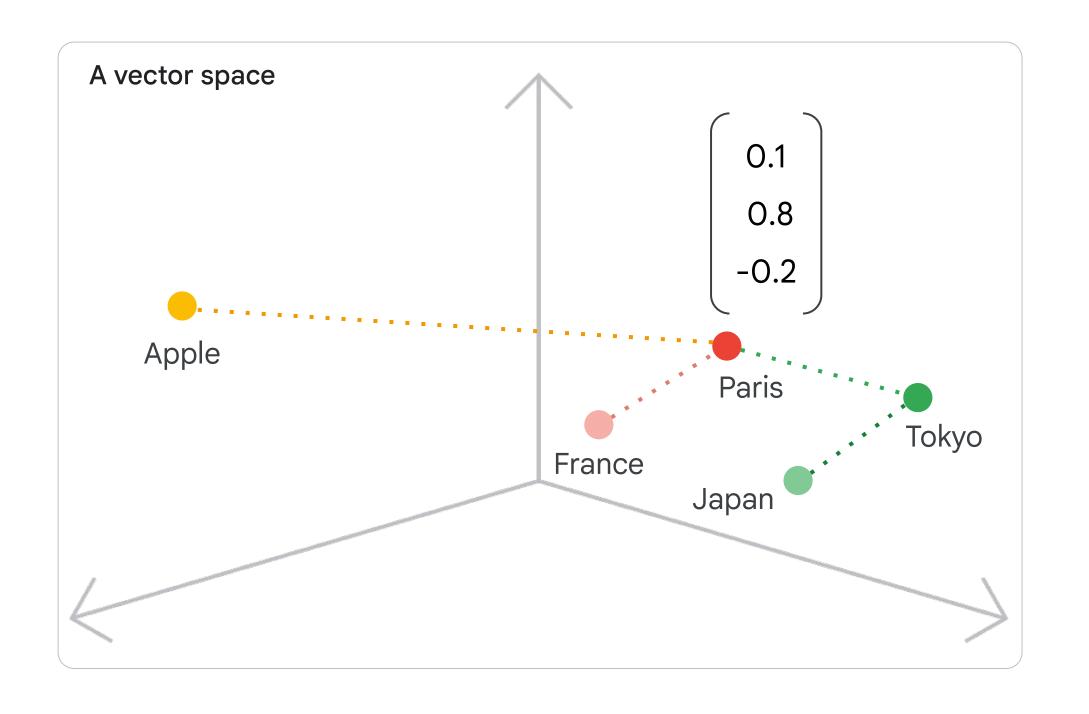
To make use of Vector Search, Agentspace creates embeddings out of your data

