

IBM Cloud Identity Portal

*Administration REST API Guide*



**Cloud Identity Portal Administration REST API Guide**

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# Chapter 1. IBM Cloud Identity Portal REST API

You can use the REST API to reduce the time that is needed to manage your Cloud Identity Portal administration tasks.



Managing large amounts of information by using the Cloud Identity Portal administration User Interface can be time-consuming. You can use the REST API as an alternative to the User Interface to reduce the time that is needed to manage your administration workload.

## Introduction

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Use the Cloud Identity Portal administration REST API as an alternative to the User Interface to administer the Cloud Identity Portal administration console.

**Note:** The Cloud Identity Portal API was previously known as the GMA API.

### Prerequisites

You must be familiar with the following tools and technologies:

- RESTful API
- JSON (JavaScript Object Notation)
- cURL for transferring data with URLs

You must also have an understanding of the administration of Cloud Identity Portal.





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## Chapter 2. Authentication

An OAuth 2.0 Client Credentials flow is used for authentication to the Cloud Identity Portal administration API.

Each API user must have a client ID and a client secret. To start communication with the Cloud Identity Portal administration API, the user sends the client ID and secret in exchange for a temporary token. The token is then used in each API request.

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### Client ID and client secret

Your Cloud Identity Service contact provides you with a Client ID and secret.

The following example shows the format of a client ID and secret.

- client-12345-12345
- secret-12345-12345

You must keep your client ID and secret secure.

---

### Request an access token

Request a temporary access token to make authenticated API requests to Cloud Identity Portal administration.

#### Request

POST /GmaApi/oauth/token

#### Example cURL request

```
# curl -v -X POST https://hostname/GmaApi/oauth/token -d  
"client_id=client-12345-12345&client_secret=secret-12345-  
12345&grant_type=client_credentials"
```

#### Resource URI

https://hostname/GmaApi/oauth/token

#### Request parameters

Table 1. Request parameters

Parameter	Type	Required	Description
<b>client_id</b>	String	Yes	Your client ID.
<b>client_secret</b>	String	Yes	Your client secret.
<b>grant_type</b>	String	Yes	The access grant type. The value of <b>grant_type</b> is <b>client_credentials</b> . No other grant type is supported.

#### Example response

```
{"access_token": "644d0ac0-908f-485a-ac8d-b5bb99f200d7" "token_type": "bearer",  
"expires_in": 3599}
```

## Response parameters

Table 2. Response parameters

Parameter	Description
<b>access_token</b>	The access token value.
<b>token_type</b>	The access token type is bearer, giving access to the bearer of the token.
<b>expires_in</b>	The time in seconds the token is valid for.

## Send an access token

You send your access token in an authorization header each time you make an API request to Cloud Identity Portal administration.

### Example cURL request

The following example cURL request shows an authorization header that contains the token type and value.

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/users/ggonzalez
```

The authorization header must be sent for every request (other than the request to get the access token itself).

## Chapter 3. Managing API keys

Generate API credentials your organization can use to work with the public Cloud Identity Portal API.

### About this task

Create, edit, and remove API keys.

### Procedure

1. In the navigation pane, click **Company Profile > API Key Management**.
2. Manage your API keys.

#### Add a REST API key

- a. Click **+ Add New API Key**.
- b. Specify the following fields:

<i>Table 3. API key fields</i>	
Field	Description
<b>Key Alias</b>	Create an alternate name for the API key with fifty alphanumeric characters or less that is easy to identify.
<b>Key Description</b>	Describe what the key is used for and where it is.
<b>Access Token Validity</b>	<p>Specify for how many seconds this token is valid. The approximate number of hours or days for the value that you entered is shown next to this field. You obtain an access token after you send the <code>client ID</code>, <code>secret</code>, and <code>grant_type</code> to the URL <code>POST https://GmaApi/oauth/token</code>. Use this access token to make calls to the API.</p> <p><b>Note:</b> The secret key will display once after you create your new API key. Once you save the changes for your new API key, the secret key will never display again.</p> <p>After the access token expires, obtain a new one with the <code>client ID</code>, <code>secret</code>, and <code>grant_type</code>. Alternatively, you can obtain a new access token by using the refresh token and the <code>client ID</code> and <code>secret</code>.</p>
<b>Refresh Token Validity</b>	Specify the number of seconds for the <b>Refresh Token Validity</b> time, which must be greater than the <b>Access Token Validity</b> value. The approximate number of hours or days for the value that you entered is shown next to this field.

#### Edit or delete a REST API key

- a. View the details of the API key that you want to edit or delete by searching in the **Narrow your search** bar or by clicking the arrow next to the key name.

- b. Select the API key name that you want to edit or delete.
- c. Take either of the following actions:
  - Edit and change the values for any of those described in Table 1.
  - Click **Remove Key** to permanently delete the key.

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# Chapter 4. API methods

All API methods return JSON formatted information.

## User methods

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User methods are used to create, retrieve, update, and delete users and user information.

### Retrieve attributes for a user

Retrieves user identity attributes for a user. By default, this method returns a lightweight set of attributes.

#### Request

GET /GmaApi/users/{username}

#### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/users/ggonzalez?gma_allAttrs=true
```

#### Resource URI

https://hostname/GmaApi/users/{username}

#### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

#### Request parameters

---

*Table 4. Path parameters*

Parameter	Type	Required	Description
<b>userAttr</b>	String	Required	User name of the user to retrieve attributes for.

Table 5. Query parameters

Parameter	Type	Required	Description
<b>gma_allAttrs</b>	Boolean	Optional	<p>A value of <code>false</code> returns a lightweight set of attributes:</p> <ul style="list-style-type: none"> <li>• <b>uid</b></li> <li>• <b>gtwayUUID</b></li> <li>• <b>cn</b></li> <li>• <b>givenName</b></li> <li>• <b>middleName</b></li> <li>• <b>sn</b></li> <li>• <b>mail</b></li> <li>• <b>gtwayAddressLine1</b></li> <li>• <b>gtwayAddressLine2</b></li> <li>• <b>gtwayUserType</b></li> <li>• <b>gtwayIsManager</b></li> <li>• <b>gtwayManager</b></li> <li>• <b>gtwayDelegate</b></li> <li>• <b>gma_isAccount</b></li> </ul> <p>A value of <code>true</code> returns all attributes for the user except for operational attributes and special reserved attributes such as <b>userPassword</b>. If no value is provided, a lightweight set of attributes is returned by default. See <a href="#">Chapter 6, “User identity attributes,”</a> on <a href="#">page 135</a> for a list of standard LDAP attributes</p>

### Example response

```
{
  "status": "success",
  "entry": {
    "uid": "ggonzalez",
    "gtwayIsManager": "FALSE",
    "gtwayUserType": "usertype_default",
    "mail": "gordita@gmail.com",
    "givenName": "Gordita",
    "cn": "Gordita Guanabana Gonzalez",
    "sn": "Gonzalez",
    "DEM01_Last4_SSN": "1234",
    "gtwayUUID": "68567181-2cf1-4b2b-bc10-6d6f05afb8e7",
    "gma_isAccount": "true"
  }
}
```

### Response parameters

Table 6. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>entry</b>	User attributes and values.

### Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve services for a user

Retrieves the names of services to which a user belongs.

### Request

```
GET /GmaApi/users/{gtwayUUID}/services
```

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/services
```

### Resource URI

```
https://hostname/GmaApi/users/{gtwayUUID}/services
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 7. Path parameters

Parameter	Type	Required	Description
<b>gtwayUUID</b>	String	Yes	The <b>gtwayUUID</b> of the user to retrieve services for. <b>Note:</b> You can use the <code>GET /GmaApi/users/{username}</code> method to retrieve the <b>gtwayUUID</b> of a user.

### Example response

```
{"status": "success", "total_count": 3, "entries": ["GatewayWAMService", "MyService", "ExampleSvc"]}
```

### Response parameters

Table 8. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	The number of services.
<b>entries</b>	A list of service names.

### Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve KBA security questions and answers for a user

Retrieves Knowledge-Based Authentication (KBA) security questions and answers for a specified user.

### Request

```
GET /GmaApi/users/{gtwayUUID}/kba
```

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/kba
```

### Resource URI

```
https://hostname/GmaApi/users/{gtwayUUID}/kba
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 9. Path parameters

Parameter	Type	Required	Description
<b>gtwayUUID</b>	String	Yes	The <b>gtwayUUID</b> of the user to retrieve questions and answers for.  <b>Note:</b> You can use the <code>GET /GmaApi/users/{username}</code> method to retrieve the <b>gtwayUUID</b> of a user.

Table 10. Query parameters

Parameter	Type	Required	Description
<b>languageCode</b>	String	Optional	The language code that applies to the question text, for example <code>fr-ca</code> . If not specified, the preferred language set in LDAP for the user is used. If no preferred language is set, then the default language of American English is used.
<b>returnAnswers</b>	Boolean	Optional	Specifies whether to return the answers that are given by the user to the questions. A value of <code>true</code> returns the answers. Defaults to <code>true</code> .

### Example response

```
{
  "status": "success",
  "totalCount": 3,
  "entries": [
    {
      "questionNumber": 3, "questionText": "What is the name of your childhood best friend?",
      "answer": "Fred"
    },
    {
      "questionNumber": 4, "questionText": "What is the street number of your childhood home?",
      "answer": "123"
    },
    {
      "questionNumber": 6, "questionText": "What was the name of your elementary school?",
      "answer": "Sweet Valley High"
    }
  ]
}
```



## Response parameters

Table 11. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	Returns the number of KBA question and answer sets.
<b>entries</b>	Returns a list of KBA questions and answers.
<b>questionNumber</b>	The question number.
<b>questionText</b>	The question text, in the language that is specified, if the <b>languageCode</b> parameter is used.
<b>answer</b>	The answer to the question.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Search for and retrieve users

Search for users by using request parameters to form search criteria to match users to. You can combine user attributes by using operators and you can use wildcards in your search.

### Request

GET /GmaApi/users

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" "https://hostname/GmaApi/users?gma_allAttrs=true&givenName=G*&st=FL"
```

### Resource URI

<https://hostname/GmaApi/users>

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

You can use operators and wildcards to filter results on matching conditions and values. For example, `givenName=G*&st=FL` returns all users whose given name begins with G and whose address is in the state of Florida. The AND (&) operator is the only operator supported. The asterisk (\*) wildcard is the only wildcard supported.

Each parameter can appear in the query one time only. If the same parameter appears twice, only one value is used. For example, `&givenName=Gordita&givenName=Mochi` causes one of the values, Gordita or Mochi to be discarded.

Table 12. Query parameters

Parameter	Type	Required	Description
<b>gma_allAttrs</b>	Boolean	Optional	<p>Specifies whether to return a lightweight or full set of user identity attributes for the returned list of users. A value of <code>false</code> returns a lightweight set of user identity attributes:</p> <ul style="list-style-type: none"> <li>• <b>uid</b></li> <li>• <b>gtwayUUID</b></li> <li>• <b>cn</b></li> <li>• <b>givenName</b></li> <li>• <b>middleName</b></li> <li>• <b>sn</b></li> <li>• <b>mail</b></li> <li>• <b>gtwayAddressLine1</b></li> <li>• <b>gtwayAddressLine2</b></li> <li>• <b>gtwayUserType</b></li> <li>• <b>gtwayIsManager</b></li> <li>• <b>gtwayManager</b></li> <li>• <b>gtwayDelegate</b></li> <li>• <b>gma_isAccount</b></li> </ul> <p>A value of <code>true</code> returns all attributes except for operational attributes and special reserved attributes such as <b>userPassword</b>. If no value is provided, a lightweight set of attributes is returned by default.</p>
<u>user attributes</u>		Optional	<p>Specifies the attributes and attribute values to include in the query to match users against. You can include one or more user attributes to filter your search results. See <a href="#">Chapter 6, “User identity attributes,” on page 135</a> for a list of standard LDAP attributes.</p>

### Example response

```

{"status": "result_limit_exceeded",
 "total_count": 2,
 "entries": [
  {"uid": "ggonzalez",
   "gtwayIsManager": "FALSE",
   "gtwayUserType": "usertype_default",
   "mail": "gordita@gmail.com",
   "givenName": "Gordita",
   "cn": "Gordita Guanabana Gonzalez",
   "sn": "Gonzalez",
   "st": "FL",
   "DEM01_Last4_SSN": "1234",
   "gtwayUUID": "68567181-2cf1-4b2b-bc10-6d6f05afb8e7",
   "gma_isAccount": "true"},
  {"uid": "gsanders",
   "gtwayIsManager": "FALSE",
   "gtwayUserType": "usertype_default",
   "mail": "gary123@hotmail.com",
   "givenName": "Gary Sanders",
   "cn": "Gary Sanders",
   "sn": "Sanders",
   "st": "FL",
   "gtwayUUID": "f3acac82-30c7-4c92-afb6-22eb6e46234d",
   "gma_isAccount": "true"}
 ]

```

```
]  
}
```

## Response parameters

Table 13. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	The number of users returned.
<b>entries</b>	List of users that match your search criteria, and their user identity attributes and values.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Create a user

Creates a user record as an identity or an account, by specifying user attributes as request parameters in a x-www-form-urlencoded request body.

### Request

POST /GmaApi/users/{userAttr}

### Example cURL request

```
# curl -v -X POST -H "Content-Type:application/x-www-form-urlencoded" -H  
"Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d  
"gma_isAccount=true&givenName=Gordita&sn=Gonzalez&DEM01_M_NICKNAME=Dita"  
"https://hostname/GmaApi/users/ggonzalez"
```

### Resource URI

https://hostname/GmaApi/users/{userAttr}

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request content type

x-www-form-urlencoded.

## Request parameters

Table 14. Path parameters

Parameter	Type	Required	Description
<b>userAttr</b>	String	Required	User name of the user to create.

Table 15. Request body parameters

Parameter	Type	Required	Description
<b>gma_isAccount</b>	Boolean	Optional	Specifies whether the user record is a Cloud Identity Service account. Users cannot authenticate to Cloud Identity Service without an account. If the <b>gma_isAccount</b> parameter is not specified it defaults to <code>false</code> , and the user record is created as an identity and not an account.
<b>givenName</b>	String	Optional	The given name of the user. If not specified then <b>username</b> is used.
<b>sn</b>	String	Optional	The surname of the user. If not specified then <b>username</b> is used.
<b>cn</b>	String	Optional	The common name for the user. If not specified then <b>givenName</b> , <b>middleName</b> and <b>sn</b> are used. For example, John Paul Smith. If any of these name fields are updated, then the <b>cn</b> value is updated automatically.
<u>user attributes</u>		Optional	Specify any other attributes and attribute values to include in the request. See <a href="#">Chapter 6, “User identity attributes,”</a> on page 135 for a list of standard LDAP attributes.

**Note:** No parameters for user attributes are mandatory, but **givenName**, **sn** and **cn** are required by LDAP. Attributes that are required by LDAP are automatically completed if they are not specified by you.

### Example response

```
{ "status": "success" "entry": " 68567181-2cf1-4b2b-bc10-6d6f05afb8e7" }
```

### Response parameters

Table 16. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>entry</b>	The <b>gtwayUUID</b> of the new user.

### Related concepts

#### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Validate an answer to a KBA security question

Validates the answer that is given by a user to a Knowledge-Based Authentication (KBA) question.

### Request

POST /GmaApi/users/{gtwayUUID}/kba/checkAnswer

### Example cURL requests

```
# curl -v -X POST -H "Content-Type:application/x-www-form-urlencoded" -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "questionNumber=3&answer=1977" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/kba/checkAnswer
```

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "questionNumber=3&answer=1977" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/kba/checkAnswer
```

### Resource URI

https://hostname/GmaApi/users/{gtwayUUID}/kba/checkAnswer

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request content type

x-www-form-urlencoded.

### Request parameters

Table 17. Path parameters

Parameter	Type	Required	Description
<b>gtwayUUID</b>	String	Yes	The <b>gtwayUUID</b> for the user whose answer you want to validate. <b>Note:</b> You can use the <a href="#">GET /GmaApi/users/{username}</a> method to retrieve the <b>gtwayUUID</b> of a user.

Table 18. Request body parameters

Parameter	Type	Required	Description
<b>questionNumber</b>	Integer	Yes	The question number.
<b>answer</b>	String	Yes	The answer to the question.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 19. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Validate an LDAP user password

Validates the LDAP password of a user.

### Request

POST /GmaApi/users/{gtwayUUID}/checkPassword

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "password=core1234" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/checkPassword
```

### Resource URI

https://hostname/GmaApi/users/{gtwayUUID}/checkPassword

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 20. Path parameters

Parameter	Type	Required	Description
<b>gtwayUUID</b>	String	Yes	The <b>gtwayUUID</b> of the user to check the password for. The password is validated by the <b>gtwayUUID</b> . <b>Note:</b> You can use the GET <a href="#">/GmaApi/users/{username}</a> method to retrieve the <b>gtwayUUID</b> of a user.

Table 21. Request body parameters

Parameter	Type	Required	Description
<b>password</b>	String	Yes	The password to validate.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 22. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Change a user password

Changes a password for a user.

Any customer-specific password change handlers are started.

**Important:** You must make client-side password validation checks, such as regular expression checks, before this API method is called.

### Request

POST /GmaApi/users/{gtwayUUID}/changePassword

### Example cURL requests

```
# curl -v -X POST -H "Content-Type:application/x-www-form-urlencoded" -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "password=core1234&newpassword=core1234!" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/changePassword
```

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "password=core1234&newpassword=core1234!" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/changePassword
```

### Resource URI

https://hostname/GmaApi/users/{gtwayUUID}/changePassword

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request content type

x-www-form-urlencoded

### Request parameters

Table 23. Path parameters

Parameter	Type	Required	Description
<b>gtwayUUID</b>	String	Yes	The <b>gtwayUUID</b> of the user to change a password for. The password is validated by the <b>gtwayUUID</b> . <b>Note:</b> You can use the <a href="#">GET /GmaApi/users/{username}</a> method to retrieve the <b>gtwayUUID</b> of a user.

Table 24. Request body parameters

Parameter	Type	Required	Description
<b>password</b>	String	Yes	The existing password.
<b>newpassword</b>	String	Yes	The new password.

