

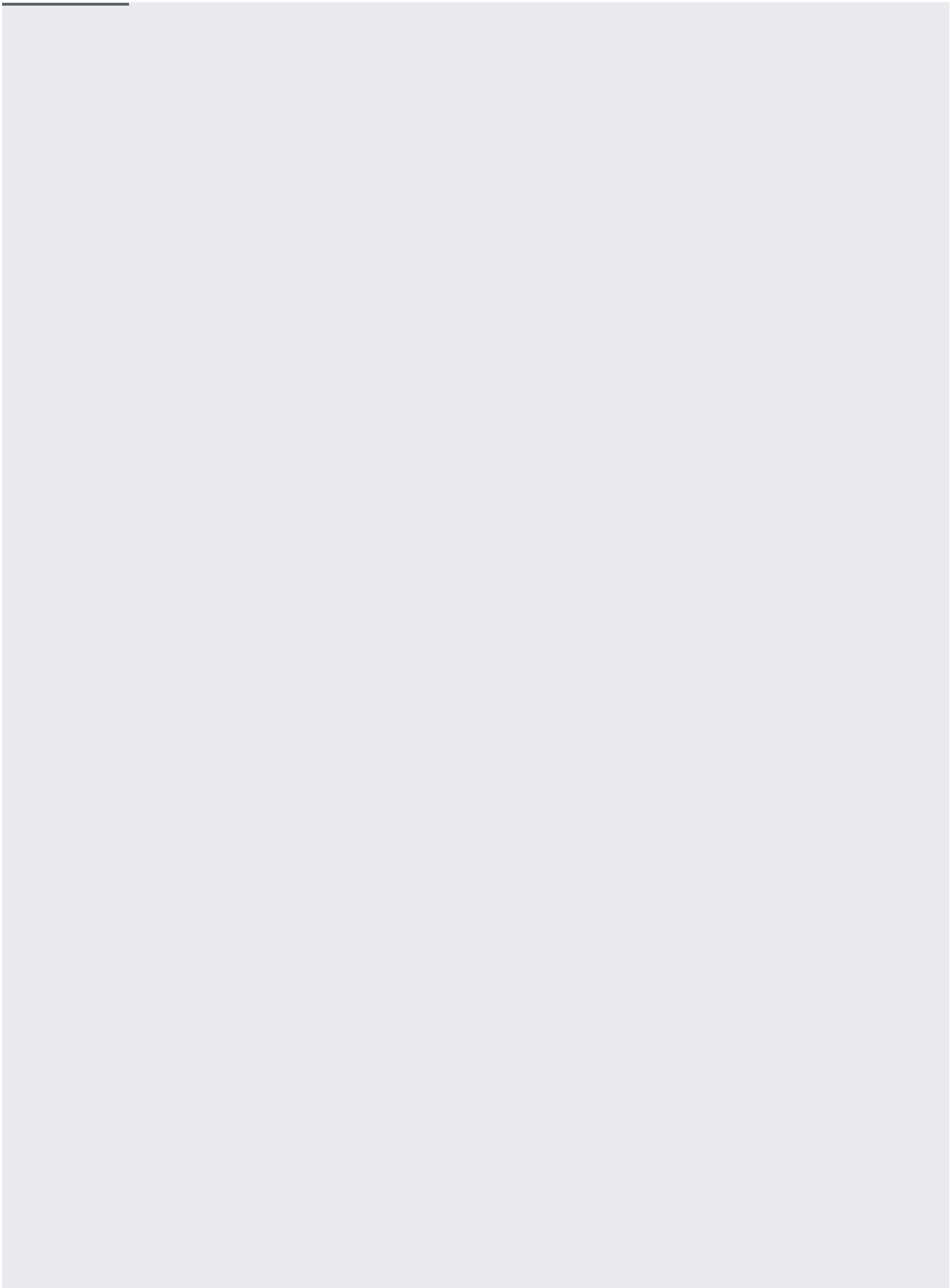
Before you grant an IAM role to a user for a resource, you might want to know what roles are available to grant on a particular resource.