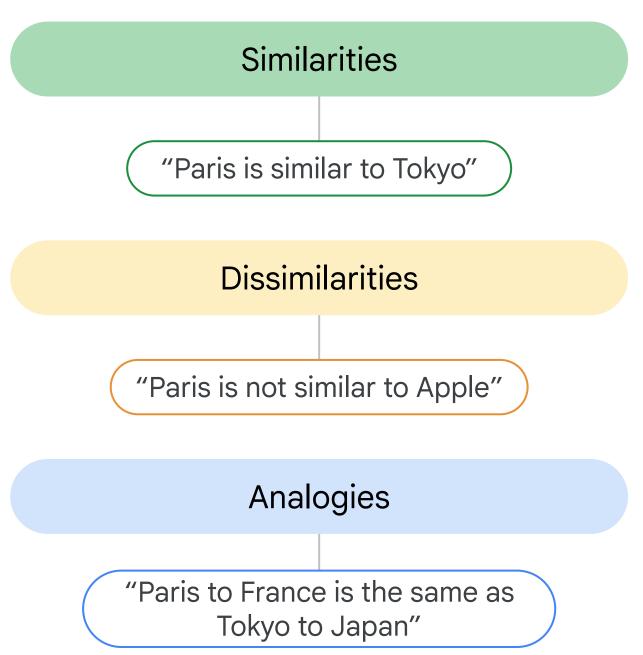


Embeddings capture similarities, dissimilarities, and analogies between words

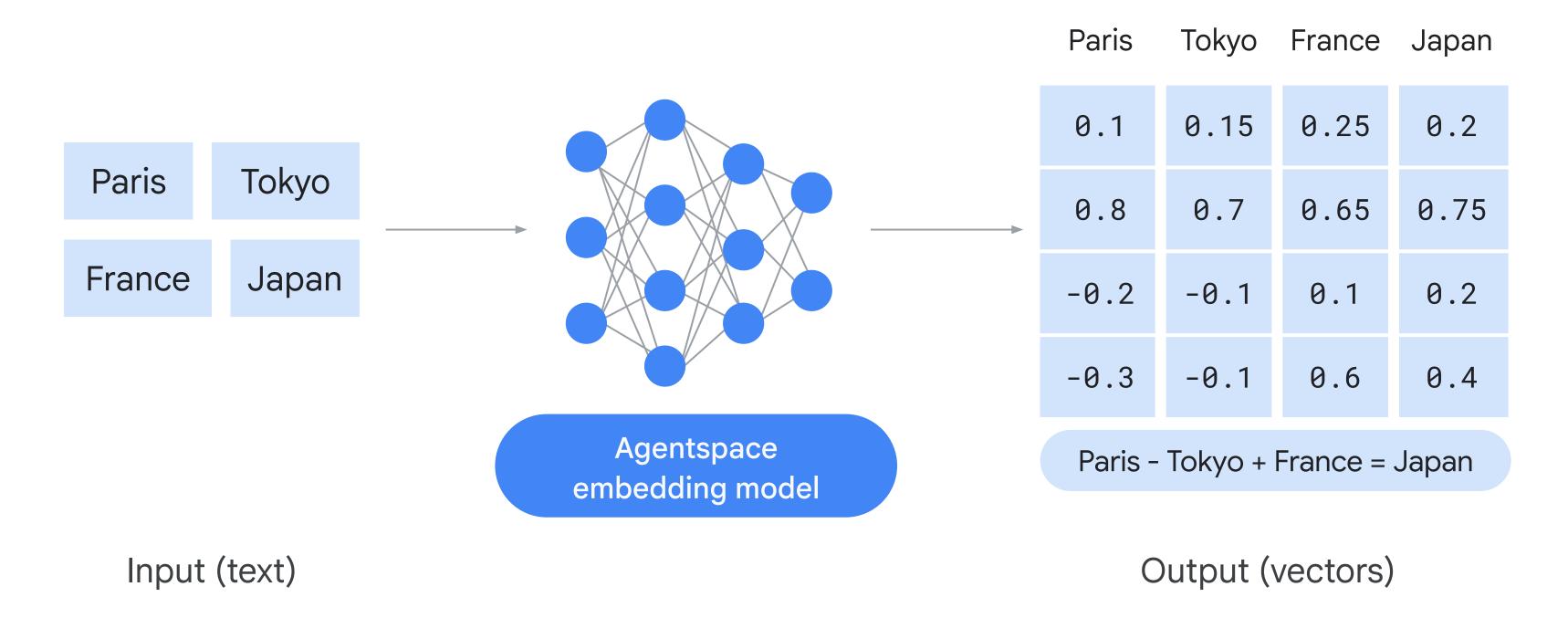


Embeddings are numerical representations of data that capture semantic relationships



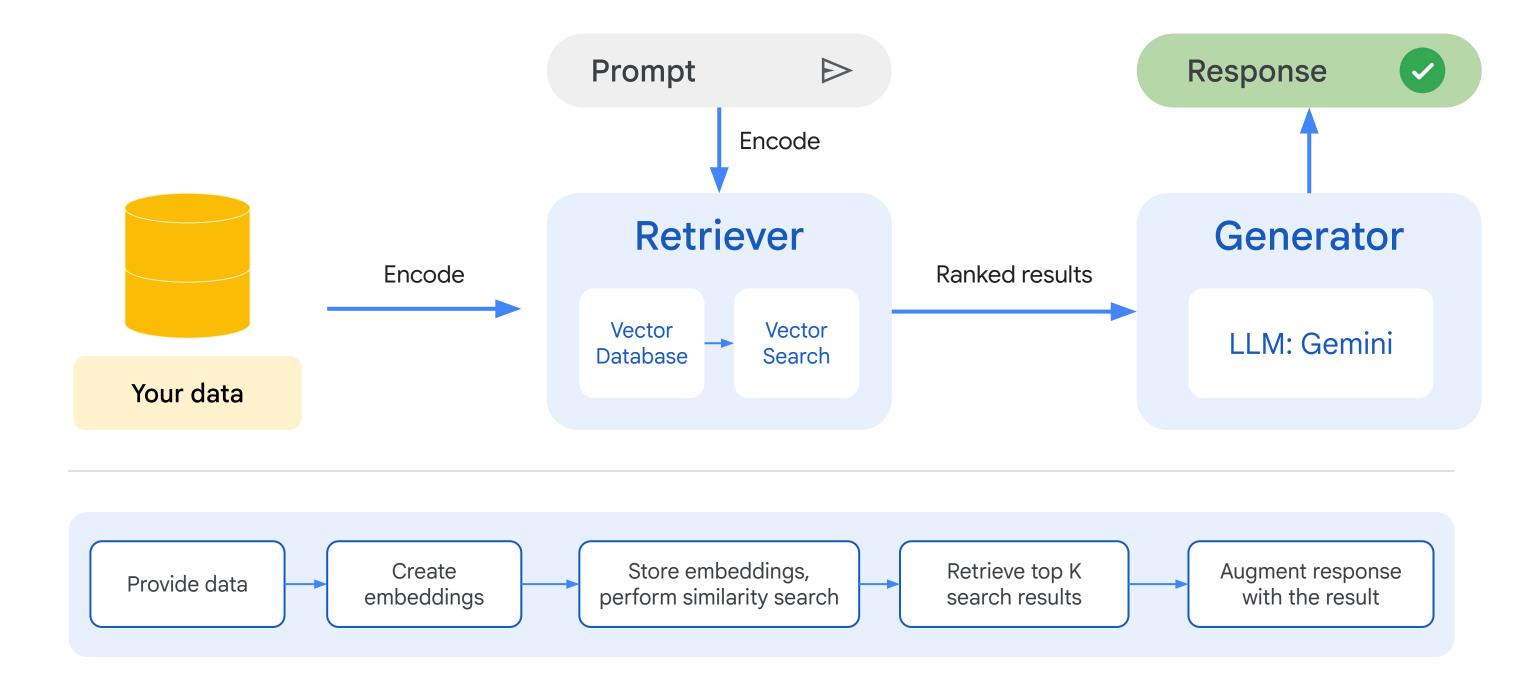


Agentspace creates and stores embeddings automatically



Google Cloud

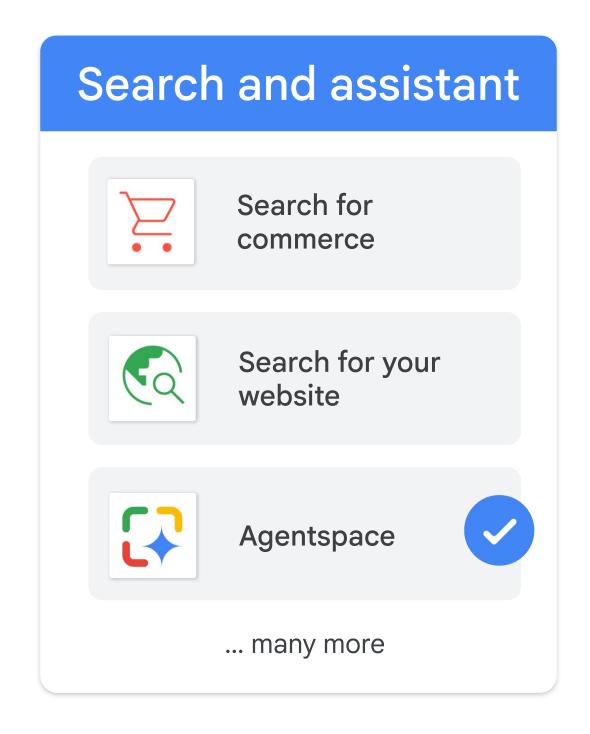
Summary: How Agentspace generates grounded responses

