

Google Cloud Skills Boost for Partners

[Main menu](#)

Deploy Agentspace

Course · 2 hours < 1% complete

Course overview

Deploy Agentspace

Deploy and query Google Agentspace

Deploy Google Agentspace with Data Stores and an action: Challenge Lab

Your Next Steps

Course Badge

Course Survey

Course > Deploy Agentspace >

Quick tip: Review the prerequisites before you run the lab

[End Lab](#)

00:52:22

Caution: When you are in the console, do not deviate from the lab instructions. Doing so may cause your account to be blocked.
[Learn more.](#)[Open Google Cloud Console](#)

Username

student-02-cf56a6843602



Password

v1CWCy0FKWYD



GCP Project ID

qwiklabs-gcp-02-14aaa72



Deploy and query Google Agentspace

Lab 1 hour 30 minutes No cost Intermediate

★★★★★

This lab may incorporate AI tools to support your learning.

Identity Provider

Task 3. Create Google Drive and Google Calendar Data Stores 100/100

Task 4. Deploy an Agentspace app

Task 5. Set up an OAuth Consent Screen and Create client

Task 6. Enable a Google Calendar Action

Task 7. Query your Agentspace Assistant

Task 8. Open the hosted link to your application

Congratulations!

Overview

For this lab, you'll take on the role of a scientific conference organizer planning a conference to discuss the discovery of an exciting new exoplanet.

Note: To avoid confusion between your professional Google Identity and any other temporary Qwiklabs student accounts, it is strongly recommended that you utilize a new Incognito window for the Google Cloud console and Google Drive tabs you will use in this lab. To do this easily in Chrome, after starting the lab, right-click on the "Open Google Cloud console" button and select "Open link in incognito window".

Objectives

In this lab, you learn how to:

- Configure 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

Setup and requirements

Before you click the Start Lab button

available to you.

This Qwiklabs hands-on lab lets you do the lab activities yourself in a real cloud environment, not in a simulation or demo environment. It does so by giving you new, temporary credentials that you use to sign in and access Google Cloud for the duration of the lab.

What you need

To complete this lab, you need:

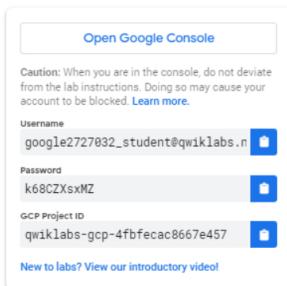
- Access to a standard internet browser (Chrome browser recommended)

- Time to complete the lab.

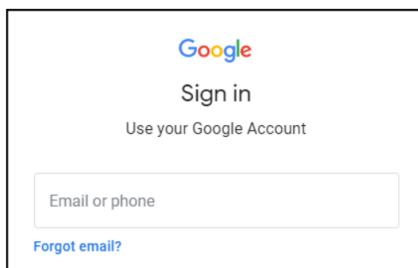
Note: If you already have your own personal Google Cloud account or project, do not use it for this lab.

Note: If you are using a Pixelbook, open an Incognito window to run this lab.

1. Click the **Start Lab** button. If you need to pay for the lab, a pop-up opens for you to select your payment method. On the left is a panel populated with the temporary credentials that you must use for this lab.

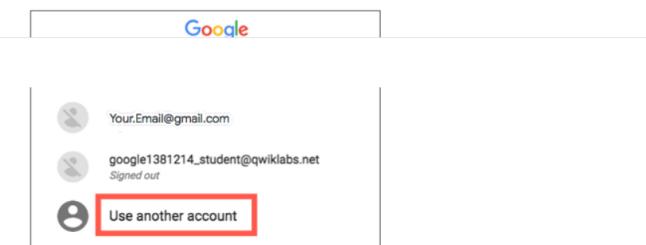


2. Copy the username, and then click **Open Google Console**. The lab opens up.



Tip: Open the tabs in separate windows, side-by-side.

If you see the **Choose an account** page, click **Use Another Account**.



3. In the **Sign in** page, paste the username that you copied from the Connection Details panel. Then copy and paste the password.

Important: You must use the credentials from the Connection Details panel. Do not use your Qwiklabs credentials. If you have your own Google Cloud account, do not use it for this lab (avoids incurring charges).

4. Click through the subsequent pages:

- Accept the terms and conditions.

- Do not sign up for free trials.

After a few moments, the Cloud Console opens in this tab.

Note: You can view the menu with a list of Google Cloud Products and Services by clicking the **Navigation menu** at the top-left.



Task 1. Add content to Google

1. Navigate to **Cloud Storage > Buckets** and click on the existing bucket with the name: **qwiklabs-gcp-02-14aaa72f6e6c**.

