

```
rania_amoubarakk@cloudshell:~ (rania-project-375711)$ gcloud projects list
PROJECT_ID: brave-builder-375711
NAME: My First Project
PROJECT_NUMBER: 381181429647

PROJECT_ID: rania-project-375711
NAME: Rania project
PROJECT_NUMBER: 813478841366
rania_amoubarakk@cloudshell:~ (rania-project-375711)$
```

```
rания_amoubarakk@cloudshell:~ (rania-project-375711)$ gcloud config set project rania-project-375711
Updated property [core/project].
rания_amoubarakk@cloudshell:~ (rania-project-375711)$
```

```
os@os-Lenovo-ideapad-330-15IKB:~$ gcloud projects list
PROJECT_ID          NAME            PROJECT_NUMBER
brave-builder-375711  My First Project  381181429647
r@gn rania-project-375711  Rania project  813478841366
os@os-Lenovo-ideapad-330-15IKB:~$ gcloud config set project rania-project-375711
Updated property [core/project].
os@os-Lenovo-ideapad-330-15IKB:~$
```

IAM    [+GRANT ACCESS](#)    [REMOVE ACCESS](#)

[PERMISSION](#)    [RECOMMENDATIONS](#) [HISTORY](#)

### Permissions for project Rania 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

Type	Principal ↑	Name	Role	Security Insights	Inheritance
<input type="checkbox"/>	 marwaahmed200126@gmail.com		Owner		
<input type="checkbox"/>	 rania.amoubarakk@gmail.com	Rania Ashraf	Owner		

Roles							<a href="#">+ CREATE ROLE</a>	<a href="#">CREATE ROLE FROM SELECTION</a>	<a href="#">— DISABLE</a>	<a href="#">DELETE</a>	<a href="#">HELP ASSISTANT</a>	<a href="#">SHOW INFO PANEL</a>	<a href="#">LEARN</a>																																																																																	
<b>Roles for Rania project project</b>																																																																																														
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. <a href="#">Learn more</a>																																																																																														
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<table border="1"> <thead> <tr> <th>Type</th> <th>Title</th> <th>Used In</th> <th>Status</th> <th>Permissions</th> </tr> </thead> <tbody> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="radio"/> AAM admin</td> <td>Dialogflow</td> <td>Enabled</td> <td><a href="#">dialogflow.agents.export</a> <a href="#">dialogflow.agents.get</a> <a href="#">dialogflow.agents.list</a> <a href="#">dialogflow.agents.search</a></td> <td><input type="button" value="▼"/></td> <td><input type="button" value="⋮"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" type="radio"/> AAM conversational architect</td> <td>Dialogflow</td> <td>Enabled</td> <td><a href="#">dialogflow.agents.export</a> <a href="#">dialogflow.agents.get</a> <a href="#">dialogflow.agents.list</a> <a href="#">dialogflow.agents.search</a></td> <td><input type="button" value="▼"/></td> <td><input type="button" value="⋮"/></td> </tr> <tr> <td><input type="checkbox"/></td> <td><input checked="" 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Service accounts								
+ CREATE SERVICE ACCOUNT		DELETE	MANAGE ACCESS	REFRESH	HELP ASSIST			
Service accounts for project 'Rania project'								
A service account represents a Google Cloud service identity, such as code running on Compute Engine VMs, App Engine apps or systems running outside Google. <a href="#">Learn more about service accounts.</a>								
Organisation policies can be used to secure service accounts and block risky service account features, such as automatic IAM Grants, key creation/upload or the creation of service accounts entirely. <a href="#">Learn more about organisation policies.</a>								
Filter Enter property name or value								
Email	Status	Name	Description	Key ID	Key creation date	OAuth 2 client ID		
<input type="checkbox"/> <a href="#">my-first-serviceaccount@rania-project-375711.iam.gserviceaccount.com</a>	✓	sa	No keys		102573777545448482061	<input type="button" value=""/>		

The screenshot shows the Google Cloud IAM Permissions page for the project "Rania project". The top navigation bar includes links for "IAM", "+ GRANT ACCESS", "- REMOVE ACCESS", "HELP ASSISTANT", and "LEARN". Below the navigation, there are tabs for "PERMISSION" and "RECOMMENDATIONS HISTORY", with "PERMISSION" being the active tab.

The main section is titled "Permissions for project Rania project" and contains the message: "These permissions affect this project and all of its resources. [Learn more](#)". A checkbox labeled "Include Google-provided role grants" is present.

Below this, there are two viewing options: "VIEW BY PRINCIPALS" and "VIEW BY ROLES", with "VIEW BY PRINCIPALS" being selected. A filter input field is available to search for property names or values.

