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Controllo degli accessi per le API Cloud Billing

Google Cloud offre Identity and Access Management (IAM) (<https://cloud.google.com/iam?hl=it>), che ti consente di concedere l'accesso a risorse Google Cloud specifiche, ma non ad altre. IAM ti consente di adottare il principio di sicurezza del privilegio minimo, in modo da concedere solo il livello di accesso necessario per le tue risorse.

IAM ti consente di controllare **chi (utenti)** ha **quale accesso (ruoli)** a **quali risorse** impostando i criteri di autorizzazione IAM. I criteri di autorizzazione assegnano ruoli specifici a un utente, che ottiene le autorizzazioni per quei ruoli.

Questa pagina illustra i ruoli IAM disponibili per le API Cloud Billing. Ad esempio, puoi utilizzare IAM per concedere ruoli come Gestore costi account di fatturazione o Visualizzatore account di fatturazione in un account di fatturazione Cloud. Per una descrizione dettagliata di IAM e delle sue funzionalità, consulta la documentazione di IAM (<https://cloud.google.com/iam/docs?hl=it>). In particolare, consulta Gestire l'accesso a progetti, cartelle e organizzazioni (<https://cloud.google.com/iam/docs/granting-changing-revoking-access?hl=it>) e Gestire l'accesso ad altre risorse (<https://cloud.google.com/iam/docs/manage-access-other-resources?hl=it>).

Autorizzazioni e ruoli

Affinché un utente possa visualizzare i dettagli dell'account di fatturazione Cloud nella console Google Cloud o affinché un metodo dell'API Cloud Billing restituisca le informazioni dell'account di fatturazione Cloud, l'utente o l'autore dell'invocazione deve disporre delle autorizzazioni necessarie.

Autorizzazioni richieste per l'API Cloud Billing Catalog

Non sono necessarie autorizzazioni per utilizzare l'API Catalog di fatturazione Cloud (elenco dei servizi e elenco degli SKU). Tutti i dati restituiti da questa API sono pubblici.

Autorizzazioni richieste per l'API Cloud Billing Budget

La tabella seguente illustra le autorizzazioni necessarie per chiamare ciascun metodo dell'API Cloud Billing Budget. Sono inclusi anche i ruoli IAM Billing standard che concedono

automaticamente queste autorizzazioni.

Metodo API	Autori
<u>GetBudget</u> (https://cloud.google.com/billing/docs/reference/budget/rest/v1beta1/billingAccounts.budgets/get?hl=it)	Per ot l'utent dell'au budge fattura Per i b le autc fattura delle s proget resol billi
<u>ListBudgets</u> (https://cloud.google.com/billing/docs/reference/budget/rest/v1beta1/billingAccounts.budgets/list?hl=it)	Per res applic Cloud, dispor budge fattura Per i b le autc fattura delle s proget resol billi

CreateBudget

(<https://cloud.google.com/billing/docs/reference/budget/rest/v1beta1/billingAccounts.budgets/create?hl=it>)

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UpdateBudget

(<https://cloud.google.com/billing/docs/reference/budget/rest/v1beta1/billingAccounts.budgets/patch?hl=it>)

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DeleteBudget

(<https://cloud.google.com/billing/docs/reference/budget/rest/v1beta1/billingAccounts.budgets/delete?hl=it>)

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Autorizzazioni richieste per l'API Account di fatturazione Cloud

La tabella seguente elenca le autorizzazioni necessarie per chiamare ogni metodo dell'API Account di fatturazione Cloud, nonché i ruoli IAM per la fatturazione Cloud che includono queste autorizzazioni.

Metodo API	Autorizzazioni obbligate
<u>billingAccounts.create</u> (https://cloud.google.com/billing/reference/rest/v1/billingAccounts/create?hl=it)	Il metodo viene utilizzato per creare nuovi subaccount di fatturazione Cloud. L'utente che chiama il metodo deve avere il ruolo billingAccountOwner nell'account di fatturazione Cloud principale del subaccount.
<u>billingAccounts.get</u> (https://cloud.google.com/billing/reference/rest/v1/billingAccounts/get?hl=it)	billingAccountOwner : account di fatturazione Cloud.
<u>billingAccounts.list</u> (https://cloud.google.com/billing/reference/rest/v1/billingAccounts/list?hl=it)	Nessuno. Questo metodo restituisce tutti gli account a cui l'utente ha accesso.
<u>billingAccounts.getIamPolicy</u> (https://cloud.google.com/billing/reference/rest/v1/billingAccounts/getIamPolicy?hl=it)	billingAccountOwner : Policy in un account di fatturazione Cloud.