2. Download the files listed below to your local system to use as demo data:

- PlanetCon_Persephone.docx
- Persephone Analysis Report.pdf

3. In the Incognito window where you have logged into the Google Cloud console, create a new tab and navigate to drive.google.com.

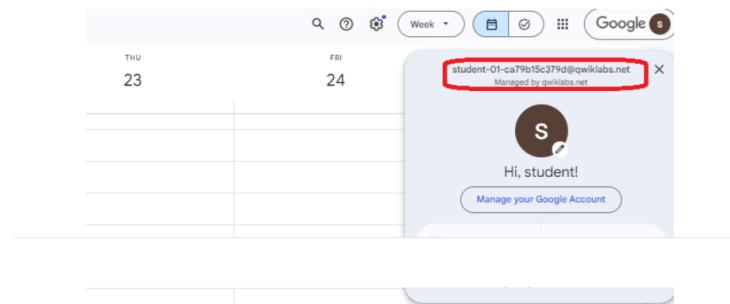
4. Create a new folder in your Qwiklab student account's drive and name it **PlanetCon: Persephone**.

5. Upload the documents you downloaded from Cloud Storage to the folder you just created in Google Drive named **PlanetCon: Persephone**. These documents

Organization of a conference planned for the scientific community to discuss it.

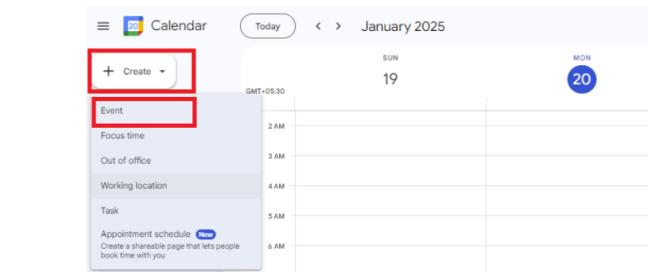
6. In the same Incognito window, create a new tab, and navigate to calendar.google.com. Accept or dismiss any pop-ups.

7. Ensure you are authenticated as your Qwiklabs student account by clicking the "s" in the circle in the upper right corner and confirming it is your student-...@qwiklabs.net account.

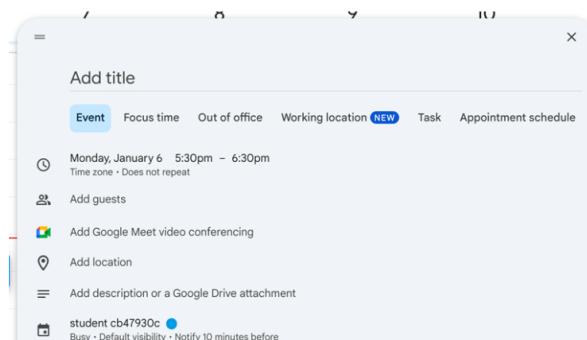


8. In the upper left, click + **Create** and select **Event** from the dropdown menu.

9. In the event-creation window that appears, name the event as **Astronomers Lunch Planning Meeting**, and set a start time of at least one hour from now.



10. Select **Save**.



Click **Check my progress** to verify the objective.

Add the downloaded documents to your Drive and an event to your Calendar.

Check my progress

Assessment Completed!

Task 2. Configure an Identity Provider

1. In the Google Cloud Console, navigate to the **Agentspace** landing page by

2. On the **Agentspace** card, click **Manage**.

Agentspace

Your suite of generative AI tools from Google designed to supercharge knowledge work

NotebookLM for Enterprise Everything you love about NotebookLM, made compliant for enterprise	Agentspace Query over 100+ data connectors and the public web to find information and generate answers
<ul style="list-style-type: none"> ✓ Create and manage notebooks ✓ Chat with a single notebook ✓ Generate text and audio summaries 	<ul style="list-style-type: none"> ✓ 100+ data connectors ✓ Personalized content

Manage Manage

3. You will be sent to **AI Applications**. Click **CONTINUE AND ACTIVATE THE API**.

4. Select **Settings** from the left-hand navigation pane.

5. On the row for the **global** location, click the pencil icon

6. Select **Google Identity** as your identity provider.

Add identity provider

Google Identity

3rd Party Identity

For more information, see [workforce identity federation](#).

7. Select **SAVE**.

Click **Check my progress** to verify the objective.

Assessment Completed!

Task 3. Create Google Drive and Google Calendar Data Stores

1. From the AI Applications menu, select **Data Stores** from the left-hand navigation pane.
2. Select **+ CREATE DATA STORE**.