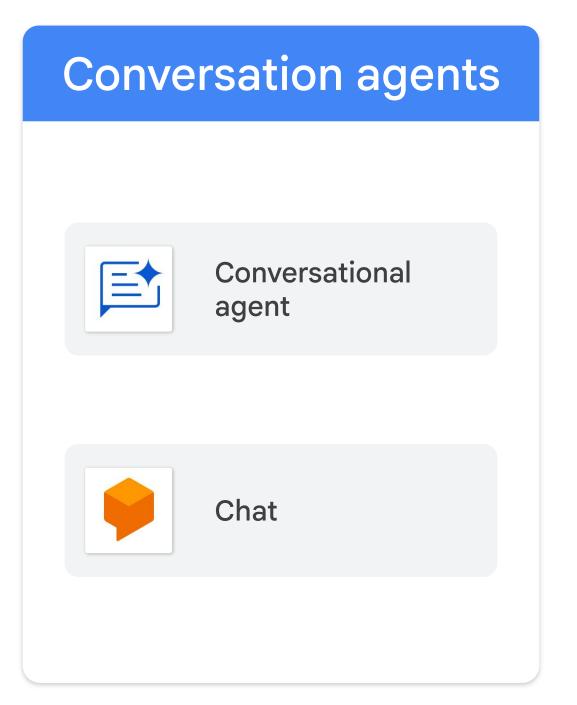


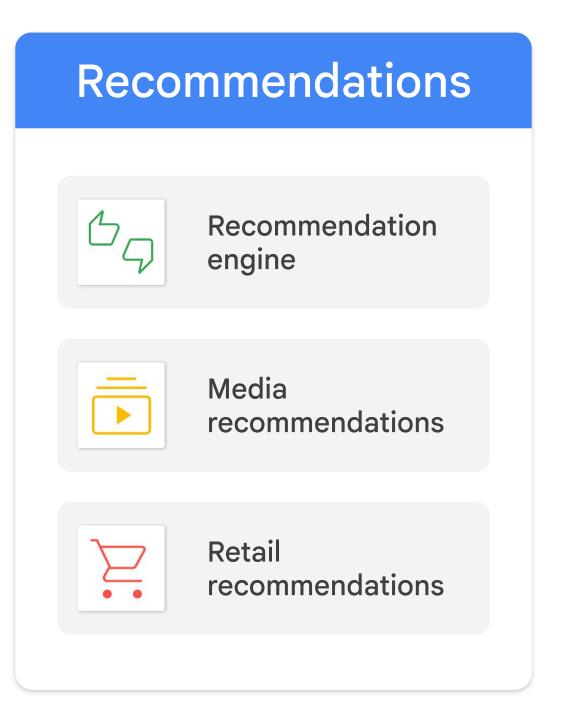


Build a data store and app

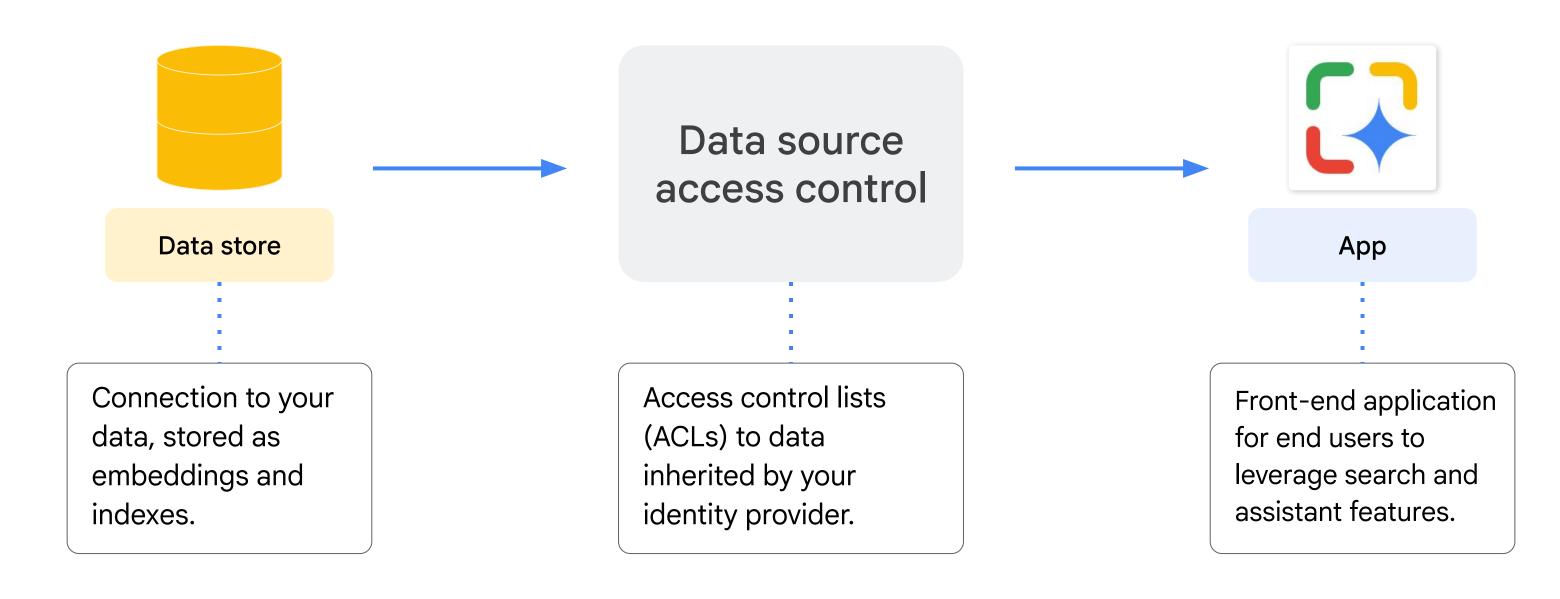
Build Agentspace apps with Vertex Al Applications on Google Cloud







Agentspace is a no-code solution to provide search and assistant features



Configured in and managed by serverless Vertex AI Applications.

