

Detail which roles should apply and the steps they applied in the IAM GCP Console.

In the IAM (Identity and Access Management) GCP (Google Cloud Platform) console, there are several roles that can be applied and multiple steps that can be taken to manage access to GCP resources. Here's a brief summary of the most relevant roles:

Roles:

- a. **Owner** - This role provides full control over all GCP resources and services. The owner can manage IAM policies, billing, and resource usage, among other things.
- b. **Editor** - This role can modify and delete most GCP resources but cannot manage access to resources or assign roles.
- c. **Viewer** - This role can view GCP resources but cannot modify or delete them.
- d. **Billing Account Administrator** - This role can manage billing accounts and make purchases.
- e. **Security Reviewer** - This role can view the security state of GCP resources and services.
- f. **Security Admin** - This role can manage the security state of GCP resources and services.

Steps to assign a role

- a. Creating a new IAM role - In the IAM console, click on "Roles" and then "Create Role". Fill out the necessary fields, such as the name of the role and its permissions.
- b. Assigning roles - To assign a role to a user, click on "IAM" in the console and select the project or resource you want to manage. Click on "Add" and then enter the email address of the user you want to assign a role to. Select the role you want to assign and click "Save".
- c. Revoking roles - To revoke a role, click on "IAM" in the console and select the project or resource you want to manage. Click on the user whose role you want to revoke and then click on the "X" next to the role you want to revoke.

Personally, DevOps should have sufficient permissions to be able to create new resources, manage them and also assign permissions to other users.

In the case of the Finance staff, there is the role of Billing Account, which would be sufficient for the role they should play.

As already mentioned and as advised in several documentations, the minimum level of access to the resources needed to perform a given task should be granted.