

GAM Cheat Sheet

github.com/jay0lee/GAM

for GAM 5.11

User Email



gam <who> <attributes/values>
where attributes and values are:
language <language code>
show **language**
pagesize 25 | 50 | 100
shortcuts | **arrows** | **snippets** | **utf** | **webclips** on | off
signature <signature text> | (file <signature file>
[charset <Charset>]) (replace <Tag> <String>)*
[name <String>] [replyto <EmailAddress>]
vacation on | off [subject <String>] (message
<String>) | (file <FileName> [charset <CharSet>])
(replace <Tag> <String>)* [html] [contactonly]
[domainonly] [startdate <Date>] [enddate <Date>]]
[add] **label** <label name> [messagelistvisibility
hide | show] [labellistvisibility
hide | show | showifunread] [backgroundcolor
<color>] [textcolor <color>]
delete **label** <label
name> | regex:<RegularExpression> |
--ALL_LABELS--
update **label** search <search> replace <replace>
[merge]
update **labelsettings** <label name> name <new label
name> [message_list_visibility show | hide]
[label_list_visibility show | hide | show_if_unread]
show **labels** [onlyuser]
filter from <email address> | to <email
address> | subject <words> | haswords <words> |
nowords <words> | musthaveattachment | label <label
name> | markread | archive | star | forward <email
address> | trash | neverspam
delete | info **filter** <FilterIDEntity>
[add] | update **sendas** <email address> <name>
[default] [replyto <email address>] [treatasalias
<Boolean>] [signature <String>] | (file <FileName>
[charset <CharSet>]) (replace <RegularExpression>
<String>)*]
delete **sendas** <email address>
info **sendas** <email address> [format]
pop on | off [for allmail | newmail | fromnowown] [action
keep | leaveininbox | archive | delete | trash | markread]
imap on | off [noautoexpunge] [expungebehavior
archive | deleteforever | trash] [maxfoldersize
0 | 1000 | 2000 | 5000 | 10000]
forward on | off [email address] [keep | archive | delete]
delegate to <user email>
add **delegate** | **forwardingaddress** <user email>
show **delegates** [csv]
show **vacation** | **filters** | **imap** | **pop** | **forward** | **profile** |
forwardingaddress
show **sendas** | **vacation** | **signature** [format]
print delegates | forwardingaddress [todrive]
delete **delegate** | **forwardingaddress** <user email>
profile shared | unshared
update **photo** <photo filename>
get **photo** [drivedir | (targetfolder <FilePath>)] [noshow]
delete **photo**
print **filters** | **forward** | **sendas** [todrive]

gam user <who> **sendemail** | **draftemail** [message
<message>] [file <file>] [subject <subject>] [recipient
<recipient>]
gam user <who> **insertemail** | **importemail** [message
<message>] [file <file>] [subject <subject>] [recipient
<recipient>] [labels <labels,>]
gam user <who> **delete** | **trash** | **untrash**
messages | threads query <gmail search> [doit]
[maxto<action> <number>]
gam user <who> **modify** messages
addlabel | removelabel <label> query <gmail search>
[doit] [maxto<action> <number>]
where <action> is:
delete | trash | untrash | modify
e.g. maxtotrash, maxtountrash

Users



gam **create** | **update** user <user email> [options]
gam <who> **update** user [options]

Common options:

[firstname <First Name>] [lastname <Last Name>]
[password <Password>] [email <New Email>]
[gal on | off] [suspended on | off] [sha] [md5] [crypt]
[nohash] [changepassword on | off] [org <Org
Name>]

Extended options:

[relation <relation type> <relation value>]
[externalid <id type> <id value>]
[phone type <phone type> value <phone value>
primary | notprimary]
[organization name <org name> title <org title>
type <org type> department <org dept>
symbol <org symbol> costcenter <org cost center>
location <org location> description <org desc>
domain <org domain> primary | notprimary]
[address type <address type>
unstructured <unstructured address>
extendedaddress <address extended address>
streetaddress <address street address>
locality <address locality> region <address region>
postalcode <address postal code> pobox <address
pobox> countrycode <address country code>
primary | notprimary]
[im type <im type> protocol <im protocol> primary
<im value>]
[location type <location type> area <area> building
<building> desk <desk> floor <floor> section
<section> endlocation]
[sshkeys expires <date> key <keyvalue>]
[posixaccounts gecocos <gecos> gid <numeric gid>
uid <numeric uid> home <home path>
primary true | false shell <shell> system <systemid>
username <username> os <ostype> endposix]
[agreedtoterms on | off]
[schemaname.fieldname <fieldvalue>]
[schemaname.multivaluefieldname multivalued
<fieldvalue>]
[recoveryemail <email>] [recoveryphone <phone>]