<u>billingAccounts.setIamPolicy</u> (https://cloud.google.com/billing/reference/rest/v1/billingAccounts/setIamPolicy?hl=it)	billing.account: Policy in un account di fatturazione Cloud.
<u>billingAccounts.testIamPermissions</u> (https://cloud.google.com/billing/reference/rest/v1/billingAccounts/testIamPermissions?hl=it)	Nessuno. Questo metodo è utilizzato per determinare le autorizzazioni di un account di fatturazione.
<u>billingAccounts.patch</u> (https://cloud.google.com/billing/reference/rest/v1/billingAccounts/patch?hl=it)	billing.account: account di fatturazione.
<u>billingAccounts.projects.list</u> (https://cloud.google.com/billing/reference/rest/v1/billingAccounts.projects/list?hl=it)	billing.resource: Associations.list account di fatturazione.
<u>projects.getBillingInfo</u> (https://cloud.google.com/billing/reference/rest/v1/projects/getBillingInfo?hl=it)	resourceManager: get nel progetto. Per ulteriori informazioni, vedere Controllo dell'accesso (https://cloud.google.com/billing/docs/access-control?hl=it). .
<u>projects.updateBillingInfo</u> (https://cloud.google.com/billing/reference/rest/v1/projects/updateBillingInfo?hl=it)	billing.resource: Associations.createBillingAccount nell'account di fatturazione. resourceManager: createBillingAccount nel progetto.

Ruoli

Non concedi direttamente le autorizzazioni agli utenti, ma concedi loro *ruoli* che includono una o più autorizzazioni.

Puoi concedere uno o più ruoli sulla stessa risorsa.

La tabella seguente elenca i ruoli IAM che puoi concedere per accedere alle API Cloud Billing, la descrizione della funzione del ruolo e le autorizzazioni incluse nel ruolo. Alcuni di questi ruoli includono anche le autorizzazioni per altri Google Cloud servizi.

Per concedere le autorizzazioni alle API di fatturazione di Cloud, devi configurare un account di servizio per l'API e assegnare i ruoli all'account di servizio.

Role	Permissions
Billing Account Administrator (roles/billing.admin) Provides access to see and manage all aspects of billing accounts. Lowest-level resources where you can grant this role: <ul style="list-style-type: none"> Billing Account 	billing.accounts.close billing.accounts.get billing.accounts.getCarbonInformation billing.accounts.getIamPolicy billing.accounts.getPaymentInfo billing.accounts.getPricing billing.accounts.getSpendingInformation billing.accounts.getUsageExportSpec billing.accounts.list billing.accounts.move billing.accounts.redeemPromotion billing.accounts.removeFromOrganization billing.accounts.reopen billing.accounts.setIamPolicy billing.accounts.update billing.accounts.updatePaymentInfo billing.accounts.updateUsageExportSpec > billing.anomalies.* billing.anomalies.get billing.anomalies.list billing.anomalies.submitFeedback > billing.anomaliesConfigs.* billing.anomaliesConfigs.get billing.anomaliesConfigs.update billing.billingAccountPrice.get billing.billingAccountPrices.list > billing.billingAccountServices.* billing.billingAccountServices.get billing.billingAccountServices.list > billing.billingAccountSkuGroupSkus.* billing.billingAccountSkuGroupSkus.get billing.billingAccountSkuGroupSkus.list > billing.billingAccountSkuGroups.* billing.billingAccountSkuGroups.get

Role	Permissions
	<ul style="list-style-type: none"> billing.billingAccountSkuGroups.list > billing.billingAccountSkus.* <ul style="list-style-type: none"> billing.billingAccountSkus.get billing.billingAccountSkus.list > billing.budgets.* <ul style="list-style-type: none"> billing.budgets.create billing.budgets.delete billing.budgets.get billing.budgets.list billing.budgets.update billing.credits.list billing.finOpsBenchmarkInformation.get billing.finOpsHealthInformation.get > billing.resourceAssociations.* <ul style="list-style-type: none"> billing.resourceAssociations.create billing.resourceAssociations.delete billing.resourceAssociations.list > billing.subscriptions.* <ul style="list-style-type: none"> billing.subscriptions.create billing.subscriptions.get billing.subscriptions.list billing.subscriptions.update cloudasset.assets.searchAllResources cloudnotifications.activities.list cloudsupport.properties.get > cloudsupport.techCases.* <ul style="list-style-type: none"> cloudsupport.techCases.create cloudsupport.techCases.escalate cloudsupport.techCases.get cloudsupport.techCases.list cloudsupport.techCases.update > commerceoffercatalog.* <ul style="list-style-type: none"> commerceoffercatalog.agreements.get commerceoffercatalog.agreements.list commerceoffercatalog.documents.get commerceoffercatalog.documents.list commerceoffercatalog.offers.get > compute.commitments.* <ul style="list-style-type: none"> compute.commitments.create compute.commitments.get compute.commitments.list compute.commitments.update compute.commitments.updateReservations > consumerprocurement.accounts.* <ul style="list-style-type: none"> consumerprocurement.accounts.create consumerprocurement.accounts.delete consumerprocurement.accounts.get consumerprocurement.accounts.list consumerprocurement.consents.check

