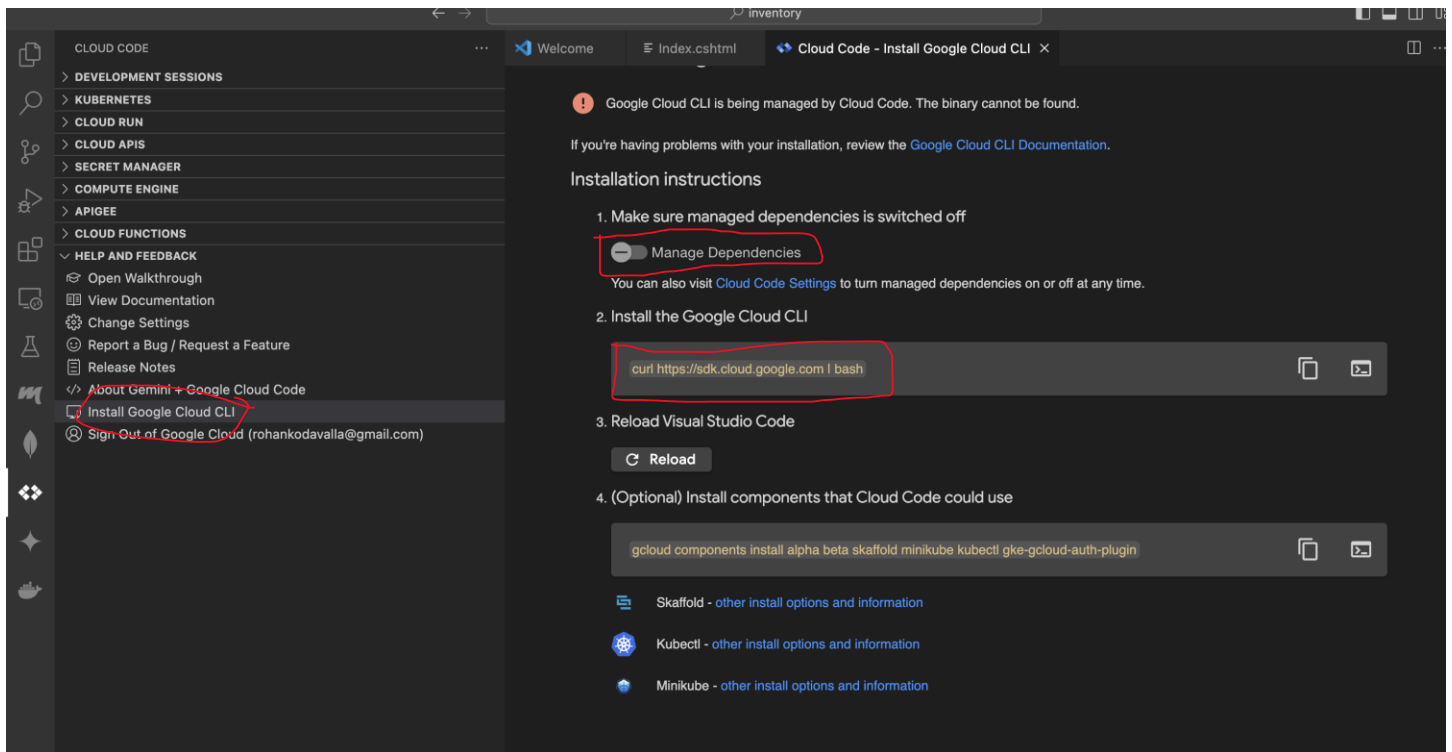


INSTALLING gcloud CLI in vscode : (part of 72. Deploying inventory service)



