



Google Cloud

AnythingGPT

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A promotional banner for the Google Cloud Vertex AI Hackathon. The text 'Google Cloud Vertex AI Hackathon' is prominently displayed at the top. Below it, a date box indicates 'July 7' with a right-pointing arrow. The banner features an illustration of two people standing on a staircase made of colorful, translucent blocks. At the bottom, logos for 'Vertex AI', 'Google Cloud', 'lab ai', 'now native group', and 'NEXTGRID' are visible.

GPT applications that you need such as writing, marketing, ask anything and many more.

AnythingGPT

Short description

GPT application that you need such as writing, marketing, ask anything and many more.

Long description

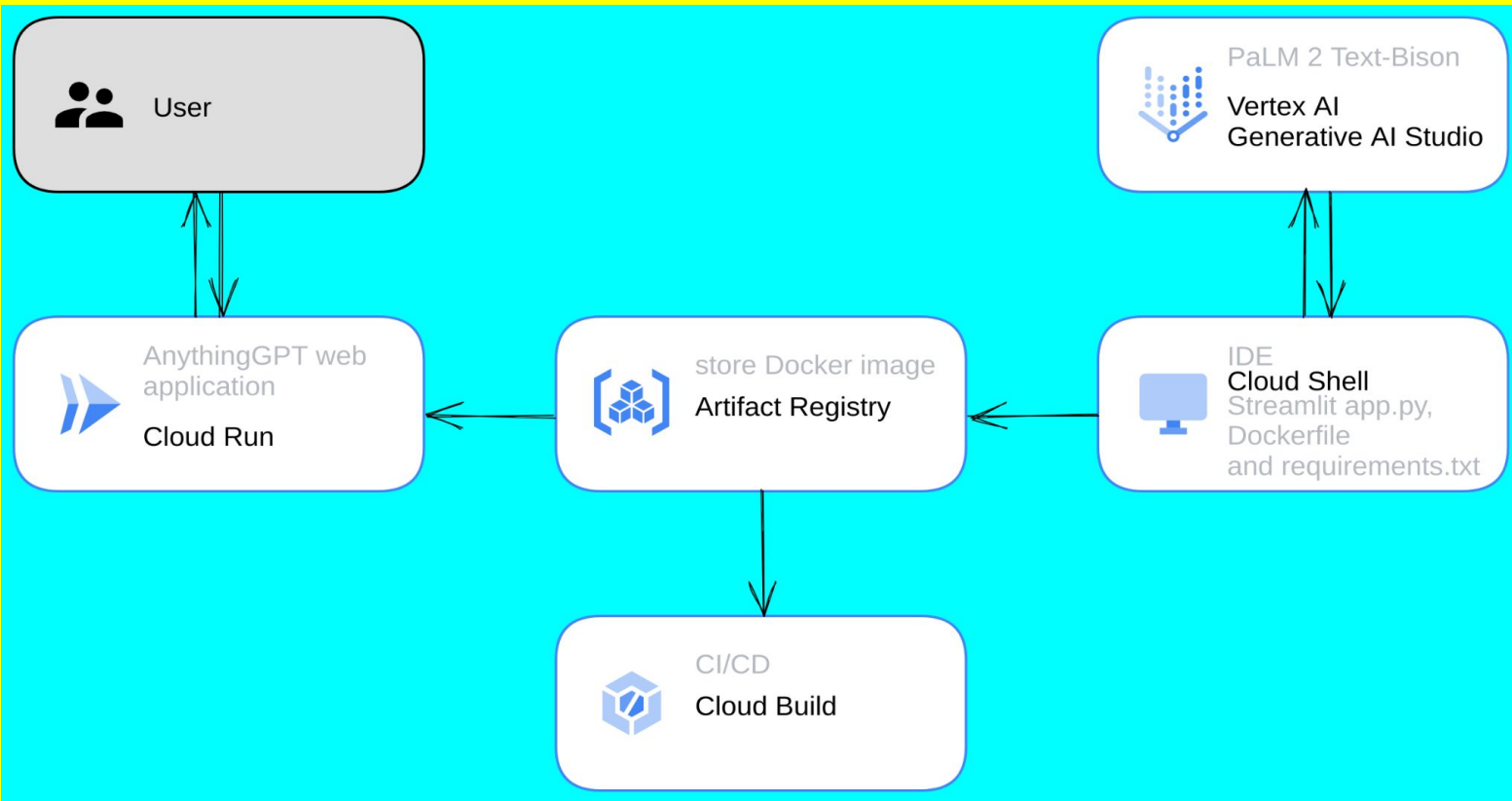
I create GPT application - AnythingGPT. AnythingGPT can share you anything ideas with your prompt. This GPT application is made with Google Cloud. I use Google Cloud services - **Vertex AI Generative AI Studio**, Cloud Shell Editor, Cloud Build, Artifact Registry and Cloud Run.

