Course 3_Lab 1: Create a role in Google Cloud IAM

Scenario

As part of its migration plan, Cymbal Bank is incrementally deploying its workflows to the cloud. One of these deployments includes a database which stores sensitive customer billing and invoice data. Before this database can be deployed, it needs to go through a comprehensive third-party audit. The auditors need access to this database to complete this audit. They need to be granted the appropriate permissions necessary to complete their job. Your team lead, Chloe, has tasked you with leveraging IAM to implement access control to this database for the audit group.

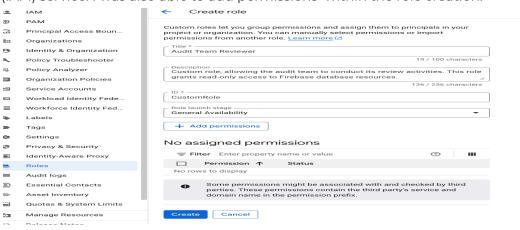
Here's how you'll do this task: First, you'll create a role and assign the required permissions. Next, you'll assign the new role you have created to a user. Finally, you'll verify that the role you created has been granted.

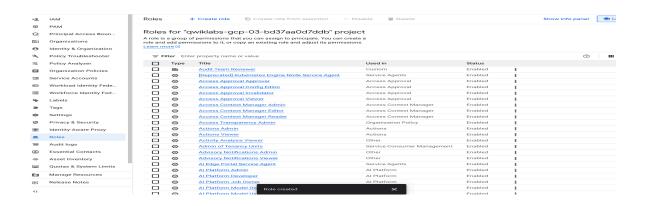
Activity: In this lab, you'll learn how to create and manage Identity and Access Management (IAM) custom roles.

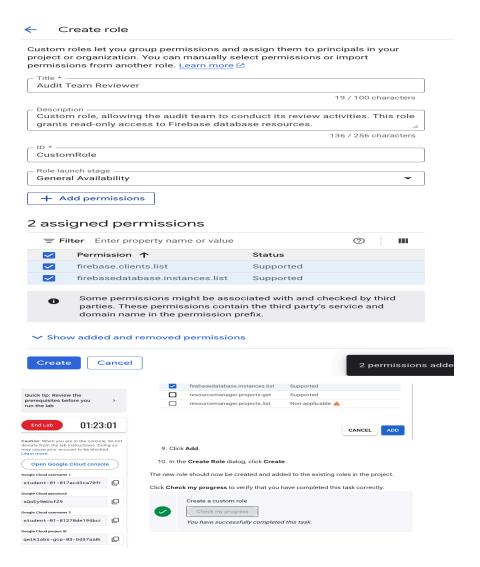
MY WORK:

Task 1: Create a Custom Role & add permissions

In this task, I was able to create a custom role using the Identity and Access Management (IAM) service. I was also able to add permissions within the role creation.

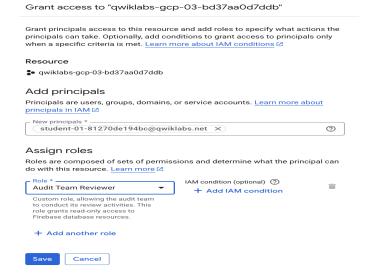


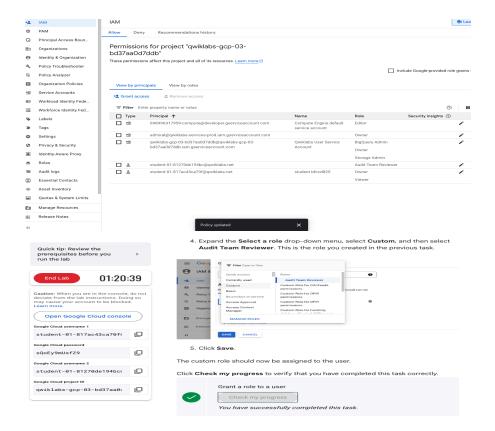




Task 2: Grant a role to a user

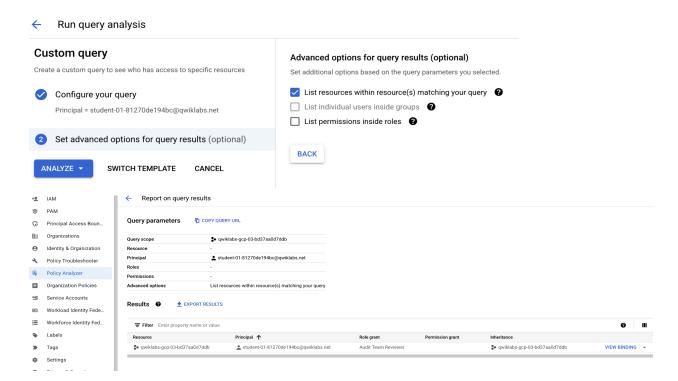
For this task, I was able to grant the role created in the first task to a user account.

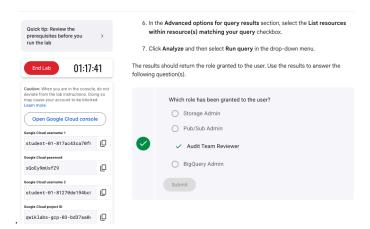




Task 3: Verify the Role

Using The Policy Analyzer tool in the Google Cloud Platform, I was able to verify that the role was created, by running a custom query.





My Assessment:

Overall, this lab did not present any tasks or steps that were impossible or presented any level of confusion. The lab emphasized the importance of concepts such as least privilege, access based controls, specifically RBAC (role-based access control), while providing hands-on learning with Google Services such as IAM, Policy Analyzer, creating permissions and roles. Understanding the difference between the different role launch stages when creating a role and why General Availability is important was helpful.