Then it will ask for

```
PROBLEMS OUTPUT TERMINAL PORTS

Creating backup and activating new installation

Performing post processing steps...done.
Update done!

Modify profile to update your $PATH and enable shell command completion?

Do you want to continue (Y/n)? Y

The Google Cloud SDK installer will now prompt you to update an rc file to bring the Google Cloud CLIs into your environment.
Enter a path to an rc file to update, or leave blank to use [/Users/rohankodavalla/.zshrc]: /Users/rohankodavalla/Desktop/STUDY
[/Users/rohankodavalla/Desktop/STUDY] exists and is not a file, so it cannot be updated.

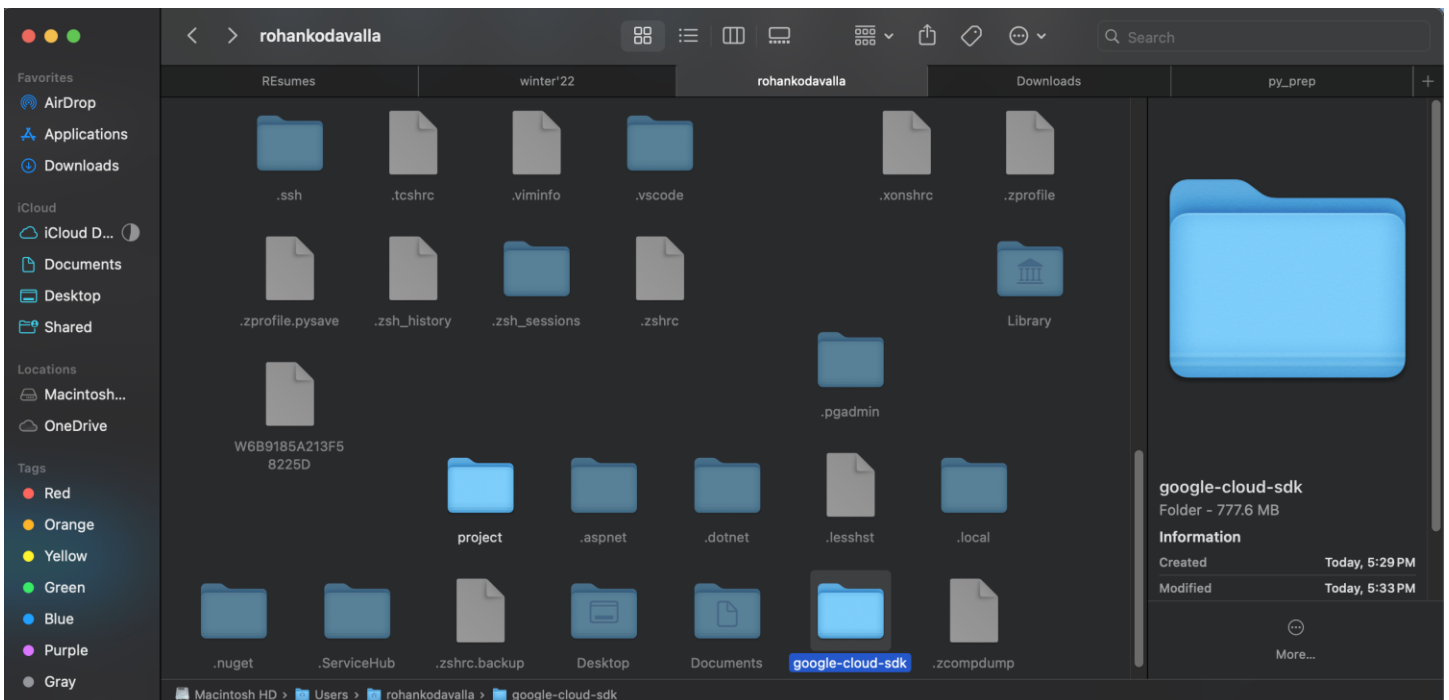
Google Cloud CLI works best with Python 3.11 and certain modules.

Python 3.11 installation detected, install recommended modules? (Y/n)? n

For more information on how to get started, please visit:
https://cloud.google.com/sdk/docs/quickstarts

(base) rohankodavalla@Rohans-MacBook-Air inventory % gcloud
zsh: command not found: gcloud
```

i messed up here , but no problem , if you dont know just click enter.



So it was here.

To check gcloud is installed or not , try the command , but it fails.



ChatGPT

To use the Google Cloud SDK at ``/Users/rohankodavalla/Desktop/STUDY``, you need to update your shell's configuration file (e.g., ``.bashrc``, ``.zshrc``) to include the path to the SDK's `bin`` directory in your `PATH`` environment variable. Here's how you can do it:

1. Open your shell's configuration file using a text editor. For example, if you're using `zsh``, you can run:

```
bash
```

[Copy code](#)

```
nano ~/.zshrc
```

2. Add the following line at the end of the file to append the SDK's `bin`` directory to your `PATH``:

```
bash
```

[Copy code](#)

```
export PATH="/Users/rohankodavalla/google-cloud-sdk/bin:$PATH"
```

3. Save the file and exit the text editor.
4. Close and reopen your terminal to apply the changes, or run the following command to apply the changes to your current session:

```
bash
```

