# Gmail Skill

This skill allows the authenticated user to perform simple tasks on his/her Google Gmail account directly from the VertexGraph chat prompt.

API Permissions Setup

- Step 1: Go to the Google Cloud Console at https://console.cloud.google.com/apis/dashboard

- Step 2: Sign in with the account that you want to expose to the skill

- Step 3: On the left-side navigation, click on the "Enabled APIs & Services"
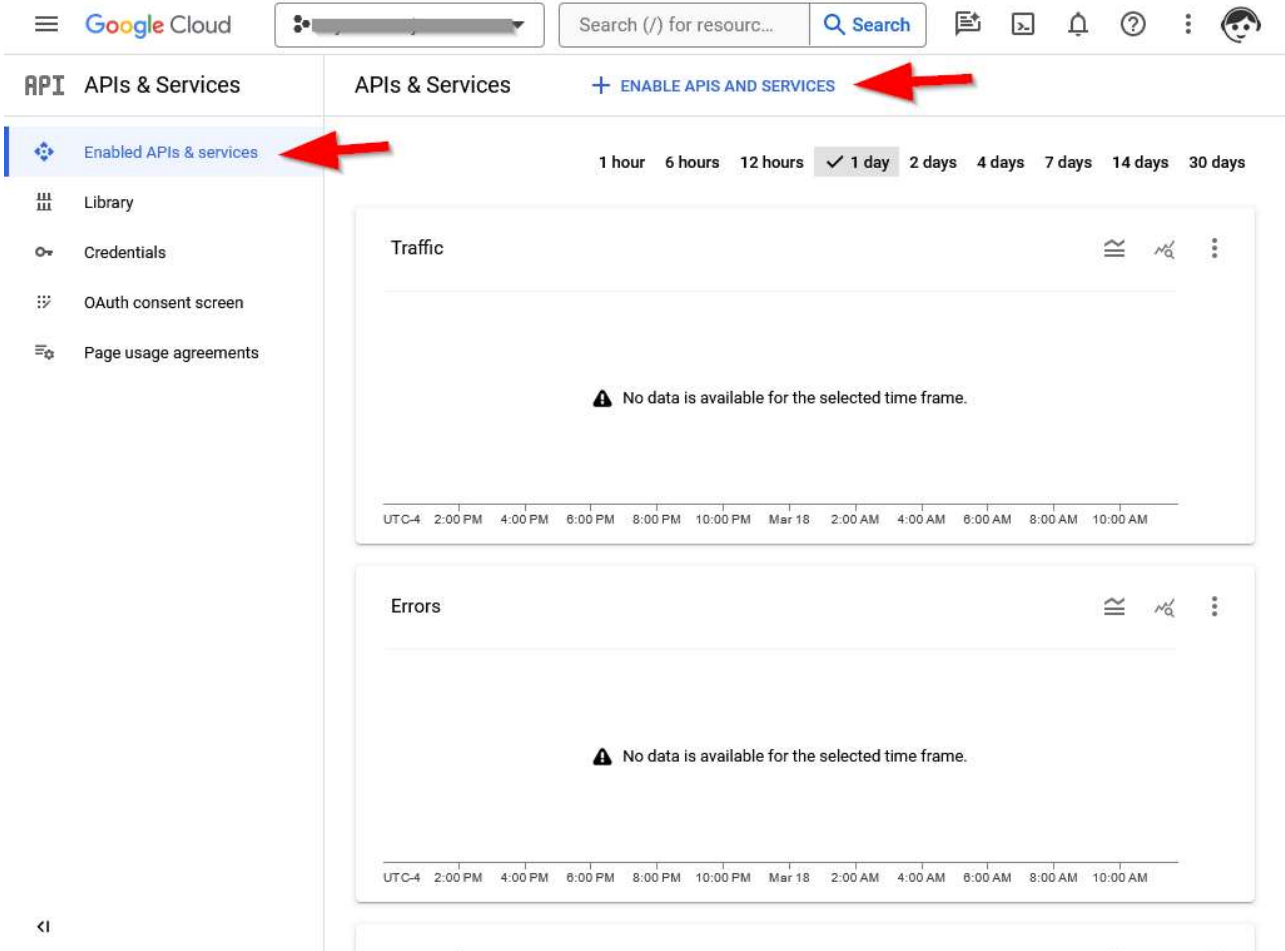
- Step 4: Enable the Gmail API
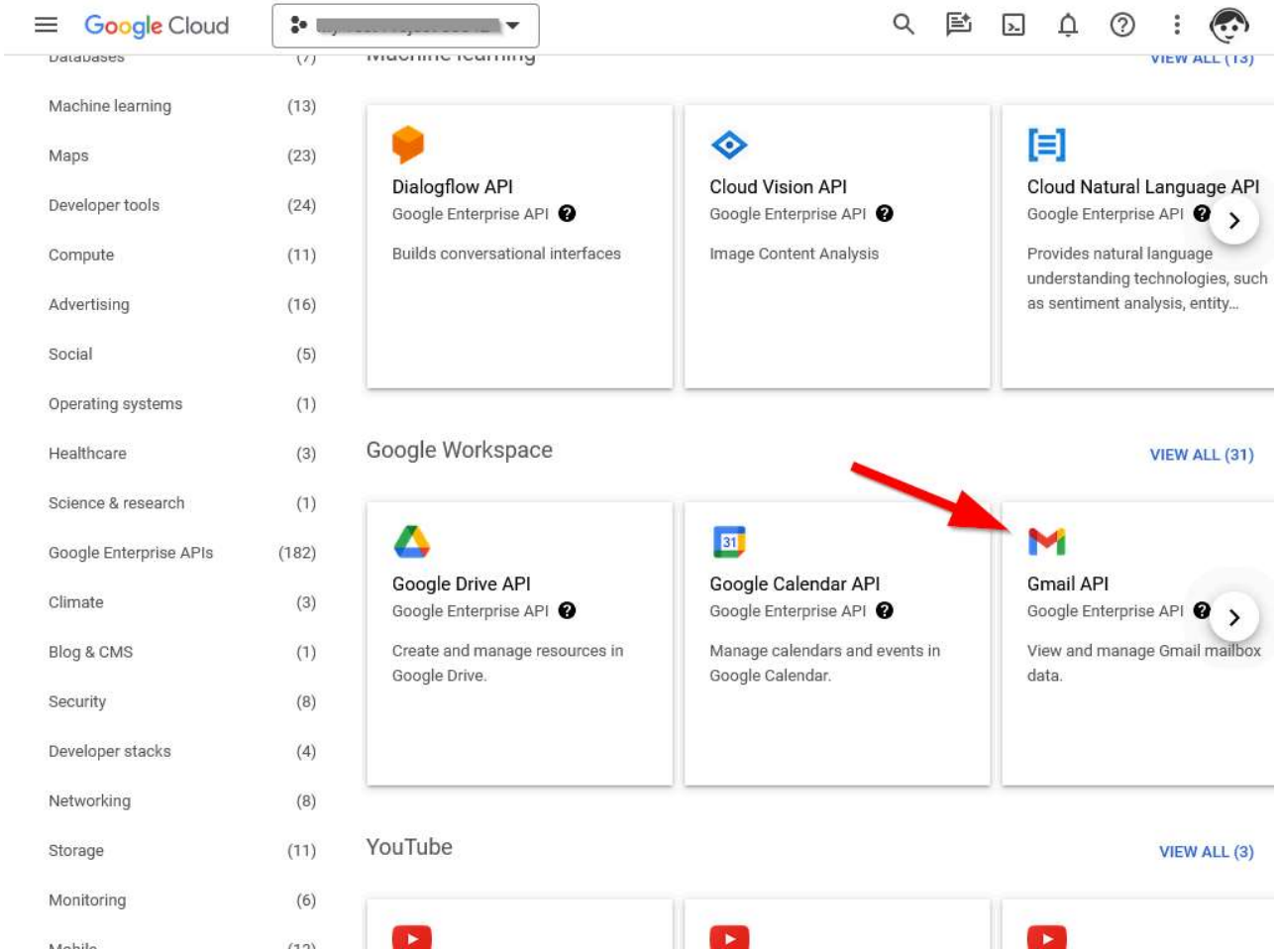
- Step 5: On the left side navigation. Click on Credentials. Create a new OAuth 2.0 Client ID