Extended options for update only:

[customerid <string>]
[otheremail home | work | other | <custom> <email
address>]

gam **info** user <user email> [nogroups] [noaliases]
[nolicenses] [noschemas] [schemas list,of,schemas]
[userview] [skus <list,of,skus>]
gam **delete** user <user email>
gam **undelete** user <user email> [org <org Name>]
gam <who> **print**
gam **print** users [allfields] [custom all | list,of,schemas]
[userview] [ims] [emails] [externalids] [relations]
[addresses] [organizations] [phones] [licenses]
[photo] [firstname] [lastname] [emailparts]
[deleted_only] [id] [orderby
email | firstname | lastname] [query <query>]
[ascending | descending] [domain <Domain Name>]
[fullname] [ou] [suspended] [changepassword] [gal]
[agreed2terms] [admin] [creationtime] [aliases]
[lastlogintime] [groups] [ismailboxsetup] [todrive]

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Calendars



gam calendar <cal email> |id:<cal id> <action> [*options*]

where <action> and <options> are:

showacl | wipe

add | **update** freebusy | read | editor | owner <user email> | user <user email> | group <group email> | domain [<Domain name>] | default

delete <user email> | user <user email> | group <group email> | domain [<Domain name>] | default

delete [user <user email>] [id <ACL id>]

addevent [attendee <user email>] [location <location>] [optionalattendee <user email>] [anyonecanaddself] [summary <summary>] [source <title> <url>] [description <event description>] [id <id>] [available] start allday <YYYY-MM-DD> | <start datetime> end allday <YYYY-MM-DD> | <end datetime> [guestscantinviteothers] [guestscantseeothers] [hangoutsmeet] [visibility default] public | private [tentative] [notifyattendees] [recurrence <repeat>] [noreminders] | [reminder <minutes> email | popup | sms] [timezone <timezone>] [privateproperty <Key> <Value>] [sharedproperty <Key> <Value>] [colorindex <index>]

updateevent eventid <id> <options> where <options> are as per addevent above

deleteevent [eventid <id>] [query <query>] [notifyattendees] [doit]

gam <who> **show** calendars | calsettings

gam <who> **delete** calendar <calendar email>

gam <who> **add** | **update** calendar <calendar email> [selected true | false] [hidden true | false] [reminder email | sms | popup (minutes)] [summary <summary>] [colorindex (1-24)] [backgroundcolor <htmlcolor>] [foregroundcolor <htmlcolor>]

gam <who> **update** calattendees csv <csv file> [start YYYY-MM-DD] [end YYYY-MM-DD] [allevents] [dryrun]

gam <who> **transfer** seccals <target user> [keepuser]

gam <who> **info** calendar <calendar email> | primary

gam <who> **print** calendars [todrive]

Calendar Resources

gam **create** resource <id> <Name> [parameters]

gam **update** resource <id> [name <Name>] [*parameters*]

where *parameters* are:

[description <description>] [type <type>] [building <building>] [capacity <number>] [features <features>] [floor <floor>] [floorsection <floorsection>]

gam **info** | **delete** resource <id>

gam **print** resources [id] [description] [email] [type] [allfields] [todrive]

gam **create** building <name> [id <id>] [latitude <latitude>] [longitude <longitude>] [description <description>] [floors <floors>]

gam **update** building <name or id: id> [name <name>] [latitude <latitude>] [longitude <longitude>] [description <description>] [floors <floors>]

gam **info** building <name or id: id>

gam **delete** building <name or id: id>

gam **create** feature name <name>

gam **update** feature <name> name <newname>

gam **delete** feature <name>

Drive Management



gam <who> **show** filelist [todrive] [query <query>] [allfields] [createddate] [description] [fileextension] [filesize] [id] [restricted] [starred] [trashed] [viewed] [lastmodifyingusername] [lastviewedbydate] [modifieddate] [originalfilename] [quotedused] [shared] [writerscanshare]

gam <who> **show** driveactivity [todrive] [fileid <id>] [folderid <id>]

gam <who> **show** drivesettings [todrive]

gam <who> **show** fileinfo <id> | [allfields] <DriveFieldName>*

gam <who> **show** filetree

gam <who> **show** filerevisions <id>

gam <who> **add** drivefile [localfile <filepath>]

