

Google Cloud Skills Boost for Partners

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Deploy Agentspace

Course · 2 hours

50% 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](#)

01:25:51

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-00-6a3b11e96d77e



Password

Yqc0AckMxfh9



GCP Project ID

qwiklabs-gcp-03-8841770

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

Lab instructions and tasks

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Challenge Lab Overview

Objective

Setup and requirements

Challenge Scenario

Your challenge

Task 1. Add content to Google Drive and Google Calendar

Task 2. Configure Agentspace Identity Provider and Create Google Drive and Google Calendar Data Stores

Task 3. Create an OAuth

Lab 1 hour 30 minutes No cost Intermediate

★★★★★

[This lab may incorporate AI tools to support your learning.](#)

Challenge Lab Overview

This lab will challenge you to perform actions and automation across products. Instead of following step-by-step instructions, you are given a common business scenario and a set of tasks - you figure out how to complete them on your own! An automated scoring system (shown on this page) provides feedback on whether you have completed your tasks correctly.

When you take a Challenge Lab, you will not be taught Google Cloud concepts. You will need to use your skills to assess how to build the solution to the challenge presented. This lab is only recommended for students who have those skills. Are you up for the challenge?

Objective

In this challenge lab, you will demonstrate your ability to deploy Google Agentspace and set up data stores and actions.

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".

Setup and requirements

Before you click the Start Lab button

Read these instructions. Labs are timed and you cannot pause them. The timer, which starts when you click **Start Lab**, shows how long Google Cloud resources will be made 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:

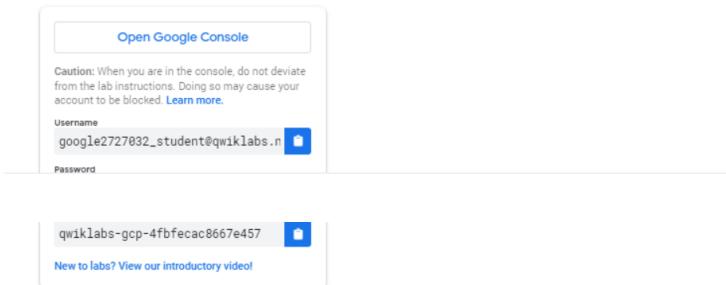
- Access to a standard internet browser (Chrome browser recommended).

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

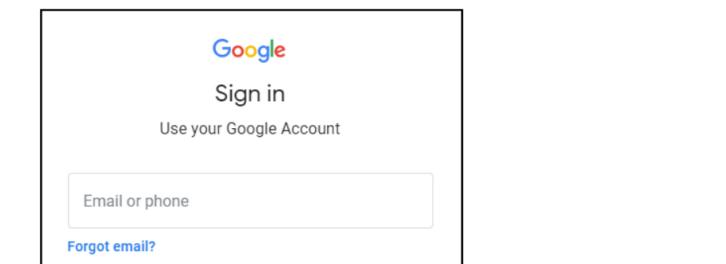
Note: If you are using a Pixelbook, open an Incognito window to run this lab.

How to start your lab and sign in to the Google Cloud Console

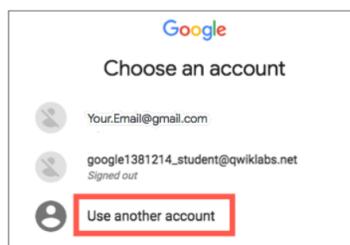
1. Click the **Start Lab** button. If you need to pay for the lab, a pop-up opens for you to select your payment method. On the left is a panel populated with the temporary credentials that you must use for this lab.



2. Copy the username, and then click **Open Google Console**. The lab spins up resources, and then opens another tab that shows the **Sign in** page.



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

4. Click through the subsequent pages:

- Accept the terms and conditions.
- Do not add recovery options or two-factor authentication (because this is a temporary account).
- 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.



Challenge Scenario



Here is a company overview as provided on the Cymbal Shops's website.

Cymbal Shops is an American retail chain headquartered in Minneapolis that sells

Founded in 1974, Cymbal Shops started out as Cymbal Air, selling AC systems manufactured by Cymbal Group in Minnesota and neighboring states. The company quickly expanded into domestic merchandise in order to satisfy the need for quality products at an affordable price in the midst of a recession.