- Step 6: On the OAuth 2.0 Client ID details page, under Authorized JavaScript origins, add: https://api.vertexgraph.ai. Under the Authorized redirect URIs, add: https://api.vertexgraph.com/adminapi/assets/oauthcode

IIS Installation

The skill requires a Windows Server with Internet Information Services (IIS) with dotnetcore 3.1 (install dotnet-hosting-3.1.32-win.exe or higher on your windows server. The recommended setup is to create a web application folder under the Default Web Site node which points to the compiled files for this project. Create a separate application pool with the permissions to access the skill's output directory.
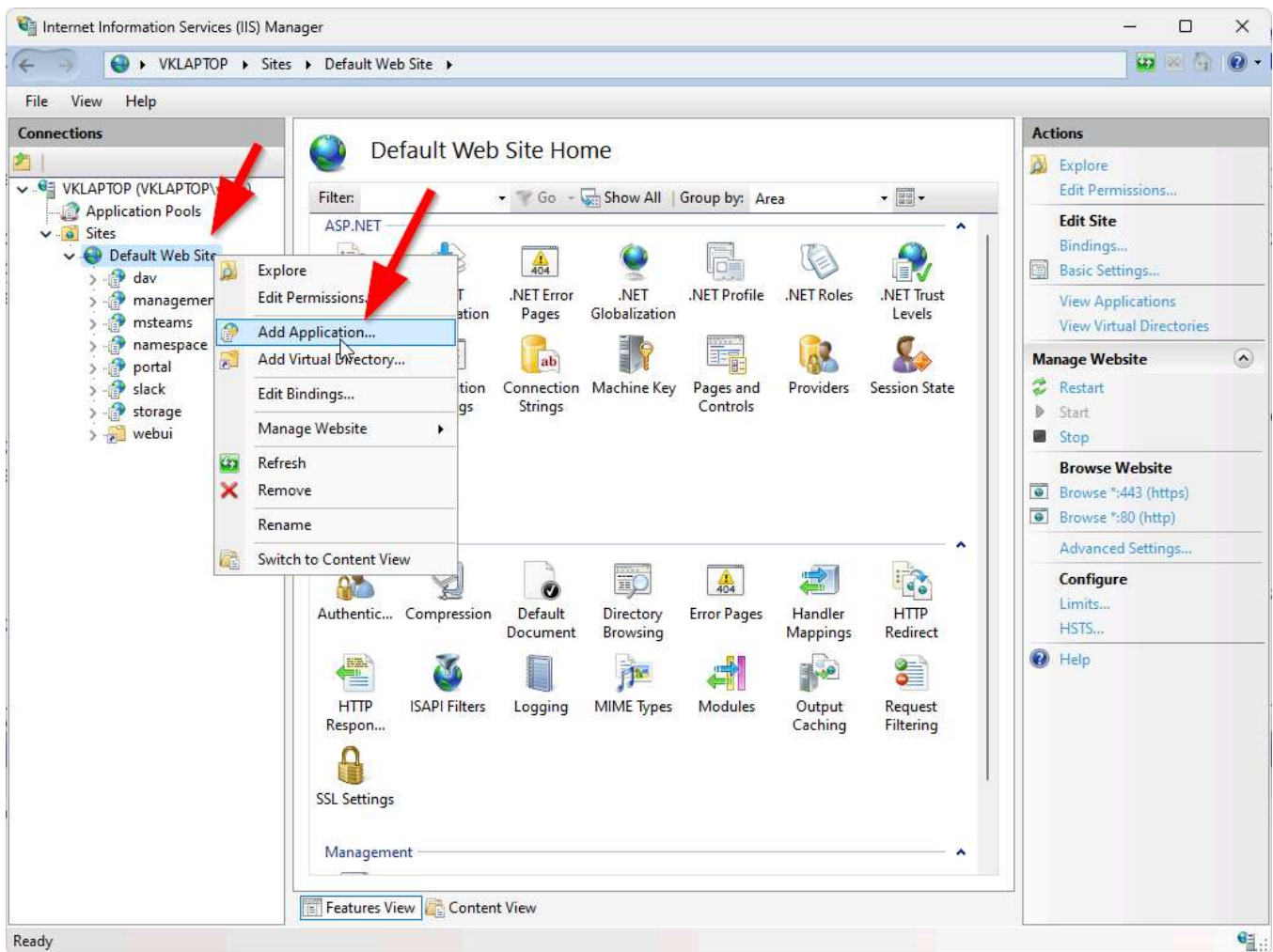
After downloading the source files to a folder on your computer, open the solution (.sln) file with Visual Studio 2022 or higher and compile it. DotNet will automatically create a subfolder under the root/bin folder called: [projectfolder]\bin\Release\netcoreapp3.1 Use this full path as the destination path for your IIS web application folder.
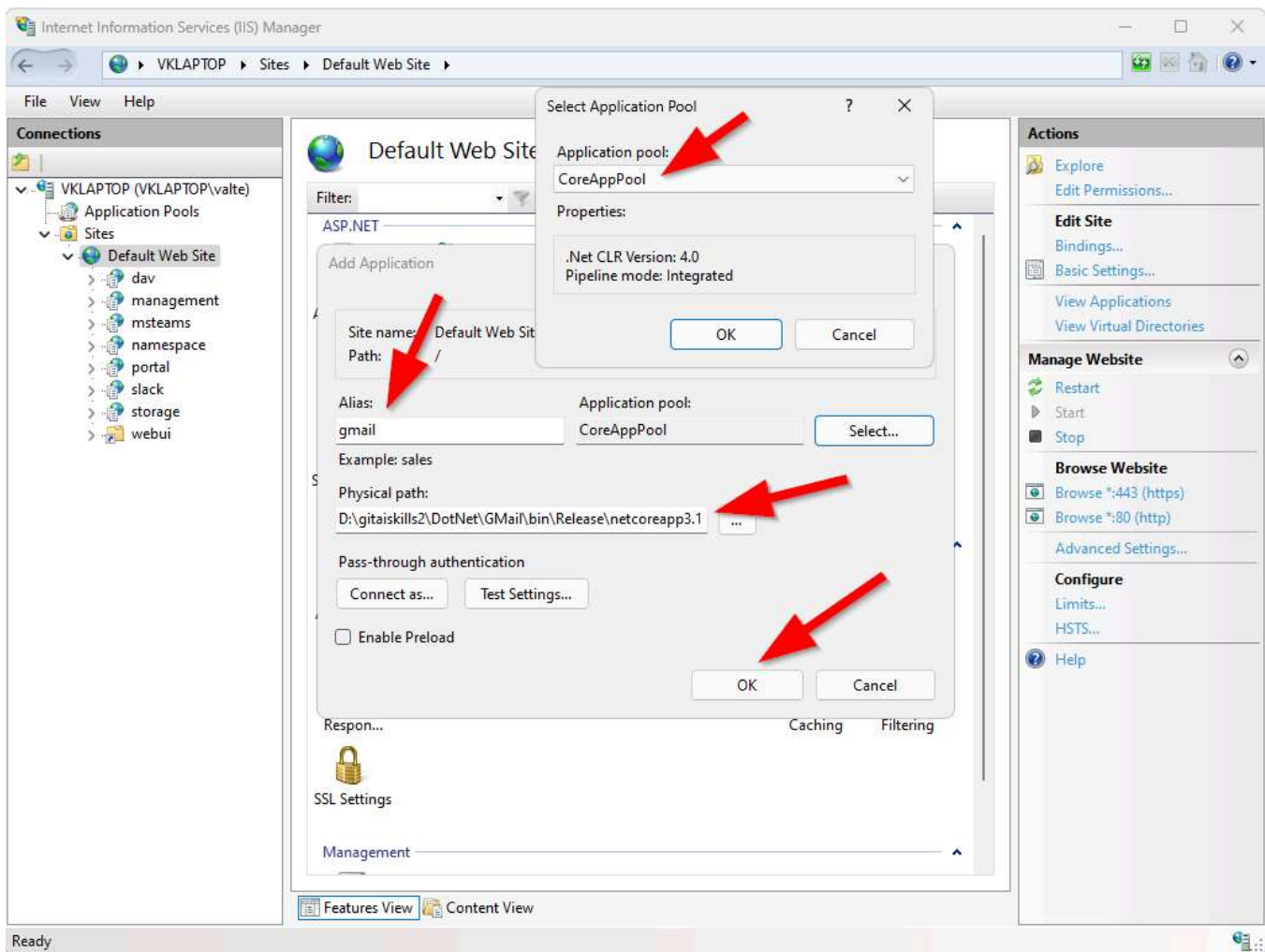
Testing the Setup