Vertex AI Generative AI Studio for the first time tried to use this services, testing with prompt engineering such as temperature, token limit, top-K and top-P then choose PaLM 2 Text-Bison pretrained-model.

Cloud Shell Editor for IDE and terminal in Google Cloud. Cloud Build for CI/CD. Artifact Registry for storing Docker images that can be integrated with Cloud Run. Cloud Run for deploying Docker image to application. This GPT application also uses Streamlit for Python code.

AnythingGPT

Architecture



This architecture made with Google Cloud Architecture Diagramming Tool

AnythingGPT

Explain

Cloud Shell Editor - streamlit settings, app.py (Streamlit), Dockerfile, logo.png and requirements.txt



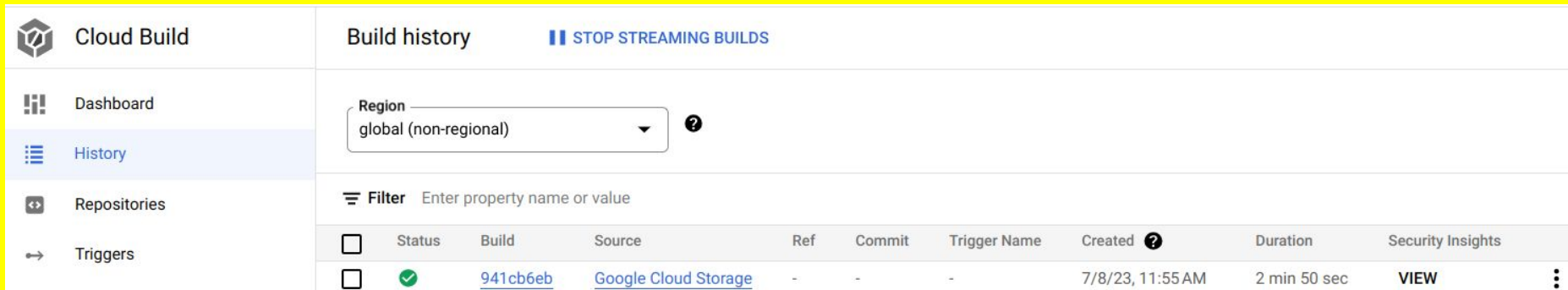
CI/CD use Cloud Build with command `gcloud builds submit --tag us-central1-docker.pkg.dev/atlasxgcp/anythinggpt/anythinggpt` and store Docker image to Artifact Registry

```
ID: 941cb6eb-5c93-4acf-b0f0-13364920e55f
CREATE_TIME: 2023-07-08T04:55:34+00:00
DURATION: 2M50S
SOURCE: gs://atlasxgcp_cloudbuild/source/1688792132.706562-30540b8a3a154a28a47e7e62e16a4569.tgz
IMAGES: us-central1-docker.pkg.dev/atlasxgcp/anythinggpt/anythinggpt (+1 more)
STATUS: SUCCESS
```

AnythingGPT

Explain

Cloud Build history



The screenshot shows the Google Cloud Build interface. On the left is a navigation menu with 'History' selected. The main area is titled 'Build history' and includes a 'STOP STREAMING BUILDS' button. A 'Region' dropdown menu is set to 'global (non-regional)'. Below this is a 'Filter' input field. A table displays the build history with columns for Status, Build ID, Source, Ref, Commit, Trigger Name, Created, Duration, and Security Insights. One build is listed with a green checkmark, ID '941cb6eb', and source 'Google Cloud Storage'.