Data stores represent connections to data with embeddings and indexes

Data store types Structured Unstructured Third-party connectors Data store formats CSV, JSON PDF, HTML, TXT PPTX, DOCX Other third-party

Data store sources **Cloud Storage** BigQuery, Cloud SQL **Google Workspace** Confluence, Jira ... many more

Enable data source access control to inherit user access permissions

Google Identity

- Identities are present and managed through Google Cloud.
- Identities are managed by a third-party provider and synced with Google Identity.
- Identities perform SSO through Google Identity and are directed to the third-party provider.



Cloud Storage, BigQuery, Google Drive

Third-party identity provider federation

- Third-party identity provider needs to support OpenID Connect (OIDC) or SAML 2.0.
- Examples: Azure Active Directory, Okta
- Use Workforce Identity Federation for setup.



All third-party data sources

An app provides search results and assistant features to your end users



Agentspace

Build an enterprise compliant search and assistant tool. Powered by Gemini, your employees can easily find answers in vast amounts of company data, automate content creation, and execute tasks with connected apps, all from a single interface.

CREATE



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

Location of your app (multi-region)

 Global is recommended (US and EU available). Location cannot be changed later.

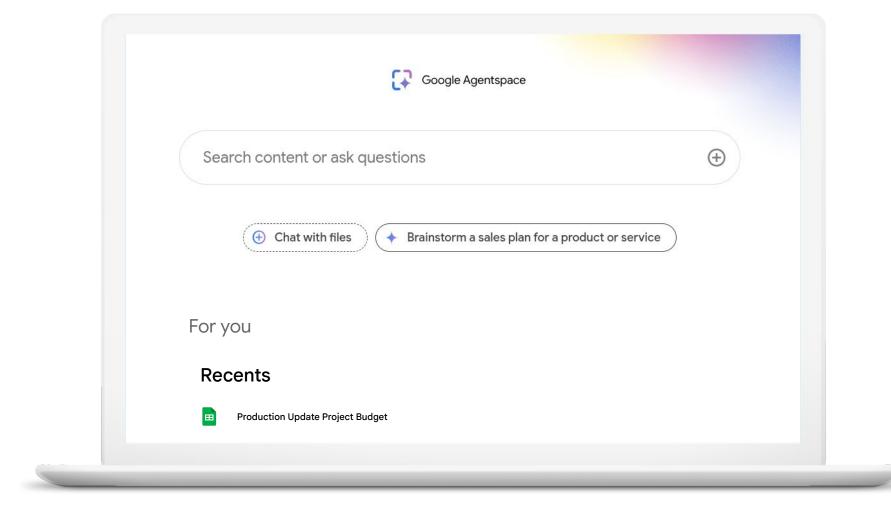
Select tier (Search, Search + Assistant)

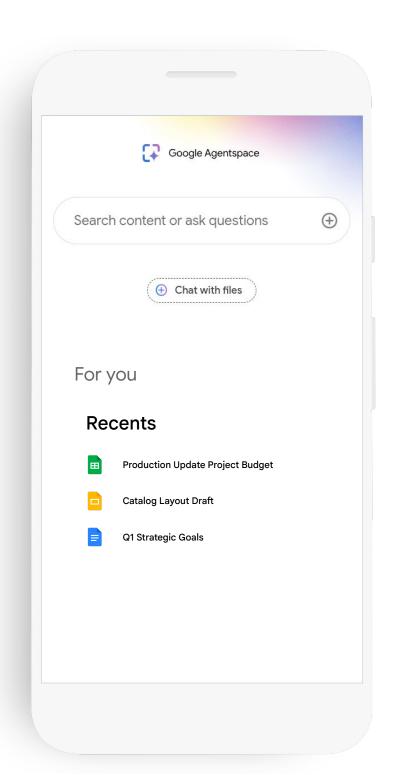
 Blended search across your data; assistant offers generative answers and conversation grounded in data.



Preview and configure your app

Preview your Agentspace homepage for desktop and mobile devices





Customize your homepage UI, assistant's behavior, and more

Autocomplete



Configure the search bar functionality settings.

UI



Customize appearance and branding options.

Control



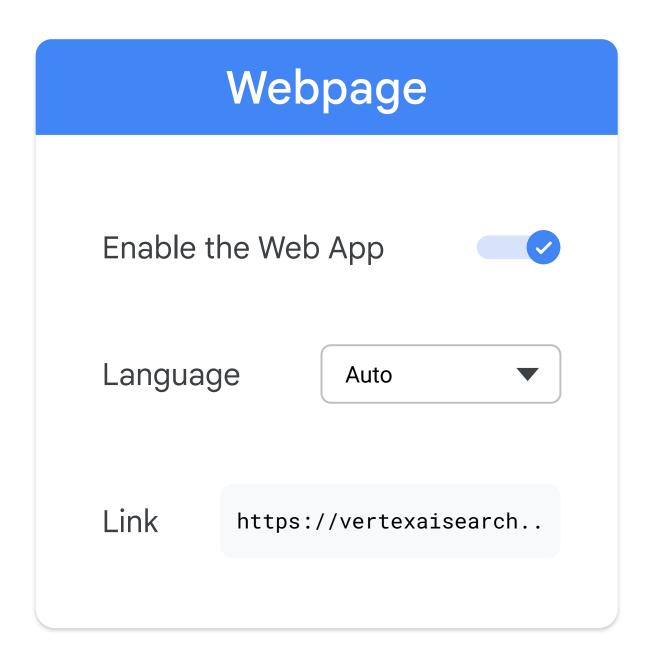
Create controls which help modify search results.