### Example response

```
{"status": "success"}
```

## Response parameters

Table 25. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve last user password date and timestamp

Retrieves the last user password change date timestamp.

### Request

GET /GmaApi/users/{username}/passwordLastChanged

### Example cURL requests

```
curl -X GET https://hostname:9080/GmaApi/users/testDemote/passwordLastChanged -H "Authorization: Bearer 3d07d3e6-7d64-4a7c-847f-002b163e5abc"
```

### Resource URI

https://hostname/GmaApi/users/{username}/passwordLastChanged

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

## Request parameters

Table 26. Path parameters

Parameter	Type	Required	Description
<b>username</b>	String	Yes	The unique uid of a user.

## Example response

```
{
  "status": "success",
  "entry": {
    "passwordLastChanged": "Aug 07,2018 09:07:49 AM"
  }
}
```

## Response parameters

Table 27. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>passwordLastChanged</b>	Contains value for user's last password changed date with format "Month Date,Year Hrs:Mins:Seconds AM/PM".



## Update user attributes

Updates user attributes for a user by specifying user attributes as request parameters in a `x-www-form-urlencoded` request body.

### Request

```
PUT /GmaApi/users/{gtwayUUID}
```

### Example cURL request

```
# curl -v -X PUT -H "Content-Type:application/x-www-form-urlencoded" -H
"Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d
"gma_isAccount=false&telephoneNumber=555-555-5555&mail=gordita@gmail.com"
https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7
```

### Resource URI

```
https://hostname/GmaApi/users/{gtwayUUID}
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request content type

`x-www-form-urlencoded`.

### Request parameters

Table 28. Path parameters

Parameter	Type	Required	Description
<b>userAttr</b>	String	Required	The <b>gtwayUUID</b> of the user to update user attributes for. <b>Note:</b> You can use the <code>GET /GmaApi/users/{username}</code> method to retrieve the <b>gtwayUUID</b> of a user.

Table 29. Request body parameters

Parameter	Type	Required	Description
<b>gma_isAccount</b>	String	Optional	Specifies whether the user record is a Cloud Identity Service account. Users cannot authenticate to Cloud Identity Service without an account. Specify a value of <code>true</code> to convert an identity to an account, or a value of <code>false</code> to convert an account to an identity. If the <b>gma_isAccount</b> parameter is not specified, the user record status is unchanged.

Table 29. Request body parameters (continued)

Parameter	Type	Required	Description
<a href="#">user attributes</a>		Optional	<p>Specify which other attributes and attribute values to update in the user record. See <a href="#">Chapter 6, “User identity attributes,”</a> on <a href="#">page 135</a> for a list of standard LDAP attributes. The parameter name must match the LDAP attribute name.</p> <p><b>Note:</b> If an attribute is passed in a request for a user record that does not have the attribute, an error occurs. Only user attributes that currently exist in a user record can be updated or deleted.</p> <p><b>Note:</b> If an attempt is made to add a non-empty value to a single-value attribute, the attempt results in an implicit replacement for that attribute.</p> <p><b>Note:</b> To update user to manager role the <b>gtwayIsManager</b> is to set as True.</p>

### Example response

```
{"status": "success"}
```

### Response parameters

Table 30. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update answers to KBA security questions

Updates answers to Knowledge-Based Authentication (KBA) security questions for a specified user. The answers are updated by passing the question numbers and corresponding answers in a `x-www-form-urlencoded` request body.

Only the answer text can be updated. The question number and question text cannot be updated by using this method.

### Request

```
PUT /GmaApi/users/{gtwayUUID}/kba
```

### Example cURL request

```
# curl -v -X PUT -H "Content-Type:application/x-www-form-urlencoded" -H
"Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d
"question2=Fido&question7=Sweet Valley High&question11=A Few Good Men" https://
hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/kba
```

## Resource URI

`https://hostname/GmaApi/users/{gtwayUUID}/kba`

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request content type

`x-www-form-urlencoded`.

## Request parameters

Table 31. Path parameters

Parameter	Type	Required	Description
<b>gtwayUUID</b>	String	Yes	The <b>gtwayUUID</b> of the user to update answers for. You can use the GET <code>/GmaApi/users/{username}</code> method to retrieve the <b>gtwayUUID</b> of a user.

Table 32. Request body parameters

Parameter	Type	Required	Description
<b>question</b>	String	Yes	The updated answer text for the question number. The <b>question</b> parameter must have the question number included at the end, for example, <b>question1</b> or <b>question5</b> . The number must correspond to a currently defined question number.

## Example response

```
{"status": "success"}
```

## Response parameters

Table 33. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Delete a user

Deletes a user. The user to delete is specified by their **userAttr**.

## Request

DELETE `/GmaApi/users/{userAttr}`

### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7
```

### Resource URI

https://hostname/GmaApi/users/{userAttr}

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Request parameters

Table 34. Path parameters

Parameter	Type	Required	Description
<b>userAttr</b>	String	Yes	The <b>gtwayUUID</b> of the user to delete. <b>Note:</b> You can use the GET <code>/GmaApi/users/{username}</code> method to retrieve the <b>gtwayUUID</b> of a user.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 35. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Delete a security question for a user

Deletes a security question and its corresponding answer for a user. The user to delete the question for is specified by their **gtwayUUID**.

### Request

```
DELETE /GmaApi/users/{gtwayUUID}/kba/{question}
```

### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" https://hostname/GmaApi/users/68567181-2cf1-4b2b-bc10-6d6f05afb8e7/kba/1
```

### Resource URI

https://hostname/GmaApi/users/{gtwayUUID}/kba/{question}

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 36. Path parameters

Parameter	Type	Required	Description
<b>gtwayUUID</b>	String	Yes	The <b>gtwayUUID</b> of the user to delete the question for. <b>Note:</b> You can use the GET <code>/GmaApi/users/{username}</code> method to retrieve the <b>gtwayUUID</b> of a user.
<b>question</b>	Integer	Yes	The question number of the question to be deleted.

## Example response

```
{"status": "success"}
```

## Response parameters

Table 37. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## KBA methods

Knowledge Based Authentication (KBA) methods retrieve information about security questions.

### Retrieve active KBA security questions

Retrieves active Knowledge-Based Authentication (KBA) questions that are not deprecated.

#### Request

```
GET /GmaApi/kba/questions/active
```

#### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/kba/questions/active
```

#### Resource URI

```
https://hostname/GmaApi/kba/questions/active
```

#### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Example response

```
{
  "status": "success",
  "totalCount": 3,
  "entries": [
    {
      "questionNumber": 3,
      "questionTextByLanguage": {
        "en-us": "What is the name of your childhood best friend?"
      },
      "roleMappings": [
        {
          "priority": 1,
          "roleNames": [
            "Manager"
          ]
        },
        {
          "priority": 2,
          "roleNames": [
            "Employee",
            "Contractor"
          ]
        },
        {
          "priority": 2,
          "roleNames": [
            "Default"
          ]
        }
      ],
      "deprecated": false
    },
    {
      "questionNumber": 11,
      "questionTextByLanguage": {
        "en-us": "What was the name of your elementary school?"
      },
      "roleMappings": [
        {
          "priority": 1,
          "roleNames": [
            "Help Desk"
          ]
        }
      ],
      "deprecated": false
    },
    {
      "questionNumber": 13,
      "questionTextByLanguage": {
        "en-us": "What is your favorite movie?"
      },
      "roleMappings": [
        {
          "priority": 1,
          "roleNames": [
            "Help Desk"
          ]
        }
      ],
      "deprecated": false
    }
  ]
}
```

## Response parameters

Table 38. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> . Any LDAP query that exceeds a size limitation returns an error.

Table 38. Response parameters (continued)

Parameter	Description
<b>total_count</b>	The total number of KBA questions.
<b>entries</b>	A list of KBA questions.
<b>questionNumber</b>	A number that identifies a question.
<b>questionTextByLanguage</b>	A list of language and question text pairs. The languages are in language code format, for example, en-us.
<b>roleMappings</b>	Roles the question applies to. If your organization is not using different KBA questions for different roles, you can ignore the <b>roleMappings</b> parameter.
<b>priority</b>	The priority of the question for a role, where 1 is the highest priority. Questions might be prioritized when a user has multiple roles.
<b>roleNames</b>	Name of the role or roles.
<b>deprecated</b>	A question is deprecated if it is no longer in use for users who are responding to KBA questions and answers. A deprecated question is still maintained for users who registered with the question before it was deprecated. A value of <code>false</code> indicates that a question is active.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve inactive KBA security questions

Retrieves deprecated Knowledge-Based Authentication (KBA) questions that are inactive.

### Request

GET /GmaApi/kba/questions/inactive

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/kba/questions/inactive
```

### Resource URI

https://hostname/GmaApi/kba/questions/inactive

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Example response

```
{
  "status": "success",
  "totalCount": 1,
  "entries": [
    {
      "questionNumber": 1,
      "questionTextByLanguage": {
        "en-us": "In what year was your father born?",
        "fr-ca": "En quelle année votre père était-il né ?"
      },
      "roleMappings": [],
      "deprecated": true
    }
  ]
}
```

## Response parameters

Table 39. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> . Any LDAP query that exceeds a size limitation returns an error.
<b>total_count</b>	The total number of KBA questions.
<b>entries</b>	A list of KBA questions.
<b>questionNumber</b>	A number that identifies a question.
<b>questionTextByLanguage</b>	A list of language and question text pairs. The languages are in language code format, for example, en-us.
<b>roleMappings</b>	Roles the question applies to. If your organization is not using different KBA questions for different roles, you can ignore the <b>roleMappings</b> parameter.
<b>priority</b>	The priority of the question for a role, where 1 is the highest priority. Questions might be prioritized when a user has multiple roles.
<b>roleNames</b>	Name of the role or roles.
<b>deprecated</b>	A question is deprecated if it is no longer in use for users who are responding to KBA questions and answers. A deprecated question is still maintained for users who registered with the question before it was deprecated. A value of <code>true</code> indicates that a question is deprecated.

### Related concepts

#### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve all KBA security questions

Retrieves all Knowledge-Based Authentication (KBA) questions that are configured.

### Request

```
GET /GmaApi/kba/questions
```

### Example cURL request

```
curl -X GET https://hostname/GmaApi/kba/questions -H 'Authorization: Bearer f49bc2a1-587e-4c20-b995-2d8a5bc10fb9'
```

### Resource URI

```
https://hostname/GmaApi/kba/questions
```

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Example response

```
{
  "status": "success",
```



```

"entries": [
  {
    "questionNumber": 1,
    "questionTextByLanguage": {
      "hi": "in what year was your father bore in hindi?",
      "de-de": "In what year your father born in german?",
      "en-us": "In what year was your father born?",
      "af": "In what year was your father born in afrikan?",
      "zh-hk": "In what year was your father born in chinese?",
      "el": "In what year was your father born in Greek?",
      "zh": "In what year was your father born in chinese?",
      "cs": "V jakém roce se tvůj otec narodil?",
      "fr-be": "father born in french?",
      "bn-bn": "In what year was your father born? Bengali",
      "zu": "In what year was your father born in zulu?",
      "nl": "In welk jaar werd je vader geboren?",
      "tr": "In what year was your father born in turkish?"
    },
    "roleMappings": [],
    "deprecated": false
  },
  {
    "questionNumber": 2,
    "questionTextByLanguage": {
      "cs": "V jakém roce se vaše matka narodila?",
      "de-de": "In what year Mother born in german?",
      "en-us": "In what year was your mother born?",
      "fr-be": "In what year was your mother born in french?",
      "af": "In what year was your mother born in afrikan?",
      "zh-hk": "In what year was your mother born in chinese?",
      "el": "In what year was your mother born in Greek?",
      "bn-bn": "In what year was your motherborn in bengali?",
      "zu": "In what year was your mother born in zulu?",
      "zh": "In What year was your mother born in chinese?",
      "nl": "mothers born",
      "tr": "In what year was your mother born in turkish?"
    },
    "roleMappings": [],
    "deprecated": true
  },
  {
    "questionNumber": 3,
    "questionTextByLanguage": {
      "en-us": "What is the name of your childhood best friend?",
      "fr-be": "What is the name of your childhood best friend in french?",
      "el": "What is the name of your childhood best friend in Greek?",
      "zh": "What is the name of your childhood best friend in chinese?",
      "nl": "childhood best friend"
    },
    "roleMappings": [],
    "deprecated": true
  },
  {
    "questionNumber": 20,
    "questionTextByLanguage": {
      "cs": "do you hav life insurance czech?",
      "en-us": "Do you have life insurance?",
      "fr-be": "Do you have life insurance in french",
      "en-za": "do u have insurance in SA",
      "ca": "Do you have life insurance in catalan?"
    },
    "roleMappings": [],
    "deprecated": false
  },
  "totalCount": 25
}

```

## Response parameters

Table 40. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> . Any LDAP query that exceeds a size limitation returns an error.
<b>total_count</b>	The total number of KBA questions.
<b>entries</b>	A list of KBA questions.
<b>questionNumber</b>	A number that identifies a question.
<b>questionTextByLanguage</b>	A list of language and question text pairs. The languages are in language code format, for example, en-us.
<b>roleMappings</b>	Roles the question applies to. If your organization is not using different KBA questions for different roles, you can ignore the <b>roleMappings</b> parameter.
<b>deprecated</b>	A question is deprecated if it is no longer in use for users who are responding to KBA questions and answers. A deprecated question is still maintained for users who registered with the question before it was deprecated. A value of <code>false</code> indicates that a question is active.

## Group methods

Group methods are used to create, retrieve, update, and delete groups and group information.

### Retrieve all group names

Retrieves the names of all groups.

#### Request

GET /GmaApi/groups/names

#### Example cURL request

```
# curl -v -X GET -H Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7 https://hostname/GmaApi/groups/names
```

#### Resource URI

https://hostname/GmaApi/groups/names

#### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

#### Example response

```
{
  "status": "success",
  "total_count": 3,
  "entries": ["Group1", "TestGroup", "MyGroup"]
}
```

## Response parameters

Table 41. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	Returns the total number of groups.
<b>entries</b>	Returns a list of group names.

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve group members

Retrieves the members of a group and returns the **gtwayUUID** of each member.

### Request

GET /GmaApi/groups/{groupName}/members

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/groups/Group1/members
```

### Resource URI

https://hostname/GmaApi/groups/{groupName}/members

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

## Request parameters

Table 42. Path parameters

Parameter	Type	Required	Description
<b>groupName</b>	String	Yes	The name of the group to retrieve members for.

## Example response

```
{
  "status": "success",
  "total_count": 3,
  "entries": [
    "0a577a49-c211-4b69-a81f-01537a302c0b",
    "f3acac82-30c7-4c92-afb6-22eb6e46234d",
    "224187d8-6aee-42e8-826d-4384a5459efd"
  ]
}
```

## Response parameters

Table 43. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> . Exceeding a size limitation in the number of results that can be displayed returns an error.
<b>total_count</b>	The total number of group members.
<b>entries</b>	A list with the <b>gtwayUUID</b> for each user that is a member of the group.

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Create a group

Creates a group, optionally with members.

### Request

POST /GmaApi/groups/{groupName}

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "description=A group for test purposes&member=0a577a49-c211-4b69-a81f-01537a302c0b&member=224187d8-6aee-42e8-826d-4384a5459efd" https://hostname/GmaApi/groups/TestGroup
```

### Resource URI

https://hostname/GmaApi/groups/{groupName}

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

## Request parameters

Table 44. Path parameters

Parameter	Type	Required	Description
<b>groupName</b>	String	Yes	The name of the group to create.

Table 45. Request body parameters

Parameter	Type	Required	Description
<b>description</b>	String	Optional	A description for the group.
<b>member</b>	String	Optional	Specify members by their <b>gtwayUUIDs</b> . You can specify multiple members.

## Example response

```
{"status": "success"}
```

## Response parameters

Table 46. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add a member to a group

Adds a member to a group.

### Request

PUT /GmaApi/groups/{groupName}/members/{userUUID}

### Example cURL request

```
# curl -v -X PUT -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/groups/TestGroup/members/0e7e6d21-f2d1-40f4-9f8f-3f9cc4e39cbb
```

### Resource URI

https://hostname/GmaApi/groups/{groupName}/members/{userUUID}

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

## Request parameters

Table 47. Path parameters

Parameter	Type	Required	Description
<b>groupName</b>	String	Yes	The name of the group to which the user is being added as a member.
<b>userUUID</b>	String	Yes	The <b>userUUID</b> of the user to add as a member.

## Example response

```
{"status": "success"}
```

## Response parameters

Table 48. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add one or more members to a group

Adds one or more members to a group.

### Request

PUT /GmaApi/groups/{groupName}/members

### Example cURL request

```
# curl -v -X PUT -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "member=0a577a49-c211-4b69-a81f-01537a302c0b&member=224187d8-6aee-42e8-826d-4384a5459efd" https://hostname/GmaApi/groups/TestGroup/members
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Resource URI

https://hostname/GmaApi/groups/{groupName}/members

### Path parameters

Table 49. Path parameters

Parameter	Type	Required	Description
<b>groupName</b>	String	Yes	The <b>groupName</b> to which the new member or members are added. The members to be added are passed as <b>gtwayUUID</b> data. The <b>gtwayUUIDs</b> contain the users to be added as members. Multiple values can be specified for this parameter.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 50. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Remove a member from a group

Removes a member from a group by specifying the **memberUUID** of the user to remove.

### Request

```
DELETE /GmaApi/groups/{groupName}/members/{memberUUID}
```

### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" https://hostname/GmaApi/groups/TestGroup/member/0a577a49-c211-4b69-a81f-01537a302c0b
```

### Resource URI

```
https://hostname/GmaApi/groups/{groupName}/members/{memberUUID}
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 51. Path parameters

Parameter	Type	Required	Description
<b>groupName</b>	String	Yes	The name of the group from which the member is to be removed.
<b>memberUUID</b>		Yes	The <b>memberUUID</b> of the member to be removed from the group.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 52. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Remove one or more members from a group

Removes one or more members from a group by specifying the **gtwayUUID** of each user to remove.