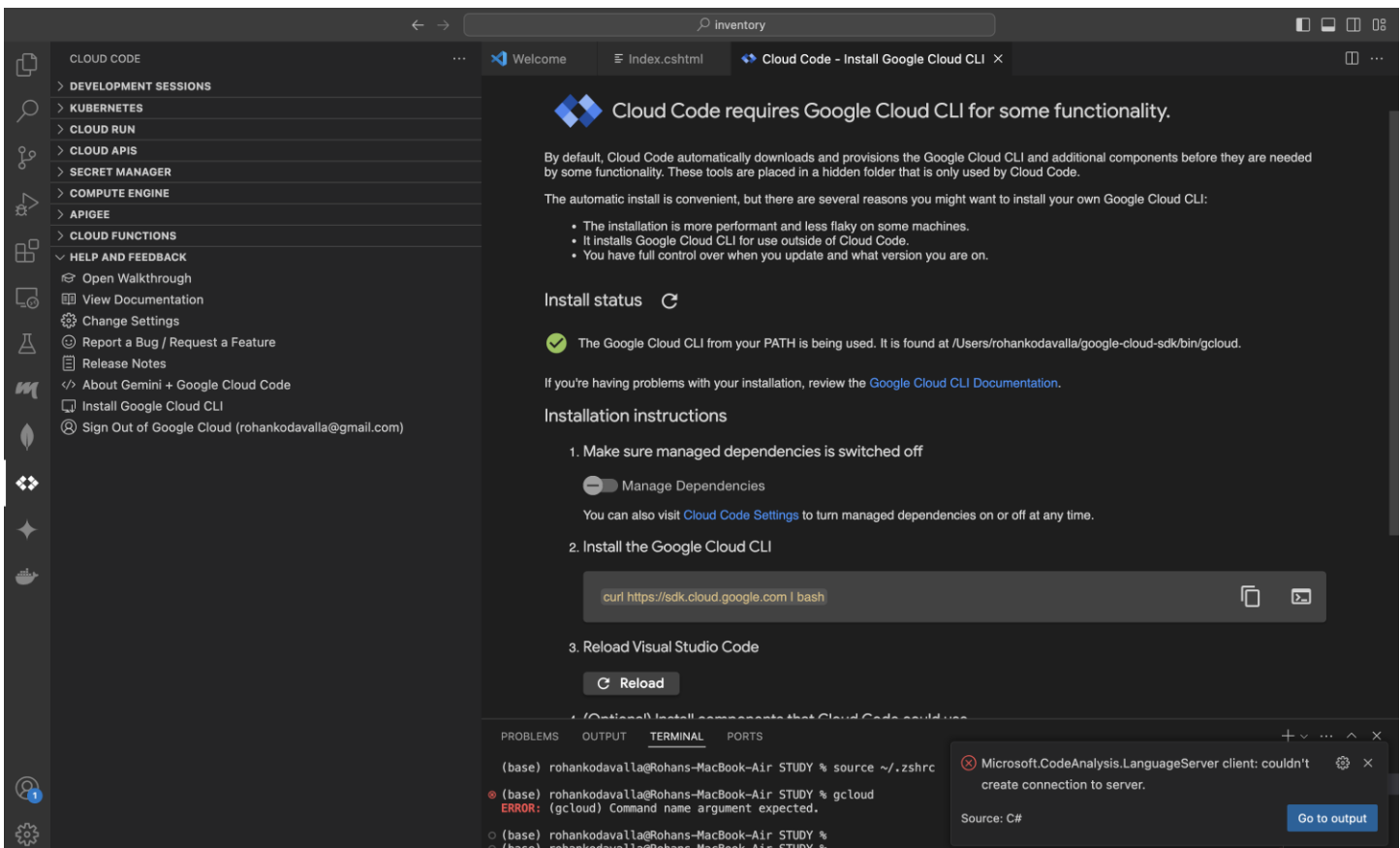
[Copy code](#)

```
source ~/.zshrc
```

5. After that, you should be able to use the `gcloud`` command from any directory in your terminal.

Now you can navigate to ``/Users/rohankodavalla/Desktop/STUDY`` in your terminal and use the Google Cloud SDK commands from there.





```
(base) rohankodavalla@Rohans-MacBook-Air inventory % gcloud config get-value project
(unset)
(base) rohankodavalla@Rohans-MacBook-Air inventory % gcloud init
Welcome! This command will take you through the configuration of gcloud.

Your current configuration has been set to: [default]

You can skip diagnostics next time by using the following flag:
gcloud init --skip-diagnostics

Network diagnostic detects and fixes local network connection issues.
Checking network connection...done.
Reachability Check passed.
Network diagnostic passed (1/1 checks passed).

You must log in to continue. Would you like to log in (Y/n)? Y

Your browser has been opened to visit:

https://accounts.google.com/o/oauth2/auth?response_type=code&client_id=32555940559.apps.googleusercontent.com&redirect_uri=http%3A%2F%2Flocalhost%3A8085%2F&scope=openid+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fuserinfo.email+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcloud-platform+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fappengine.admin+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fsqlservice.login+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Fcompute+https%3A%2F%2Fwww.googleapis.com%2Fauth%2Faccounts.reauth&state=2tp6063m4h4wALVGai8DIFrUSIS1Iv&access_type=offline&code_challenge=3FlzKhEj4QpNnjAwCgtnAckZTZZGVsFTBH393x_Md9Y&code_challenge_method=S256

You are logged in as: [rohankodavalla@gmail.com].

Pick cloud project to use:
[1] graphic-adviser-422016-k7
[2] solid-garden-421919
[3] Enter a project ID
[4] Create a new project
Please enter numeric choice or text value (must exactly match list item):
```