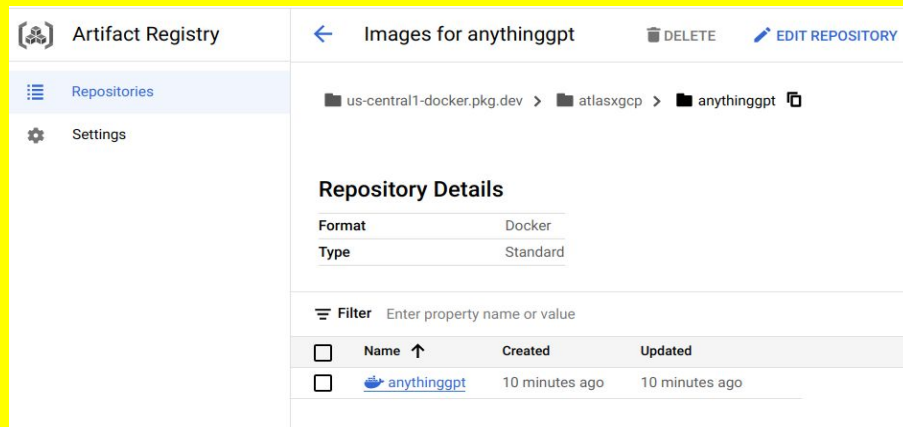
Status	Build	Source	Ref	Commit	Trigger Name	Created	Duration	Security Insights
<input checked="" type="checkbox"/>	941cb6eb	Google Cloud Storage	-	-	-	7/8/23, 11:55 AM	2 min 50 sec	VIEW

Docker image location - us-central1

Project id - atlasxgcp

Artifact Registry repository name - anythinggpt

Docker image name - anythinggpt



The screenshot shows the Google Artifact Registry interface for a repository named 'anythinggpt'. The breadcrumb path is 'us-central1-docker.pkg.dev > atlasxgcp > anythinggpt'. The 'Repository Details' section shows 'Format: Docker' and 'Type: Standard'. Below is a table of repository entries with columns for Name, Created, and Updated. One entry is listed with the name 'anythinggpt', created 10 minutes ago, and updated 10 minutes ago.

Name	Created	Updated
anythinggpt	10 minutes ago	10 minutes ago

AnythingGPT

Explain

Artifact Registry - Docker image with tag latest. This Docker image can be deploy to Cloud Run, GKE (Google Kubernetes Engine) or GCE (Google Compute Engine).

The screenshot shows the Artifact Registry interface. On the left, there is a sidebar with 'Artifact Registry', 'Repositories', and 'Settings'. The main area displays the path 'us-central1-docker.pkg.dev > atlasxgcp > anythinggpt > anythinggpt'. Below this is a table of digests with columns for Name, Description, Tags, Created, and Updated. A dropdown menu is open for the digest 'cbfd0a2fb71a', showing options: 'Show pull command', 'Edit tags', 'Deploy to Cloud Run', 'Deploy to GKE', and 'Deploy to GCE'.

<input type="checkbox"/>	Name	Description	Tags	Created	Updated ↓	
<input type="checkbox"/>	cbfd0a2fb71a		latest	10 minutes ago	10 minutes ago	<ul style="list-style-type: none">Show pull commandEdit tagsDeploy to Cloud RunDeploy to GKEDeploy to GCE

AnythingGPT

Explain

Deploy
Docker image
from Artifact
Registry to
Cloud Run

Cloud Run < Create service

A service exposes a unique endpoint and automatically scales the underlying infrastructure to handle incoming requests. Service name and region cannot be changed later.

Deploy one revision from an existing container image

Container image URL
us-central1-docker.pkg.dev/atlasxgcp/anythinggpt/anythinggpt.latest [SELECT](#)

[TEST WITH A SAMPLE CONTAINER](#)
Should listen for HTTP requests on \$PORT and not rely on local state. [How to build a container?](#)

Continuously deploy new revisions from a source repository

Service name *
anythinggpt

Region *
us-central1 (Iowa) [How to pick a region?](#)

CPU allocation and pricing

CPU is only allocated during request processing
You are charged per request and only when the container instance processes a request.

CPU is always allocated
You are charged for the entire lifecycle of the container instance.