Type	Principal	Name	Role	Security insights	Inheritance
<input type="checkbox"/>		marwaahmed200126@gmail.com		Owner	
<input checked="" type="checkbox"/>		my-first-serviceaccount@rania-project-375711.iam.gserviceaccount.com	sa	my-Custom-Role-1	
<input type="checkbox"/>		rания.amoubarakk@gmail.com	Rania Ashraf	Owner	

```
os@os-Lenovo-ideapad-330-15IKB: ~
```

```
objects/warm-pixel-375711.
```

```
os-Lenovo-ideapad-330-15IKB: $ gcloud projects list
```

OBJECT_ID	NAME	PROJECT_NUMBER
ave-builder-375711	My First Project	381181429647
nia-project-375711	Rania project	813478841366

```
os-Lenovo-ideapad-330-15IKB: $ gcloud iam roles list --project rania-project-375711
```

```
-
```

```
description: 'Created on: 2023-01-24'
```

```
tag: BwXzB7dR1sg=
```

```
name: projects/rania-project-375711/roles/CustomRole
```

```
stage: BETA
```

```
title: my-Custom-Role-1
```

```
s@os-Lenovo-ideapad-330-15IKB: ~$ gcloud iam roles describe roles/compute.viewer
```

```
description: Read-only access to get and list information about all Compute Engine resources, including instances, disks, and firewalls. Allows getting and listing information about disks, images, and snapshots, but does not allow reading the data stored on them.
```

```
etag: AA==
```

```
includedPermissions:
```

- compute.acceleratorTypes.get
- compute.acceleratorTypes.list
- compute.addresses.get
- compute.addresses.list
- compute.autoscalers.get
- compute.autoscalers.list
- compute.backendBuckets.get
- compute.backendBuckets.getIamPolicy
- compute.backendBuckets.list
- compute.backendServices.get
- compute.backendServices.getIamPolicy
- compute.backendServices.list
- compute.commitments.get
- compute.commitments.list
- compute.diskTypes.get
- compute.diskTypes.list
- compute.disks.get
- compute.disks.getIamPolicy
- compute.disks.list
- compute.disks.listEffectiveTags
- compute.disks.listTagBindings
- compute.externalVpnGateways.get
- compute.externalVpnGateways.list
- compute.firewallPolicies.get

```
os@os-Lenovo-ideapad-330-15IKB: ~ $ gcloud iam roles describe CustomRole --project=rania-project-375711
description: 'Created on: 2023-01-24'
etag: BwXzB7dR1sg=
includedPermissions:
- iam.roles.get
- iam.roles.list
name: projects/rania-project-375711/roles/CustomRole
stage: BETA
title: my-Custom-Role-1
os@os-Lenovo-ideapad-330-15IKB: ~ $ gcloud auth list
    Credentialed Accounts
ACTIVE  ACCOUNT
*       rania.amoubarakk@gmail.com

To set the active account, run:
$ gcloud config set account `ACCOUNT`

os@os-Lenovo-ideapad-330-15IKB: ~ $ gcloud auth activate-service-account my-first-serviceaccount@rania-project-375711.iam.gserviceaccount.com --key-file=~/Desktop/keys.json --project=rania-project-375711
Activated service account credentials for: [my-first-serviceaccount@rania-project-375711.iam.gserviceaccount.com]
os@os-Lenovo-ideapad-330-15IKB: ~ $ gcloud auth list
    Credentialed Accounts
ACTIVE  ACCOUNT
*       my-first-serviceaccount@rania-project-375711.iam.gserviceaccount.com
       rania.amoubarakk@gmail.com

To set the active account, run:
$ gcloud config set account `ACCOUNT`
```

```
En       $ gcloud config set account `ACCOUNT`  
Type os@os-Lenovo-ideapad-330-15IKB:~$ gcloud iam roles list --project rania-project-375711  
---  
description: 'Created on: 2023-01-24'  
etag: BwXzB7dR1sg=  
name: projects/rania-project-375711/roles/CustomRole  
stage: BETA  
title: my-Custom-Role-1  
os@os-Lenovo-ideapad-330-15IKB:~$ gcloud iam roles delete CustomRole --project=rania-project-375711  
ERROR: (gcloud.iam.roles.delete) PERMISSION_DENIED: You don't have permission to delete the role at (projects/rania-project-375711  
/roles/CustomRole).  
os@os-Lenovo-ideapad-330-15IKB:~$ gcloud iam roles delete CustomRole --project=rania-project-375711  
deleted: true  
description: 'Created on: 2023-01-24'  
etag: BwXzCLGtzlo=  
includedPermissions:  
- iam.roles.delete  
- iam.roles.get  
- iam.roles.list  
name: projects/rania-project-375711/roles/CustomRole  
stage: BETA  
title: my-Custom-Role-1  
os@os-Lenovo-ideapad-330-15IKB: ~
```

The screenshot shows a terminal window with a dark background and light-colored text. It displays a sequence of GCloud commands related to IAM roles. The first command sets the account configuration. The second command lists existing roles in the project 'rania-project-375711'. The third command attempts to delete a custom role named 'CustomRole', which results in a 'PERMISSION\_DENIED' error because the user lacks the necessary permissions. The fourth command successfully deletes the same role. Below the terminal, a portion of a web-based Google Cloud IAM interface is visible, showing a table with two rows: 'Access Transparency Admin' and 'Actions Admin', both of which are currently enabled.