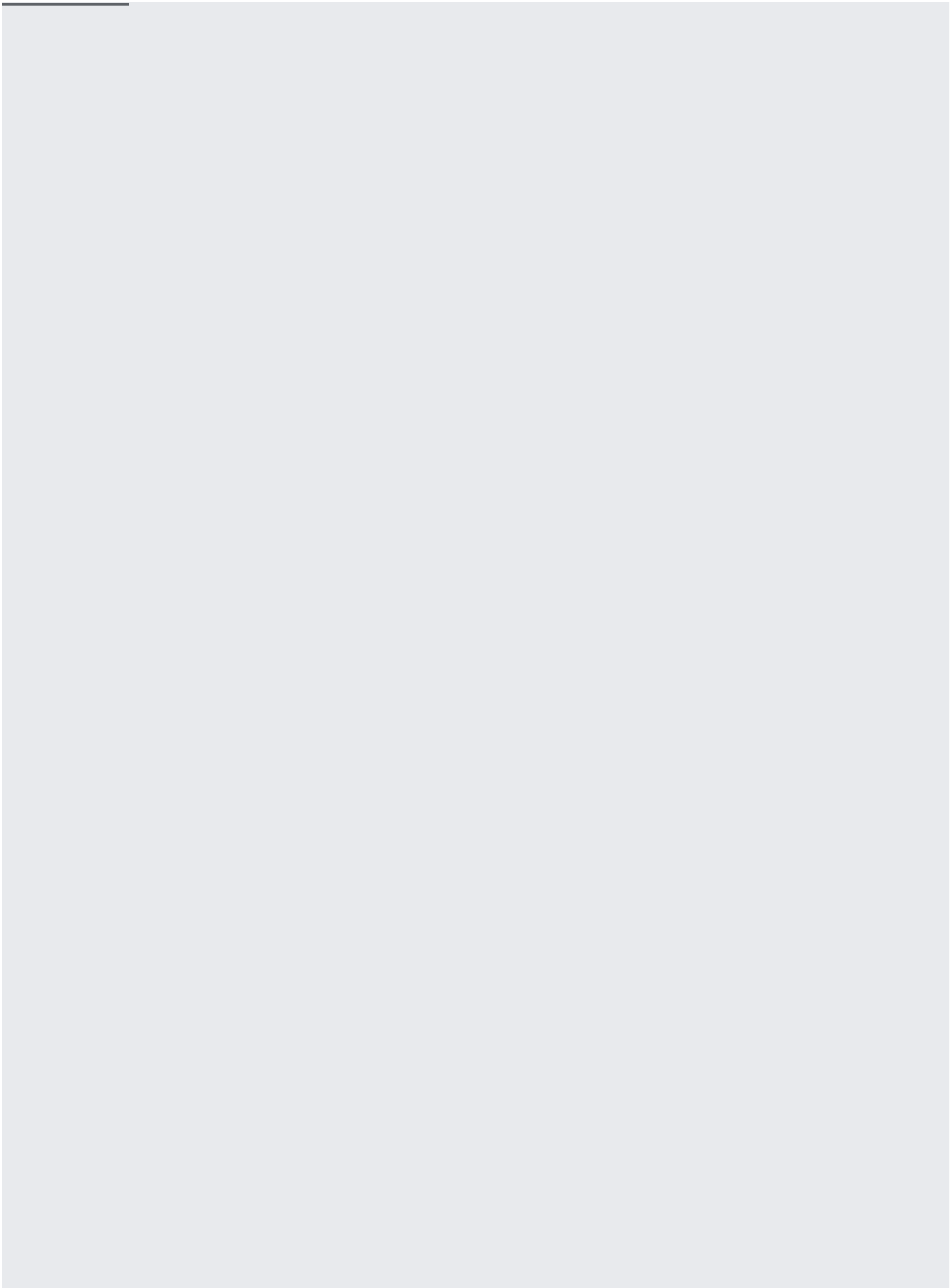
A role is grantable on or above a resource if it contains any permissions for that resource type. For example, the `storage.admin` role grants permissions to the `storage.buckets.get` and `storage.objects.get` APIs, so it is grantable on the *Storage Buckets* and *Storage Objects* resource types.