Google Drive

Link to your organization's drive

SELECT

4. For Choose drives you want to sync, select **All**.

Note: While Agentspace makes it easier to find information across your data sources, it does not grant additional access. You will still only have access to the documents that have been shared with you via existing Drive permissions, and others will only have access to your documents that you have shared with them.

5. Click **CONTINUE**.
6. Keep the default region of **global**, and give the data store the name **Google Drive**.
7. Select **CREATE**.
8. Follow the steps in this task again, only this time create a data store for **Google Calendar**. Name it **Google Calendar**.



Google Calendar PREVIEW

Link to your organization's Calendar

SELECT

AI Applications

Data Stores

CREATE DATA STORE

Name	Connected apps
Google Calendar	N/A
Google Drive	N/A

Click **Check my progress** to verify the objective.

Create Google Drive and Google Calendar data stores.



Check my progress

Assessment Completed!

Task 4. Deploy an Agentspace app

1. From the AI Applications menu, select **Apps** from the left-hand navigation pane.
2. Select **+ CREATE APP**.
3. Find the **Agentspace** card and select **CREATE**.

Agentspace **PREVIEW**

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

4. Name your app **Scientific Conferences Agentspace**.
5. For a company name, use **Scientific Conferences**.
6. Under the “Select tier” header, select **Search + Assistant**.
7. Select **CONTINUE**.
8. For connected data stores, select the checkbox for the **Google Drive** and **Google Calendar** data stores you created earlier.
9. Select **CREATE**.

Click **Check my progress** to verify the objective.

Deploy an Agentspace app.

Assessment Completed!

Task 5. Set up an OAuth Consent Screen and Create client

In order for the AI assistant to take actions on a user's behalf, the user must grant access to your enterprise search and assistant app. To configure the OAuth consent screen and client, follow the following steps:

1. Navigate to the [Google Auth Platform](#).

A screenshot of a Google search results page. The search bar at the top contains the query "Google Auth Platform". Below the search bar, there are several search results. The first result, "Google Auth Platform - OAuth configuration and credentials", has a red rectangular box drawn around it, indicating it is the target for step 1.

- Google Auth Platform - OAuth configuration and credentials
- Verification Center - Google Auth Platform
- Airflow - Google Click to Deploy containers
- Signing in users with Google | Identity Platform ...
- This document shows you how to use Identity Platform to sign in...
- FileMage SFTP, FTP & Web Portal Uploads to Google Cloud Storage - FileMage
- Using Google authentication | Apigee
- Apigee supports using Google OAuth tokens or OpenID Connect...
- Transfer General - Server General
- Cloud Compliance Manager

2. Click **GET STARTED**.

3. For **App Name**, enter `Scientific Conferences Agentspace`.

5. Select **Next**.

6. In the **Audience** section, select an **Internal Audience**.

7. Select **Next**.

8. In the **Contact Information** section, provide an email address, which can be your real professional email address or your Qwiklabs student account.

9. In the **Finish** section, agree to the terms.

10. Select **Create** to create your OAuth consent screen.

11. Your Google Auth Platform dashboard will display a banner that you haven't created any clients yet. Select **Create OAuth Client**. If you don't see this banner, select **Clients** on the left and then **+ Create Client**.

A screenshot of the Google Auth Platform dashboard. At the top, there is a banner with the text "No OAuth clients have been created for this project." Below the banner, there is a button labeled "CREATE OAuth CLIENT". The dashboard also includes sections for "Project Overview" and "Project Checkup".

12. Select an **Application type** of **Web application**.

13. **Name** the client `Agentspace Client`.

14. Under **Authorized redirect URIs**, add
`https://vertexaisearch.cloud.google.com/oauth-redirect`

15. Click **Create**.

A screenshot of the "Create OAuth client ID" form. The "Name" field is highlighted with a red box and contains the value "Agentspace Client". The "Description" field below it contains the placeholder text "The name of your OAuth 2.0 client. This name is only used to identify the client in the console and will not be shown to end users." There are tabs for "Overview" and "Branding" at the bottom.

The domains of the URIs you add below will be automatically added to your OAuth consent screen as authorized domains.

Authorized JavaScript origins

For use with requests from a browser

[+ ADD URI](#)

Authorized redirect URIs

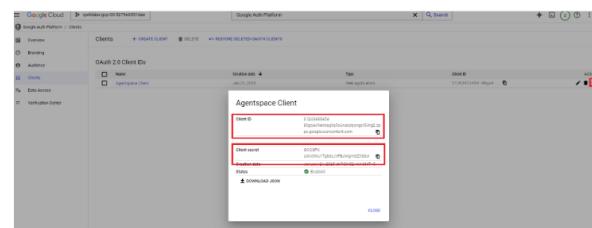
For use with requests from a web server

URIs 1 → https://vertexsearch.cloud.google.com/oauth-redirect

[+ ADD URI](#)

Note: It may take 5 minutes to a few hours for settings to take effect

10. When the client is created, click the **Download** button at the end of its row to display the **Client ID** and **Client Secret** values. Store these in a text document, as you will need them shortly to enable actions.