In above we are trying to init gcloud so that we can sync/use our gcloud vm in vscode gcloud cli so that we can deploy our code.

```
You are logged in as: [rohankodavalla@gmail.com].
```

```
Pick cloud project to use:
```

- [1] graphic-adviser-422016-k7
- [2] solid-garden-421919
- [3] Enter a project ID
- [4] Create a new project

```
Please enter numeric choice or text value (must exactly match list item): 1
```

```
Your current project has been set to: [graphic-adviser-422016-k7].
```

```
Do you want to configure a default Compute Region and Zone? (Y/n)? n
```

```
Created a default .boto configuration file at [/Users/rohankodavalla/.boto]. See this file and  
[https://cloud.google.com/storage/docs/gsutil/commands/config] for more  
information about configuring Google Cloud Storage.  
Your Google Cloud SDK is configured and ready to use!
```

```
* Commands that require authentication will use rohankodavalla@gmail.com by default  
* Commands will reference project `graphic-adviser-422016-k7` by default  
Run `gcloud help config` to learn how to change individual settings
```

```
This gcloud configuration is called [default]. You can create additional configurations if you work with multiple  
accounts and/or projects.  
Run `gcloud topic configurations` to learn more.
```

```
Some things to try next:
```

- * Run `gcloud --help` to see the Cloud Platform services you can interact with. And run `gcloud help COMMAND` to get help on any gcloud command.
- * Run `gcloud topic --help` to learn about advanced features of the SDK like arg files and output formatting
- * Run `gcloud cheat-sheet` to see a roster of go-to `gcloud` commands.

```
○ (base) rohankodavalla@Rohans-MacBook-Air inventory %
```

Now we want to make sure that gcloud is configured to our project so run -

```
● (base) rohankodavalla@Rohans-MacBook-Air inventory % gcloud config get-value project  
graphic-adviser-422016-k7  
○ (base) rohankodavalla@Rohans-MacBook-Air inventory %
```

And make sure that the project ID that you see is indeed the project that you use.

And if that is the case, then we can move on and start deploying our code to an App Engine service.

So as we mentioned before, the first thing we need to do in order to configure the code for App Engine

service is to add an app.yaml file containing the configuration of the deployment.

So note that you can find a complete app Yaml file in the resources of this lecture.

So you can simply use this file.