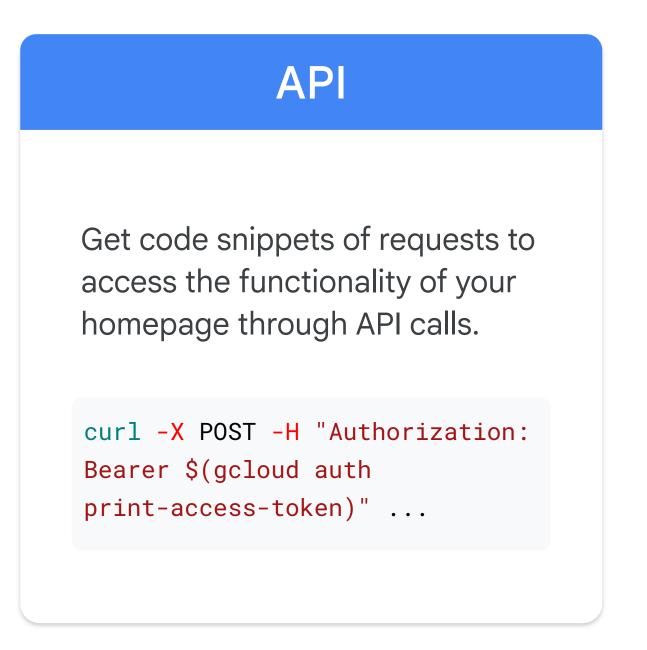
Assistant



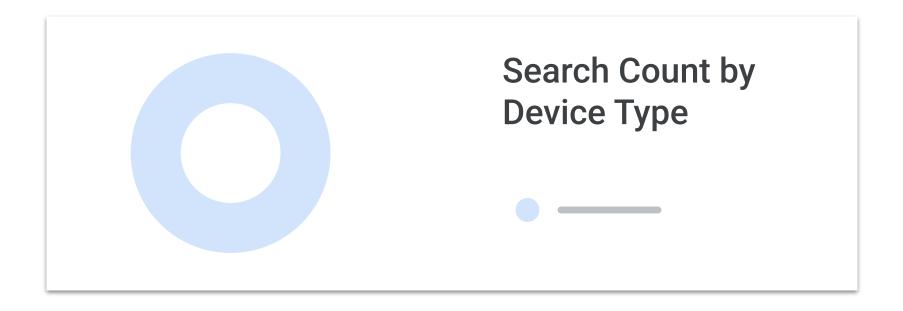
Configure additional settings for the Al assistant.

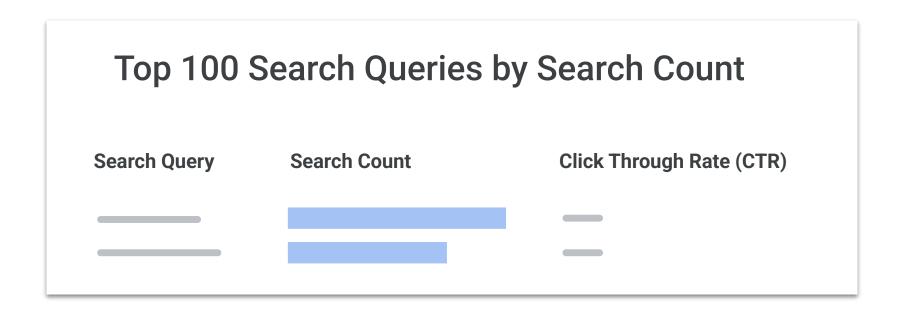
Decide how your homepage can be accessed with integrations





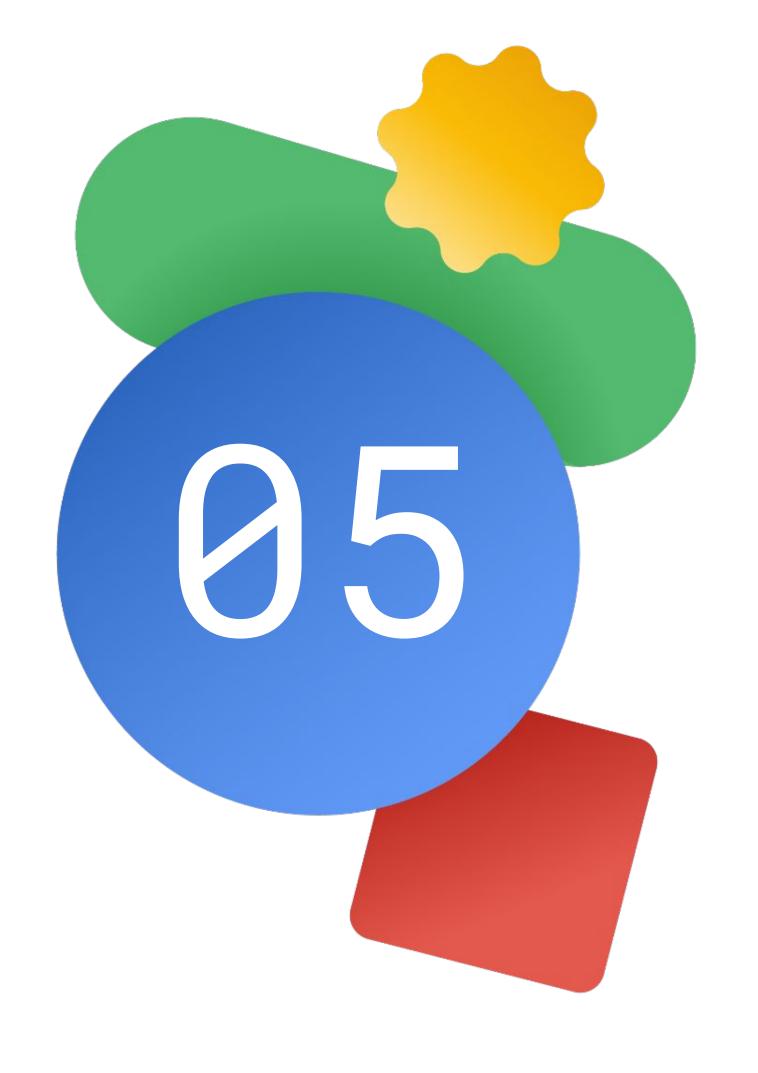
Gain insights into the usage of your homepage with Analytics