### Request

```
DELETE /GmaApi/groups/{groupName}/members
```

### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" -d "member=0a577a49-c211-4b69-a81f-01537a302c0b&member=224187d8-6aee-42e8-826d-4384a5459efd" https://hostname/GmaApi/groups/TestGroup/members
```

### Resource URI

https://hostname/GmaApi/groups/{groupName}/members

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Path parameters

Table 53. Path parameters

Parameter	Type	Required	Description
<b>groupName</b>	String	Yes	The name of the group from which a member or members are to be removed.

Table 54. Request body parameters

Parameter	Type	Required	Description
<b>member</b>	String	Yes	The <b>gtwayUUID</b> of the user to remove as a member. Multiple members can be specified.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 55. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Delete a group

Deletes a group.

### Request

```
DELETE /GmaApi/groups/{groupName}
```

### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" https://hostname/GmaApi/groups/TestGroup
```



### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Resource URI

`https://hostname/GmaApi/groups/{groupName}`

### Path parameters

Table 56. Path parameters

Parameter	Type	Required	Description
<code>groupName</code>	String	Yes	The name of the group to be deleted.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 57. Response parameters

Parameter name	Description
<code>status</code>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Service methods

Service methods are used to, retrieve, update, and delete services and service information.

### Retrieve the names of all services

Retrieves the names of all services.

#### Request

GET /GmaApi/services/names

#### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/services/names
```

#### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

#### Resource URI

`https://hostname/GmaApi/services/names`

## Example response

```
{
  "status": "success",
  "total_count": 7,
  "entries": ["GatewayWAMService", "Service1", "Service2", "ExampleSvc", "OtherSvc",
    "ChildService1A", "ChildService1B"]
}
```

## Response parameters

Table 58. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	The total number of services.
<b>entries</b>	A list of service names.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve the attributes of a service

Retrieves the attributes of a service. Does not retrieve child services or contained services.

### Request

GET /GmaApi/services/{serviceName}

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-
b5bb99f200d7" https://hostname/GmaApi/services/Service1
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 59. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the service to retrieve attributes for.

## Example response

```
{
  "status": "success",
  "entry": {
    "uid": "ggonzalez",
    "gtwayIsManager": "FALSE",
    "gtwayUserType": "usertype_default",
    "mail": "gordita@gmail.com",
    "givenName": "Gordita",
    "cn": "Gordita Guanabana Gonzalez",
    "sn": "Gonzalez",
    "DEM01_Last4_SSN": "1234",
  }
}
```

```
"gtwayUUID": "68567181-2cf1-4b2b-bc10-6d6f05afb8e7",
"gma_isAccount": "true"}
}
```

## Response parameters

Table 60. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>entry</b>	Parameter and parameter values for the service.
<b>gtwayOwner</b>	The <b>gtwayUUID</b> of the user that owns the service.
<b>gtwayOwnerApproval</b>	Indicates whether the approval of the service owner is required to add members to the service dynamically through a policy. Defaults to <code>false</code> .
<b>gtwayManagerApproval</b>	Indicates whether the approval of the user manager is required to add members to the service dynamically through a policy. Defaults to <code>false</code> .
<b>gtwayOwnerApprovalManual</b>	Indicates whether the approval of the service owner is manual or automatic. Defaults to <code>false</code> , service owner approval is automated.
<b>gtwayManagerApprovalManual</b>	Indicates whether <b>gtwayOwnerApprovalManual</b> is required for users manually added through a request. Defaults to <code>false</code> .
<b>gtwayApprovalGracePeriod</b>	The number of days before the approval reminder action is due. Defaults to 0.
<b>gtwayApprovalReminderActionId</b>	Approval reminder action ID. The action to be taken when service membership is not approved by the due date. Defaults to 1. One of the following five action IDs can be specified. <ul style="list-style-type: none"> <li>• 0. Take no action.</li> <li>• 1. Auto deny.</li> <li>• 2. Auto approve.</li> <li>• 3. Email approver</li> <li>• 4. Email manager of approver.</li> </ul>
<b>gtwayOwnerRecert</b>	Indicates whether service owner recertification is required for users added dynamically through a policy. Defaults to <code>false</code> .
<b>gtwayManagerRecert</b>	Indicates whether manager recertification is required for users added dynamically through a policy. Defaults to <code>false</code> .
<b>gtwayOwnerRecertManual</b>	Indicates whether <b>gtwayOwnerRecertManual</b> is required for users manually added through a request. Defaults to <code>false</code> .
<b>gtwayManagerRecertManual</b>	Indicates whether <b>gtwayManagerRecertManual</b> is required for users manually added through a request. Defaults to <code>false</code> .
<b>gtwayRecertGracePeriod</b>	The number of days before the recertification reminder action is due. Defaults to 0.

Table 60. Response parameters (continued)

Parameter	Description
<b>gtwayRecertReminderActionId</b>	Recertification reminder action ID. The action to be taken when service membership is not recertified by the due date. Defaults to 1. One of the following five action IDs can be specified. <ul style="list-style-type: none"> <li>• 0. Take no action.</li> <li>• 1. Auto deny.</li> <li>• 2. Auto approve.</li> <li>• 3. Email approver</li> <li>• 4. Email manager of approver.</li> </ul>
<b>gtwayParentService</b>	Name of parent service. Required if membership of a parent service is required for membership of the service.
<b>gtwayMemberNotification</b>	Indicates whether members are notified of membership assignment and revocation. Defaults to false.
<b>gtwaySODCalloutRequired</b>	Indicates whether a Separation of Duties (SOD) callout is required before the approval process is triggered to record service request approvals on an external system.
<b>gtwayDestroyIdOnRevoke</b>	Indicates whether to delete the user account when membership to the service is revoked. Defaults to false.
<b>gtwayHideFromSelfCare</b>	Indicates whether to hide the service from users in the Self Service portal.
<b>gtwayLastRecertDate</b>	The last recertification date.
<b>gtwayRequestInstructions</b>	Request instructions.
<b>gtwayNoMembers</b>	Indicates whether the service can have members.
<b>gtwayNotificationUser</b>	The <b>gtwayUUID</b> of a user to notify of changes.
<b>gtwayMgrNotification</b>	Indicates whether to send notifications to the user manager of membership assignments and revocations.
<b>gtwayProvisioningInstructions</b>	Provisioning instructions for the service.
<b>gtwayDeProvisioningInstructions</b>	Deprovisioning instructions for the service.
<b>gtwayServiceRequestXml</b>	Service request XML.
<b>gtwayServiceRequestXml2</b>	Service request XML 2.
<b>gtwayServiceCannotbeRequested</b>	Indicates service cannot be requested directly. Default it is set to false .

#### Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve members of a service

Retrieves members of a service. This method returns the **gtwayUUID** of each member.

### Request

GET /GmaApi/services/{serviceName}/members

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/services/Service1/members
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}/members

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 61. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the service to retrieve members for.

### Example response

```
{
  "status": "success",
  "total_count": 3,
  "entries": [
    "0a577a49-c211-4b69-a81f-01537a302c0b",
    "f3acac82-30c7-4c92-afb6-22eb6e46234d",
    "224187d8-6aee-42e8-826d-4384a5459efd"
  ]
}
```

### Response parameters

Table 62. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	The total number of service members for the service.
<b>entries</b>	The <b>gtwayUUID</b> for each user that is a member of the service.

### Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve child services for a service

Retrieves the names of child services of a service.

### Request

GET /GmaApi/services/{serviceName}/children

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/services/Service1/children
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}/children

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 63. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the service to list child services for.

### Example response

```
{
  "status": "success",
  "total_count": 2,
  "entries": ["ChildService1A", "ChildService1B"]
}
```

### Response parameters

Table 64. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	The number of child services.
<b>entries</b>	A list of child service names.

### Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve parent service

Retrieves a parent service. This method also returns the name of each child service. A child service has only one parent service.

### Request

GET /GmaApi/services/{serviceName}/parent

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/services/ChildService1A/parent
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}/parent

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 65. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the service to retrieve the parent service for.

### Example response

```
{
  "status": "success",
  "entry": "Service1"
}
```

### Response parameters

Table 66. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>entry</b>	The name of the parent service.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve contained services

Retrieves the names of services that are contained by a service.

### Request

GET /GmaApi/services/{serviceName}/contained

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/services/Service1/contained
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}/contained

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Request parameters

Table 67. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the service to list contained services for.

### Example response

```
{
  "status": "success",
  "total_count": 2,
  "entries": ["ContainerService1A", "ContainerService1B"]
}
```

### Response parameters

Table 68. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	The total number of contained services.
<b>entries</b>	A list of names of the contained services.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve container services

Retrieves the names of container services for a contained service.

### Request

```
GET /GmaApi/services/{serviceName}/containers
```

### Example cURL request

```
curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/services/Service1/containers
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}/containers



## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 69. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the contained service to list container services for.

## Example response

```
{
  "status": "success",
  "total_count": 2,
  "entries": ["ContainerService1A", "ContainerService1B"]
}
```

## Response parameters

Table 70. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>total_count</b>	The number of container services.
<b>entries</b>	The names of container services.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Change service attributes

Changes the service attributes of a service. This method cannot be used to modify members, child services, or contained services.

## Request

PUT /GmaApi/services/{serviceName}

## Example cURL request

```
# curl -v -X PUT -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "gtwayManagerApproval=false&gtwayOwner=0a577a49-c211-4b69-a81f-01537a302c0b" https://hostname/GmaApi/services/Service2
```

## Resource URI

https://hostname/GmaApi/services/{serviceName}

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 71. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the service to be modified.

Table 72. Request body parameters

Parameter	Type	Required	Description
<b>gtwayOwner</b>	String	Optional	The <b>gtwayUUID</b> of the user that owns the service.
<b>gtwayOwnerApproval</b>	Boolean	Optional	Specifies whether the approval of the service owner is required to add members to the service dynamically through a policy. Defaults to <i>false</i> .
<b>gtwayManagerApproval</b>	Boolean	Optional	Specifies whether the approval of the user manager is required to add members to the service dynamically through a policy. Defaults to <i>false</i> .
<b>gtwayOwnerApprovalManual</b>	Boolean	Optional	Specifies whether the approval of the service owner is manual or automatic. Defaults to <i>false</i> , service owner approval is automated.
<b>gtwayManagerApprovalManual</b>	Boolean	Optional	Specifies whether <b>gtwayOwnerApprovalManual</b> is required for users manually added through a request. Defaults to <i>false</i> .
<b>gtwayApprovalGracePeriod</b>	String	Optional	The number of days before the approval reminder action is due. Defaults to 0.
<b>gtwayApprovalReminderActionId</b>	Integer	Optional	Approval reminder action ID. The action to be taken when service membership is not approved by the due date. Defaults to 1. One of the following five action IDs can be specified. <ul style="list-style-type: none"> <li>• 0. Take no action.</li> <li>• 1. Auto deny.</li> <li>• 2. Auto approve.</li> <li>• 3. Email approver</li> <li>• 4. Email manager of approver.</li> </ul>
<b>gtwayOwnerRecert</b>	Boolean	Optional	Specifies whether service owner recertification is required for users added dynamically through a policy. Defaults to <i>false</i> .
<b>gtwayManagerRecert</b>	Boolean		Specifies Indicates whether manager recertification is required for users added dynamically through a policy. Defaults to <i>false</i> .

Table 72. Request body parameters (continued)

Parameter	Type	Required	Description
<b>gtwayOwnerRecertManual</b>	Boolean	Optional	Specifies whether <b>gtwayOwnerRecertManual</b> is required for users manually added through a request. Defaults to <code>false</code> .
<b>gtwayManagerRecertManual</b>	Boolean	Optional	Specifies whether <b>gtwayManagerRecertManual</b> is required for users manually added through a request. Defaults to <code>false</code> .
<b>gtwayRecertGracePeriod</b>	Integer	Optional	The number of days before the recertification reminder action is due. Defaults to 0.
<b>gtwayRecertReminderActionId</b>	String	Optional	Recertification reminder action ID. The action to be taken when service membership is not recertified by the due date. One of the following five action IDs can be specified. <ul style="list-style-type: none"> <li>• 0. Take no action.</li> <li>• 1. Auto deny.</li> <li>• 2. Auto approve.</li> <li>• 3. Email approver</li> <li>• 4. Email manager of approver.</li> </ul>
<b>gtwayParentService</b>	String	Optional	Name of parent service. Required if membership of a parent service is required for membership of the service.
<b>gtwayMemberNotification</b>	Boolean	Optional	Specifies whether members are notified of membership assignment and revocation. Defaults to <code>false</code> .
<b>gtwaySODCalloutRequired</b>	Boolean	Optional	Specifies whether a Separation of Duties (SOD) callout is required before the approval process is triggered to record service request approvals on an external system.
<b>gtwayDestroyIdOnRevoke</b>	Boolean	Optional	Specifies whether to delete the user account when membership to the service is revoked. Defaults to <code>false</code> .
<b>gtwayHideFromSelfCare</b>	Boolean	Optional	Specifies whether to hide the service from users in the Self Service portal.
<b>gtwayLastRecertDate</b>	String	Optional	The last recertification date.
<b>gtwayRequestInstructions</b>	String	Optional	Request instructions.
<b>gtwayNoMembers</b>	Boolean	Optional	Specifies whether the service can have members.
<b>gtwayNotificationUser</b>	String	Optional	The <b>gtwayUUID</b> of a user to notify of changes.

Table 72. Request body parameters (continued)

Parameter	Type	Required	Description
<b>gtwayMgrNotification</b>	Boolean	Optional	Specifies whether to send notifications to the user manager of membership assignments and revocations.
<b>gtwayProvisioningInstructions</b>	String	Optional	Provisioning instructions for the service.
<b>gtwayDeProvisioningInstructions</b>	String	Optional	Deprovisioning instructions for the service.
<b>gtwayServiceRequestXml</b>	String	Optional	Service request XML.
<b>gtwayServiceRequestXml2</b>	String	Optional	Service request XML 2.
<b>gtwayServiceCannotbeRequested</b>	String	Optional	Indicates service cannot be requested directly. Default it is set to false.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 73. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add or remove service members

Adds one or more members to a service or removes one or more members from a service.

### Request

```
PUT /GmaApi/services/{serviceName}/members
```

### Example cURL requests

```
# curl -v -X PUT -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "member=0a577a49-c211-4b69-a81f-01537a302c0b&member=224187d8-6aee-42e8-826d-4384a5459efd" https://hostname/GmaApi/services/Service2/members
```

```
# curl -v -X PUT -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "action=delete&member=0a577a49-c211-4b69-a81f-01537a302c0b&member=224187d8-6aee-42e8-826d-4384a5459efd" https://hostname/GmaApi/services/Service2/members
```

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

## Resource URI

https://hostname/GmaApi/services/{serviceName}/members

## Request parameters

Table 74. Request body parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the service to add members to or remove members from.

Table 75. Query parameters

Parameter	Type	Required	Description
<b>member</b>	String	At least one of <b>member</b> or <b>manualMember</b> is required.	The <b>UUID</b> of the user to add or remove as a member. Multiple members can be specified.
<b>manualMember</b>	String		The <b>UUID</b> of the user to add or remove as a manual member. Multiple manual members can be specified.  The user membership of a group can be manually defined, or automatically defined by a provisioning policy. A manual member is not subject to any automated processes that add or remove members. For more information, see <a href="#">Managing services</a> .
<b>action</b>	String	No	A value of <code>delete</code> removes members from the specified service. Members are added by default.
<b>gma_adminRequest</b>	Boolean	No	Specifies whether the request is being made by an administrator. A value of <code>true</code> indicates that the request is being made by an administrator, defaults to <code>false</code> .
<b>gma_requester</b>	String	No	The <b>UUID</b> of the user that initiates the request.

## Example response

```
{"status": "success"}
```

## Response parameters

Table 76. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add a child to a service

Adds a child to a service.

### Request

```
PUT /GmaApi/services/{serviceName}/children/{childServiceName}
```

### Example cURL request

```
# curl -v -X PUT -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/services/Service1/children/ChildService1C
```

### Resource URI

```
https://hostname/GmaApi/services/{serviceName}/children/{childServiceName}
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 77. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the parent service to add the child service to.
<b>childServiceName</b>	String	Yes	Name of the child service to add.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 78. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add multiple child services

Adds multiple child services to a service.

### Request

```
PUT /GmaApi/services/{serviceName}/children
```

### Example cURL request

```
# curl -v -X PUT -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d "child=ChildService2A&child=ChildService2B&child=ChildService2C" https://hostname/GmaApi/services/Service2/children
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}/children

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 79. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	Name of service to add children to.

Table 80. Request body parameters

Parameter	Type	Required	Description
<b>child</b>	String	Yes	Name of child service to add. Multiple services can be added.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 81. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add a contained service

Adds a contained service to a service.

### Request

```
PUT /GmaApi/services/{serviceName}/contained/{containedServiceName}
```

### Example cURL request

```
curl -v -X PUT -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/services/Service1/contained/ContainedService1C?approvalProcess=AUTO_APPROVE_NON_SOD_ONLY
```

## Resource URI

`https://hostname/GmaApi/services/{serviceName}/contained/{containedServiceName}`

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 82. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the container service to add the contained service to.
<b>containedService</b>	String	Yes	The name of the contained service to add to the container service.
<b>approvalProcess</b>	String	No	Approval process for contained services. Allowed values are: <ul style="list-style-type: none"><li>• DEFAULT</li><li>• AUTO_APPROVE_ALL</li><li>• AUTO_APPROVE_SOD_ONLY</li><li>• AUTO_APPROVE_NON_SOD_ONLY</li></ul>

## Example response

```
{"status": "success"}
```

## Response parameters

Table 83. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add multiple contained services

Adds multiple contained services to a service.

### Request

```
PUT /GmaApi/services/{serviceName}/contained
```

### Example cURL request

```
# curl -k -X PUT -H "Authorization: Bearer 1148335b-8b77-443c-86b8-6b4a4bbb1ba7" -d 'containedService=ContainedService1&containedService=ContainedService2' https://hostname/GmaApi/services/Container/contained?approvalProcess=AUTO_APPROVE_NON_SOD_ONLY
```



## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Resource URI

`https://hostname/GmaApi/services/{serviceName}/contained`

## Request parameters

Table 84. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the container service to add contained services to.