[drivefilename <filename>] [convert] [ocr]

[ocrlanguage <language>] [returnidonly]

[copyrequireswriterpermission true | false] [restricted]

[starred] [trashed] [viewed] [lastviewedby]

<date>] [modifieddate <date>] [description

<description>] [mimetype <type>] [parentid <folder

id>] [parentname <folder name>] [writerscanshare]

gam <who> **update** drivefile [localfile <filepath>]

[newfilename <filename>] [id <drive file id> |

drivefilename <filename>] [convert] [ocr]

[ocrlanguage <language>]

[copyrequireswriterpermission true | false] [restricted

true | false] [starred true | false] [trashed true | false]

[viewed true | false] [lastviewedby <date>]

[modifieddate <date>] [description <description>]

[mimetype <type>] [parentid <folder id>]

[parentname <folder name>] [writerscanshare]

gam <who> **get** drivefile [id <file id> | query <query>]

[format <openoffice | microsoft | pdf>] [targetfolder

<local path>] [revision <number>]

gam <who> **delete** emptydrivefolders | drivefile <file

id> [purge]

gam <who> **transfer** drive <target user> [keepuser]

gam <who> **empty** drivetrash

ACLs

gam user <user email> **show** drivefileacl <file id> [asadmin]

gam user <user email> **add** drivefileacl <file id> [user | group | domain <value> | anyone] [withlink]

[role <aclrole>] [sendemail] [emailmessage

<message text>]

gam user <user email> **update** drivefileacl <file id>

<permission id> [withlink] [role <aclrole>]

[transferownership <true | false>] [asadmin]

gam user <user email> **delete** drivefileacl <file id>

<permission id> [asadmin]

where <aclrole> is:

commenter | contentmanager | editor | fileorganizer |

organizer | owner | reader | writer

Team Drive

gam user <email> **add** teamdrive <name>

gam user <email> **update** teamdrive <id> asadmin [name <name>]

gam user <email> **delete** teamdrive <id>

gam user <email> **print** | **show** teamdrives [todrive] [asadmin]

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Groups



gam **create** | **update** group <group email>
<attributes/values>

where *attributes* and *values* are:

name <Group Name>
description <Group Description>
email <EmailAddress>
admincreated true|false
allow_external_members true|false
message_moderation_level moderate_all_messages |
moderate_new_members|moderate_none |
moderate_non_members
primary_language <language>
reply_to
reply_to_custom|reply_to_ignore|reply_to_list |
reply_to_managers|reply_to_owner|reply_to_sender
send_message_deny_notification true|false
show_in_group_directory true|false
who_can_invite all_managers_can_invite |
all_members_can_invite
who_can_join
all_in_domain_can_join|anyone_can_join |
can_request_to_join|invited_can_join
who_can_post_message all_in_domain_can_post |
all_managers_can_post|all_members_can_post |
anyone_can_post|none_can_post
who_can_view_group all_in_domain_can_view |
all_managers_can_view|all_members_can_view |
anyone_can_view
who_can_view_membership all_in_domain_can_view |
all_managers_can_view|all_members_can_view
allow_google_communication true|false
allow_web_posting true|false
archive_only true|false
custom_reply_to <email address>
is_archived true|false
max_message_bytes <integer>
members_can_post_as_the_group true|false
message_display_font default_font|fixed_width_font
spam_moderation_level allow|moderate |
silently_moderate|reject
include_in_global_address_list true|false
who_can_leave_group none_can_leave |
all_members_can_leave|all_managers_can_leave
who_can_contact_owner anyone_can_contact |
all_in_domain_can_contact |
all_members_can_contact| all_managers_can_contact