Autoscaling

Minimum number of instances *
0
Set to 1 to reduce cold starts. [Learn more](#)

Maximum number of instances *
1
Revisions using a maximum number of instances of 3 or less might experience unexpected downtime.

Ingress control

Internal
Allow traffic from VPCs and certain Google Cloud services in your project, Shared VPC, regional internal Application Load Balancers, and traffic allowed by VPC service controls. [Learn more](#)

All
Allow direct access to your service from the internet

Authentication *

Allow unauthenticated invocations
Check this if you are creating a public API or website.

Require authentication
Manage authorized users with Cloud IAM.

Container, Networking, Security

[CREATE](#) [CANCEL](#)

AnythingGPT

Explain

The screenshot shows the Google Cloud Run console interface. At the top, there are navigation links for 'Cloud Run', 'Service details', 'EDIT & DEPLOY NEW REVISION', and 'SET UP CONTINUOUS DEPLOYMENT'. Below this, the service name 'anythinggpt' is displayed with a green checkmark, along with the region 'us-central1' and the URL 'https://anythinggpt-ipsdaav3pa-uc.a.run.app'. A horizontal menu contains tabs for 'METRICS', 'SLOS', 'LOGS', 'REVISIONS' (which is selected), 'NETWORKING', 'SECURITY', 'TRIGGERS', 'INTEGRATIONS', 'PREVIEW', and 'YAML'. Under the 'REVISIONS' tab, there is a 'Revisions' section with a 'MANAGE TRAFFIC' link. A table lists the revisions, with one entry for 'anythinggpt-00001-h65' showing 100% traffic and a deployment time of 2 minutes ago. To the right of the table, there is a detailed view for the selected revision 'anythinggpt-00001-h65', including a 'Deployed by' field and a sub-menu with tabs for 'CONTAINERS', 'VOLUMES', 'NETWORKING', 'SECURITY', and 'YAML'.

Cloud Run

Service details

EDIT & DEPLOY NEW REVISION

SET UP CONTINUOUS DEPLOYMENT

anythinggpt

Region: us-central1

URL: <https://anythinggpt-ipsdaav3pa-uc.a.run.app>

METRICS SLOS LOGS REVISIONS NETWORKING SECURITY TRIGGERS INTEGRATIONS PREVIEW YAML

Revisions

MANAGE TRAFFIC

Filter Filter revisions

Name	Traffic	Deployed ↓	Revision URLs (tags) ?	Actions
anythinggpt-00001-h65	100% (to latest)	2 minutes ago	+	⋮

anythinggpt-00001-h65

Deployed by aonkimon@gmail.com using Cloud Console

CONTAINERS VOLUMES NETWORKING SECURITY YAML

General

Cloud Run already have URL. Click URL and automatically open to new tab. AnythingGPT are is now available.

AnythingGPT

Explain

The screenshot shows a web browser window with the address bar displaying "anythinggpt-ipsdaav3pa-uc.a.run.app". The browser's Incognito mode is active. On the left side of the page, there is a sidebar with the "AnythingGPT" logo. The main content area has a light blue background and contains the following elements:

- Navigation links: "AnythingGPT" (underlined) and "AnythingGPT FAQ".
- Introductory text: "AnythingGPT are is GPT application that you need such as writing, marketing, ask anything and many more."
- Input prompt: "What do you want to ask?"
- Input field: A text box containing the query "Who is Sundar Pichai?".
- Submit button: A button labeled "Submit".
- Answer section: A box with the heading "See answer" and an upward arrow icon. The text below reads:

Sundar Pichai is an Indian-American business executive. He is the chief executive officer (CEO) of Alphabet Inc., a multinational conglomerate holding company and the parent company of Google.

Pichai was born in Madurai, Tamil Nadu, India. He studied metallurgical engineering at the Indian Institute of Technology Kharagpur, and earned an MBA from the Wharton School of the University of Pennsylvania.

Pichai began his career at Google in 2004. He held various leadership positions at the company, including vice president of product management for Google Search and vice president of engineering for Google Chrome. In 2015, he was appointed CEO of Google.

Pichai is credited with leading Google's growth into a global technology giant. He has also been praised for his focus on artificial intelligence and machine learning.

Pichai is married and has two children. He lives in Mountain View, California.

*Thank
you!*