Most Google Cloud resources expose the `testIamPermissions()` method, which allows you to check whether the currently authenticated caller has been granted one or more specific Cloud IAM permissions on the resource. The `testIamPermissions()` method takes a resource identifier and a set of permissions as input parameters, and returns the set of permissions that the caller is allowed.

For example, to determine if the currently authenticated user has the permission to delete a project, call the `projects.testIamPermissions()` (/resource-manager/reference/rest/v1/projects/testIamPermissions) method by providing the project ID (such as `foo-project`) and the `resourcemanager.projects.delete` permission as input parameters. If the caller has been granted the `resourcemanager.projects.delete` permission, it will be listed in the response body. If the caller does not have this permission, the response body will list no permissions.

The `testIamPermissions()` method is intended for third-party graphical user interfaces (GUIs) that need to display Google Cloud resources based on what the authenticated user has permissions to see. For example, the Cloud Console internally uses the `testIamPermissions()` method to determine what resources and functionality are visible to you after authenticating. Different users are typically granted different permissions, and the Cloud Console hides or exposes items accordingly.

This example shows how to test the `resourcemanager.projects.get` and `resourcemanager.projects.delete` permissions for a Google Cloud project (/resource-manager/reference/rest/v1/projects). To test permissions for other Google Cloud resources, use the `testIamPermissions()` method exposed by each resource. For example, you can test the Cloud IAM permissions for a Cloud Storage bucket (/storage/docs/json_api/v1/buckets/testIamPermissions).

Learn how to grant, change, and revoke access to project members (/iam/docs/granting-changing-revoking-access).