

Exercise: Verifying roles assigned to identities

In this exercise, you will:

- Navigate to the IAM console page
- View permissions
- View roles

Navigate to the IAM console page as shown in Figure 1.

The screenshot shows the Google Cloud IAM console interface. On the left is a navigation sidebar with 'IAM & Admin' selected. The main content area is titled 'IAM' and shows 'Permissions for project "My First Project"'. Below this, there's a table of permissions. The table has columns for 'Type', 'Principal', 'Name', 'Role', 'Security insights', and 'Inheritance'. The table lists several service accounts and a user, each with their assigned roles. A filter bar is at the top of the table, and there are tabs for 'VIEW BY PRINCIPALS' and 'VIEW BY ROLES'.

Type	Principal	Name	Role	Security insights	Inheritance
<input type="checkbox"/>	637591393166-compute@developer.gserviceaccount.com	Compute Engine default service account	Editor		
<input type="checkbox"/>	637591393166@cloudbuild.gserviceaccount.com		Cloud Build Service Account		
<input type="checkbox"/>	637591393166@cloudservices.gserviceaccount.com	Google APIs Service Agent	Editor		
<input type="checkbox"/>	gce.training.jan2023@gmail.com	Dan Sullivan	Owner		
<input type="checkbox"/>	radiant-anchor-373718@appspot.gserviceaccount.com	App Engine default service account	Owner Storage Admin		

Figure 1. IAM console page.

Click on View by Roles to display a form like that in Figure 2.

Permissions for project "My First Project"

These permissions affect this project and all of its resources. [Learn more](#)

VIEW BY PRINCIPALS

VIEW BY ROLES

 **Filter** Enter property name or value






<input type="checkbox"/>	Role / Principal 	Name	Inheritance
<input type="checkbox"/>	 Cloud Build Service Account (1)		
<input type="checkbox"/>	 Editor (2)		
<input type="checkbox"/>	 Owner (2)		
<input type="checkbox"/>	 Storage Admin (1)		

Figure 2. View by Roles listing.

Click on the dark triangle icon next to Owner to display a listing like in Figure 3.












<input type="checkbox"/>	Role / Principal 	Name	Inheritance
<input type="checkbox"/>	 Cloud Build Service Account (1)		
<input type="checkbox"/>	 Editor (2)		
<input type="checkbox"/>	 Owner (2)		
<input type="checkbox"/>	 gce.training.jan2023@gmail.com	Dan Sullivan	 
<input type="checkbox"/>	 radiant-anchor-373718@appspot.gserviceaccount.com	App Engine default service account	 
<input type="checkbox"/>	 Storage Admin (1)		

Figure 2. Listing of Owner role.

In the IAM navigation menu on the left, click on Roles as shown in Figure 3.

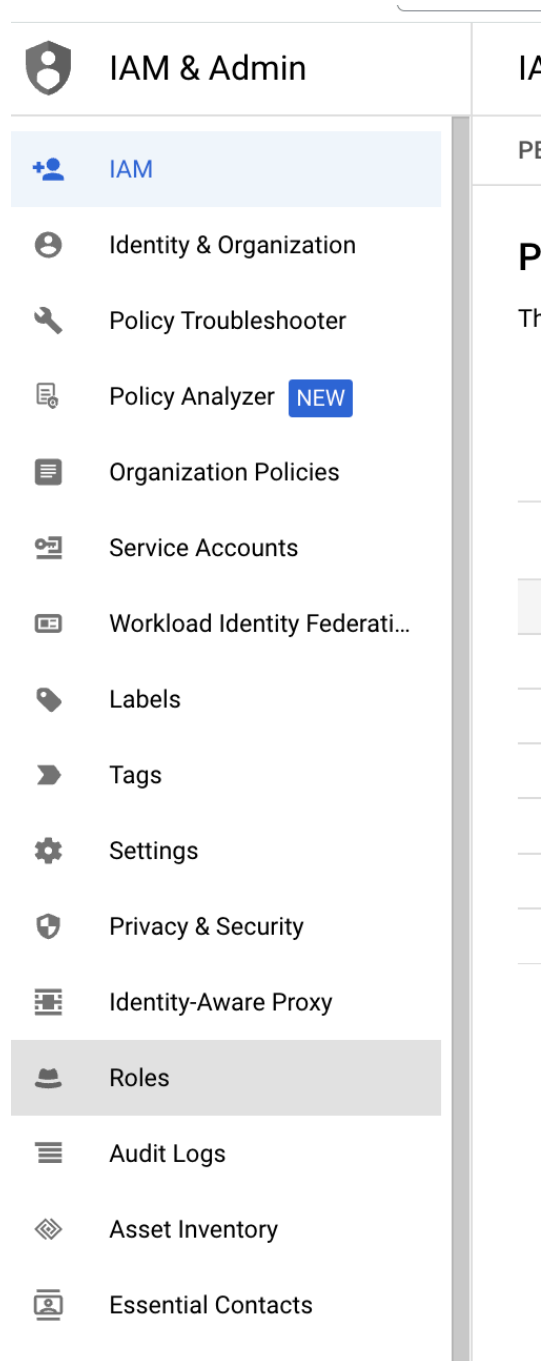


Figure 3. Selecting Roles from navigation menu.