=====

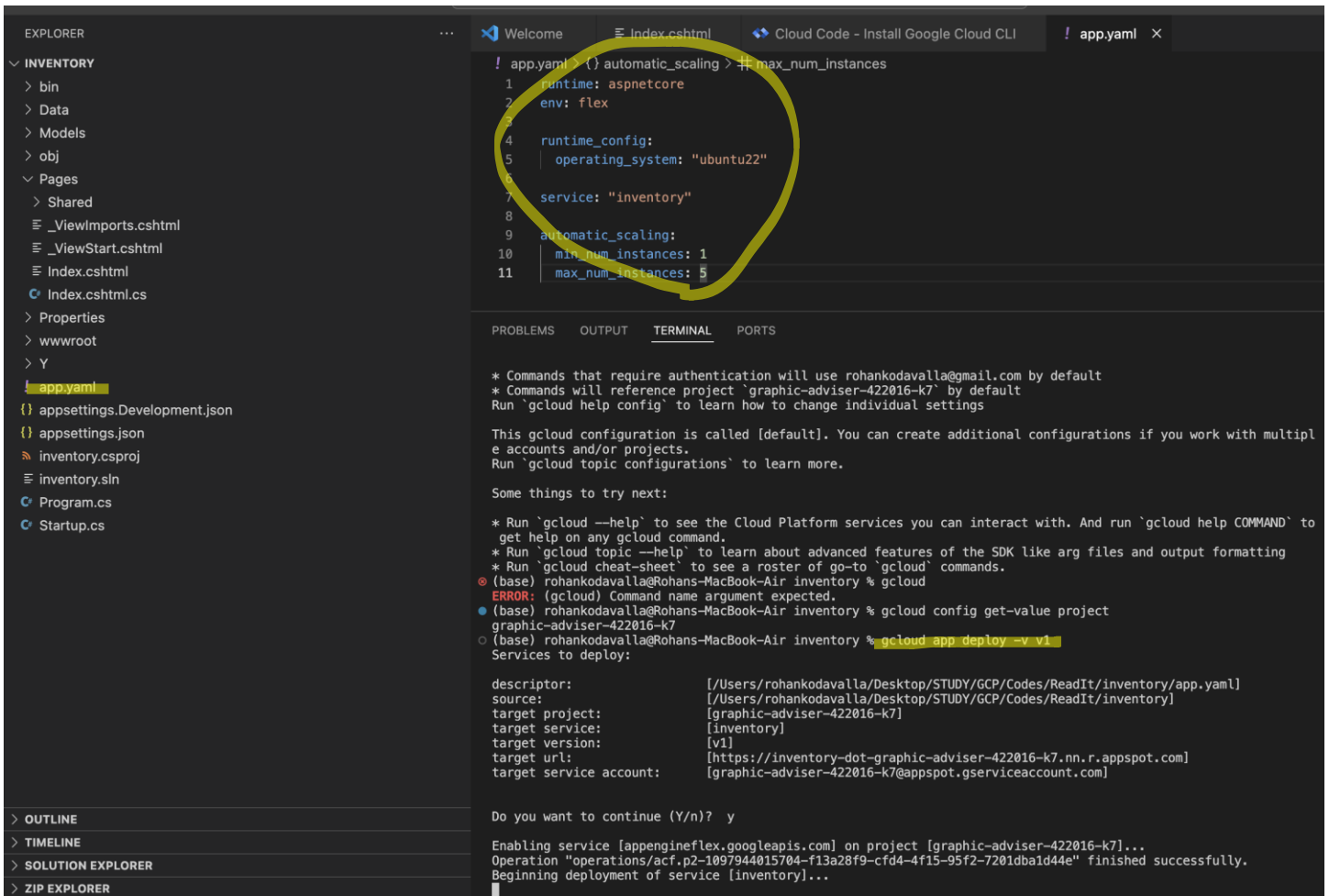
But we will now create a new one from start.

So you will see what are the steps that we do in order to make this configuration.

So right click somewhere here to create a new file and name this file of course app .Yaml.

Enter details into the .yaml file and save.

Deploy into gcloud.



```
! app.yaml {} automatic_scaling > ## max_num_instances
1 runtime: aspnetcore
2 env: flex
3
4 runtime_config:
5   operating_system: "ubuntu22"
6
7 service: "inventory"
8
9 automatic_scaling:
10   min_num_instances: 1
11   max_num_instances: 5
```

PROBLEMS OUTPUT TERMINAL PORTS

* Commands that require authentication will use rohankodavalla@gmail.com by default
* Commands will reference project 'graphic-adviser-422016-k7' by default
Run 'gcloud help config' to learn how to change individual settings

This gcloud configuration is called [default]. You can create additional configurations if you work with multiple accounts and/or projects.
Run 'gcloud topic configurations' to learn more.

Some things to try next:

- * Run 'gcloud --help' to see the Cloud Platform services you can interact with. And run 'gcloud help COMMAND' to get help on any gcloud command.
- * Run 'gcloud topic --help' to learn about advanced features of the SDK like arg files and output formatting
- * Run 'gcloud cheat-sheet' to see a roster of go-to 'gcloud' commands.

(base) rohankodavalla@Rohans-MacBook-Air inventory % gcloud

ERROR: (gcloud) Command name argument expected.

(base) rohankodavalla@Rohans-MacBook-Air inventory % gcloud config get-value project

graphic-adviser-422016-k7

(base) rohankodavalla@Rohans-MacBook-Air inventory % gcloud app deploy -v v1

Services to deploy:

| | |
|-------------------------|---|
| descriptor: | [/Users/rohankodavalla/Desktop/STUDY/GCP/Codes/ReadIt/inventory/app.yaml] |
| source: | [/Users/rohankodavalla/Desktop/STUDY/GCP/Codes/ReadIt/inventory] |
| target project: | [graphic-adviser-422016-k7] |
| target service: | [inventory] |
| target version: | [v1] |
| target url: | [https://inventory-dot-graphic-adviser-422016-k7.nn.r.appspot.com] |
| target service account: | [graphic-adviser-422016-k7@appspot.gserviceaccount.com] |

Do you want to continue (Y/n)? y

Enabling service [appengineflex.googleapis.com] on project [graphic-adviser-422016-k7]...
Operation "operations/acf.p2-1097944015704-f13a28f9-cfd4-4f15-95f2-7201dba1d44e" finished successfully.
Beginning deployment of service [inventory]...