If the web application is set up correctly, you should be able to access the following URL from your browser: http://localhost/webappnamehere *Replace webappnamehere with the actual name of your web application. Example: "gmail"*

If the setup is correct you should see the contents of the /Templates/ai-plugin.json, which is an embedded resource in the Visual Studio project and is routed using the metatags on the Controllers/SkillController.cs file.

To ensure that the routing is working as intended, try to access the following URL from your browser: http://localhost/webappnamehere/skills/messages/test If the above is set up correctly, you should see a "hello world" phrase on the page.

Once you get the above steps working, you can point an external domain's A Record to your public IPv4 address. Alternatively, you can use a proxy, such as CloudFlare, which makes the process of generating external URLs easier.

VertexGraph Installation

Now you can install the custom skill on the vertexgraph.ai interface.

- Step 1: From the AI Assistants page, click on the Custom Skills icon on the top-right of the page.
- Step 2: Click on the New Skill Button on the top-left of the page.
- Step 3: Choose the Open API Plugin tile.
- Step 4: Optional: Enter a description and click on the Continue button
- Step 5: Enter the full external URL of the skill and click on the Continue button. For example: https://myexternalurlhere.example.com/webappnamehere
- Step 6: Authorize the skill on the OAuth authentication screen and finish the installation.
- Step 7: Return to the AI Assistants page and click on the manage button on the Default Assistant tile.
- Step 8: From the Skills tab, click on the Assign Skill button on the top-right of the page.
- Step 9: Search for the skill name, which should be Gmail in this case.

Test Prompts

Now that the Gmail Skill is properly installed, you can try the following example prompts:

- "How many emails have I received from support in the last 2 days?"
- "Show me the full body of the last email from myfriend@example.com"
- "Send an email to myself@example.com with subject 'hello world' and body 'this is a test email from the gmail skill'"
- "Add a label called 'hello there' to the email containing the subject 'hello world'"
- "Search for emails containing the label 'hello there'"
- "Reply to the email from myfriend@example.com from today. Tell him that I approve the message"
- "Show me a summary of the last 5 emails from support@example.com"
- ...and many more