Click **Check my progress** to verify the objective.

Set up an OAuth Consent Screen and create a client.

[Check my progress](#)

Task 6. Enable a Google Calendar Action

To configure the action, you'll need to enable the **Google Calendar API**. To do so:

1. In the search bar at the top of the Cloud Console, search for the **Google Calendar API** and select it.

Google Calendar API

SEARCH RESULTS

- Google Enterprise API
- Enabling an API in your Google Cloud project
- LumApps
- Manage API keys | Authentication
- Alloy.ai
- NocoDB: Opensource License free alternative to Airtable
- Wrike
- Google Calendar | Integration Connectors

2. Click **Enable** if the API is not already enabled.

Google Calendar API

Manage calendars and events in Google Calendar.

[MANAGE](#) | [TRY THIS API](#) | API Enabled

3. You can now add the action to your app. Return to the **AI Applications** console.
4. Click on the name of your AI Applications App: **Scientific Conferences Agentspace**.
5. Select **Actions** from the left-side navigation.
6. Select **ADD ACTION**.
7. Find the **Calendar** card and click **CONNECT**.

Google sources

Calendar	Google Gmail
CONNECT	CONNECT

Third-party sources

Workday	Jira
CONNECT	CONNECT

8. Enter an **Action connector name** of `calendar_action`.

Configuration

Action connector name *

ID: calendar-action_1732256156645. It cannot be changed later. [EDIT](#)

New Client ID *

New Client Secret *

Pick which actions you want to enable

[FINISH SETUP](#) [CANCEL](#)

9. Enter the **Client ID** and **Client Secret** of the OAuth client you created above.

10. Select the checkbox to enable the **Create calendar event** action to allow the assistant to create meetings based on requests in the Agentspace search bar.

11. Click **FINISH SETUP**.

Click **Check my progress** to verify the objective.

<input checked="" type="checkbox"/>	Enable a Google Calender action. Check my progress <i>Assessment Completed!</i>
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Task 7. Query your Agentspace Assistant

- Take a 10-minute break for the app, its data stores, and actions to finish creating. You can see that your action is finished creating when you select calendar_action from the app's Actions menu and see that it has a connector state of Active.

The screenshot shows the 'calendar_action' configuration screen. At the top, there's a title bar with the action name. Below it, a table shows 'Collection ID' as 'calendar-action_1745635312059' and 'Type' as 'Calendar'. A section for 'Connector state' shows 'Active' with a green checkmark. Another section for 'Automatic Synchronisation' shows 'Enabled'. At the bottom, there's a large 'Save' button.

- Then, navigate to **AI Applications > Apps > Scientific Conferences Agentspace**.
- Select **Preview** from the left-hand navigation pane to view the experience your users will see.

The screenshot shows the 'Google Agentspace' homepage. It features a search bar at the top with placeholder text 'Search your data and ask questions'. Below the search bar are two buttons: 'Deep Research' (Get in-depth answers) and 'Co-Innovator' (Generate and refine). A 'Agents' section follows, showing a list of agents with icons. Below this is a 'Prompts' section with a 'View All' link. The overall layout is clean and modern, designed for easy access to AI-powered tools.

- This home page is designed to give users easy access to the content and events they will find most useful. You will see a few sections:
- Agents:** Use some Google-provided agents or create your own to help with tasks like research, iterating on ideas, or more.
- Prompts:** Get suggestions for ways you can use the AI Assistant.
- For You:** See recent files you've interacted with and upcoming calendar events. You should now see the **files you added to your Drive** and the **upcoming Astronomers Lunch Planning Meeting** you created.

Note: If your data stores are still indexing, the files may require a little time to

- In the search bar, enter the following query: what topics will be discussed at planetcon?
- You should see an answer as well as relevant documents in the side bar.

The screenshot shows the search results for the query 'what topics will be discussed at planetcon?'. The search bar at the top contains the query. Below it, a summary states: 'PlanetCon will cover topics related to the exoplanet Persephone, including its discovery, characteristics, potential for life, and future exploration.' A section titled 'Key topics to be discussed:' lists: 'Detailed analysis of Persephone's atmospheric composition.', 'The planet's surface and potential geological features.', and 'Orbital mechanics and stability within its solar system.' To the right, a 'Search results' sidebar displays two documents: 'PlanetCon_Persephone v2' and 'PlanetCon_Persephone.docx'. Both documents are from Google Drive and have small preview icons.