gam **info** group <group email> [nusers] [noaliases] [groups]
gam **update** group <group email> add|update|sync
owner|member|manager
[allmail|nomail|daily|digest] [notsuspended] {user
<email address> | group <group address> |ou <org
name> | file <file name> | all users}
gam **update** group <group email> clear [owner]
[manager] [member]
gam **update** group <group email> remove {user <email
address> | group <group address> | org <org
name> | file <file name> | all users}
gam **delete** group <group email> gam <who> delete
group
gam **print** groups [domain <domain>] [member <user
email>] [maxresults <results>] [name] [description]
[admincreated] [id] [aliases] [members] [owners]
[managers] [settings] [todrive] [delimiter
<delimchar>] [fields <list,of,fields>]
gam **print** group-members [group <group email>]
[domain <domain>] [member <user email>] [fields
<list,of,fields>] [membenames] [todrive]

Email Aliases

gam **create** | **update** alias <alias> user|group|target
<primary address>
gam **info** alias <alias>
gam **delete** alias [user|group|target] <alias>
gam <who> **delete** alias
gam **print** aliases [todrive]

Domain Verification



gam **create** verify <domain>
gam **update** verify <domain> <cname|txt|site|file>
gam **info** verify

Domain Settings

gam **info** instance
gam **info** domain|domainalias <domain>
gam **create** domain <domain>
gam **create** domainalias <domainalias>
<parentdomain>
gam **delete** domain|domainalias <domain>
gam **print** domains|domainaliases [todrive]
gam **update** domain <domain> primary

Custom User Schema

gam **create** | **update** schema <schemaname> field
<fieldname> type
<bool|double|email|int64|phone|string> [indexed]
[restricted] [multivalued] [range <min number>
<max number>] endfield
gam **print** | **show** schemas
gam **info** schema <schemaname>
gam **delete** schema <schemaname>

Reports



gam **report** users [todrive] [date <YYYY-MM-DD>]
[user <user email>] [filter <filter terms>] [fields
<included fields>]
gam **report** admin|calendar|logins |
tokens|drive|groups|mobile [todrive] [user <user
email>] [filter <filter terms>] [ip <ip address>] [start
<start datetime>] [end <end datetime>] [event <event
name>]

where the filter specifies the search terms¹.

gam **report** **usage** user|customer parameters <comma
separated parameters> [start_date <YYYY-MM-DD>]
[end_date <YYYY-MM-DD>] [orgunit <ou of users>]
[skip_dates <YYYY-MM-DD>...] [skip_days_of_week
mon,tue...] [todrive] [users|group|csvfile]

gam **report** domain [todrive] [date <YYYY-MM-DD>]
[fields <included fields>]

<start datetime> and <end datetime> are in the format:
YYYY-MM-DDThh:mm:ss.000Z

¹ <https://developers.google.com/admin-sdk/reports/v1/reference/userUsageReport/get>

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Classroom



gam **create** course id [alias <alias>] <CourseAttributes>

gam **update** course <id or alias> <CourseAttributes>

where <CourseAttributes> is:

[name <name>] [section <section>]
[teacher <teacher email>]
[heading <heading>] [description <description>]
[room <room>] [status
<PROVISIONED | ACTIVE | ARCHIVED | DECLINED>]

gam **info** | **delete** course <id or alias>

gam **course** <id or alias> <command>

where <command> is:

add student | teacher <email address>
add | **delete** alias <alias>
sync students | teachers group <group email> | ou
<orgunit> | file <filename> | query <users query> |
course <id or alias>
remove student | teacher <email address>

gam **print** courses [teacher <email>] [student <email>]
[owneremail <email>] [state <states>] [todrive]
[aliases] [delimiter <String>]

gam **print** course-participants [course <id or alias>]
[student <email>] [teacher <email>] [show
all | students | teachers] [todrive]

gam **create** guardianinvite <guardian email> <student
email>

gam **delete** guardian <guardian email> <student email>

gam **show** guardian [invitedguardian <guardian
email>] [student <StudentItem>] [invitations] [states
<GuardianStateList>] [<UserTypeEntity>]

gam **print** guardians [invitations] [student <email>]
[invitedguardian <email>] [user <username> | group
<email> | ou <ouname> | all users] [nocsv] [todrive]
[states <GuardianStateList>]

where *GuardianStateList* is:

COMPLETE | PENDING |
GUARDIAN_INVITATION_STATE_UNSPECIFIED

gam **cancel** guardianinvitation | guardianinvitations
<GuardianInvitationID> <student email>

Data Transfers

gam **create** datatransfer <old owner> gdrive | calendar
<new owner> [parameter <value>]

gam **info** datatransfer <id>

gam **print** datatransfers [oldowner <old owner>]
[newowner <new owner>] [status completed | failed |
inProgress | pending] [todrive]

gam **print** transferapps

Admin Roles



gam **create** admin <user> <role> <customer | org_unit
<OU>>

gam **delete** admin <role assignment id>

gam **print** admins [user <user>] [role <role>] [todrive]

gam **print** roles [todrive]

User Security Settings



gam <who> | file <filename> <command>

where <command> is:

show tokens (oauth tokens)
show token clientid <client id>
delete token clientid <client id>
show asps (app-specific pwds)
delete asp <ID>
show backupcodes (2-step verification)
update backupcodes
delete backupcodes
deprovision (remove tokens, asps,
and backupcodes)

gam **print** tokens [todrive] [clientid <ClientID>] <who>

gam <who> show tokens

S/MIME

gam user <email> **add** smime <file <filename>>
<password <password>> [default] [sendas <email>]
gam user <email> **update** smime [id <id>]
[sendas <email>] <default>
gam user <email> **delete** smime <id <id>>
[sendas <email>]
gam user <email> **show** | **print** smime primaryonly
todrive

Reseller

gam **create** | **update** resoldcustomer <domain>
[alternateemail <email>] [phone <phone>] [address1
<address>] [address2 <address>] [address3
<address>] [contact <name>] [country <country>]
[city <city>] [organizationname <name>] [postalcode
<code>] [region <region>] [transfertoken <token>]

gam **info** resoldcustomer <domain>

gam **create** resoldsubscription <domain> [dealcode
<code>] [plan <plan>] [purchaseorderid <po>]
[seats <number> [max]] [sku <sku>] [transfertoken
<token>]

gam **update** resoldsubscription <domain> <sku>
[activate] [suspend] [startpayservice] [renewal
<renewaltype>] [seats <number> [max]] [plan
<plan>] [seats <number> [max]] [purchaseorderid
<po>] [dealcode <code>]]

gam **info** resoldsubscriptions <domain> [transfertoken
<token>]

gam **delete** resoldsubscription <domain> <sku>
<deletiontype>

To perform actions for a resold customer set following
environment variable and then run gam as per normal.
export CUSTOMER_ID=<customer id>

Alerts

gam **create** alertfeedback <alertid> NOT_USEFUL |
SOMEWHAT_USEFUL | VERY_USEFUL |
ALERT_FEEDBACK_TYPE_UNSPECIFIED

gam **print** alert | alertfeedback

gam **delete** | **undelete** alert <alertid>

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Chrome Devices



gam **update** cros <device id> [user <user info>] [location <location info>] [notes <notes info>] [ou <new org unit>] [asetid <asset id>] [status active | deprovisioned | inactive | returnapproved | returnrequested | shipped | unknown]

gam **update** cros <device id> action disable | reenable | deprovision_same_model_replace | deprovision_different_model_replace | deprovision_retiring_device [acknowledge_device_touch_requirement]

gam **info** cros <device id> [nolists] [listlimit <Number>] [allfields | full | basic] [start <Date>] [end <Date>] <CrOSFieldName>* [fields <CrOSFieldNameList>] [downloadfile latest | <Time>] [targetfolder <FilePath>]

gam **print** cros [query <query> | queries <query>+] [orderby location | user | lastsync | serialnumber | supportenddate [ascending | descending]] [basic | full | allfields] [start <Date>] [end <Date>] [nolists | recentusers | timeranges | devicefiles] [todrive] [listlimit <Number>] [limit_to_ou <OU>] <CrOSFieldName>* [fields <CrOSFieldNameList>]

gam **print** crosactivity [query <query> | queries <query>+] [todrive] [limittoou <OU>] [recentusers] [timeranges] [both] [devicefiles] [all] [listlimit <limit>] [delimiter <char>] [start <yyyy-mm-dd>] [end <yyyy-mm-dd>]