Table 85. Request body parameters

Parameter	Type	Required	Description
<b>containedService</b>	String	Yes	The name of the contained service to add to the container service. Multiple services can be specified.
<b>approvalProcess</b>	String	No	Approval process for contained services. Allowed values are: <ul style="list-style-type: none"><li>• DEFAULT</li><li>• AUTO_APPROVE_ALL</li><li>• AUTO_APPROVE_SOD_ONLY</li><li>• AUTO_APPROVE_NON_SOD_ONLY</li></ul>

## Example response

```
{"status": "success"}
```

## Response parameters

Table 86. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Remove a child service

Removes a child service from a parent service by using the **childServiceName** parameter.

## Request

DELETE /GmaApi/services/{serviceName}/children/{childServiceName}

### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" https://hostname/GmaApi/services/Service1/children/ChildService1C
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}/children/{childServiceName}

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Request parameters

Table 87. Path parameters

Parameter	Type	Required	Description
serviceName	String	Yes	Name of the parent service.
childServiceName	String	Yes	Name of the child service to remove.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 88. Response parameters

Parameter	Description
status	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Remove multiple child services

Removes multiple child services from a parent service.

### Request

```
POST /GmaApi/services/{serviceName}/children
```

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" -d "child=ChildService2A&child=ChildService2B&child=ChildService2C" https://hostname/GmaApi/services/Service2/children
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}/children

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

## Request parameters

Table 89. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	Name of the parent service from which to remove child services.

Table 90. Request body parameters

Parameter	Type	Required	Description
<b>childServiceName</b>	String	Yes	Name of child service to remove. Multiple services can be specified.

## Example response

```
{"status": "success"}
```

## Response parameters

Table 91. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Remove a contained service

Removes a contained service from a container service.

### Request

```
DELETE /GmaApi/services/{serviceName}/contained/{containedService}
```

### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" https://hostname/GmaApi/services/Service1/contained/CotainedService1C
```

### Resource URI

```
https://hostname/GmaApi/services/{serviceName}/contained/{containedService}
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 92. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	Name of the container service.
<b>containedService</b>	String	Yes	Name of the contained service to remove.

## Example response

```
{"status": "success"}
```

## Response parameters

Table 93. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Remove multiple contained services

Removes multiple contained services from a container service.

### Request

```
POST /GmaApi/services/{serviceName}/contained
```

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" -d "containedService=ContainedService2A&containedService=ContainedService2B&containedService=ContainedService2C" https://hostname/GmaApi/services/Service2/contained
```

### Resource URI

```
https://hostname/GmaApi/services/{serviceName}/contained
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 94. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	Name of the container service from which to remove contained services.

Table 95. Request body parameters

Parameter	Type	Required	Description
<b>containedService</b>	String	Yes	Name of contained service to remove. Multiple services can be specified.

### Example response

```
{"status": "success"}
```

### Response parameters

Table 96. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Create a service

Creates a service.

### Request

POST /GmaApi/services/{serviceName}

### Example cURL request

```
curl -v -X POST -H \"Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7\" https://hostname/GmaApi/services/Service1
```

### Resource URI

https://hostname/GmaApi/services/{serviceName}

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 97. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	The name of the service to be created which will accept maximum 252 characters.

## Request parameters

Table 98. Request body parameters

Parameter	Type	Required	Description
<b>gma_requester</b>	String	No	The UUID of the user that initiates the request.
<b>gtwayOwner</b>	String	No	The gtwayUUID of the user that owns the service.
<b>gtwayOwnerApproval</b>	Boolean	No	Specifies whether the approval of the service owner is required to add members to the service dynamically through a policy. Defaults to false.
<b>gtwayManagerApproval</b>	Boolean	No	Specifies whether the approval of the user manager is required to add members to the service dynamically through a policy. Defaults to false.
<b>gtwayOwnerApprovalManual</b>	Boolean	No	Specifies whether the approval of the service owner is manual or automatic. Defaults to false, service owner approval is automated.
<b>gtwayManagerApprovalManual</b>	Boolean	No	Specifies whether gtwayOwnerApprovalManual is required for users manually added through a request. Defaults to false.
<b>gtwayApprovalGracePeriod</b>	Boolean	No	The number of days before the approval reminder action is due. Defaults to 0.
<b>gtwayApprovalReminderActionId</b>	String	No	Approval reminder action ID. The action to be taken when service membership is not approved by the due date. Defaults to 1. One of the following five action IDs can be specified: <ul style="list-style-type: none"> <li>1. 0 Take no action</li> <li>2. 1 Auto deny</li> <li>3. 2 Auto approve</li> <li>4. 3 Email approver</li> <li>5. 4 Email manager of approver.</li> </ul>
<b>gtwayOwnerRecert</b>	String	No	Boolean value that specifies whether service owner re-certification is required for users added dynamically through a policy. Default it is set to false.
<b>gtwayManagerRecert</b>	String	No	Boolean value that specifies Indicates whether manager re certification is required for users added dynamically through a policy. Default it is set to false.
<b>gtwayOwnerRecertManual</b>	String	No	Boolean value that specifies whether <b>gtwayOwnerRecertManual</b> is required for users manually added through a request. Default it is set to false.

Table 98. Request body parameters (continued)

Parameter	Type	Required	Description
<b>gtwayManagerRecertManual</b>	String	No	Boolean value that specifies whether <b>gtwayManagerRecertManual</b> is required for users manually added through a request. Default it is set to false.
<b>gtwayRecertGracePeriod</b>	String	No	Integer value that specifies the number of days before the re-certification reminder action is due. Default it is set to 0.
<b>gtwayRecertReminderAction Id</b>	String	No	Integer value that specifies re-certification reminder action ID. The action to be taken when service membership is not re-certified by the due date. One of the following five action IDs can be specified: <ul style="list-style-type: none"> <li>• 0 Take no action</li> <li>• 1 Auto deny</li> <li>• 2 Auto approve</li> <li>• 3 Email approver</li> <li>• 4 Email manager of approver</li> </ul>
<b>gtwayParentService</b>	String	No	Name of parent service. Required if membership of a parent service is required for membership of the service.
<b>gtwayMemberNotification</b>	Boolean	No	Specifies whether members are notified of membership assignment and revocation. Defaults to false
<b>gtwaySODCalloutRequired</b>	Boolean	No	Specifies whether a Separation of Duties (SOD) callout is required before the approval process is triggered to record service request approvals on an external system.
<b>gtwayDestroyIdOnRevoke</b>	Boolean	No	Specifies whether to delete the user account when membership to the service is revoked. Defaults to false.
<b>gtwayHideFromSelfCare</b>	Boolean	No	Specifies whether to hide the service from users in the Self Service portal.
<b>gtwayLastRecertDate</b>	String	No	The last re-certification date.
<b>gtwayNoMembers</b>	Boolean	No	Specifies whether the service can have members.
<b>gtwayNotificationUser</b>	String	No	The gtwayUUID of a user to notify of changes.
<b>gtwayMgrNotification</b>	Boolean	No	Specifies whether to send notifications to the user manager of membership assignments and revocations.
<b>gtwayProvisioningInstructions</b>	String	No	Provisioning instructions for the service.
<b>gtwayDeProvisioningInstructions</b>	String	No	Deprovisioning instructions for the service.
<b>gtwayServiceRequestXml</b>	String	No	Service request XML.

Table 98. Request body parameters (continued)

Parameter	Type	Required	Description
<b>gatewayServiceRequestXml2</b>	String	No	Service request XML 2.
<b>gatewayServiceCannotbeRequested</b>	String	Optional	Indicates service cannot be requested directly. Default it is set to <code>false</code> .

#### Example response

```
{"status": "success"}
```

#### Response parameters

Table 99. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Delete a service

Deletes a service.

#### Request

DELETE /GmaApi/services/{serviceName}

#### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" https://hostname/GmaApi/services/Service2
```

#### Resource URI

https://hostname/GmaApi/services/{serviceName}

#### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

#### Request parameters

Table 100. Path parameters

Parameter	Type	Required	Description
<b>serviceName</b>	String	Yes	Name of the service to delete.

#### Example response

```
{"status": "success"}
```



## Response parameters

Table 101. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Self Service methods

Self Service methods are used to retrieve and update information and options for Self Service applications.

### Retrieve password reset options

Retrieves password reset options for Self Service applications for a specified instance of Cloud Identity Service, or for all instances.

### Request

GET /GmaApi/ss/getPasswordResetOptions

### Example cURL requests

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" https://hostname/GmaApi/ss/getPasswordResetOptions?instanceId=3
```

### Resource URI

https://hostname/GmaApi/ss/getPasswordResetOptions

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Request parameters

Table 102. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Optional	The ID of the instance to retrieve password reset options for. If the <b>instanceId</b> is not included in the request, all instances are retrieved.

### Example response

```
{
  "status":
  {"message": "Success", "errors": {}, "apiError": false, "success": true},
  "options": {"3": {"sendTempEmail": false,
    "sendSuccessEmail": true,
    "sendUrlEmail": false,
    "emailTokenExpire": 3600,
    "pwdTokenExpire": 3600,
    "instanceId": 3,
    "kbaQuestionCount": 3,
    "validationOptionId": 1}}}
```

## Response parameters

Table 103. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>options</b>	Password reset options for the specified instance.
<b>sendTempEmail</b>	Indicates whether to send an email with the temporary password.
<b>sendSuccessEmail</b>	Indicates whether to send an email to the user that informs them that the password reset is successful.
<b>sendUrlEmail</b>	Indicates whether email verification URL is needed.
<b>emailTokenExpire</b>	When <b>sendUrlEmail</b> is set to <code>true</code> , the time in minutes the link is valid for.
<b>pwdTokenExpire</b>	Provides the time in seconds until the password token expires.
<b>kbaQuestionCount</b>	Indicates the minimum number of security questions that a user must answer to be able to reset their password.
<b>validationOptionId</b>	The ID that is used for a successful password validation.

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve KBA security question options

Retrieves all active and deprecated Knowledge-Based Authentication (KBA) options for a specified instance of Cloud Identity Service.

### Request

```
GET /GmaApi/ss/getKba
```

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/ss/getKba?instanceId=3
```

### Resource URI

```
https://hostname/GmaApi/ss/getKba
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 104. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The ID of the instance to retrieve KBA security questions options for.

## Example response

```
"status":{"success":true,"apiError":false,"message":"Success","errors":{}},"kba":[
]}
```

## Response parameters

Table 105. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>kba</b>	KBA question options.
<b>uniqueAnswers</b>	Indicates whether the answers to different questions must be unique.
<b>minRequired</b>	The minimum number of questions a user must answer to reset their password or confirm their identity.
<b>questions</b>	The questions and languages in use for the specified instance.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve a branding file

Retrieves the branding file.

### Request

GET /GmaApi/ss/getBrandingFile

### Example cURL request

```
curl -X GET 'http://hostname/GmaApi/ss/getBrandingFile?fileId=2&instanceId=182'  
-H 'accept: application/json,application/xml,text/html,application/atom  
+xml,text/xhtml+xml' -H 'authorization: Bearer  
b43ac32a-9f03-435a-8045-8718c390c46c'
```

### Resource URI

https://hostname/GmaApi/ss/getBrandingFile

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 106. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The Cloud Identity Service instance ID.

Table 106. Query parameters (continued)

Parameter	Type	Required	Description
<b>fileId</b>	Integer	Yes	<p>The ID of the branding file. You can specify one of the following branding file IDs.</p> <ul style="list-style-type: none"> <li>• 2: Logo image. Header logo.</li> <li>• 3: Error icon. Header logo.</li> <li>• 4: Favorites icon. Favorites icon that is displayed in browser.</li> <li>• 5: Form elements. Check box and radio button images.</li> <li>• 7: Page background. Tiled background image for profile management.</li> <li>• 8: Data loading indicator. Data loading image.</li> <li>• 10: Preloader image. Section is loading image.</li> <li>• 11: Search field icon. Autocomplete or search enabled input field image.</li> <li>• 12: Searching icon. Search being performed image.</li> <li>• 13: Success icon. Successful operation icon.</li> <li>• 14: Pages icon. Page icons on Self Service screens.</li> </ul>
<b>downloadOriginal</b>	Boolean	No	Specify whether to download the currently used file.

#### Response parameters

Returns the requested file.

#### Related concepts

##### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve KBA security question options

Retrieves all active and deprecated Knowledge-Based Authentication (KBA) options for a specified instance of Cloud Identity Service.

#### Request

```
GET /GmaApi/ss/getKba
```

#### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/ss/getKba?instanceId=3
```

#### Resource URI

```
https://hostname/GmaApi/ss/getKba
```

#### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 107. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The ID of the instance to retrieve KBA security questions options for.

## Example response

```
"status":{"success":true,"apiError":false,"message":"Success","errors":{}},"kba":[
]}
```

## Response parameters

Table 108. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>kba</b>	KBA question options.
<b>uniqueAnswers</b>	Indicates whether the answers to different questions must be unique.
<b>minRequired</b>	The minimum number of questions a user must answer to reset their password or confirm their identity.
<b>questions</b>	The questions and languages in use for the specified instance.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve a branding file

Retrieves the branding file.

### Request

GET /GmaApi/ss/getBrandingFile

### Example cURL request

```
curl -X GET 'http://hostname/GmaApi/ss/getBrandingFile?fileId=2&instanceId=182'  
-H 'accept: application/json,application/xml,text/html,application/atom  
+xml,text/xhtml+xml' -H 'authorization: Bearer  
b43ac32a-9f03-435a-8045-8718c390c46c'
```

### Resource URI

https://hostname/GmaApi/ss/getBrandingFile

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 109. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The Cloud Identity Service instance ID.
<b>fileId</b>	Integer	Yes	The ID of the branding file. You can specify one of the following branding file IDs. <ul style="list-style-type: none"><li>• 2: Logo image. Header logo.</li><li>• 3: Error icon. Header logo.</li><li>• 4: Favorites icon. Favorites icon that is displayed in browser.</li><li>• 5: Form elements. Check box and radio button images.</li><li>• 7: Page background. Tiled background image for profile management.</li><li>• 8: Data loading indicator. Data loading image.</li><li>• 10: Preloader image. Section is loading image.</li><li>• 11: Search field icon. Autocomplete or search enabled input field image.</li><li>• 12: Searching icon. Search being performed image.</li><li>• 13: Success icon. Successful operation icon.</li><li>• 14: Pages icon. Page icons on Self Service screens.</li></ul>
<b>downloadOriginal</b>	Boolean	No	Specify whether to download the currently used file.

## Response parameters

Returns the requested file.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve a list of branding files

Retrieves a list of branding files.

### Request

```
GET /GmaApi/ss/getBrandingFiles
```

### Example cURL request

```
curl -X GET 'http://hostname/GmaApi/ss/getBrandingFiles?instanceId=1' -H 'accept: application/json' -H 'authorization: Bearer b43ac32a-9f03-435a-8045-8718c390c46c' -H 'cache-control: no-cache' -H 'content-type: application/json'
```

### Resource URI

```
https://hostname/GmaApi/ss/getBrandingFiles
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 110. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The Cloud Identity Service instance ID.

## Response parameters

Table 111. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve branding stylesheet

Retrieves user interface CSS branding variables in the `variables.less` file.

### Request

```
GET /GmaApi/ss/getBranding
```

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml" http://hostname/GmaApi/ss/getBranding?instanceId=1
```

### Resource URI

```
https://hostname/GmaApi/ss/getBranding
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 112. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The ID of the Cloud Identity Service instance to retrieve the file for.

## Response parameters

Table 113. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

Table 113. Response parameters (continued)

Parameter	Description
<b>brandingDataMap</b>	All branding variable names and their associated values.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve application setup information

Retrieves a map of the data that is used when Cloud Identity Portal administration is initialized.