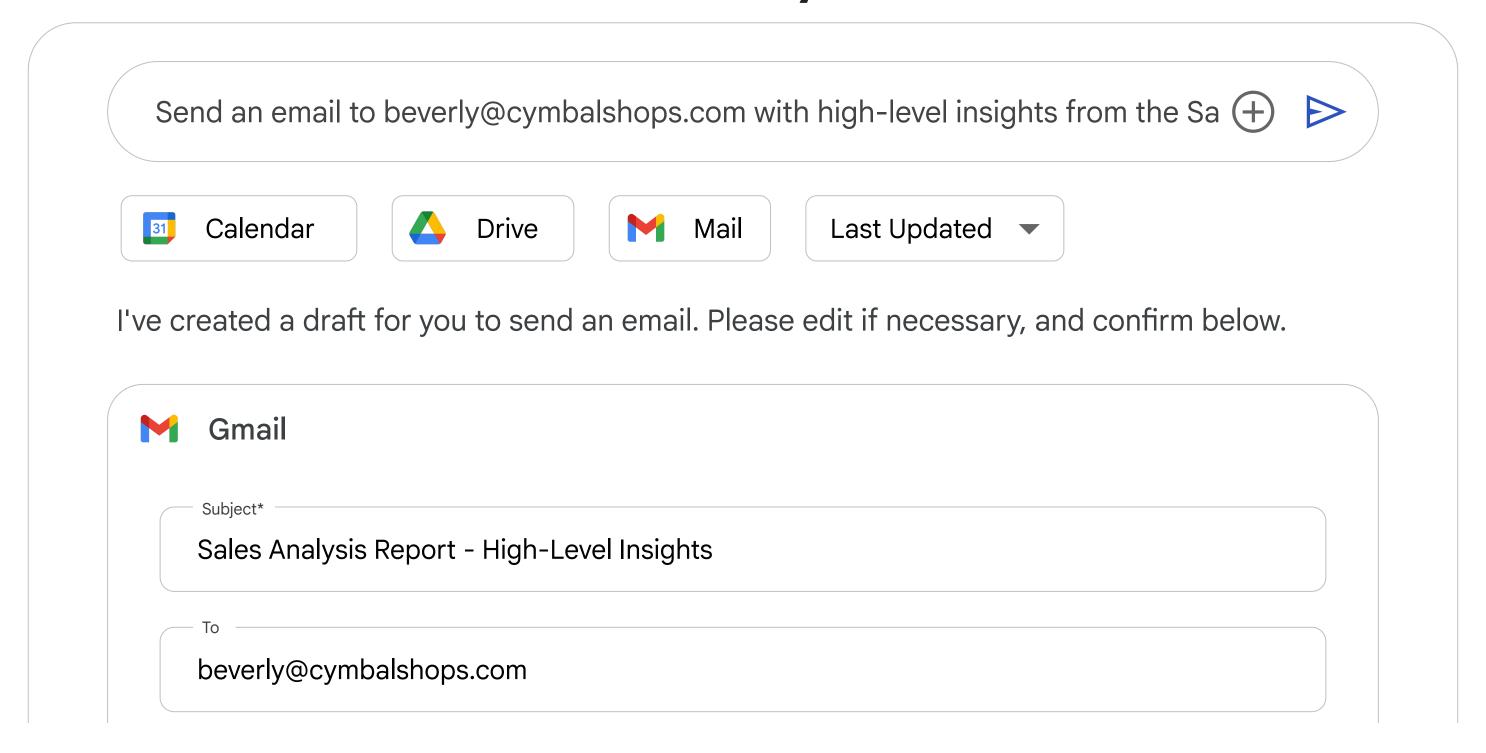
Analytics features

- Aggregate metrics by individual search, search session, or compare metrics between the two.
- Example metrics:
 - A count of searches or search sessions.
 - The top 100 queries by search count.
 - The top 10 search queries with no result.
 - The 100 most-searched/clicked documents.