Mobile Devices



gam **update** mobile <mobile id> | query:<query> action wipe | approve | block | cancel_remote_wipe_then_activate | cancel_remote_wipe_then_block [model <String>] [os <String>] [useragent <String>]

gam **info** mobile <mobile id>

gam **print** mobile [query <query>] [basic | full] [orderby deviceid | email | lastsync | model | name | os | status | type] [ascending | descending] [todrive]

gam **delete** mobile <mobile id>

Organizational Units



gam **create** org <name> [description <Description>] [parent <Parent Org>] [inherit | noinherit]

gam **update** org <name> [name <Name>] [description <Description>] [parent <Parent>] [inherit | noinherit]

gam **update** org <name> **add | move** users <Users> | file <File Name> | group <Group Name> | all cros | cros <device id>

gam **info** org <name> [nusers | child]

gam **delete** org <name>

gam **print** orgs [todrive] [tolevelonly] [fromparent <name>] [allfields | <list of fields>]

Licenses

gam <who> **add | delete** license <sku>

gam <who> **update** license <sku> [from] <oldsku>

gam **print** licenses [todrive] [products <product>] | [sku <sku>] | allskus | gsuite [countsonly]

where <sku> is:

free | gafw | gafg | gams | gal | gau | gae | e4e | coordinate | vault | vfe | identity | identitypremium | coordinate | 20gb | 50gb | 200gb | 400gb | 1tb | 2tb | 4tb | 8tb | 16tb | chrome

and <product> is:

Google-Apps | Google-Drive-storage | Google-Vault | Google-Coordinate | Google-Chrome-Device-Management

Various

gam **version** [simple | extended] [timeoffset] [location] [check]

gam **version | help**

gam **create | update** project

gam **whatis** <user email>

Vault



gam **create** vaultmatter [name <name>] [description <description>] [collaborators <emails>]

gam **update** vaultmatter <nameOrId> [name <name>] [description <description>] [addcollaborators <emails>] [removecollaborators <emails>] [action close | reopen | delete | undelete] gam info vaultmatter <nameOrId>

gam **print** vaultmatters [todrive] [basic] gam create vaulthold <matter nameOrId> [name <name>] [corpus mail | drive | groups] [query <query>] [accounts <emails>] [orgunit <orgunit>] [starttime YYYY-MM-DD] [endtime YYYY-MM-DD]

gam **update** hold <HoldNameOrId> <matter <MatterNameOrId>> [query <query>] [orgunit <orgunit>] [addaccounts <emails>] [removeaccounts <emails>] [starttime YYYY-MM-DD] [endtime YYYY-MM-DD]

gam **info | delete** vaulthold <HoldNameOrId> matter <MatterNameOrId>

gam **print** vaultholds [matters <matters>] [todrive] gam create export [matter <matter>] [name <name>] [corpus <drive | mail | groups | hangouts_chat>] [scope <all_data | held_data | unprocessed_data>] [accounts <emails> | orgunit <orgunit> | teamdrives <teamdrives> | rooms <rooms> | everyone] [terms <terms>] [start <date>] [end <date>] [timezone <timezone>] [format mbox | pst] [excludedrafts true | false] [driveversiondate <date>] [includeteamdrives] [includerooms] [includeaccessinfo true | false]

gam **info | download** export <matter> <export>

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CloudPrint



CloudPrint support has been dropped from GAM as of version 5.11 as CloudPrint is deprecated and won't be available after 2020.

gam printer register

```
gam update printer <id> [quotaEnabled <true|false>]
[dailyQuota <number>] [public <true|false>] [name
<name>] [proxy <proxy>] [description
<description>] [currentquota <Number>]
[defaultdisplayname <String>] [displayname
<String>] [firmware <String>] [gcpversion <String>]
[istosupported <Boolean>] [manufacturer <String>]
[model <String>] [ownerid <EmailAddress>] [status
<Number>] |[type <String>] |[uuid <String>] |
[setupurl|supporturl|updateurl <URL>]*
```

```
gam info printer <id> [everything]
```

```
gam delete printer <id>
```

```
gam print printers [query <query>] [type <type>]
[status <status>] [extrafields <connectionStatus|
semanticState|uiState|queuedJobsCount>] [todrive]
```

```
gam printer <id> <command>
```