### Request

GET /GmaApi/ss/initAppManagementSetup

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml+xml" http://hostname/GmaApi/ss/initAppManagementSetup
```

### Resource URI

https://hostname/GmaApi/ss/initAppManagementSetup

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Example response

```
{
  "status": {
    "success": true,
    "apiError": false,
    "message": "Success",
    "errors": {}
  },
  "applications": [],
  "instanceTypes": [],
  "instances": [],
  "validations": [],
  "attributeTypes": [],
  "provisionResolutions": [],
  "fieldTypes": [],
  "usernameOptions": [],
  "emails": [],
  "applicationRoles": [],
  "portalApplicationSections": [],
  "usernameValidationOptions": [],
  "passwordResetValidationOptions": [],
  "applicationMap": []
}
```

### Response parameters

Table 114. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>applications</b>	An array of Self Service applications.
<b>instanceTypes</b>	An array of instance types.
<b>instances</b>	An array of instances.
<b>validations</b>	An array of validations.
<b>attributeTypes</b>	An array of attribute types.
<b>provisionResolutions</b>	An array of provision resolutions.
<b>fieldTypes</b>	An array of field types.



Table 114. Response parameters (continued)

Parameter name	Description
<b>usernameOptions</b>	An array of user name options.
<b>emails</b>	An array of email types.
<b>applicationRoles</b>	An array of Self Service application roles.
<b>portalApplicationSections</b>	An array of Self Service application sections.
<b>usernameValidationOptions</b>	An array of user name validation options.
<b>passwordResetValidationOptions</b>	An array of password reset options.
<b>applicationMap</b>	An array of application IDs and types.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve self-registration options

Retrieves self-registration options for all instances of Cloud Identity Service.

### Request

GET /GmaApi/ss/getSelfRegistrationOptions

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml+xml" http://hostname/GmaApi/ss/getSelfRegistrationOptions
```

### Resource URI

https://hostname/GmaApi/ss/getSelfRegistrationOptions

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success", "errors":{}},"options":[]}
```

### Response parameters

Table 115. Response parameters

Parameter	Description
<b>options</b>	Self-registration options.
<b>instanceId</b>	ID of the instance of Cloud Identity Service that self-registration options are retrieved for.
<b>manualApproval</b>	Indicates whether manual approval is required for self-registration.

Table 115. Response parameters (continued)

Parameter	Description
<b>defaultApprover</b>	Only applicable when <b>manualApproval</b> is set to <code>true</code> . The value of the universally unique identifier (UUID) of the default approver.
<b>useIdv</b>	Indicates whether identity validation is used.
<b>idvFailResolution</b>	Only applicable when <b>useIdv</b> is set to <code>true</code> . A value of <code>reject</code> indicates that registration is rejected if identity validation fails.
<b>multipleIdvFailResolution</b>	Only applicable when <b>useIdv</b> is set to <code>true</code> . A value of <code>reject</code> indicates that registration is rejected if multiple identities are found.
<b>primaryUsernamePreference</b>	The format of the primary user name, for example, <code>user_uid</code> .
<b>secondaryUsernamePreference</b>	The format of the secondary user name, for example, <code>user_uid</code> .
<b>requireManagerApproval</b>	Indicates whether manager approval is needed for self-registration.
<b>requirePolicyCheck</b>	Indicates whether a policy agreement must be accepted for self-registration.
<b>sendPendingEmail</b>	Indicates whether an email is to be sent for pending self-registration.
<b>sendRejectEmail</b>	Indicates whether an email is to be sent if self-registration is rejected.
<b>sendSuccessEmail</b>	Indicates whether an email is to be sent if self-registration is successful.
<b>useAccountClaiming</b>	Indicates whether the account is to be claimed by using a link that is sent by email.
<b>useKba</b>	Indicates whether answers to Knowledge Based Authentication (KBA) questions must be provided.
<b>secUsernamePreferenceOtherAttrName</b>	The attribute name.
<b>usernamePreferenceOtherAttrName</b>	The attribute name.

#### Related concepts

##### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve user name recovery options

Retrieves user name recovery options for all Cloud Identity Service instances.

#### Request

```
GET /GmaApi/ss/getUsernameRecoveryOptions
```

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml+xml" http://hostname/GmaApi/ss/getUsernameRecoveryOptions
```

### Resource URI

<https://hostname/GmaApi/ss/getUsernameRecoveryOptions>

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success", "errors":{}},"options":[]}
```

### Response parameters

Table 116. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>options</b>	User name recovery options.
<b>instanceId</b>	ID of the instance of Cloud Identity Service that user name lookup options are retrieved for.
<b>sendRecoveryEmail</b>	Indicates whether the recovered user name is emailed to the user.
<b>validationOptionId</b>	The ID that is used for a successful user name recovery validation.
<b>showUsername</b>	Indicates whether the user name is displayed on-screen in the user name recovery Self Service application.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve Self Service portal options

Retrieves options for the Self Service profile application for all Cloud Identity Service instances.

### Request

GET /GmaApi/ss/getPortalOptions

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml+xml" http://hostname/GmaApi/ss/getPortalOptions
```

### Resource URI

<https://hostname/GmaApi/ss/getPortalOptions>

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Example response

```
{ "status": { "success": true, "apiError": false, "message": "Success", "errors": {} }, "options": [] }
```

## Response parameters

Table 117. Query parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>options</b>	Options for the portal.
<b>instanceId</b>	Cloud Identity Service instance ID.
<b>userColumns</b>	Table columns. An instance might have one or more possible sets of table columns. <ul style="list-style-type: none"><li>• <b>userColumns</b>.</li><li>• <b>serviceColumns</b>.</li></ul>
<b>attributeTypeId</b>	Attribute ID of the column.
<b>attributeName</b>	Name of the column.
<b>columnOrder</b>	Order in which the column appears in the table. 1 for first, 2 for second, and so on.

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve email templates

Retrieves email templates and template details for all instances of Cloud Identity Service.

### Request

```
GET /GmaApi/ss/getEmailTemplate
```

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml" http://hostname/GmaApi/ss/getEmailTemplate?instanceId=1
```

### Resource URI

```
https://hostname/GmaApi/ss/getEmailTemplate
```

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 118. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The ID of the instance to retrieve email templates for.

## Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}},"emails":[{"emailTypeId":1,"languages":[{"langCode":"enus","replyTo":"foo@bar.com","subject":"test subject","body":"this is an email body"}]}]}
```

## Response parameters

Table 119. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>emails</b>	An array of email templates, which are listed by ID. Each template can have number of different language translations.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve an application role

Retrieves the attributes of an application role.

### Request

```
GET /GmaApi/ss/role/{roleUuID}
```

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml" http://hostname/GmaApi/ss/role/1111111-1111-1111-1111-111111111111
```

### Resource URI

```
https://hostname/GmaApi/ss/role/{roleUuID}
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 120. Path parameters

Parameter	Type	Required	Description
<b>roleUuID</b>	String	Yes	The <b>roleUuID</b> of the application role to retrieve.

## Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}, "defaultRole":"22222222-2222-2222-2222-222222222222", roles:[]}
```

## Response parameters

Table 121. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>roles</b>	An array of roles.
<b>instanceId</b>	ID of the parent Cloud Identity Service instance.
<b>name</b>	The name of the role.
<b>description</b>	The description of the role.
<b>uuid</b>	The universally unique identifier (UUID) of the role.
<b>applicationSuites</b>	An array of Self Service applications that the role grants access to.
<b>applicationId</b>	The ID of the application. The following possible application IDs are available. <ul style="list-style-type: none"><li>• 1. Profile management. Access for users to manage their own profile of user information.</li><li>• 2. Self-registration. Access for users to the self-registration application.</li><li>• 3. User name lookup. Access for users to the user name recovery application.</li><li>• 4. Password reset. Access for users to the password reset application.</li></ul>
<b>allowAccess</b>	A value of <code>true</code> gives access to the application.
<b>viewPrefs</b>	Object containing Self Service profile application sections that the role grants access to.
<b>reports</b>	Object containing the parameter and parameter values for the reports section of the Self Service profile application.
<b>requests</b>	Object containing the parameter and parameter values for the requests section of the Self Service profile application.
<b>services</b>	Object containing the parameter and parameter values for the services section of the Self Service profile application.
<b>users</b>	Object containing the parameter and parameter values for the users section of the Self Service profile application.

Table 121. Response parameters (continued)

Parameter	Description
<b>appSectionCode</b>	The application section code for the Self Service profile application section. <ul style="list-style-type: none"> <li>• reports. Access for users to manage the profiles of users that are their direct reports.</li> <li>• requests. Access for users to manage pending approval and recertification requests.</li> <li>• services. Access for users to view a list of services to which they belong, and the ability to request services.</li> <li>• users. Access for users to view profile information of other users.</li> </ul>
<b>show</b>	A value of <code>true</code> gives access to the Self Service profile application section.
<b>defaultRole</b>	Specifies whether the role is the default role for the instance. A value of <code>true</code> indicates it is the default role.
<b>preferences</b>	An object that contains manager preferences for managing users.
<b>checkUsernameButton</b>	Specifies whether the role can use the check user name facility when a user is added.
<b>demoteHelpDesk</b>	Specifies whether the role can demote a help desk user.
<b>demoteManager</b>	Specifies whether the role can demote user accounts.
<b>expirePwdHelpDesk</b>	Specifies whether the role can expire help desk user passwords.
<b>expirePwdManager</b>	Specifies whether the role can expire user passwords.
<b>filterOptions</b>	Object containing user and service filter options.
<b>userFilter</b>	An array of objects that specify user filter options. Users are excluded from a search when a user attribute matches a specified value.
<b>serviceFilter</b>	An array of objects that specify service filter options. Services are excluded from a search when a service attribute matches a specified value.
<b>attributeName</b>	Name of attribute to be used as a filter to exclude users or services.
<b>attributeValue</b>	The value of the attribute.
<b>includeInResult</b>	
<b>searchOptions</b>	An object that contains the priorities by which attributes are sorted and displayed when a search for a user or a service is made in the Self Service profile application and other Self Service applications.
<b>userSearch</b>	An array of objects. Each object contains details of an attribute and its search and display priority in user searches.

Table 121. Response parameters (continued)

Parameter	Description
<b>serviceSearch</b>	An array of objects. Each object contains details of an attribute and its search and display priority in service searches.
<b>id</b>	
<b>name</b>	The name of the attribute.
<b>mapping</b>	
<b>rank</b>	Specifies the order in which the attribute appears in any search. 1 for first, 2 for second, and so on.
<b>viewPermissions</b>	An array of objects that specify view and edit permissions for identity attributes for different user profiles.
<b>attributeName</b>	Name of the attribute to apply permissions to.
<b>editable</b>	Indicates whether the attribute is editable.
<b>visible</b>	Indicates whether the attribute is visible.
<b>subjectType</b>	Details of the user profile to apply permissions to.
<b>id</b>	The ID of the user profile. <ul style="list-style-type: none"> <li>• 1. Any user.</li> <li>• 2. User own.</li> <li>• 3. Direct reports.</li> <li>• 4. Group membership.</li> <li>• 5. Service membership.</li> <li>• 6. Role membership.</li> </ul>
<b>subjectTypeSubjectId</b>	Only applicable when the ID is role membership. The ID of the role.
<b>name</b>	Only applicable when the ID is service or group membership. Name of the service or group.
<b>defaultRole</b>	The UUID of the default role for the instance.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve a map of text keys

Retrieves a map of application text keys for a Self Service application.

### Request

```
GET /GmaApi/ss/getAppTextKeys
```

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml+xml" http://hostname/GmaApi/ss/getAppTextKeys?instanceId=1&appType=pma
```



## Resource URI

<https://hostname/GmaApi/ss/getAppTextKeys>

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 122. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The instance ID of the instance to retrieve text keys for.
<b>appType</b>	String	Yes	The name of the Self Service application to retrieve text keys for.
<b>langCode</b>	String	Optional	Language code, for example en-us. Text keys might be translated for a number of different languages.

## Example response

```
"status":{"success":true,"apiError":false,"message":"Success", "errors":{}},"languages":[{"en-us":{"attributeTextKeys": {"uiVarCode0":"value0", "textKeys":{"section1":{"appSection1": {"uiVarCode1":"value1", "columns":{"uiVarcode2":"value2"}}}}}}}]}
```

## Response parameters

Table 123. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>languages</b>	An array of languages.
<b>attributeTextKeys</b>	Text key attributes and text keys.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve options for KBA security questions

Retrieves options for Knowledge-Based Authentication (KBA) security questions for a specified Cloud Identity Service instance.

## Request

GET /GmaApi/ss/getKba

## Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" http://hostname/GmaApi/ss/getKba?instanceId=1
```

## Resource URI

<https://hostname/GmaApi/ss/getKba>

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 124. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The ID of the Cloud Identity Service instance to retrieve KBA question options for.

## Example response

```
"status":{"success":true,"apiError":false,"message":"Success","errors":{}},"kba":[
]}
```

## Response parameters

Table 125. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>kba</b>	KBA question options and questions.
<b>minRequired</b>	Indicates the minimum number of security questions that a user must provide answers for when they register.
<b>maxRequired</b>	
<b>uniqueAnswers</b>	Indicates whether answers to different questions must be unique. A value of <code>true</code> indicates that answers must be unique.
<b>maxQuestionNum</b>	
<b>minCharacterLength</b>	Indicates the minimum number of characters that must be entered as an answer.
<b>questions</b>	Parameter and parameter values for all security questions.
<b>availableQuestions</b>	Parameter and parameter values for available security questions.
<b>key</b>	The language code for the question.
<b>value</b>	Question IDs, deprecation status, and question text.
<b>id</b>	The question number.
<b>deprecated</b>	Indicates whether the question is obsolete or in use. A value of <code>true</code> specifies that the question is in use.
<b>question</b>	The text of the question.

## Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve attribute elements for an application type

Retrieves attribute elements for an application type.

### Request

GET /GmaApi/ss/getAttributeElements

### Example cURL request

```
curl -v -i -X GET -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml+xml" http://hostname/GmaApi/ss/getAttributeElements?instanceId=3&appType=pmx
```

### Resource URI

https://hostname/GmaApi/ss/getAttributeElements

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 126. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The ID of the instance.
<b>appType</b>	String	No	The name of the application type to retrieve attribute elements for.

### Example response

```
"status":{"success":true,"apiError":false,"message":"Success","errors":{}},"ldapAttributes":[],"userIdv":false,"formSections":[]}
```

### Response parameters

Table 127. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>ldapAttributes</b>	An array of LDAP attributes.
<b>userIdv</b>	Indicates whether identity validation is used for the application type.
<b>formSections</b>	An array of form sections for the application type.

### Related concepts

[Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve user autocomplete rows

Retrieves generic user autocomplete rows in user lookup tables.

### Request

POST /GmaApi/ss/autocomplete

### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json" -d '{"type":"user","searchString":"Doe"}' http://hostname/GmaApi/ss/autocomplete
```

### Resource URI

https://hostname/GmaApi/ss/autocomplete

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

application/json

```
{
  "type": "user",
  "searchString": "Doe"
}
```

### Request parameters

Table 128. Request body parameters

Parameter	Type	Required	Description
<b>type</b>	String	Yes	The search type, for example user.
<b>searchString</b>	String	Yes	The value to search against.

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}},
"columns":["ID","First Name","Last Name","Email","User"],"rows":[[],[],[],[],["foobar","foobaz"]]}
```

### Response parameters

Table 129. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>columns</b>	A list of searched columns.
<b>rows</b>	Lists of values found, in respective order as column values.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve self service options

Retrieves options for the Self Service portal.

### Request

```
GET /GmaApi/ss/getSelfServiceOptions
```

### Example cURL request

```
curl -k -v -X GET 'https://hostname/GmaApi/ss/getSelfServiceOptions' -H 'Authorization: Bearer 53bdfa0f-07e6-4d74-8ba2-474e81ed4efb'
```

### Resource URI

```
https://hostname/GmaApi/ss/getSelfServiceOptions
```

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Example response

```
{
  "selfDeletable": true
}
```

### Response parameter

Table 130. Query parameters

Parameter	Description
<b>selfDeletable</b>	If <b>self Deletable</b> is set to true, then user has permission to delete his account. If <b>self Deletable</b> is set to false, then user cannot delete his account.

## Retrieve all notice types

Retrieves all the notice types.

### Request

```
GET /GmaApi /ss/noticeTypes
```

### Example cURL request

```
curl -k -v -X GET 'https://hostname/GmaApi/ss/noticeTypes' -H 'Authorization: Bearer 53bdfa0f-07e6-4d74-8ba2-474e81ed4efb' -H 'Content-Type: application/json'
```

### Resource URI

```
https://hostname/GmaApi/ss/noticeTypes
```

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

## Example response

```
[
  "USER_SELF_DELETE",
  "USER_CONSENT",
  "USER_PRIVACY"
]
```

## Response parameter

Table 131. Query parameters

Parameter	Description
<b>USER_SELF_DELETE</b>	The user can delete his account when user agrees to the <b>USER_SELF_DELETE</b> notice, the account is deleted.
<b>USER_CONSENT</b>	The user agrees to <b>USER_CONSENT</b> gives consent to change its data and notified through emails
<b>USER_PRIVACY</b>	The user agrees to <b>USER_PRIVACY</b> it means, user wants to keep his personal information private.

## Retrieve list of all notices

Retrieves the list of all notices of a particular notice type and language.

### Request

GET /GmaApi/ss/notices/type/{noticeType}/langCode/{langCode}

### Example of cURL request

```
curl -v -k -X GET 'https://hostname/GmaApi/ss/notices/type/USER_SELF_DELETE/langCode/en-us' -H 'Authorization: Bearer adae3ec4-ee14-4f78-814e-2b8201273909' -H 'Content-Type: application/json'
```

### Resource URI

https://hostname /GmaApi/ss/notices/type/{noticeType}/langCode/{langCode}

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameter

Table 132. Path parameters

Parameter	Type	Required	Description
<b>noticeType</b>	String	Yes	Name of the type of notice. USER_SELF_DELETE USER_CONSENT USER_PRIVACY
<b>langCode</b>	String	Yes	A language code in which notice is written. Example "en-us, de-de etc.

## Example response

```
[
  {
    "id": 1848,
    "version": 2,
    "langCode": "de-de",
    "body": "m",
    "createTimestamp": "2019-07-18T08:32:17.615Z"
  },
]
```

```

{
  "id": 1828,
  "version": 1,
  "langCode": "de-de",
  "body": "jkhkjhhkjkhkj",
  "createTimestamp": "2019-07-08T06:04:05.757Z"
}
]

```

## Response parameter

Table 133. Query parameters

Parameter	Description
<b>id</b>	Id of the notice.
<b>version</b>	Number of times notice has been edited.
<b>langCode</b>	The language of the notice .
<b>body</b>	The content of the notice.
<b>createTimestamp</b>	Date and time on which is created.

## Retrieve notices layout

Retrieve notices and column layout for online display.

### Request

POST /GmaApi/ss/notices/getNoticeDataTables

### Example cURL request

```

curl -X POST https://hostname/GmaApi/ss/notices/getNoticeDataTables?
language=en-us -H 'accept: application/json' -H 'authorization: Bearer
b24685c2-1918-46b1-86ee-b350bc41269f' -H 'cache-control: no-cache' -H 'content-
type: application/json' -d '{ "draw" : 2, "columns" : [], "order" :
[ { "column" : 0, "dir" : "desc" } ], "start" : 0, "length" : 10, "search" :
{ "value" : "", "regex" : false }, "language" : "en-us", "limitFilter" : null}'
-k -v

```

### Resource URI

https://hostname/GmaApi/ss/notices/getNoticeDataTables

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Example response

```

{
  "recordsTotal": 3,
  "recordsFiltered": 3,
  "draw": 1,
  "data": [
    [
      "USER_CONSENT",
      "2019-11-04T06:11:25.115Z",
      "Yes"
    ],
    [
      "USER_PRIVACY",
      "2019-05-02T09:51:16.326Z",
      "Yes"
    ],
    [
      "USER_SELF_DELETE",

```

```

        "2019-10-15T06:00:29.073Z",
        "Yes"
    ]
  ],
  "optData": null,
  "status": {
    "success": true,
    "apiError": false,
    "message": "Success",
    "errors": {}
  },
  "searchTruncated": false
}

```

## Response parameters

Table 134. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>recordsTotal</b>	Number of notices record.
data	Notice type with time stamp.
<b>recordsFiltered</b>	Number of records filtered.

## Retrieve all notice types

Retrieves all the notice types.

### Request

GET /GmaApi /ss/noticeTypes

### Example cURL request

