### ****Step 1: Create a New Google Cloud Project****

1. **Go to the GCP Console:**
   * Navigate to the Google Cloud Console.
2. **Select or Create a New Project:**
   * In the top-left corner, click on the project selector drop-down.
   * Click on **New Project**.
   * Give your project a name (e.g., wazuh-deployment) and select your **Billing Account** (if you already have one).
   * Optionally, choose a location for the project, then click **Create**.
3. **Enable Billing for the Project:**
   * After the project is created, navigate to the Billing Page to ensure that billing is enabled for the project.
   * If prompted, choose the **Free Tier** option, if available.

### ****Step 2: Enable the Required APIs****

1. **Enable Compute Engine API:**
   * In the GCP Console, navigate to the API & Services > Library.
   * Search for **Compute Engine API**.
   * Click on it, and then click **Enable**.
2. **Enable Identity and Access Management (IAM) API:**
   * Similarly, search for **IAM API**.
   * Click on it, and then click **Enable**.
3. **Enable Cloud Resource Manager API:**
   * Search for **Cloud Resource Manager API**.
   * Click on it, and then click **Enable**.

### ****Step 3: Create a Service Account****

1. **Navigate to the IAM & Admin Section:**
   * Go to the IAM & Admin > Service Accounts.
   * Make sure your newly created project is selected.
2. **Create a New Service Account:**
   * Click **+ CREATE SERVICE ACCOUNT**.
   * Give the service account a name (e.g., terraform-sa) and an optional description.
   * Click **Create and Continue**.
3. **Grant Permissions to the Service Account:**
   * In the "Grant this service account access to project" step, you’ll need to assign the appropriate roles to allow Terraform to manage resources in your GCP project.
     + Add the following roles:
       - **Editor** (provides full access to all resources)
       - **Viewer** (provides read-only access to resources)
       - **Service Account User** (allows the service account to act as other service accounts)
   * Click **Continue**.
4. **Skip the User Permissions:**
   * Click **Done** after the permissions are assigned (no need to grant users access to this service account).

### ****Step 4: Create and Download a Service Account Key****

1. **Select the Newly Created Service Account:**
   * Find the service account you just created (e.g., terraform-sa) in the list of service accounts.
   * Click on it.
2. **Create a Key for the Service Account:**
   * In the service account details page, click the **Keys** tab.
   * Click **ADD KEY** > **Create new key**.
   * Choose **JSON** format and click **Create**.
   * The JSON key file will be automatically downloaded to your computer. This file contains the credentials that Terraform will use to interact with your GCP project.

**Important:** Store this key file securely, as it provides access to your GCP project.

### ****Step 5: Use the Service Account Key in Terraform****

Now that you have the service account JSON key, you can configure Terraform to use it:

1. **Move the JSON Key File:**
   * Place the downloaded JSON key file in a secure directory, for example:

/path/to/your/credentials.json