Now using this command we want to deploy to gcloud, but we got a huge 4 hr error puzzling my head .

```
! app.yaml > {} automatic_scaling > ## max_num_instances
1 runtime: aspnetcore

PROBLEMS OUTPUT TERMINAL PORTS

Step #2 - "build": Adding layer 'buildpacksio/lifecycle:launch.sbom'
Step #2 - "build": Adding 1/1 app layer(s)
Step #2 - "build": Adding layer 'buildpacksio/lifecycle:launcher'
Step #2 - "build": Adding layer 'buildpacksio/lifecycle:config'
Step #2 - "build": Adding layer 'buildpacksio/lifecycle:process-types'
Step #2 - "build": Adding label 'io.buildpacks.lifecycle.metadata'
Step #2 - "build": Adding label 'io.buildpacks.build.metadata'
Step #2 - "build": Adding label 'io.buildpacks.project.metadata'
Step #2 - "build": Adding label 'google.builder-image'
Step #2 - "build": Adding label 'google.source'
Step #2 - "build": Adding label 'google.builder-version'
Step #2 - "build": Adding label 'google.run-image'
Step #2 - "build": Setting default process type 'web'
Step #2 - "build": Timer: Saving us.gcr.io/graphic-adviser-422016-k7/appengine/inventory.v1:131c2a65-d6b4-40ba-b1aa-15fc9b3fc08f... started at 2024-05-03T22:40:18Z
Step #2 - "build": *** Images (sha256:4b7b9d633f76a014e06b39991a91b62482105bee9deebd67dde3426946f51337):
Step #2 - "build": us.gcr.io/graphic-adviser-422016-k7/appengine/inventory.v1:131c2a65-d6b4-40ba-b1aa-15fc9b3fc08f
Step #2 - "build": us.gcr.io/graphic-adviser-422016-k7/appengine/inventory.v1:latest
Step #2 - "build": Timer: Saving us.gcr.io/graphic-adviser-422016-k7/appengine/inventory.v1:131c2a65-d6b4-40ba-b1aa-15fc9b3fc08f... ran for 4.598879923s and ended at 2024-05-03T22:40:22Z
Step #2 - "build": Timer: Exporter ran for 26.239596242s and ended at 2024-05-03T22:40:22Z
Finished Step #2 - "build"
PUSH
DONE

Updating service [inventory] (this may take several minutes)...WARNING: Deleted folder: /workspace/bin

WARNING: A project file was uploaded, causing 'dotnet publish' to be called, but the output bin folder already existed in application source. Deleting /layers/google.dotnet.publish/publish/bin.

Updating service [inventory] (this may take several minutes)...failed.
ERROR: (gcloud.app.deploy) Error Response: [9] An internal error occurred while processing task /app-engine-flex/flex_await_healthy>2024-05-03T22:43:36.406Z4852.he.1: You must install or update .NET to run this application.

App: /layers/google.dotnet.publish/publish/bin/inventory.dll
Architecture: x64
Framework: 'Microsoft.NETCore.App', version '6.0.0' (x64)
.NET location: /layers/google.dotnet.runtime/runtime/

The following frameworks were found:
8.0.4 at [/layers/google.dotnet.runtime/runtime/shared/Microsoft.NETCore.App]

Learn more:
https://aka.ms/dotnet/app-launch-failed

To install missing framework, download:
https://aka.ms/dotnet-core-applaunch?framework=Microsoft.NETCore.App&framework_version=6.0.0&arch=x64&rid=linux-x64&os=ubuntu.22.04
```

So to remove this error -

So to remove this error -

oncordia.udemy.com/course/google-cloud-platform-from-zero-to-hero-the-complete-guide/learn/lecture/40787934#que



[Memi](#) — Instructor

2 months ago

2 ↑

OK.

Can you please open the `inventory.csproj` file and change the target version to 8.0 instead of 6.0, and then try again?

HTH,

Memi



[Babatunde](#)

2 months ago

0 ↑

After two days it finally worked...Thank you.



[Memi](#) — Instructor

2 months ago

0 ↑

Glad it worked out :-)

Just to make sure - did you make any changes to the `inventory.csproj` file, or it just started working without any change on your side?

Thanks,

Memi



[Piotr](#)

1 month ago

3 ↑

Following Memi's advice to update the `inventory.csproj` file from:

```
<TargetFramework>net6.0</TargetFramework>
```

To:

```
<TargetFramework>net8.0</TargetFramework>
```

Fixed the problem for me, too. Thanks!