Role	Permissions
	<ul style="list-style-type: none"> consumerprocurement.consents.grant consumerprocurement.consents.list consumerprocurement.consents.revoke > consumerprocurement.events.* <ul style="list-style-type: none"> consumerprocurement.events.get consumerprocurement.events.list > consumerprocurement.licensePools.* <ul style="list-style-type: none"> consumerprocurement.licensePools.assign consumerprocurement.licensePools.enumerateLicensedUsers consumerprocurement.licensePools.get consumerprocurement.licensePools.unassign consumerprocurement.licensePools.update > consumerprocurement.orderAttributions.* <ul style="list-style-type: none"> consumerprocurement.orderAttributions.get consumerprocurement.orderAttributions.list consumerprocurement.orderAttributions.update > consumerprocurement.orders.* <ul style="list-style-type: none"> consumerprocurement.orders.cancel consumerprocurement.orders.get consumerprocurement.orders.list consumerprocurement.orders.modify consumerprocurement.orders.place dataprocessing.datasources.get dataprocessing.datasources.list dataprocessing.groupcontrols.get dataprocessing.groupcontrols.list logging.logEntries.list logging.logServiceIndexes.list logging.logServices.list logging.logs.list logging.privateLogEntries.list recommender.cloudsqlIdleInstanceRecommendations.get recommender.cloudsqlIdleInstanceRecommendations.list recommender. <ul style="list-style-type: none"> cloudsqlOverprovisionedInstanceRecommendations.get cloudsqlOverprovisionedInstanceRecommendations.list > recommender.commitmentUtilizationInsights.* <ul style="list-style-type: none"> recommender.commitmentUtilizationInsights.get recommender.commitmentUtilizationInsights.list recommender.commitmentUtilizationInsights.update recommender.computeAddressIdleResourceRecommendations.get recommender.computeAddressIdleResourceRecommendations.list recommender.computeDiskIdleResourceRecommendations.get recommender.computeDiskIdleResourceRecommendations.list recommender.computeImageIdleResourceRecommendations.get recommender.computeImageIdleResourceRecommendations.list

Role	Permissions
	recommender. computeInstanceGroupManagerMachineTypeRecommendations. get recommender. computeInstanceGroupManagerMachineTypeRecommendations. list recommender.computeInstanceIdleResourceRecommendations. get recommender.computeInstanceIdleResourceRecommendations. list recommender.computeInstanceMachineTypeRecommendations. get recommender.computeInstanceMachineTypeRecommendations. list > recommender.costInsights.* recommender.costInsights.get recommender.costInsights.list recommender.costInsights.update > recommender.costRecommendations.* recommender.costRecommendations.listAll recommender.costRecommendations.summarizeAll recommender. resourceManagerProjectUtilizationRecommendations.get recommender. resourceManagerProjectUtilizationRecommendations.list > recommender.spendBasedCommitmentInsights.* recommender.spendBasedCommitmentInsights.get recommender.spendBasedCommitmentInsights.list recommender.spendBasedCommitmentInsights.update > recommender.spendBasedCommitmentRecommendations.* recommender.spendBasedCommitmentRecommendations.get recommender.spendBasedCommitmentRecommendations.list recommender.spendBasedCommitmentRecommendations. update > recommender.spendBasedCommitmentRecommenderConfig.* recommender.spendBasedCommitmentRecommenderConfig. get recommender.spendBasedCommitmentRecommenderConfig. update > recommender.usageCommitmentRecommendations.* recommender.usageCommitmentRecommendations.get recommender.usageCommitmentRecommendations.list recommender.usageCommitmentRecommendations.update resourceManager.projects.createBillingAssignment resourceManager.projects.deleteBillingAssignment resourceManager.projects.get resourceManager.projects.list
Billing Account Costs Manager	billing.accounts.get

Role	Permissions
(roles/billing.costsManager) Manage budgets for a billing account, and view, analyze, and export cost information of a billing account. Lowest-level resources where you can grant this role: <ul style="list-style-type: none"> • Billing Account 	billing.accounts.getIamPolicy billing.accounts.getSpendingInformation billing.accounts.getUsageExportSpec billing.accounts.list billing.accounts.updateUsageExportSpec billing.anomalies.get billing.anomalies.list > billing.anomaliesConfigs.* billing.anomaliesConfigs.get billing.anomaliesConfigs.update > billing.budgets.* billing.budgets.create billing.budgets.delete billing.budgets.get billing.budgets.list billing.budgets.update billing.resourceAssociations.list > recommender.costInsights.* recommender.costInsights.get recommender.costInsights.list recommender.costInsights.update
Billing Account Creator (roles/billing.creator) Provides access to create billing accounts. Lowest-level resources where you can grant this role: <ul style="list-style-type: none"> • Organization 	billing.accounts.create resourcemanager.organizations.get
Project Billing Costs Manager (roles/billing.projectCostsManager) Can interact with billing information scoped to the projects to which the user has cost access.	billing.accounts.getIamPolicy billing.accounts.getSpendingInformationScoped billing.costRecommendations.listScoped
Project Billing Manager (roles/billing.projectManager) When granted in conjunction with the Billing Account User role, provides access to assign	resourcemanager.projects.createBillingAssignment resourcemanager.projects.deleteBillingAssignment