Cymbal Shops' broad product assortment was once a benefit - capturing planned purchases and last minute splurges. In recent years, however, the company has struggled to adapt to the acceleration in e-commerce. Digitally native companies are on the rise and Cymbal Shops must implement significant changes in order to keep pace and maintain relevance. Today, Cymbal Shops operates 714 stores across North America and reported \$15 billion in revenue in 2019. They currently employ 80,400 employees across the United States and Canada.

Cymbal Shops is a digitally transforming legacy retailer.

It is inspired by clients like: Bed Bath & Beyond, Best Buy, Home Depot, Nordstrom.

Your challenge

You are an engineer working for Cymbal Shops, tasked with deploying Agentspace for the organization to help speed up knowledge exchange.

In this challenge lab, you will demonstrate your ability to deploy Google Agentspace and set up data stores and actions.

Your challenge includes the following tasks:

- Configure AI Applications authentication.
- Create Google Drive & Google Calendar data stores.
- Create an Agentspace app

SEARCHING FOR CHALLENGE

Task 1. Add content to Google Drive and Google Calendar

In this section, you will download files from a Cloud Storage bucket, upload them to a Google Drive folder, convert a document to Google Docs, and create a Google Calendar event. This prepares demo data for use in subsequent lab activities.

1. Navigate to **Cloud Storage > Buckets** and click on the existing bucket with the name: **qwiklabs-gcp-03-88417705ce1b**.

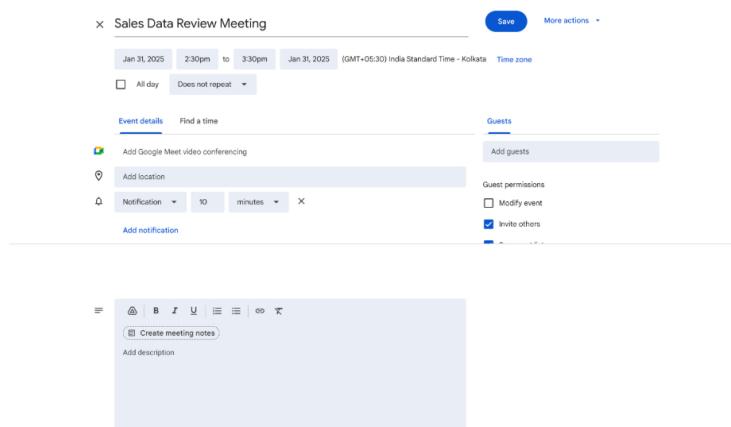
- Cymbal Shops Q4 Sales Data by City.xlsx
 - Cymbal Shops Sales Analysis Report.docx
3. In the Incognito window where you have logged into the Google Cloud console, create a new tab and navigate to drive.google.com.
 4. Create a new folder in your Qwiklab student account's drive and name it **Cymbal Sales Data**.
 5. Upload the documents you downloaded from Cloud Storage to the folder you just created in Google Drive named **Cymbal Sales Data**.

Output:



6. In a new tab in your Incognito window, navigate to calendar.google.com. Create a calendar event named **Sales Data Review Meeting** with a start time at least one hour from now.

Output:



Click *Check my progress* to verify the objective.

Add content to Google Drive and Google Calendar

Check my progress

Task 2. Configure Agentspace Identity Provider and Create Google Drive and Google Calendar Data Stores

In this section, you will configure an agent to use Google Identity and create data stores for Google Drive and Calendar. You will also create an Agentspace app, linking it to the created data stores.

1. Navigate to AI Applications and **enable the API**.
2. Configure AI Applications to use **Google Identity** as your identity provider for the **global** location.
3. Create a **Google Drive** data store named **cymbal-google-drive** with access to **All** folders and drives.

5. Create an **Agentspace** app named `agentspace-app-cymbal` of type **Search + Assistant** and company named **Cymbal Shops** with access to the data stores created above.

Output:

The screenshot shows the 'Connected data stores' section of the Agentspace interface. It includes a 'Filter' input field and a table with two rows:

Name	Type
cymbal-google-drive	Drive
cymbal-google-calendar	Calendar

Configure Agentspace to search Google Drive and Google Calendar Data Stores

[Check my progress](#)

Task 3. Create an OAuth Consent Screen and Configure the Gmail Action

In this section, you will configure an OAuth consent screen for your Agentspace app, enabling user authorization. You will also create an OAuth client and add a Gmail action

to enable the AI assistant to generate email drafts from Agentspace.