where <command> is:

```
add user|manager|owner <group or user email> |
[domain:]<DomainName>|public
remove <group or user email> |<domain>|public
showacl
```

```
gam printjob <printer id> submit <file or url> [title
<string>] [tag <string>]
```

```
gam printjob <id> cancel | delete
```

```
gam printjob <PrintJobID> resubmit <PrinterID>
```

```
gam printjob <PrinterID> | any fetch [olderthan |
newerthan <number><m|h|d>] [query <query>]
[status done|error|in_progress|queued|submitted|
held] [orderby create_time|status|title] [owner <user
email>] [limit <number>] [ascending|descending]
```

```
gam print printjobs [older_than <number><m|h|d>]
[newer_than <number><m|h|d>] [query <query>]
[status <status>] [printer <printer id>] [owner <user
email>] [limit <number>] [orderby create_time |
status|title] [ascending|descending] [todrive]
```

Customer

```
gam info customer
```

```
gam update customer [alternateemail <EmailAddress>]
[language <LanguageCode>] [phone <String>]
[organizationname <String>] [contactname <String>]
[countrycode <String>] [addressline1 <String>]
[addressline2 <String>] [addressline3 <String>]
[locality <String>] [region <String>] [postalcode
<String>] [countrycode <String>]
```

Definitions

```
<who> user <user email> | group <group
email> | ou <ouname> | all users
<datetime> RFC3339 formatted date and time,
e.g. YYYY-MM-DDThh:mm:ss.000Z
```

<user email> is a user in the domain

<group email> is a group in the domain

<email address> is any email address

Bulk Operations

```
gam csv | csvprint <csv-filename> gam <regular
command>
```

Arguments starting with ~ will be substituted with the value from the CSV row. For example:

```
gam csv newusers.csv gam create user ~Email
firstname ~Firstname lastname ~Lastname password
~Password gal off changepassword off org
Testing/Students
```

Note that the ~ (tilde) character may need to be escaped in some environments.

Locally filter CSV output using the environment variables GAM_CSV_HEADER_FILTER (comma-separated list of column headers) and GAM_CSV_ROW_FILTER (JSON string containing column to filter on and value we want). GAM_CSV_HEADER_DROP_FILTER removes listed headers from results.

Run multiple gam commands from batch file:

```
gam batch <batch-filename>
```

When the command "commit-batch" is found, all previous commands will be completed before execution continues.

Parallel Commands

For both csv and batch commands, GAM will run multiple actions in parallel. By default, GAM starts 5 worker threads and can run 5 commands at a time. You can raise or lower this setting by setting an environment variable called GAM_THREADS.

Going much higher than 20 threads is not recommended or you're likely to see issues with Google API quotas.

OAuth Key Management

Set the variable OAUTHFILE in your shell to the file containing the OAuth credentials and the variable OAUTHSERVICEFILE to the file containing the service account JSON key. The file must be in the same folder as gam.exe/gam.py or contain a path relative to this folder.

```
gam oauth info [<access token>]
```

```
gam oauth create [<EmailAddress>]
```

```
gam oauth create [admin <EmailAddress>]
```

```
[scope|scopes <APIScopeURLList>]
```

```
gam oauth revoke
```

```
gam show sakey [all|system|user]
```

```
gam rotate sakey [local_key_size <1024|2048|4096>]
```

```
[retain_none|retain_existing|replace_current]
```

```
[algorithm KEY_ALG_RSA_1024|
```

```
KEY_ALG_RSA_2048]
```

```
gam delete sakeys <key_ids> [doit]
```

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Environment Variables

The following environment variables are supported.

GAMUSERCONFIGDIR
GAMSITECONFIGDIR
GAMCACHEDIR
GAMDRIVEDIR
OAUTHFILE
OAUTHSERVICEFILE
CLIENTSECRETS
GA_DOMAIN
CUSTOMER_ID
GAM_CHARSET
GAM_THREADS
GAM_AUTOBATCH
GAM_BATCH_SIZE
GAM_CSV_HEADER_FILTER
GAM_CSV_HEADER_DROP_FILTER
GAM_CSV_ROW_FILTER
GAM_TLS_MIN_VERSION
GAM_TLS_MAX_VERSION
GAM_CA_FILE

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