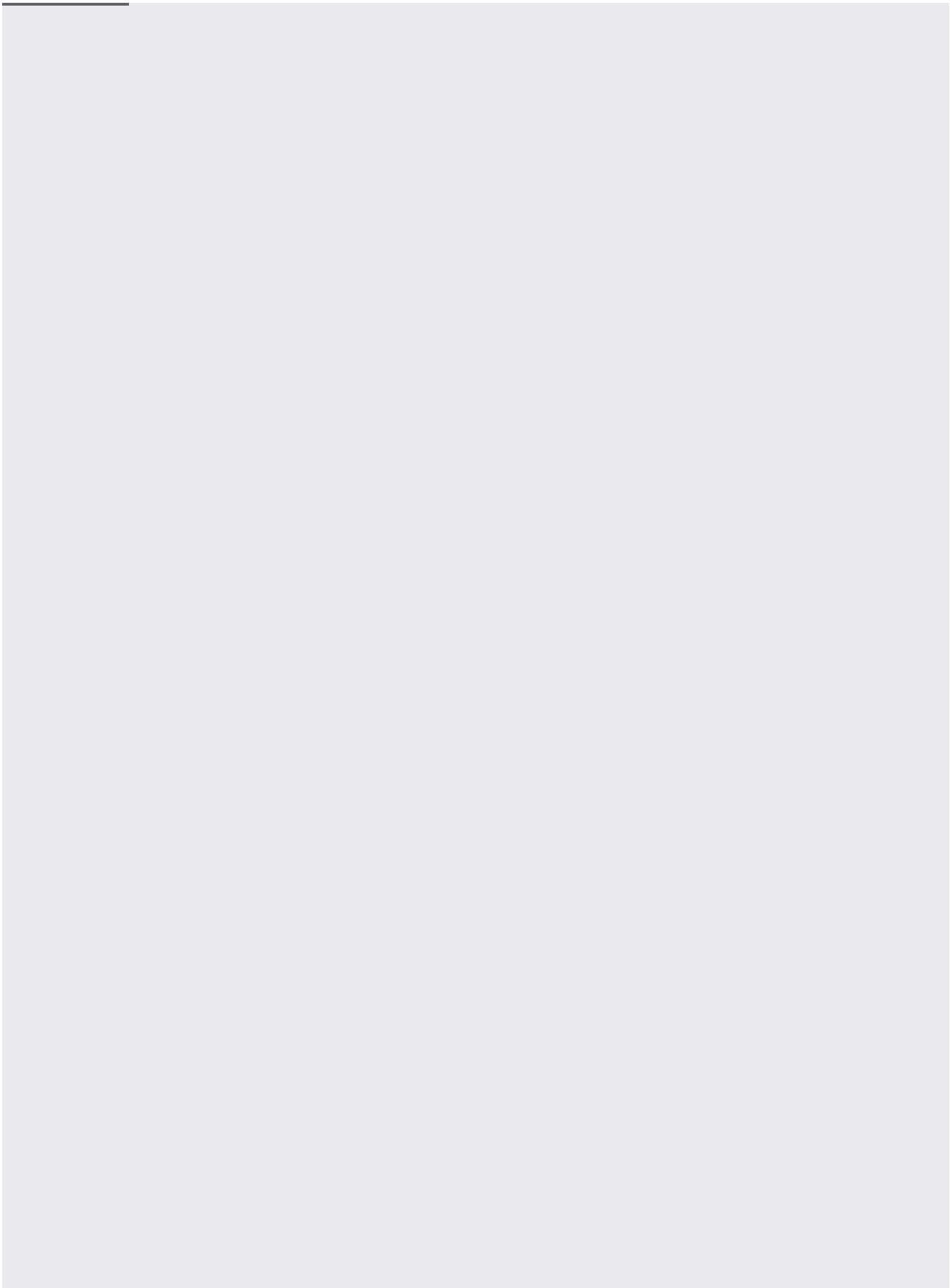
Roles can also be granted "above" the resource types that their permissions are defined for. In other words, roles for lower-level resources can be granted on a resource that is higher in the Google Cloud resource hierarchy. For example, the `storage.admin` role can also be granted at the project or organization levels, in addition to *Storage Buckets*.