1. In the **Google Auth Platform**, create an OAuth consent screen for your app. Name it **Cymbal Shops Agentspace**. It should be intended for an **Internal Audience**.
2. Create an OAuth Client of type **web application** named **Cymbal Agentspace Client** with the required Agentspace [Authorized redirect URI](#).
3. Add a **Google Gmail action** within your Agentspace app to enable the AI assistant to generate email drafts from Agentspace. Provide the Action connector name **Cymbal action**.

Output:

Active Actions [CREATE](#)

[Filter](#)

Click [Check my progress](#) to verify the objective.

Create an OAuth Consent Screen and Configure the Gmail Action

[Check my progress](#)

Task 4. Query your Agentspace Assistant

In this section, you will test the integration by querying the assistant about sales data

1. You may need to give the data store some time to ingest the data in the drive.
Take a 5 to 10 minute break and return to the next step.

2. From the app's Integration menu, find the **web app link** and click **Open**.

3. Using the primary search bar, ask: According to Cymbal Shops Q4 Sales Data by City, what were the top performing cities?

Output:

The screenshot shows a Google Agentspace interface. The search bar at the top contains the query: "According to Cymbal Shops Q4 Sales Data by City, what were the top performing cities?". Below the search bar, there is a "Manage Sources" button. The main content area displays a summary of sales data: "The top-performing cities for Cymbal Shops in Q4 were Fort Worth and Houston. Fort Worth led with \$65,257,095 in sales, while Houston followed closely with \$65,000,066 in sales. The top 10 cities accounted for a significant portion of total sales, while the remaining 10 had a much smaller impact. New York City ranked 8th in total sales." At the bottom of this summary, there are three blue links: "What were Cymbal Shops' Q4 sales in Houston?", "How much did Fort Worth's sales exceed Houston's?", and "How many cities are in the top 10?".

4. Using the primary search bar, ask: What are some insights from the Sales Analysis Report?

Output:

The screenshot shows a Google Agentspace interface. The search bar at the top contains the query: "What are some insights from the Sales Analysis Report?". Below the search bar, there is a "Manage Sources" button. The main content area displays a summary of insights: "Here are some insights from the Cymbal Shops Sales Analysis Report:

- Top Performing Cities: Fort Worth was the top-performing city in Q4 with \$65,257,095 in sales, followed closely by Houston with \$65,000,066 in sales.
- Sales Distribution: The top 10 cities accounted for a significant portion of total sales, while the remaining 10 cities had a much smaller impact. New York City ranked 8th in total sales.

" At the bottom of this summary, there is a section titled "lowest sales overall." with a bullet point: "Regional Differences: Sales patterns vary across cities and regions due to local economic conditions and demographics." Below this, there is a section titled "To Improve sales, the report suggests:" with two bullet points: "Developing targeted marketing campaigns based on unique sales patterns and customer demographics for different cities and regions." and "Implementing special promotions in December to boost sales during the holiday season."

5. Using the primary search bar, ask: Send an email to [INSERT_YOUR_EMAIL_ADDRESS_HERE] with high-level insights from the Cymbal Sales Analysis Report. Offer to discuss it further. (If the output does not appear as a GMail action you can Authorize, as pictured below, send the request to the assistant again. If it still doesn't work, the action may need a little more time to become active, so try again in a few minutes.)

Output:

The screenshot shows a Google Agentspace interface. The search bar at the top contains the query: "Send an email to student-01-53e459fc631c@qwiklabs.net with high-level insights from the Cymbal Sales Analysis Report. Offer to discuss it further.". Below the search bar, there is a "Manage Sources" button. The main content area shows an email draft in the Gmail interface. The recipient is "student-01-53e459fc631c@qwiklabs.net". The subject is "Cymbal Shops Sales Analysis Report - Q4 Insights". The message body contains the text: "I've reviewed the Cymbal Shops Sales Analysis Report and wanted to share a few key insights:". At the bottom right of the email draft, there is a blue "Authorize" button.

6. When the action dialog appears, click **Authorize** to open the OAuth Consent Screen you configured, and authorize it with your Qwiklabs student account.

Congratulations!

In this lab, you've demonstrated your ability to deploy Google Agentspace to ease knowledge exchange throughout an organization.

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