[Piyush](#)

1 month ago

1 ↑

Another solution is add the certain section to the app.yaml
runtime_config: operating_system: "ubuntu22"
runtime_version: '6.0.x'

So i did it -

inventory.csproj X inventory.sln {} launchSettings.json ★ favicon.ico {} inventory.csproj.nuget.dgsp

inventory.csproj

```
1 <Project Sdk="Microsoft.NET.Sdk.Web">
2
3   <PropertyGroup>
4     <TargetFramework>net8.0</TargetFramework>
5   </PropertyGroup>
6
7   <ItemGroup>
8     <PackageReference Include="MySQL.EntityFrameworkCore" Version="7.0.5" />
9     <PackageReference Include="newtonsoft.json" Version="13.0.1" />
10  </ItemGroup>
11
12  <ItemGroup>
13    <None Update="app.yaml">
14      <CopyToPublishDirectory>PreserveNewest</CopyToPublishDirectory>
15    </None>
16  </ItemGroup>
17
18 </Project>
19
```

PROBLEMS OUTPUT TERMINAL PORTS

/flex_await_healthy/flex_await_healthy>2024-05-04T03:17:57.080Z5080.he.2: You must install or update .NET to run this application.

App: /layers/google.dotnet.publish/publish/bin/inventory.dll
Architecture: x64
Framework: 'Microsoft.NETCore.App', version '6.0.0' (x64)
.NET location: /layers/google.dotnet.runtime/runtime/

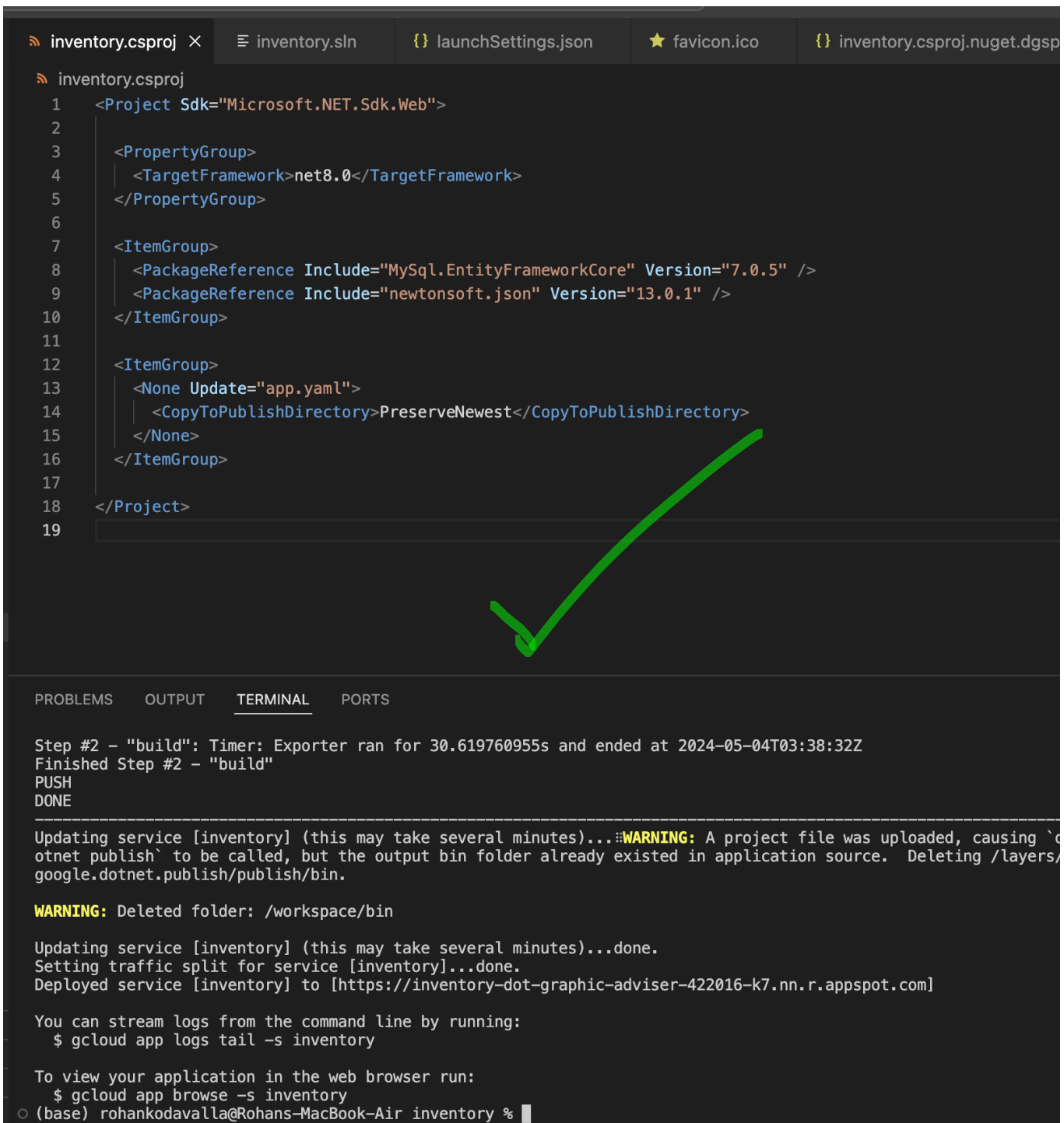
The following frameworks were found:
8.0.4 at [/layers/google.dotnet.runtime/runtime/shared/Microsoft.NETCore.App]