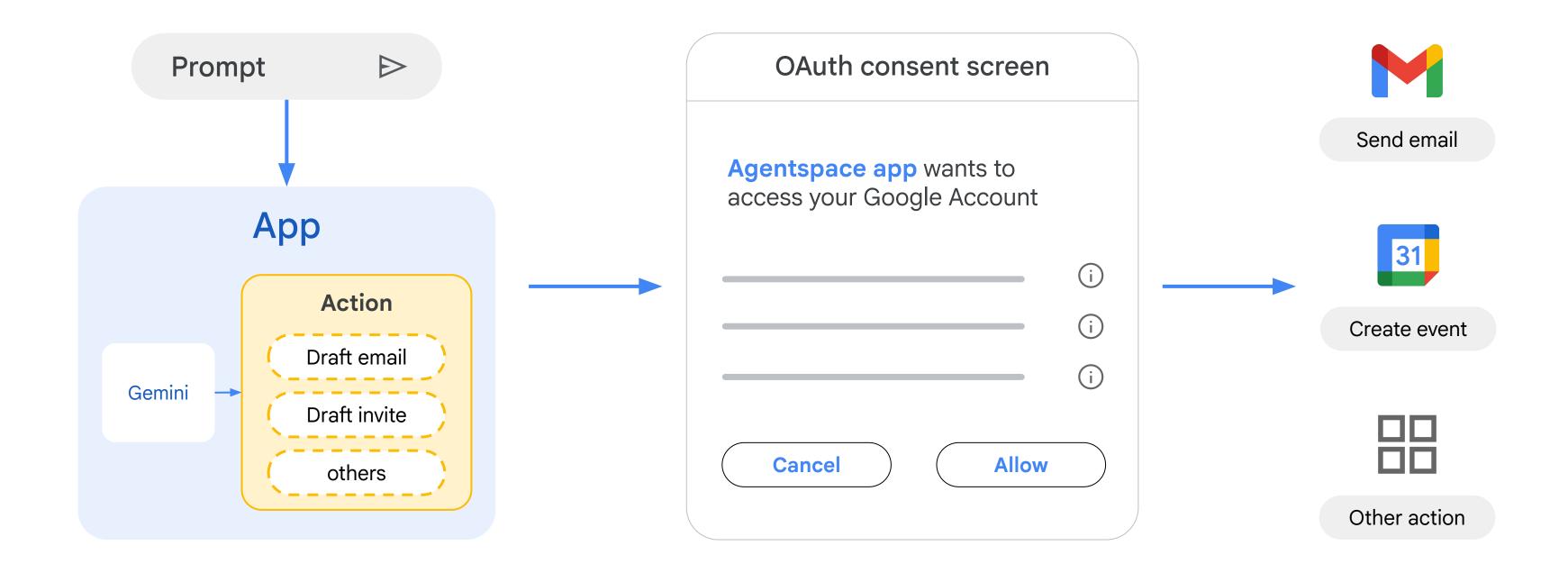


Make your app act on the user's behalf

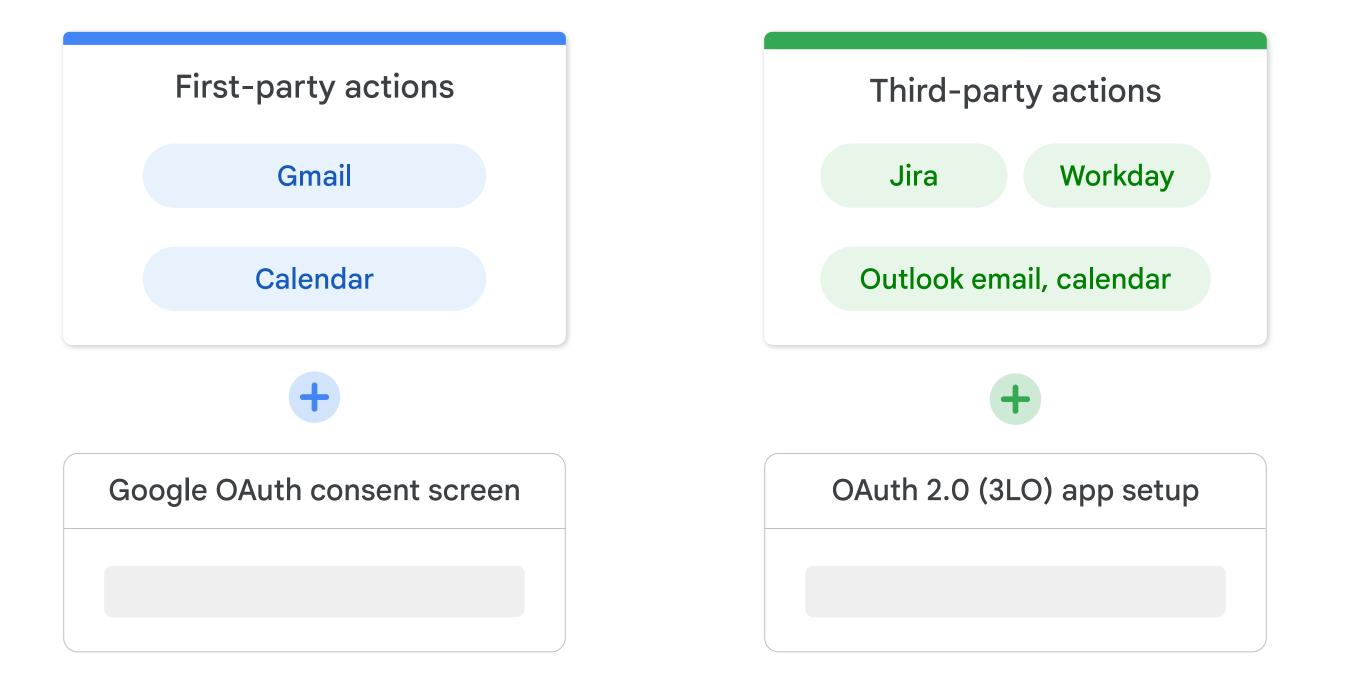
Ask Agentspace to take actions in Gmail, Calendar, or other connected systems



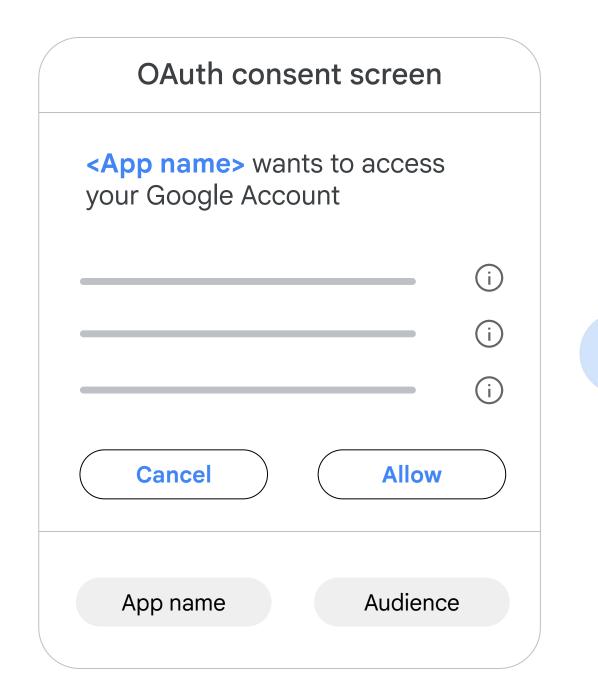
Actions connect to external services to act on the user's behalf

