

## 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] [contactsonly] [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 | leaveinbox | 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

# GAM Cheat Sheet

github.com/jay0lee/GAM

for GAM 5.11

## 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 gecoc <gecos> gid <numeric gid> uid <numeric uid> home <home path> primary true | false shell <shell> system <systemid> username <username> os <ostype> endposix] [agreedtotems on | off]  
 [schemaname.fieldname <fieldvalue>] [schemaname.multiplefieldname 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] [nolicensas] [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]  
 gam <who> **show** gmailprofile [todrive]

## 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] [hangoutsmeeet] [visibility default | public | private] [tentative] [notifyattendees] [recurrence <repeat>] [noremindere] [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] [lastviewedbymedate] [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>] [writerscantshare]

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>] [writerscantshare]

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]

## 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>] [membernames] [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

## Various

gam **version** [simple|extended] [timeoffset] [location] [check]  
gam **version** | **help**  
gam **create** | **update** project  
gam **whatis** <user email>

## 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 terms<sup>1</sup>.  
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

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

## 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>

## Chrome Devices



**gam update** cros <device id> [user <user info>] [location <location info>] [notes <notes info>] [ou <new org unit>] [assetid <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> [nousers|child]

**gam delete** org <name>

**gam print** orgs [todrive] [toplevelonly] [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

## 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>

## 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>

## 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>] [istosaccepted <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|csvtest** <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]

## 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