Learn more:
<https://aka.ms/dotnet/app-launch-failed>

To install missing framework, download:
<https://aka.ms/dotnet-core-applaunch?framework=Microsoft.NETCore.App>
x64&os=ubuntu.22.04

⊗ Failed to restore solution.

● (base) rohankodavalla@Rohans-MacBook-Air inventory % dotnet --vers. Source: C# Dev Kit
6.0.421
○ (base) rohankodavalla@Rohans-MacBook-Air inventory %



The screenshot shows the Visual Studio Code interface. The top bar displays several tabs: 'inventory.csproj' (active), 'inventory.sln', 'launchSettings.json', 'favicon.ico', and 'inventory.csproj.nuget.dgsp'. The main editor area shows the content of 'inventory.csproj', which is an XML file defining a .NET project. The code includes a project SDK, target framework (net8.0), and several package references. A large green checkmark is drawn over the code. Below the editor, the 'TERMINAL' tab is active, showing the output of a deployment process. The logs indicate a successful build and deployment to Google Cloud, with some warnings about existing folders and project files.

```
inventory.csproj
1 <Project Sdk="Microsoft.NET.Sdk.Web">
2
3   <PropertyGroup>
4     <TargetFramework>net8.0</TargetFramework>
5   </PropertyGroup>
6
7   <ItemGroup>
8     <PackageReference Include="MySQL.EntityFrameworkCore" Version="7.0.5" />
9     <PackageReference Include="newtonsoft.json" Version="13.0.1" />
10  </ItemGroup>
11
12  <ItemGroup>
13    <None Update="app.yaml">
14      <CopyToPublishDirectory>PreserveNewest</CopyToPublishDirectory>
15    </None>
16  </ItemGroup>
17
18 </Project>
19

PROBLEMS OUTPUT TERMINAL PORTS

Step #2 - "build": Timer: Exporter ran for 30.619760955s and ended at 2024-05-04T03:38:32Z
Finished Step #2 - "build"
PUSH
DONE

Updating service [inventory] (this may take several minutes)...:WARNING: A project file was uploaded, causing `d
otnet publish` to be called, but the output bin folder already existed in application source. Deleting /layers/
google.dotnet.publish/publish/bin.

WARNING: Deleted folder: /workspace/bin

Updating service [inventory] (this may take several minutes)...done.
Setting traffic split for service [inventory]...done.
Deployed service [inventory] to [https://inventory-dot-graphic-adviser-422016-k7.nn.r.appspot.com]

You can stream logs from the command line by running:
$ gcloud app logs tail -s inventory

To view your application in the web browser run:
$ gcloud app browse -s inventory
o (base) rohankodavalla@Rohans-MacBook-Air inventory %
```

Now if you took a look at the logs of the deployment then you can see that basically what happens here is that Google created a Docker image and then put our code in it.

It built the code and then deployed the container image, which is not the case with the standard App Engine service where we don't have an underlying Docker image. So anyway, deployment was complete.

Google Cloud My First Project Search (/) for resources, docs, products, and more Search

App Engine Services DELETE EDIT INGRESS SETTING SHOW INFO PANEL LE

Dashboard Services Versions Instances Task queues Cron jobs Security scans Firewall rules

| Service | Versions | Labels | Dispatch routes | Ingress | VPC access name | VPC egress setting | Last version deployed | Diagnosis |
|-----------|----------|--------|-----------------|---------|-----------------|--------------------|--|-----------|
| inventory | 1 | | | All | | | May 3, 2024, 11:36:44 PM by rohankodavalla@gmail.com | Logs |
| default | 1 | | | All | | | May 3, 2024, 4:56:48 PM by rohankodavalla@gmail.com | Logs |

You can verify the v1 (version 1) update time , and click on inventory >

Services - App Engine - My F x Inventory x 404 Page not found x Troubleshoot .NET Core Proj x +

inventory-dot-graphic-adviser-422016-k7.nn.r.appspot.com

ReadIt! Inventory

Manage Inventory

Nothing to see here folks :-)

8. App Engine 72. Deploying the Inventory Service



So we just **deployed our inventory service as a flexible app engine service.**
And now we have it **up and running in the cloud.**