Clicking on Roles will display a listing similar to Figure 4.

Roles for "My First Project" project

A role is a group of permissions that you can assign to principals. You can create a role and add permissions to it, or copy an existing role and adjust its permissions. [Learn more](#)
































 Filter Enter property name or value					
<input type="checkbox"/>	Type	Title	Used in	Status	
<input type="checkbox"/>		AAM Admin	Dialogflow	Enabled	
<input type="checkbox"/>		AAM Conversational Architect	Dialogflow	Enabled	
<input type="checkbox"/>		AAM Dialog Designer	Dialogflow	Enabled	
<input type="checkbox"/>		AAM Lead Dialog Designer	Dialogflow	Enabled	
<input type="checkbox"/>		AAM Viewer	Dialogflow	Enabled	
<input type="checkbox"/>		Access Approval Approver	Access Approval	Enabled	
<input type="checkbox"/>		Access Approval Config Editor	Access Approval	Enabled	
<input type="checkbox"/>		Access Approval Invalidator	Access Approval	Enabled	
<input type="checkbox"/>		Access Approval Viewer	Access Approval	Enabled	
<input type="checkbox"/>		Access Context Manager Admin	Access Context Manager	Enabled	
<input type="checkbox"/>		Access Context Manager Editor	Access Context Manager	Enabled	
<input type="checkbox"/>		Access Context Manager Reader	Access Context Manager	Enabled	
<input type="checkbox"/>		Access Transparency Admin	Organization Policy	Enabled	
<input type="checkbox"/>		Actions Admin	Actions	Enabled	
<input type="checkbox"/>		Actions Viewer	Actions	Enabled	

Figure 4. Listing of Roles

Type Cloud SQL in the filter area to display a list of roles associated with Cloud SQL. (See Figure 5).

Roles for "My First Project" project












A role is a group of permissions that you can assign to principals. You can create a role and add permissions to it, or copy an existing role and adjust its permissions. [Learn more](#)

Filter

cloud sql

✕

Enter property name or value

<input type="checkbox"/>	Type	Title	Used in	Status	
<input type="checkbox"/>		BigQuery Connection Service Agent	Service Agents	Enabled	<div></div>
<input type="checkbox"/>		Cloud SQL Admin	Cloud SQL	Enabled	<div></div>
<input type="checkbox"/>		Cloud SQL Client	Cloud SQL	Enabled	<div></div>
<input type="checkbox"/>		Cloud SQL Editor	Cloud SQL	Enabled	<div></div>
<input type="checkbox"/>		Cloud SQL Instance User	Cloud SQL	Enabled	<div></div>
<input type="checkbox"/>		Cloud SQL Recommender Admin	Recommender	Enabled	<div></div>
<input type="checkbox"/>		Cloud SQL Recommender Viewer	Recommender	Enabled	<div></div>
<input type="checkbox"/>		Cloud SQL Service Agent	Service Agents	Enabled	<div></div>
<input type="checkbox"/>		Cloud SQL Viewer	Cloud SQL	Enabled	<div></div>
<input type="checkbox"/>		Network Analyzer Cloud SQL Recommender Admin	Recommender	Enabled	<div></div>
<input type="checkbox"/>		Network Analyzer Cloud SQL Recommender Viewer	Recommender	Enabled	<div></div>

Rows per page:

Figure 5. Cloud SQL roles

Click on Cloud SQL Editor to see a list of over 70 permissions assigned to the role. (See Figure 6)



ID	roles/cloudsql.editor
Role launch stage	General Availability

Description

Full control of existing Cloud SQL instances excluding modifying users, SSL certificates or deleting resources.

74 assigned permissions

cloudsql.backupRuns.create
cloudsql.backupRuns.get
cloudsql.backupRuns.list
cloudsql.databases.create
cloudsql.databases.get
cloudsql.databases.list
cloudsql.databases.update
cloudsql.instances.addServerCa
cloudsql.instances.connect
cloudsql.instances.export
cloudsql.instances.failover
cloudsql.instances.get
cloudsql.instances.list
cloudsql.instances.listEffectiveTags
cloudsql.instances.listServerCas
cloudsql.instances.listTagBindings
cloudsql.instances.restart
cloudsql.instances.rotateServerCa
cloudsql.instances.truncateLog
cloudsql.instances.update
cloudsql.sslCerts.get
cloudsql.sslCerts.list
cloudsql.users.get
cloudsql.users.list
recommender.cloudsqlIdleInstanceRecommendations.get
recommender.cloudsqlIdleInstanceRecommendations.list
recommender.cloudsqlIdleInstanceRecommendations.update
recommender.cloudsqlInstanceActivityInsights.get

Figure 6. Partial listing of permissions assigned to the Cloud SQL Editor role.

View other roles to see the different sets of permissions assigned to them.