```
curl -k -v -X GET 'https://hostname/GmaApi/ss/noticeTypes' -H 'Authorization: Bearer 53bdfa0f-07e6-4d74-8ba2-474e81ed4efb' -H 'Content-Type: application/json'
```

### Resource URI

https://hostname/GmaApi/ss/noticeTypes

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Example response

```

[
  "USER_SELF_DELETE",
  "USER_CONSENT",
  "USER_PRIVACY"
]

```

## Response parameter

Table 135. Query parameters

Parameter	Description
<b>USER_SELF_DELETE</b>	The user can delete his account when user agrees to the <b>USER_SELF_DELETE</b> notice, the account is deleted.



Table 135. Query parameters (continued)

Parameter	Description
<b>USER_CONSENT</b>	The user agrees to <b>USER_CONSENT</b> gives consent to change its data and notified through emails
<b>USER_PRIVACY</b>	The user agrees to <b>USER_PRIVACY</b> it means, user wants to keep his personal information private.

## Retrieve a list of application role

Retrieves a list of application roles

### Request

GET /GmaApi/ss/roles

### Example cURL request

```
# curl -X GET "https://hostname/GmaApi/ss/roles" -v -H "Authorization: Bearer afc42b73-8c97-41e7-8978-cf8f6ec2cf90" -H "Accept: application/json" -H "Content-Type: application/json" -k -vvv
```

### Resource URI

https://hostname/GmaApi/ss/roles

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Example response

```
[
  {
    "id": 190,
    "clientId": 501,
    "name": "pd-helpdesk",
    "uuid": "adb10561-ed35-451c-936f-d1d41d9c1882",
    "aliasMapping": {
      "id": 276,
      "name": "pd-helpdesk",
      "clientId": 501
    },
    "defaultRole": false,
    "clientRolePriority": 0,
    "clientRoleDescription": "pd helpdesk"
  },
  {
    "id": 149,
    "clientId": 501,
    "name": "Default",
    "uuid": "6bd0ef40-76b1-11e2-bcfd-0800200c9a66",
    "aliasMapping": {
      "id": 145,
      "name": "Default",
      "clientId": 501
    },
    "defaultRole": true,
    "clientRolePriority": 1,
    "clientRoleDescription": "default role description"
  }
]
```

## Response parameters

Table 136. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>id</b>	The id of the user profile.
<b>clientId</b>	The id of the client.
<b>name</b>	The name of the role.
<b>uuid</b>	The universally unique identifier (UUID) of the role.
<b>defaultRole</b>	Specifies whether the role is the default role for the instance. A value of <code>true</code> indicates it is the default role.
<b>clientRolePriority</b>	Specifies whether the priority of the role is set.
<b>clientRoleDescription</b>	The description of the role.

## Retrieve notices layout

Retrieve notices and column layout for online display.

### Request

POST `/GmaApi/ss/notices/getNoticeDataTables`

### Example cURL request

```
curl -X POST https://hostname/GmaApi/ss/notices/getNoticeDataTables?
language=en-us -H 'accept: application/json' -H 'authorization: Bearer
b24685c2-1918-46b1-86ee-b350bc41269f' -H 'cache-control: no-cache' -H 'content-
type: application/json' -d '{ "draw" : 2, "columns" : [], "order" :
[ { "column" : 0, "dir" : "desc" } ], "start" : 0, "length" : 10, "search" :
{ "value" : "", "regex" : false }, "language" : "en-us", "limitFilter" : null}'
-k -v
```

### Resource URI

`https://hostname/GmaApi/ss/notices/getNoticeDataTables`

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Example response

```
{
  "recordsTotal": 3,
  "recordsFiltered": 3,
  "draw": 1,
  "data": [
    [
      "USER_CONSENT",
      "2019-11-04T06:11:25.115Z",
      "Yes"
    ],
    [
      "USER_PRIVACY",
      "2019-05-02T09:51:16.326Z",
      "Yes"
    ],
    [
      "USER_SELF_DELETE",
```

```

        "2019-10-15T06:00:29.073Z",
        "Yes"
    ]
  ],
  "optData": null,
  "status": {
    "success": true,
    "apiError": false,
    "message": "Success",
    "errors": {}
  },
  "searchTruncated": false
}

```

## Response parameters

Table 137. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>recordsTotal</b>	Number of notices record.
data	Notice type with time stamp.
<b>recordsFiltered</b>	Number of records filtered.

## Create an instance

Creates a Cloud Identity Service instance. An instance is a grouping of configurations and options for Self Service applications.

### Request

POST /GmaApi/ss/createNewInstance

### Example cURL request

```

curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json" -d
'{"instanceName": "gv_test1", "copyFrom": "3"}' http://hostname/GmaApi/ss/
updateCreateNewInstance

```

### Resource URI

https://hostname/GmaApi/ss/createNewInstance

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

application/json

A JSON representation of a new instance form that contains one or more of the following parameters.

```

{
  "instanceName": "",
  "copyFrom": ""
}

```

## Request parameters

Table 138. Request body parameters

Parameter	Type	Required	Description
<b>instanceName</b>	String	Yes	The name of the new instance.
<b>copyFrom</b>	String	Yes	The ID of the instance to copy from. The instance is based on the configuration options of the copied from instance.

## Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}},  
"instance":{"id":1,"name":"foo"}}
```

## Response parameters

Table 139. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>instance</b>	The instance that is created.
<b>id</b>	The ID of the instance.
<b>name.</b>	The name of the instance.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add notice by notice type

Add a new notice for the specified notice type for Self Service applications.

### Request

POST /GmaApi/ss/notices/type/{noticeType}

### Example cURL request

```
curl -X POST 'https://hostname:port/GmaApi/ss/notices/type/USER_SELF_DELETE' -v  
-H 'Authorization: Bearer b24685c2-1918-46b1-86ee-b350bc41269f' -H 'Content-  
Type: application/json' -k -v -d '{"langCode":"en-us","body":"test using  
curl"}' http://hostname/GmaApi/ss/notices/type/{noticeType}
```

### Resource URI

https://hostname/GmaApi/ss/notices/type/{noticeType}

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 140. Request path parameters

Parameter	Type	Required	Description
<b>noticeType</b>	String	Yes	Type of notice to add new notice. <b>Note:</b> Notice types <ul style="list-style-type: none"><li>• Self deletion notice</li><li>• User consent notice</li><li>• User privacy notice</li></ul>

Table 141. Request body parameters

Parameter	Type	Required	Description
<b>langCode</b>	String	Yes	The language of the notice.
<b>body</b>	String	Yes	The description of the notice.

## Example response

```
{
  "success": true,
  "apiError": false,
  "message": "Success",
  "errors": {}
}
```

## Response parameters

Table 142. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Add a new role

Add new role for a specified instance of IBM® Cloud Identity Service.

### Request

POST /GmaApi/ss/role

### Example cURL request

```
curl -v -X POST "https://hostname/GmaApi/ss/role" -H "Authorization: Bearer eb4823bf-a7fb-4719-97c7-ba8daf3ecbf" -H "Accept: application/json" -H "Content-Type: application/json"
```

### Resource URI

https://hostname/GmaApi/ss/role

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

application/json

A JSON representation of an array of roles with one or more of the following parameters.

```
{
  "applicationSuites": [
    {
      "applicationId": 1,
      "allowAccess": true
    },
    {
      "applicationId": 4,
      "allowAccess": true
    },
    {
      "applicationId": 3,
      "allowAccess": true
    },
    {
      "applicationId": 2,
      "allowAccess": true
    }
  ],
  "defaultRole": false,
  "filterOptions": {
    "userFilter": {
      "attributeName": "accessHint",
      "attributeValue": "test",
      "includeInResult": false
    },
    "serviceFilter": {
      "attributeName": "cn",
      "attributeValue": "test",
      "includeInResult": false
    }
  },
  "instanceId": 182,
  "name": "ER-90",
  "description": "ER-90 Description",
  "preferences": {
    "checkUsernameButton": true,
    "demoteHelpDesk": false,
    "demoteManager": false,
    "canActivateUserHelpDesk": false,
    "canActivateUserManager": false,
    "expirePwdHelpDesk": false,
    "expirePwdManager": false,
    "profileAsPage": false,
    "canAddUserHelpDesk": false,
    "canAddUserManager": false,
    "canModifyRoleHelpDesk": false,
    "canModifyRoleManager": false
  },
  "searchOptions": {
    "userSearch": [
      {
        "rank": 0,
        "mapping": "givenName",
        "name": "givenName"
      },
      {
        "rank": 1,
        "mapping": "sn",
        "name": "sn"
      },
      {
        "rank": 2,
        "mapping": "uid",
        "name": "uid"
      },
      {
        "rank": 3,
        "mapping": "mail",
        "name": "mail"
      }
    ]
  },
  "uuid": "6bd0ef40-76b1-11e2-bcfd-0800200c9a66",
  "viewPermissions": [],
  "viewPrefs": {
    "launchpad": {
      "appSectionCode": "launchpad",
      "show": false
    }
  }
}
```

```

    },
    "profile": {
      "appSectionCode": "launchpad",
      "show": false
    },
    "requests": {
      "appSectionCode": "launchpad",
      "show": false
    },
    "services": {
      "appSectionCode": "launchpad",
      "show": false
    },
    "users": {
      "appSectionCode": "launchpad",
      "show": false
    }
  }
}
}

```

## Request parameters

Table 143. Request body parameters

Parameter	Type	Required	Description
<b>applicationSuites</b>	Array	Yes	An array of Self Service applications that the role grants access to.
<b>applicationId</b>	Integer	Yes	The ID of the application. The following possible application IDs can be specified. <ul style="list-style-type: none"> <li>1. Profile management. Access for users to manage their own profile of user information.</li> <li>2. Self-registration. Access for users to the self-registration application.</li> <li>3. User name lookup. Access for users to the user name recovery application.</li> <li>4. Password reset. Access for users to the password reset application.</li> </ul>
<b>allowAccess</b>	Boolean	Yes	A value of <code>true</code> gives access to the application.
<b>defaultRole</b>	Boolean	Yes	Specifies whether the role is the default role for the instance. A value of <code>true</code> indicates it is the default role.
<b>filterOptions</b>	Object	Optional	Object containing user and service filter options.
<b>userFilter</b>	Array	Optional	An array of objects that specify user filter options. Users are excluded from a search when a user attribute matches a specified value. For example, you can exclude users that have a specific role.
<b>serviceFilter</b>	Array	Optional	An array of objects that specify service filter options. Services are excluded from a search when a service attribute matches a specified value.
<b>attributeName</b>	String	Optional	Name of attribute to be used as a filter to exclude users or services.

Table 143. Request body parameters (continued)

Parameter	Type	Required	Description
<b>attributeValue</b>	String	Optional	The value of the attribute.
<b>includeInResult</b>	Boolean	Optional	Specifies whether the entry should be included in the result.
<b>instanceId</b>	Integer	Yes	ID of the instance to add new role.
<b>name</b>	String	Yes	The name of the new role.
<b>description</b>	String	Yes	The description of the role. Maximum 100 characters are allowed.
<b>preferences</b>	Object	Optional	An object that contains manager preferences for managing users.
<b>checkUsernameButton</b>	Boolean	Optional	Specifies whether the role can use the check username facility when a user is added.
<b>demoteHelpDesk</b>	Boolean	Optional	Specify whether the role can demote a help desk user.
<b>demoteManager</b>	Boolean	Optional	Specifies whether the role can demote user accounts.
<b>canActivateUserHelpDesk</b>	Boolean	Optional	Specifies whether the role can activate the help desk user.
<b>canActivateUserManage</b>	Boolean	Optional	Specifies whether the role can activate the user.
<b>expirePwdHelpDesk</b>	Boolean	Optional	Specifies whether the role can expire the help desk user.
<b>expirePwdManager</b>	Boolean	Optional	Specifies whether the manager can expire user passwords.
<b>profileAsPage</b>	Boolean	Optional	Settings to display the user profile in the main navigation rather than in the header as a drop-down.
<b>canAddUserHelpDesk</b>	Boolean	Optional	Specifies whether the role can add the help desk user.
<b>canAddUserManager</b>	Boolean	Optional	Specifies whether the manager can add a user.
<b>canModifyRoleHelpDesk</b>	Boolean	Optional	Specifies whether helpdesk user can modify roles of other users.
<b>canModifyRoleManager</b>	Boolean	Optional	Specifies whether manager can modify roles of subordinates.
<b>searchOptions</b>	Object	Optional	An object that contains the priorities by which attributes are sorted and displayed when a search for a user or a service is made in the Self Service profile application and other Self Service applications.
<b>userSearch</b>	Array		An array of objects. Each object contains details of an attribute and its search and display priority in user searches.



Table 143. Request body parameters (continued)

Parameter	Type	Required	Description
<b>rank</b>	String	Optional	Specifies the order in which the attribute appears in any search. 1 for first, 2 for second, and so on.
<b>mapping</b>	String	Optional	LDAP attribute mapping.
<b>name</b>	String	Optional	The name of the attribute.
<b>uuid</b>	String	Yes	The roleUUID of the role to update.
<b>viewPermissions</b>	Array	Optional	An array of objects that specify view and edit permissions for identity attributes for different user profiles.
<b>attributeName</b>	String	Optional	Name of the attribute to apply permissions to.
<b>editable</b>	Boolean	Optional	Specifies whether the attribute is editable.
<b>visible</b>	Boolean	Optional	Specifies whether the attribute is visible.
<b>subjectType</b>	Object	Optional	An object that contains details of the user profile to apply permissions to.
<b>description</b>	String	Optional	
<b>id</b>	String	Optional	The ID of the user profile. <ol style="list-style-type: none"> <li>1. Any user.</li> <li>2. User own</li> <li>3. Direct reports</li> <li>4. Group membership</li> <li>5. Service membership</li> <li>6. Role membership</li> </ol>
<b>subjectTypeSubjectId</b>	String	Optional	Only applicable when the ID is role membership. The ID of the role.
<b>name</b>		Optional	Only applicable when the ID is service or group membership. Name of the service or group.
<b>viewPrefs</b>	Object	Yes	Object containing the Self Service profile application sections that the role grants access to.
<b>launchpad</b>	Object	Yes	Object containing the parameter and parameter values for the launchpad section of the Self Service profile application.  <b>Note:</b> One value in the decapsulation should be <code>true</code> .
<b>profile</b>	Object	Yes	Object containing the parameter and parameter values for the profile section of the Self Service profile application.

Table 143. Request body parameters (continued)

Parameter	Type	Required	Description
<b>reports</b>	Object	Yes	Object containing the parameter and parameter values for the reports section of the Self Service profile application.
<b>requests</b>	Object	Yes	Object containing the parameter and parameter values for the requests section of the Self Service profile application.
<b>services</b>	Object	Yes	Object containing the parameter and parameter values for the services section of the Self Service profile application.
<b>users</b>	Object	Yes	Object containing the parameter and parameter values for the users section of the Self Service profile application.
<b>appSectionCode</b>	String	Yes	The application section code for the Self Service profile application section. <ul style="list-style-type: none"> <li>• <b>reports</b>. Access for users to manage the profiles of users that are their direct reports.</li> <li>• <b>requests</b>. Access for users to manage pending approval and recertification requests.</li> <li>• <b>services</b>. Access for users to view a list of services to which they belong, and the ability to request services.</li> <li>• <b>users</b>. Access for users to view profile information of other users.</li> </ul>
<b>show</b>	Boolean	Yes	A value of <code>true</code> gives access to the Self Service profile application section.

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}}
```

### Response parameters

```
{
  "clientRolePriority": 8,
  "clientId": 134,
  "roleName": "ER-90",
  "uuid": "5e3f55c7-2235-4555-a8ba-88b4703c24fb",
  "description": "ER-90 Description",
  "defaultRole": false
}
```

Table 144. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>clientRolePriority</b>	The priority of the role.

Table 144. Response parameters (continued)

Parameter name	Description
<b>clientId</b>	The id of the client.
<b>roleName</b>	Name of the role.
<b>uuid</b>	The <b>uuid</b> of the user.
<b>description</b>	Description of the role.
<b>defaultRole</b>	Specifies whether the role is the default role for the instance. A value of <code>true</code> indicates it is the default role.

## Update self-registration options

Updates self-registration options for a specified Cloud Identity Service instance.

### Request

POST /GmaApi/ss/updateSelfRegistrationOptions

### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2"
-H "Accept: application/json" -d {"instanceId": "3", "data": {"options":
{"defaultApprover": "a9223214-9ed2-41dc-b443-7360e4f4ca59", "idvFailResolution":
"reject", "manualApproval": "false", "multipleIdvFailResolution": "reject",
"primaryUsernamePreference": "user_uid", "requireManagerApproval": "false",
"requirePolicyCheck": "false", "secondaryUsernamePreference": "user_uid",
"sendPendingEmail": "true", "sendRejectEmail": "true", "sendSuccessEmail": "true",
"useAccountClaiming": "false", "useIdv": "true", "useKba": "false",
"secUsernamePreferenceOtherAttrName": "", "usernamePreferenceOtherAttrName": ""}}}
http://hostname/GmaApi/ss/updateSelfRegistrationOptions
```

### Resource URI

<https://hostname/GmaApi/ss/updateSelfRegistrationOptions>

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Content type

application/json

A JSON representation of a self-registration form that contains one or more of the following parameters.

```
{
  "instanceId": ,
  "data": { "options":
    { "defaultApprover": ,
      "idvFailResolution": ,
      "manualApproval": ,
      "multipleIdvFailResolution": ,
      "primaryUsernamePreference": ,
      "requireManagerApproval": ,
      "requirePolicyCheck": ,
      "secondaryUsernamePreference": ,
      "sendPendingEmail": ,
      "sendRejectEmail": ,
      "sendSuccessEmail": ,
      "useAccountClaiming": ,
      "useIdv": ,
      "useKba": ,
      "secUsernamePreferenceOtherAttrName": ,
      "usernamePreferenceOtherAttrName": }
    }
  }
}
```

## Request parameters

Table 145. Request body parameters

Parameter	Type	Required	Description
<b>instanceId</b>	String	Yes	ID of the instance to update.
<b>data:{"options"}</b>	Object	Yes	Object containing parameter and parameter values for self-registration options.
<b>manualApproval</b>	Boolean	Optional	Specifies whether manual approval is required for self-registration. A value of <code>true</code> indicates that manual approval is required.
<b>defaultApprover</b>	String	Optional	Only applicable when <b>manualApproval</b> is set to <code>true</code> . The value of the universally unique identifier (UUID) of the default approver.
<b>useIdv</b>	Boolean	Yes	Specifies whether identity validation is to be used. A value of <code>false</code> indicates that identity validation is not used.
<b>idvFailResolution</b>	String	Optional	Only applicable when <b>useIdv</b> is set to <code>true</code> . A value of <code>reject</code> indicates that registration is to be rejected if identity validation fails.
<b>multipleIdvFailResolution</b>	String	Optional	Only applicable when <b>useIdv</b> is set to <code>true</code> . A value of <code>reject</code> indicates that registration is to be rejected if multiple identities are found.
<b>primaryUsernamePreference</b>	String	Optional	The format of the primary user name, for example, <code>user_uid</code> .
<b>secondaryUsernamePreference</b>	String	Optional	The format of the secondary user name, for example, <code>user_uid</code> .
<b>requireManagerApproval</b>	Boolean	Yes	Specifies whether manager approval is needed for self-registration. A value of <code>true</code> indicates that manager approval is required.
<b>requirePolicyCheck</b>	Boolean	Yes	Specifies whether a policy agreement must be accepted for self-registration. A value of <code>true</code> indicates that a policy check is required.
<b>sendPendingEmail</b>	Boolean	Yes	Specifies whether an email is to be sent for pending self-registration. A value of <code>true</code> indicates that an email is sent.

