

## Annex B: Optional Infrastructure needs

### 1. Devices

- a. All participants use their own devices

### 2. Resources Provided

- a. Participants can choose to use AI tools (e.g. Claude.AI, ChatGPT) they are already familiar with to create their solutions.
- b. If you do not have access or are unfamiliar with these types of resources, please see the information below to see what resources will be made available for participants.
- c. To facilitate the development of live applications, each team will be provided with the following resources:
  - LLM API keys: Google's Gemini, AI Studio & OpenAI's ChatGPT -4o (7 days)  
*\*\* Need to provide a link to access ChatGPT -4o, license for access for 7 days? \*\**  
<https://www.merge.dev/blog/chatgpt-api-key>
  - Ubuntu VM with 2 core CPU, 15 GB SSD and 2 GB RAM These resources are designed to support the technical implementation of the solutions and ensure that each team has the necessary tools to bring their ideas to life.
  - Access will be provided to the GCP if the wish is to host the solution on the cloud. You will have access to GCP if you wish to host your solution on the cloud. You will have free google cloud credits worth \$300. You will not be charged up to the threshold of \$300 maximum, which will be valid for a duration of 3 months.
  - Please note the following:
    - ◇ You will need to use an email address which has NOT yet had a free trial with Google Cloud Services.
    - ◇ When setting up a GCP (Google Cloud) account, you WILL BE REQUIRED to verify using a Credit or Debit Card. You will NOT be charged; this is for verification.
    - ◇ You will have free cloud credits worth \$300.

### 3. Instructions for Google Cloud Account

- a. GUIDELINES BY GOOGLE
  - How to create account at GCP and receive the credits.
  - ◇ Participants can create a new account by following this link and clicking "Create Account": <https://console.cloud.google.com>.
  - ◇ To receive the credits, the account needs to be created with an email address which has not yet had a free trial.
- b. What is included in the free trial?
  - Google Cloud comes with 300\$ free trial credits (valid for 90 days) which can be redeemed on any Google Cloud service.
  - First time users also get 1000\$ credits for Vertex AI Agent Builder, with which users can build Generative AI apps - <https://cloud.google.com/products/agent-builder>.

- Google Cloud also comes with a free tier, which does not expire. This includes some computing resources, storage, etc. The full list of free tier products and limits are listed here: <https://cloud.google.com/free>.

#### 4. Email (Queries)

- a. Email Queries to Jim Deely at [jdeely@itag.ie](mailto:jdeely@itag.ie)

#### 5. Google AI Studio

- a. Participants can also access the Gemini API in Google AI Studio free of charge, see here: <https://ai.google.dev/pricing>.

#### 6. VM Creation

- a. You will find a useful step by step guide to creating a Compute Engine VM and how to start using it here: <https://cloud.google.com/compute/docs/instances/create-start-instance>
- b. . There is also a 5min video which explains this very well: <https://youtu.be/jVPPQ8jCFrE>.

#### 7. API Keys – if needed from AI Studio

- a. Participants can access Google AI Studio free of charge with their Google Cloud account here: <https://aistudio.google.com>.
- b. The API key can be created here: <https://aistudio.google.com/app/u/1/apikey>.
- c. This quick start guides for AI Studio: [AI Studio QuickStart](#)
- d. .Note on Setup:
  - If you are new to Google Cloud, it will take approx. 15 - 30 minutes to set up your account and have access to the Gemini API.