- Click the **Google Agentspace** logo (which you can replace with your own logo from the Configurations menu) to return to the homepage.

Persephone compared to Earth?

- You should see a result that extracts the information you are looking for from the **Persephone Analysis Report.pdf** document you uploaded to your drive. Remember, there is no real exoplanet Persephone, so you know the model is not relying on training data, but is finding information in your uploaded data. You can further validate this by clicking the **link icon** and the card that appears below the response to be taken directly to the file that serves as the source of this

information.

The screenshot shows the Google Agentspace interface. In the search bar, the query "what is the size of Persephone compared to Earth?" is entered. Below the search bar, a snippet of text from a PDF titled "Persephone_Analysis_Report.pdf" is displayed, stating that Persephone's radius is estimated to be 0.97 times the radius of Earth. To the right, a "Search results" sidebar shows a file named "Persephone_Analysis_Report.pdf" with a link to its Google Drive page. Other files like "PlanetCon_Persephone.docx" are also listed.

10. Click the **Google Agentspace** logo again to return to the homepage.

11. When you don't have time to review a document, you can use the Agentspace AI assistant to create a useful summary for you. In the search bar, enter the following query: **summarize the document Persephone Analysis Report**.

12. Review the assistant's response.

The screenshot shows the Google Agentspace interface after summarizing the document. The search bar now contains "summarize the document Persephone Analysis Report". The results show a summary of the report, mentioning the Xylos system and its distance from Earth. A note indicates that the report summarizes the initial five years of observation of the exoplanet Persephone.

10am for exoplanet-research@qwiklabs.net to review conference presentation proposals.

14. The assistant will prepare a template calendar event for you to approve.

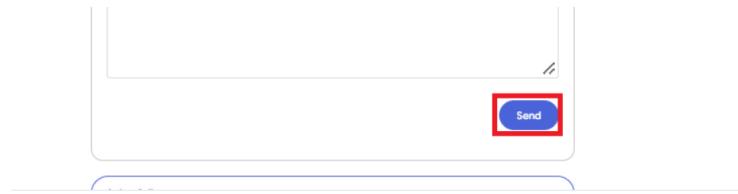
15. **Authorize** the application using the OAuth Consent Screen you configured using your Qwiklabs student account.

16. Confirm the appearance of the event on your Google Calendar tab (or navigate to calendar.google.com in a new tab).

The screenshot shows the Google Calendar OAuth consent screen. It asks for confirmation of details for a meeting proposal. The title is "Presentation Proposal Review". The start time is set to "01/11/2025, 10:00 AM", the timezone is "America/New_York", and the duration is "60" minutes. The "Description" field is empty. At the bottom is a blue "Authorize" button.

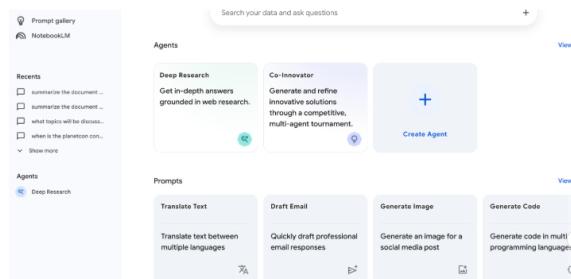
The screenshot shows the Google Calendar interface after authorizing the event. A message at the top says "Create a 1-hour meeting tomorrow at 10am for john@qwiklabs.net and me to review" with a link. Below it, the "Google_calendar" tab is selected. The event "Presentation Proposal Review" is listed with the attendees "john@qwiklabs.net, student-01-ca79b15c379d@qwiklabs.net".

The screenshot shows the Google Calendar interface again, but with different event details. The title is still "Presentation Proposal Review", but the start time is now "01/23/2025 10:00 AM", the timezone is "Asia/Calcutta", and the duration is "60" minutes. The "Description" field is empty.



Task 8. Open the hosted link to your application

1. From your AI Applications app's menu, select **Integration** from the left-hand navigation pane.
2. Under **The link to your web app**, click **OPEN** to preview the hosted application. This is the application for your organization. When configuring Agentspace in production, you could use a DNS record to configure this home page to be accessible from a subdomain of your website, like `agentspace.my-domain.com`.



Congratulations!

In this lab, you've learned how to deploy Agentspace to utilize Google's combined expertise in search, generative AI, and cloud infrastructure to ease knowledge exchange throughout your organization.

Manual Last Updated April 02, 2025

Lab Last Tested April 02, 2025

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