Table 145. Request body parameters (continued)

Parameter	Type	Required	Description
<b>sendRejectEmail</b>	Boolean	Yes	Specifies whether an email is to be sent if self-registration is rejected. A value of <code>true</code> indicates that an email is sent.
<b>sendSuccessEmail</b>	Boolean	Yes	Specifies whether an email is to be sent if self-registration is successful. A value of <code>true</code> indicates that an email is sent.
<b>useAccountClaiming</b>	Boolean	Yes	Specifies whether the account is to be claimed by using a link that is sent by email. A value of <code>true</code> indicates that the account is to be claimed by using a link.
<b>useKba</b>	Boolean	Yes	Specifies whether answers to Knowledge Based Authentication questions must be provided. A value of <code>true</code> indicates that a user must provide answers to KBA questions during self-registration.
<b>secUsernamePreferenceOtherAttrName</b>	String	Optional	The attribute name.
<b>usernamePreferenceOtherAttrName</b>	String	Optional	The attribute name.

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

### Response parameters

Table 146. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update password reset options

Updates password reset options for a specified instance of Cloud Identity Service.

### Request

POST /GmaApi/ss/updatePasswordResetOptions

### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json" -d {"instanceId":"3","data":
```

```
{
  "options": {
    "sendUrlEmail": "false",
    "sendSuccessEmail": "true",
    "kbaQuestionCount": "2",
    "emailTokenExpire": "30"
  }
}
```

**Resource URI**

https://hostname/GmaApi/ss/updatePasswordResetOptions

**Authorization header**

For information about obtaining an access token, see [“Request an access token” on page 3](#).

**Content type**

application/json

A JSON representation of a password reset form that contains one or more of the following parameters.

```
{
  "instanceId": "",
  "data": {
    "options": {
      "sendUrlEmail": "",
      "sendSuccessEmail": "",
      "kbaQuestionCount": "",
      "emailTokenExpire": ""
    }
  }
}
```

**Request parameters**

*Table 147. Request body parameters*

Parameter	Type	Required	Description
<b>instanceId</b>	String	Yes	ID of the instance to update.
<b>data: {"options"}</b>	Object	Yes	Object that contains parameter and parameter values for password reset options.
<b>sendSuccessEmail</b>	Boolean	Yes	Specifies whether to send an email to the user that informs them that the password reset is successful. Specify a value of true to send an email.
<b>kbaQuestionCount</b>	Integer	Yes	Specifies the minimum number of security questions that a user must answer to be able to reset their password.
<b>sendUrlEmail</b>	Boolean	Yes	Specifies whether email verification is needed. Specify a value of true to send an email verification URL.
<b>emailTokenExpire</b>	Integer	Optional	When <b>sendUrlEmail</b> is set to true, the time in minutes the link is valid for.

**Example response**

```
{
  "status": {
    "success": true,
    "apiError": false,
    "message": "Success",
    "errors": {}
  }
}
```

## Response parameters

Table 148. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update security question options

Updates security questions and security question options for a specified instance of Cloud Identity Service.

### Request

POST /GmaApi/ss/updateKba

### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json" -d {"instanceId":"3", "data":{"maxRequired":"","minRequired":"3","minCharacterLength":"1","uniqueAnswers":"false","questions":{"en-us":[{"id":1,"deprecated":false,"question":"In what year was your father born?"}, {"id":2,"deprecated":false,"question":"In what year was your mother born?"}]}}
```

 http://hostname/GmaApi/ss/updateKba

### Resource URI

https://hostname/GmaApi/ss/updateKba/ss/updateSelfRegistrationOptions

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

A JSON representation of a security questions setup form that contains one or more of the following parameters.

```
{
  "instanceId": "",
  "data": {
    "maxRequired": "",
    "minRequired": "",
    "minCharacterLength": "",
    "uniqueAnswers": "",
    "questions": {
      "en-us": [
        {
          "id": ,
          "deprecated": ,
          "question": ""
        }
      ]
    }
  }
}
```

## Request parameters

Table 149. Request body parameters

Parameter	Type	Required	Description
<b>instanceId</b>	String	Yes	ID of the instance to update.
<b>data</b>	Object	Yes	Object containing parameter and parameter values for security question options.
<b>minRequired</b>	Integer	Yes	Specifies the minimum number of security questions that a user must provide answers for when they register.
<b>maxRequired</b>	Integer		
<b>minCharacterLength</b>	Integer	Yes	Specifies the minimum number of characters that must be entered as an answer.
<b>uniqueAnswers</b>	Boolean	Yes	Specifies whether answers to different questions must be unique. A value of <code>true</code> specifies that answers must be unique.
<b>questions</b>	Object	Yes	Object containing parameter and parameter values for one or more security questions.
<b>en-us</b>	String	Yes	Language code for the questions, for example <code>en-us</code> .
<b>id</b>	Integer	Yes	The question number.
<b>deprecated</b>	Boolean	Yes	Specifies whether the question is obsolete or in use. A value of <code>true</code> specifies that the question is in use.
<b>question</b>	String	Yes	Specifies the text of the question.

## Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

## Response parameters

Returned as map.

Table 150. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

[Errors](#)



If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update user name recovery options

Updates user name recovery options for a specified instance of Cloud Identity Service.

### Request

POST /GmaApi/ss/updateUsernameRecoveryOptions

### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml+xml" -d '{"instanceId":"3","data":{"options":{"sendRecoveryEmail":"true", "showUsername":"false"}}}' http://hostname/GmaApi/ss/updateUsernameRecoveryOptions
```

### Resource URI

https://hostname/GmaApi/ss/updateUsernameRecoveryOptions

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Content type

application/json

A JSON representation of a user name recovery form that contains one or more of the following parameters.

```
{
  "instanceId": "",
  "data": {
    "options": {
      "sendRecoveryEmail": "",
      "showUsername": ""
    }
  }
}
```

### Parameters

Table 151. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	String	Yes	ID of the instance to update.
<b>data:{"options"}</b>	Object	Yes	Object containing parameter and parameter values for user name recovery options.
<b>sendRecoveryEmail</b>	Boolean	Yes	Specifies whether the user name is emailed to the user. Specify a value of <code>true</code> to send an email.
<b>showUsername</b>	Boolean	Yes	Specifies whether the user name is displayed on-screen in the user name recovery application. Specify a value of <code>true</code> to display the user name.

## Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

## Response parameters

Returned as map.

Table 152. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update email template

Updates an email template subject, body, sender address, and language, for a specified instance of Cloud Identity Service.

### Request

POST /GmaApi/ss/updateEmailTemplate

### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml" -d {"instanceId":"3", "updatedData": [{"emailTypeID":"10", "languages": [{"body":"<html>$firstName $lastName:<br/><br/>Your membership in the service $serviceName has been revoked.<br/><br/>Thank you,<br/>$clientWebPresenceName</html>", "langCode":"en-us", "replyTo":"noreply@YourCompany.com", "subject": "Reminder: One of your employees has pending approval records test change"}]}]} http://hostname/GmaApi/ss/updateEmailTemplate
```

### Resource URI

<https://hostname/GmaApi/ss/updateEmailTemplate>

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

application/json

A JSON representation of an array of email templates with one or more of the following parameters.

```
{
  "instanceId": "",
  "updatedData": [
    {
      "emailTypeID": "",
      "languages": [
        {
          "body": "",
          "langCode": "",
          "replyTo": "",
          "subject": ""
        }
      ]
    }
  ]
}
```

```

    ]
  }
}

```

## Request parameters

Table 153. Request body parameters

Parameter	Type	Required	Description
<b>instanceId</b>	String	Yes	ID of the instance to update.
<b>updatedData</b>	Array	Yes	An array of email template objects to specify one or more email templates to update.
<b>emailTypeID</b>	String	Yes	The email template ID.
<b>languages</b>	Array	Yes	An array of objects. Each object contains parameter and parameter values for the specified email template. Use <b>langCode</b> to specify different translations for the same <b>emailTypeID</b> . <pre>           {             "instanceId": "",             "updatedData": [               {                 "emailTypeID": "1",                 "languages": [                   {                     "body": "&lt;html&gt;Approval needed&lt;/html&gt;",                     "langCode": "en-us",                     "replyTo": "",                     "subject": "Awaiting approval"                   },                   {                     "body": "&lt;html&gt;Approbation nécessaire&lt;/html&gt;",                     "langCode": "fr",                     "replyTo": "",                     "subject": "En attente d'approbation"                   }                 ]               }             ]           }           </pre>
<b>body</b>	String	Yes	Email body that is specified in valid HTML.
<b>langCode</b>	String	Yes	The locale language code for the template, for example en-us.
<b>replyTo</b>	String	Yes	The email address of the sender.
<b>subject</b>	String	Yes	The subject line of the email. A description of the subject of the email.

## Example response

```

{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}}

```

## Response parameters

Table 154. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update default language

Updates default language for client.

### Request

PUT /GmaApi/ss/updateDefaultLanguage/{langCode}

### Example cURL request

```
curl -X PUT 'https://hostname/GmaApi/ss/updateDefaultLanguage/de-de' -H 'Authorization: Bearer '4c9aff0d-8b84-4dc8-b493-72a22af0a56a'
```

### Resource URI

https://hostname/GmaApi/ss/updateDefaultLanguage/{langCode}

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

## Request parameters

Table 155. Request path parameters

Parameter	Type	Required	Description
<b>langCode</b>	String	Yes	The default language code to update.

## Example response

```
{
  "status": {
    "success": true,
    "apiError": false,
    "message": "success",
    "error": {}
  }
}
```

## Response parameters

Table 156. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Update self service options

Updates options for the Self Service portal.

### Request

PUT /GmaApi/ss/updateSelfServiceOptions

### Example cURL request

```
curl -X PUT 'https://hostname/GmaApi/ss/updateSelfServiceOptions' -d '{"selfDeletable": true}' -H 'Authorization:Bearer 53bd fa0f-07e6-4d74-8ba2-474e81ed4efb' -H "Content-Type: application/json"
```

### Resource URI

https://hostname/GmaApi/ss/updateSelfServiceOptions

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 157. Request body parameters

Parameter	Type	Required	Description
<b>selfDeletable</b>	Boolean	Yes	If <b>self Deletable</b> is set to true, then user has permission to delete his account. If <b>self Deletable</b> is set to false, then user cannot delete his account.  <b>Note:</b> The <b>self Deletable</b> is set when user is created.

### Example response

```
{
  "success": true,
  "apiError": false,
  "message": "Saved",
  "errors": {}
}
```

### Response parameters

Table 158. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Update roles

Updates a role for a specified instance of Cloud Identity Service.

### Request

PUT /GmaApi/ss/role/{roleUuID}

### Example cURL request

```
curl -X PUT "https://hostname/GmaApi/ss/role/5e3f55c7-2235-4555-a8ba-88b4703c24fb" -d '{"applicationSuites": [{"applicationId":1,"allowAccess":true},{ "applicationId":4,"allowAccess":true}, {"applicationId":3,"allowAccess":true}, {"applicationId":2,"allowAccess":true}], "defaultRole":false, "filterOptions": {"userFilter": [], "serviceFilter": []}, "instanceId":182, "name":"Default", "description":"default role description", "preferences": {"checkUsernameButton":false, "demoteHelpDesk":true, "demoteManager":true, "canActivateUserHelpDesk":true, "canActivateUserManager":true, "expirePwdHelpDesk":true, "expirePwdManager":true, "profileAsPage":true, "canAddUserHelpDesk":true, "canAddUserManager":true, "canModifyRoleHelpDesk":false, "canModifyRoleManager":false}, "searchOptions":{"userSearch": [{"id":466,"rank":0,"mapping":"mail", "name":"mail"}, {"id":467,"rank":1,"mapping":"uid", "name":"uid"}, {"id":468,"rank":2,"mapping":"givenName", "name":"givenName"}, {"id":469,"rank":3,"mapping":"sn", "name":"sn"}]}, "uuid":"6bd0ef40-76b1-11e2-bcfd-0800200c9a66", "viewPermissions":[], "viewPrefs":{"launchpad":{"appSectionCode":"launchpad", "show":true}, "profile":{"appSectionCode":"profile", "show":true}, "reports":{"appSectionCode":"reports", "show":false}, "requests":{"appSectionCode":"requests", "show":true}, "services":{"appSectionCode":"services", "show":true}, "users":{"appSectionCode":"users", "show":false}}}' -v -H "Authorization: Bearer ca0cc768-0760-4f9f-90ab-bd972a4f9d10" -H "Accept: application/json" -H "Content-Type: application/json"
```

### Resource URI

https://hostname/GmaApi/ss/role/{roleUuID}

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

application/json

A JSON representation of an array of roles with one or more of the following parameters.

```
{
  "applicationSuites": [
    {
      "applicationId": 1,
      "allowAccess": true
    },
    {
      "applicationId": 4,
      "allowAccess": true
    },
    {
      "applicationId": 3,
      "allowAccess": true
    },
    {
      "applicationId": 2,
      "allowAccess": true
    }
  ],
  "defaultRole": false,
  "filterOptions": {
    "userFilter": {
      "attributeName": "accessHint",
      "attributeValue": "test",
      "includeInResult": false
    }
  },
}
```

```

    "serviceFilter": {
      "attributeName": "cn",
      "attributeValue": "test",
      "includeInResult": false
    }
  },
  "instanceId": 182,
  "name": "ER-90",
  "description": "ER-90 Description",
  "preferences": {
    "checkUsernameButton": true,
    "demoteHelpDesk": false,
    "demoteManager": false,
    "canActivateUserHelpDesk": false,
    "canActivateUserManager": false,
    "expirePwdHelpDesk": false,
    "expirePwdManager": false,
    "profileAsPage": false,
    "canAddUserHelpDesk": false,
    "canAddUserManager": false,
    "canModifyRoleHelpDesk": false,
    "canModifyRoleManager": false
  },
  "searchOptions": {
    "userSearch": [
      {
        "rank": 0,
        "mapping": "givenName",
        "name": "givenName"
      },
      {
        "rank": 1,
        "mapping": "sn",
        "name": "sn"
      },
      {
        "rank": 2,
        "mapping": "uid",
        "name": "uid"
      },
      {
        "rank": 3,
        "mapping": "mail",
        "name": "mail"
      }
    ]
  },
  "uuid": "6bd0ef40-76b1-11e2-bcfd-0800200c9a66",
  "viewPermissions": [],
  "viewPrefs": {
    "launchpad": {
      "appSectionCode": "launchpad",
      "show": false
    },
    "profile": {
      "appSectionCode": "launchpad",
      "show": false
    },
    "requests": {
      "appSectionCode": "launchpad",
      "show": false
    },
    "services": {
      "appSectionCode": "launchpad",
      "show": false
    },
    "users": {
      "appSectionCode": "launchpad",
      "show": false
    }
  }
}

```

## Request parameters

Table 159. Path parameters

Parameter	Type	Required	Description
<b>roleUUID</b>	String	Yes	The <b>roleUUID</b> of the application role to update.

Table 160. Request body parameters

Parameter	Type	Required	Description
<b>applicationSuites</b>	Array	Yes	An array of Self Service applications that the role grants access to.
<b>applicationId</b>	Integer	Yes	The ID of the application. The following possible application IDs can be specified. <ul style="list-style-type: none"> <li>• 1. Profile management. Access for users to manage their own profile of user information.</li> <li>• 2. Self-registration. Access for users to the self-registration application.</li> <li>• 3. User name lookup. Access for users to the user name recovery application.</li> <li>• 4. Password reset. Access for users to the password reset application.</li> </ul>
<b>allowAccess</b>	Boolean	Yes	A value of <code>true</code> gives access to the application.
<b>defaultRole</b>	Boolean	Yes	Specifies whether the role is the default role for the instance. A value of <code>true</code> indicates it is the default role.
<b>filterOptions</b>	Object	Optional	Object containing user and service filter options.
<b>userFilter</b>	Array	Optional	An array of objects that specify user filter options. Users are excluded from a search when a user attribute matches a specified value. For example, you can exclude users that have a specific role.
<b>serviceFilter</b>	Array	Optional	An array of objects that specify service filter options. Services are excluded from a search when a service attribute matches a specified value.
<b>attributeName</b>	String	Optional	Name of attribute to be used as a filter to exclude users or services.
<b>attributeValue</b>	String	Optional	The value of the attribute.
<b>includeInResult</b>	Boolean	Optional	Specifies whether the entry should be included in the result.
<b>instanceId</b>	Integer	Yes	ID of the instance to update.
<b>name</b>	String	Yes	The name of the role to update.
<b>description</b>	String	Yes	The description of the role to update. Maximum 100 characters are allowed.