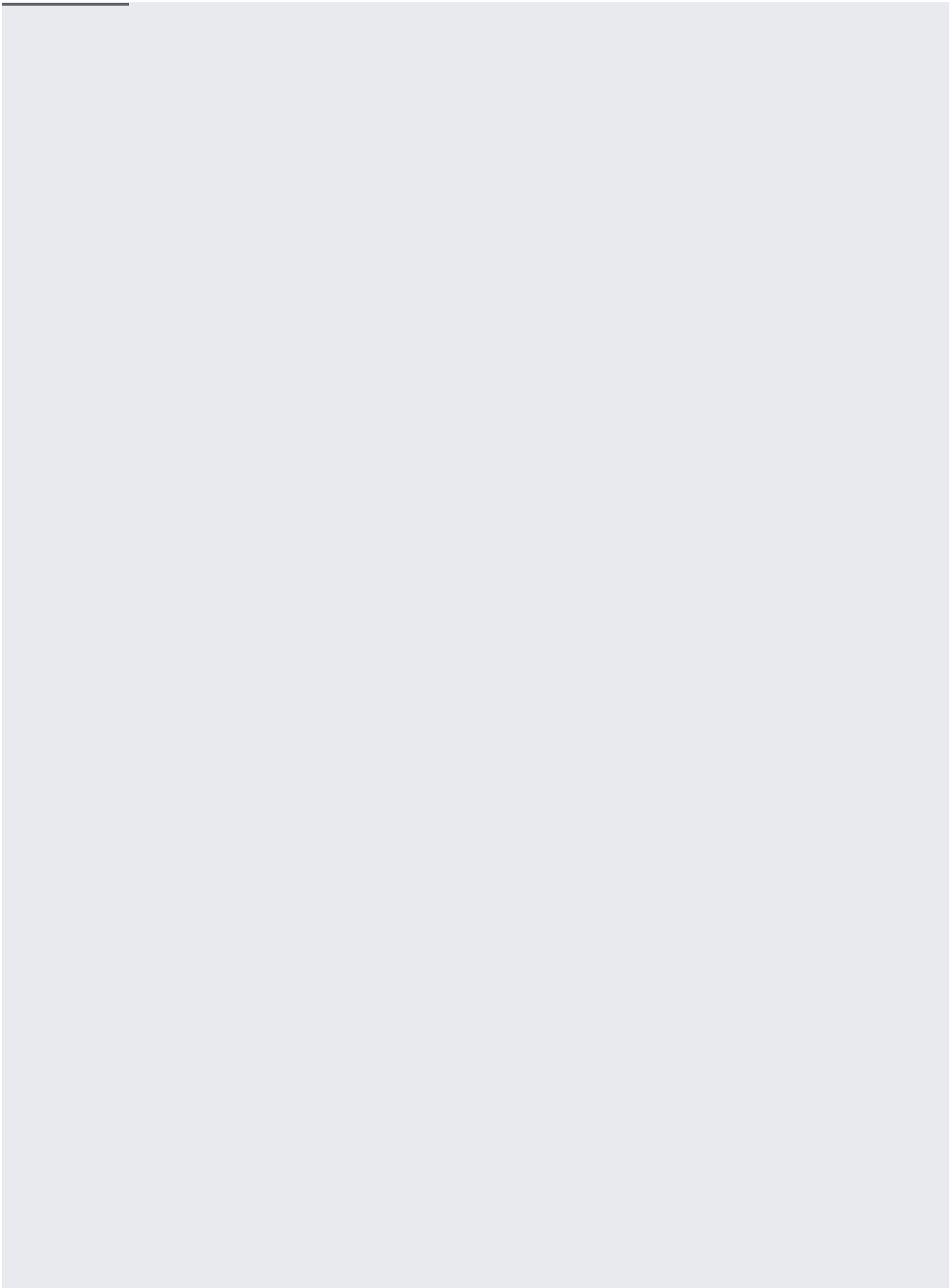
Permissions granted by a role only affect resources at the specified level or below; they do not affect higher-level or peer resources. Additionally, when a role is granted on a resource, only permissions applicable to the given resource are granted, regardless of the role's name, description, or other permissions it contains. For example, assigning the role `resourceManager.organizationAdmin` (which grants the permission `resourceManager.projects.list`) to a user on the project level only grants them permissions for that specific project. It will **not** allow them to list or administer all projects in the organization. Similarly, assigning the `compute.admin` role on a specific Compute Engine instance only grants permissions for that instance, not others in the project.

Before you list grantable roles, ensure that the service has been enabled (`/service-usage/docs/enable-disable#enabling`) in the project. If a service hasn't been enabled, its roles will not be returned.









In the examples above, the *full resource name* is a scheme-less URI consisting of a DNS-compatible API service name and a resource path.

For example, to return all roles grantable on a project, use:

Lower-level resources have a more detailed fully qualified name. For example, use the following to return all roles grantable on a Compute Engine instance:

- Read about the available [Cloud IAM roles](/iam/docs/understanding-roles) (/iam/docs/understanding-roles).
- Learn how to [grant, change, and revoke a member's access](/iam/docs/granting-changing-revoking-access) (/iam/docs/granting-changing-revoking-access).
- See [examples of resource names](/iam/docs/resource-names) (/iam/docs/resource-names) for different types of resources.