Role	Permissions
<p>a project's billing account or disable its billing.</p> <p>Lowest-level resources where you can grant this role:</p> <ul style="list-style-type: none"> Project 	
<p>Billing Account User (roles/billing.user)</p> <p>When granted in conjunction with the Project Owner role or Project Billing Manager role, provides access to associate projects with billing accounts.</p>	<p>billing.accounts.get billing.accounts.getIamPolicy billing.accounts.list billing.accounts.redeemPromotion billing.credits.list billing.resourceAssociations.create</p>
<p>Lowest-level resources where you can grant this role:</p> <ul style="list-style-type: none"> Billing Account 	
<p>Billing Account Viewer (roles/billing.viewer)</p> <p>View billing account cost and pricing information, transactions, and billing and commitment recommendations.</p> <p>Lowest-level resources where you can grant this role:</p> <ul style="list-style-type: none"> Billing Account 	<p>billing.accounts.get billing.accounts.getCarbonInformation billing.accounts.getIamPolicy billing.accounts.getPaymentInfo billing.accounts.getPricing billing.accounts.getSpendingInformation billing.accounts.getUsageExportSpec billing.accounts.list billing.anomalies.get billing.anomalies.list billing.anomaliesConfigs.get billing.billingAccountPrice.get billing.billingAccountPrices.list > billing.billingAccountServices.* billing.billingAccountServices.get billing.billingAccountServices.list > billing.billingAccountSkuGroupSkus.* billing.billingAccountSkuGroupSkus.get billing.billingAccountSkuGroupSkus.list > billing.billingAccountSkuGroups.* billing.billingAccountSkuGroups.get billing.billingAccountSkuGroups.list > billing.billingAccountSkus.* billing.billingAccountSkus.get billing.billingAccountSkus.list billing.budgets.get</p>

Role	Permissions
	<ul style="list-style-type: none"> billing.budgets.list billing.credits.list billing.finOpsBenchmarkInformation.get billing.finOpsHealthInformation.get billing.resourceAssociations.list billing.subscriptions.get billing.subscriptions.list > commerceoffercatalog.* <ul style="list-style-type: none"> commerceoffercatalog.agreements.get commerceoffercatalog.agreements.list commerceoffercatalog.documents.get commerceoffercatalog.documents.list commerceoffercatalog.offers.get consumerprocurement.accounts.get consumerprocurement.accounts.list consumerprocurement.consents.check consumerprocurement.consents.list consumerprocurement.orderAttributions.get consumerprocurement.orderAttributions.list consumerprocurement.orders.get consumerprocurement.orders.list dataprocessing.datasources.get dataprocessing.datasources.list dataprocessing.groupcontrols.get dataprocessing.groupcontrols.list recommender.commitmentUtilizationInsights.get recommender.commitmentUtilizationInsights.list recommender.costInsights.get recommender.costInsights.list > recommender.costRecommendations.* <ul style="list-style-type: none"> recommender.costRecommendations.listAll recommender.costRecommendations.summarizeAll recommender.spendBasedCommitmentInsights.get recommender.spendBasedCommitmentInsights.list recommender.spendBasedCommitmentRecommendations.get recommender.spendBasedCommitmentRecommendations.list recommender.spendBasedCommitmentRecommenderConfig.get recommender.usageCommitmentRecommendations.get recommender.usageCommitmentRecommendations.list

Tieni presente che i ruoli `roles/billing.admin`, `roles/billing.costsManager`, `roles/billing.viewer` e `roles/billing.projectManager` includono anche le autorizzazioni per altri Google Cloud servizi.

Argomenti correlati

- Gestire l'accesso a progetti, cartelle e organizzazioni
(<https://cloud.google.com/iam/docs/granting-changing-revoking-access?hl=it>) nella documentazione IAM
- Gestire l'accesso ad altre risorse
(<https://cloud.google.com/iam/docs/manage-access-other-resources?hl=it>) nella documentazione IAM
- Creare ruoli personalizzati per la fatturazione Cloud
(<https://cloud.google.com/billing/docs/how-to/custom-roles?hl=it>)

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