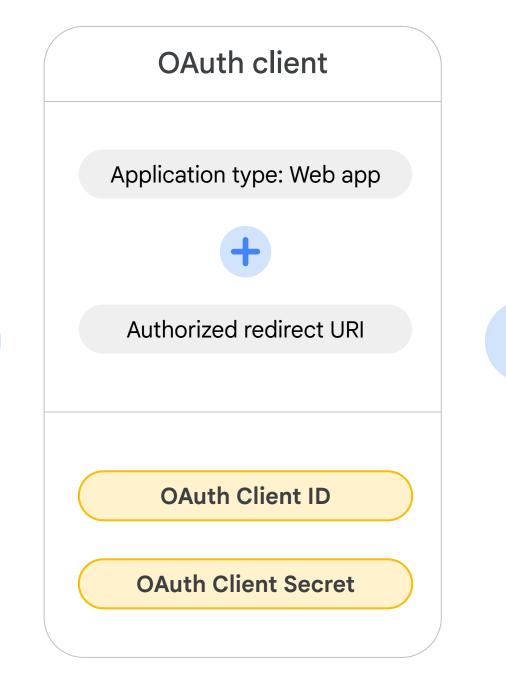


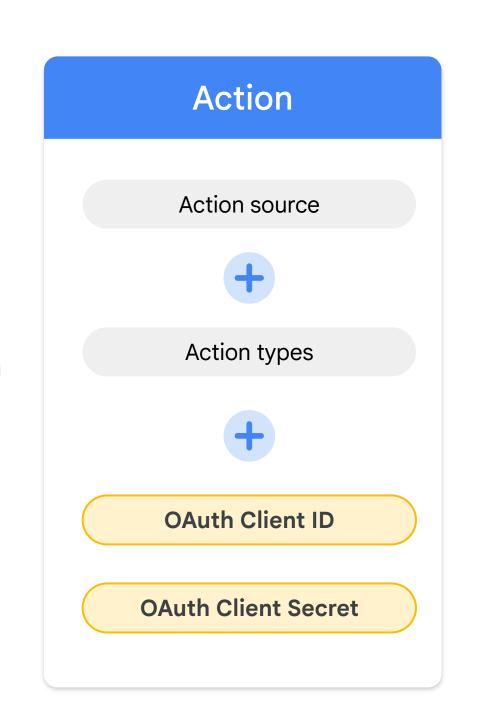
There are first-party and third-party action types available



Create an OAuth consent screen and client to enable first-party actions









Quiz & What's next

Question

Which of the following best describes a key value proposition of Google Agentspace for an organization?

- A. It primarily functions as a tool for managing employee calendars and scheduling meetings.
- B. It serves as a platform for building complex custom software applications without requiring any coding.
- C. It helps bring enterprise data together to extract insights quickly, addressing the problem of information discovery across siloed data sources.
- D. It mainly focuses on providing advanced data storage solutions for large datasets.

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Question

Which of the following best describes a primary function that users can perform using Google Agentspace?

- A. Primarily manage and analyze structured data from databases.
- B. Configure and monitor role-based access controls.
- C. Automate software deployment pipelines.
- D. Find documents, get answers to questions, and brainstorm ideas.

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Question

True or false: Agentspace apps are built using Google Vertex AI and require extensive coding knowledge.

- A. True
- B. False

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- A. True
- B. False



Question

What is the primary purpose of actions in Google Agentspace?

- A. To connect to external services to perform tasks like sending emails or creating calendar events.
- B. To customize the user interface of the Agentspace homepage for desktop and mobile devices.
- C. To analyze the usage of the Agentspace homepage by tracking search queries and click-through rates.
- D. To build data stores by connecting to various data sources like Cloud Storage and Google Workspace.

Question

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- D. To build data stores by connecting to various data sources like Cloud Storage and Google Workspace.

Learn more about Agentspace and Generative Alon Google Cloud



Do a lab. Learn how to create an Agentspace Enterprise app with Google Drive and Calendar integrations.

Start the lab on Google Cloud Skills Boost.

Take a course. Learn how to build Generative AI applications on Google Cloud.

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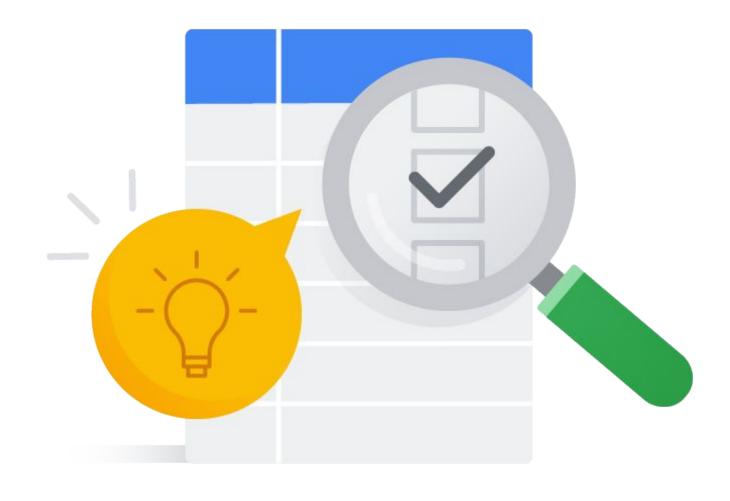
Check the schedules: <u>APAC</u> | <u>EMEA</u> | <u>NORTHAM</u>

Lab: Deploy and query Google Agentspace



Learning objectives

- Configure Vertex AI Applications authentication.
- Create a Google Drive data store.
- Create an Agentspace app.
- Use the AI assistant to find, summarize, and extract content from a data store.
- Create a calendar invite with an assistant action.





Google Cloud