Practice Lab 3: Deployment – gcloud Commands

Objective: Test your understanding of dockerization, building and deploying commands using `gcloud`. Complete each task by writing the correct `gcloud` CLI command.

Instructions

1. For each of the tasks below, write the appropriate `gcloud` command
2. If the command produces output in the terminal, include it in the `terminal_output` field.
3. If the command has **no terminal output**, set `"terminal_output"` to `null`.
4. Save all your answers as an **array of JSON objects**, each having:
   - `"task"`: a brief description of the task as given below
   - `"command"`: your gcloud command
   - `"terminal_output"`: actual output or `null`
5. Place the JSON file inside a `.zip` file and upload it as your final submission.
6. Name the submission zip as `<student_ID>_app_run.zip`

Tasks

1. Enable `kaniko` configuration or building.
2. Build docker image of app using cloud build
3. Deploy flask app with all the configurations
4. Add IAM policy binding for cloud SQL
5. Deployed app URL

Sample Code for reference

```
[
  {
    "task": "Command to setup the project",
    "command": "gcloud config set project [project_id]",
    "terminal_output": "Project set to [project_id]"
  },
  {
    "task": "List all storage buckets",
    "command": "<Your command here>",
    "terminal_output": "<your terminal output here>" OR "null"
  },
]
```

Note: Use escape characters or single quotes where there are quotes in the commands.
e.g. `"` to be replaced by `\"` or `'` within the command

Submission Form Link: https://forms.gle/yPQNgeKhnpsjWu698
Deadline: May 10th 2025

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