Table 160. Request body parameters (continued)

Parameter	Type	Required	Description
<b>preferences</b>	Object	Optional	An object that contains manager preferences for managing users.
<b>checkUsernameButton</b>	Boolean	Optional	Specifies whether the role can use the check username facility when a user is added.
<b>demoteHelpDesk</b>	Boolean	Optional	Specifies whether the role can demote a help desk user.
<b>demoteManager</b>	Boolean	Optional	Specifies whether the role can demote user accounts.
<b>canActivateUserHelpDesk</b>	Boolean	Optional	Specifies whether the role can activate the help desk user.
<b>canActivateUserManage</b>	Boolean	Optional	Specifies whether the role can activate the user.
<b>expirePwdHelpDesk</b>	Boolean	Optional	Specifies whether the role can expire the help desk user.
<b>expirePwdManager</b>	Boolean	Optional	Specifies whether the manager can expire user passwords.
<b>profileAsPage</b>	Boolean	Optional	Settings to display the user profile in the main navigation rather than in the header as a drop-down.
<b>canAddUserHelpDesk</b>	Boolean	Optional	Specifies whether the role can add the help desk user.
<b>canAddUserManager</b>	Boolean	Optional	Specifies whether the manager can add a user.
<b>canModifyRoleHelpDesk</b>	Boolean	Optional	Specifies whether helpdesk user can modify roles of other users.
<b>canModifyRoleManager</b>	Boolean	Optional	Specifies whether manager can modify roles of subordinates.
<b>searchOptions</b>	Object	Optional	An object that contains the priorities by which attributes are sorted and displayed when a search for a user or a service is made in the Self Service profile application and other Self Service applications.
<b>userSearch</b>	Array		An array of objects. Each object contains details of an attribute and its search and display priority in user searches.
<b>rank</b>	String	Optional	Specifies the order in which the attribute appears in any search. 1 for first, 2 for second, and so on.
<b>mapping</b>	String	Optional	LDAP attribute mapping.
<b>name</b>	String	Optional	The name of the attribute.
<b>uuid</b>	String	Yes	The roleUUID of the role to update.

Table 160. Request body parameters (continued)

Parameter	Type	Required	Description
<b>viewPermissions</b>	Array	Optional	An array of objects that specify view and edit permissions for identity attributes for different user profiles.
<b>attributeName</b>	String	Optional	Name of the attribute to apply permissions to.
<b>editable</b>	Boolean	Optional	Specifies whether the attribute is editable.
<b>visible</b>	Boolean	Optional	Specifies whether the attribute is visible.
<b>subjectType</b>	Object	Optional	An object that contains details of the user profile to apply permissions to.
<b>description</b>	String	Optional	
<b>id</b>	String	Optional	The ID of the user profile. <ol style="list-style-type: none"> <li>1. Any user.</li> <li>2. User own</li> <li>3. Direct reports</li> <li>4. Group membership</li> <li>5. Service membership</li> <li>6. Role membership</li> </ol>
<b>subjectTypeSubjectId</b>	String	Optional	Only applicable when the ID is role membership. The ID of the role.
<b>name</b>		Optional	Only applicable when the ID is service or group membership. Name of the service or group.
<b>viewPrefs</b>	Object	Yes	Object containing the Self Service profile application sections that the role grants access to.
<b>launchpad</b>	Object	Yes	Object containing the parameter and parameter values for the launchpad section of the Self Service profile application.
<b>profile</b>	Object	Yes	Object containing the parameter and parameter values for the profile section of the Self Service profile application.
<b>reports</b>	Object	Yes	Object containing the parameter and parameter values for the reports section of the Self Service profile application.
<b>requests</b>	Object	Yes	Object containing the parameter and parameter values for the requests section of the Self Service profile application.
<b>services</b>	Object	Yes	Object containing the parameter and parameter values for the services section of the Self Service profile application.
<b>users</b>	Object	Yes	Object containing the parameter and parameter values for the users section of the Self Service profile application.

Table 160. Request body parameters (continued)

Parameter	Type	Required	Description
<b>appSectionCode</b>	String	Yes	The application section code for the Self Service profile application section. <ul style="list-style-type: none"> <li>• <b>reports</b>. Access for users to manage the profiles of users that are their direct reports.</li> <li>• <b>requests</b>. Access for users to manage pending approval and recertification requests.</li> <li>• <b>services</b>. Access for users to view a list of services to which they belong, and the ability to request services.</li> <li>• <b>users</b>. Access for users to view profile information of other users.</li> </ul>
<b>show</b>	Boolean	Yes	A value of <code>true</code> gives access to the Self Service profile application section.

#### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

#### Response parameters

Returned as map.

Table 161. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

#### Related concepts

##### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update fields in a Self Service form

Updates the field names and field attributes of a specified Self Service form, for example, the user name recovery form. The form is updated for a specified instance of Cloud Identity Service.

#### Request

POST /GmaApi/ss/updateAttributeElements

#### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml" -d {"instanceId":3, "appType":"recoverUsername", "data":{"formSections": [{"header":"Recover Username", "sectionLabel":"Recover Username", "subHeader":"Recover your username by providing the information below", "items":[{"authorization":"","
```

```

"children":[], "editable":"true",
"fieldName":"mail","fieldType":"text","initialValue":"Email", "label":"E-mail",
"mapping":"mail", "masked":"false", "match":"false", "more":"",
"required":"true", "idv":{"use":"false"}, "validationList":[], "value":""},
{"authorization":"","children":[], "editable":"true",
"fieldName":"employeeNumber", "fieldType":"text", "initialValue":"Account
Number", "label":"Account Number", "mapping":"employeeNumber",
"masked":"false", "match":"false", "more":"Must be a number between 7 and 30
characters in length", "required":"true", "idv":{"use":"false"},
"validationList":[], "value":""}}]} http://hostname/GmaApi/ss/
updateAttributeElements

```

### Resource URI

<https://hostname/GmaApi/ss/updateAttributeElements>

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

application/json

A JSON representation of the fields and attributes in a specified Self Service application form that contains one or more of the following parameters.

```

{
  "instanceId":,
  "appType": "",
  "data": {
    "formSections": [
      {
        "header": "",
        "sectionLabel": "",
        "subHeader": "",
        "items": [
          {
            "authorization": "",
            "children": [
              ],
            "editable": "",
            "fieldName": "",
            "fieldType": "",
            "initialValue": "",
            "label": "",
            "mapping": "",
            "masked": "",
            "match": "",
            "more": "",
            "required": "",
            "idv": {
              "use": ""
            },
            "validationList": [
              ],
            "value": ""
          }
        ]
      }
    ]
  }
}

```

## Request parameters

Table 162. Request body parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	ID of the instance to update.
<b>appType</b>	String	Yes	The name of Self Service application form to update, for example <code>recoverUsername</code> .
<b>data</b>	Object	Yes	An object that contains the sections of the specified Self Service application form.
<b>formSections</b>	Array	Yes	An array of form sections.
<b>header</b>	String	Optional	Section header.
<b>sectionLabel</b>	String	Optional	Section label.
<b>subHeader</b>	String	Optional	Section subheader.
<b>items</b>	Array	Optional	An array of objects. Each object represents a field in the form section.
<b>authorization</b>	String	Optional	
<b>children</b>	Array	Optional	
<b>fieldName</b>	String	Optional	Name of the attribute to be used as a field.
<b>label</b>	String	Optional	Label that is used to identify the field on the form.
<b>fieldType</b>	String	Optional	Field type. <ul style="list-style-type: none"><li>checkbox. Users can select one or more options as input for the field.</li><li>password. Password fields are masked.</li><li>radio. Users can select one option from a number of options as input for the field.</li><li>select. Users can select one option from a number of options as input for the field.</li><li>text. Users input a value in to the field as entered text.</li><li>textarea. Free-form text box.</li></ul>
<b>editable</b>	Boolean	Optional	Specifies whether the initial field value is editable by the user. A value of <code>true</code> makes the field editable.
<b>initialValue</b>	String	Optional	A default value for the field. If the field is editable, users can replace the default value.
<b>mapping</b>	String	Optional	
<b>masked</b>	Boolean	Optional	Specifies whether the field is masked, and the value that is entered cannot be seen on the screen. A value of <code>true</code> masks the field.

Table 162. Request body parameters (continued)

Parameter	Type	Required	Description
<b>match</b>	Boolean	Optional	Specifies whether a matching field is required. Users must enter the value twice, in separate fields to ensure that the value that is given is correct. A value of <code>true</code> makes the field matching.
<b>more</b>	String	Optional	A tooltip for the field.
<b>required</b>	Boolean	Optional	Specifies whether the field is mandatory. A value of <code>true</code> makes the field mandatory.
<b>idv</b>	Object	Optional	
<b>use</b>	String	Optional	
<b>validationList</b>	Array	Optional	Array of validation rules.
<b>value</b>	String	Optional	

#### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

#### Response parameters

Table 163. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

#### Related concepts

##### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update application text keys

Update application text keys for a specified text key type, and for a specified instance of Cloud Identity Service.

#### Request

POST /GmaApi/ss/updateAppTextKeys

#### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json" -d {"instanceId":"3","updatedKeys":{"en-us":{"textKeys":{"autocompleteKeys":{"services-col1Label":"NameTest"}}}}}  
http://hostname/GmaApi/ss/updateAppTextKeys
```

#### Resource URI

https://hostname/GmaApi/ss/updateAppTextKeys

## Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Content type

application/json

A JSON representation of a text keys form. The following example shows a JSON representation of an autocomplete text keys form.

```
{
  "instanceId": "",
  "updatedKeys": {
    "en-us": {
      "textKeys": {
        "autocompleteKeys": {
          "services-col1Label": ""
        }
      }
    }
  }
}
```

## Request parameters

Table 164. Request body parameters

Parameter	Type	Required	Description
<b>instanceId</b>	String	Yes	ID of the instance to update.
<b>updatedKeys</b>	Object	Yes	Object that contains the text key language, type, and text keys.
<i>language code</i>	String	Yes	The language code for the text keys, for example, <b>en-us</b> .
<b>textKeys</b>	String	Yes	Object that contains the text key type, and text keys.
<i>key type</i>	String	Yes	The text key type, for example <b>autocompleteKeys</b> . The following text key types can be specified. <ul style="list-style-type: none"><li>• <b>autocompleteKeys</b></li><li>• <b>buttonKeys</b></li><li>• <b>errorKeys</b></li><li>• <b>footerKeys</b></li><li>• <b>formKeys</b></li><li>• <b>placeholderTextKeys</b></li><li>• <b>tooltipTextKeys</b></li><li>• <b>headerKeys</b></li><li>• <b>attributeTextKeys</b></li><li>• <b>profileKeys</b></li><li>• <b>customValidationKeys</b></li><li>• <b>validationKeys</b></li></ul>
<i>key sub type</i>	String	Optional	The text key sub type, for example <b>services-col1Label</b> , and value, for example Name.

## Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

## Response parameters

Table 165. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Upload a new branding image file

Updates a branding image file for Self Service applications, by uploading a new branding file.

### Request

POST /GmaApi/ss/uploadBrandingFile

### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml" -F "file=@/Users/srinivasakancharla/Downloads/test.jpg" http://hostname/GmaApi/ss/uploadBrandingFile?instanceId=1&fileId=2
```

### Resource URI

https://hostname/GmaApi/ss/uploadBrandingFile

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Content type

Specify the local file to be uploaded, for example file=@/Users/srinivasakancharla/Downloads/test.jpg.

## Request parameters

Table 166. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The ID of the Cloud Identity Service instance to retrieve the file for.



Table 166. Query parameters (continued)

Parameter	Type	Required	Description
<b>fileId</b>	String	Yes	<p>ID of the branding image file to replace. You can specify one of the following branding file IDs.</p> <ul style="list-style-type: none"> <li>• 2. Logo image. Header logo.</li> <li>• 3. Error icon. Header logo.</li> <li>• 4. Favorites icon. Favorites icon that is displayed in browser.</li> <li>• 5. Form elements. Check box and radio button images.</li> <li>• 7. Page background. Tiled background image for profile management.</li> <li>• 8. Data loading indicator. Data loading image.</li> <li>• 10. Preloader image. Section is loading image.</li> <li>• 11. Search field icon. Autocomplete or search enabled input field image.</li> <li>• 12. Searching icon. Search being performed image.</li> <li>• 13. Success icon. Successful operation icon.</li> <li>• 14. Pages icon. Page icons on Self Service screens.</li> </ul>

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

### Response parameters

Table 167. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Upload a new IE9 branding image file

Updates a branding image file for Self Service applications that use Internet Explorer 9, by uploading a new branding file.

### Request

POST /GmaApi/ss/uploadBrandingFile/IE9

### Example cURL request

```
curl -v -i -X POST -H "Authorization: Bearer 73d2039d-7767-495f-b40c-f766fcf8f0e2" -H "Accept: application/json,application/xml,text/html,application/atom+xml,text/xhtml" -F "file=@/Users/srinivasakancharla/Downloads/test.jpg" http://hostname/GmaApi/ss/uploadBrandingFile/IE9?instanceId=1&fileId=2
```

### Resource URI

<https://hostname/GmaApi/ss/uploadBrandingFile>

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

Specify the local file to be uploaded, for example `file=@/Users/srinivasakancharla/Downloads/test.jpg`.

### Request parameters

Table 168. Query parameters

Parameter	Type	Required	Description
<b>instanceId</b>	Integer	Yes	The ID of the Cloud Identity Service instance to retrieve the file for.
<b>fileId</b>	String	Yes	ID of the branding image file to replace. You can specify one of the following branding file IDs. <ul style="list-style-type: none"><li>• 2. Logo image. Header logo.</li><li>• 3. Error icon. Header logo.</li><li>• 4. Favorites icon. Favorites icon that is displayed in browser.</li><li>• 5. Form elements. Check box and radio button images.</li><li>• 7. Page background. Tiled background image for profile management.</li><li>• 8. Data loading indicator. Data loading image.</li><li>• 10. Preloader image. Section is loading image.</li><li>• 11. Search field icon. Autocomplete or search enabled input field image.</li><li>• 12. Searching icon. Search being performed image.</li><li>• 13. Success icon. Successful operation icon.</li><li>• 14. Pages icon. Page icons on Self Service screens.</li></ul>

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

## Response parameters

Table 169. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Update priority roles

Update priority of roles for instances of Cloud Identity Service.

### Request

PUT /GmaApi/ss/roles

### Example cURL request

```
curl -X PUT "https://hostname/GmaApi/ss/roles" -d
'{"clientId":134,"uuid":"2c473675-f81e-4648-
a6c0-6e80a74c9e61","clientRolePriority":1,"defaultRole":false}' -v -H
"Authorization: Bearer a858e7eb-0392-4301-8c65-18744553da36" -H "Accept:
application/json" -H "Content-Type: application/json"
```

### Resource URI

https://hostname/GmaApi/ss/roles

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameter

Table 170. Request body parameter

Parameter	Type	Required	Description
<b>ClientId</b>	Integer	Yes	The id of the client in database.
<b>Uuid</b>	String	Yes	The role <b>Uuid</b> which needs to update client priority role. <b>Note:</b> You can use the <a href="#">GET /GmaApi/users/{username}</a> method to retrieve the <b>gtwayUUID</b>
<b>clientRolePriority</b>	Integer	Yes	The priority value to which current role needs to be updated.

Table 170. Request body parameter (continued)

Parameter	Type	Required	Description
<b>defaultRole</b>	Boolean	Yes	This shows whether the current role is default or not. If default role is set as True, then current role will be set as default role. If default role is set as False, then current role will be updated to assigned priority role.

#### Example response

```
{ "success": true, "apiError": false, "message": "Client Roles updated",
  "errors": {} }
```

#### Response parameter

Table 171. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Verification token methods

The verification token service provides short-lived tokens that are linked to users.

### Token contents

Each token contains a number of parameters to verify users.

Table 172. Token contents

Parameter	Description
<b>type</b>	The token type.
<b>value</b>	A unique ID value of the token that is generated on token creation.
<b>gtwayUuid</b>	The <b>gtwayUuid</b> of the user.
<b>expiry</b>	The amount of time in seconds before the token expires. After the expiry time elapses, the token is automatically removed from the system. An attempt to fetch the token after it expires results in a null return.  Expiry times vary by token type. Each token type has a default expiry time.
<b>extensionData</b>	A JSON formatted string of data that is to be returned whenever the token is accessed.

## Token types

A number of different token types are available.

Token type	Description
Password reset	Used for resetting password in Self Service applications. <ul style="list-style-type: none"><li>• ID. <b>passwordResetToken</b>.</li><li>• Default expiry. 1800 seconds</li></ul>
Account claiming	Used to start the Self Service account claim function. The identity must be verified by a trusted source before a token of this type is generated. <ul style="list-style-type: none"><li>• ID. <b>accountClaimingToken</b>.</li><li>• Default expiry. 1800 seconds.</li></ul>
Session verification	Used to establish a session for a previously authenticated user. The user must be authenticated by a Cloud Identity Portal API before a token of this type is generated. <ul style="list-style-type: none"><li>• ID. <b>sessionVerificationToken</b>.</li><li>• Default expiry. 120 seconds.</li></ul>
Federation context	Used to insert claim data into an identity assertion that is generated or otherwise not stored in LDAP. <ul style="list-style-type: none"><li>• ID. <b>federationContextToken</b>.</li><li>• Default expiry. 30 seconds.</li><li>• The session ID attribute <b>user_session_id</b> of the user must be passed in <b>extensionData</b> on creation of this token type, for example:<ul style="list-style-type: none"><li>– {"user_session_id": "&lt;VALUE&gt;"}</li></ul></li></ul>
One time passcode	Used to generate a six-digit passcode that can be assigned to a user for identity verification purposes. <ul style="list-style-type: none"><li>• ID. <b>oneTimePasscodeToken</b>.</li><li>• Default expiry. 600 seconds.</li></ul>

## Retrieve token type names

Retrieves the names of all token types.

### Request

GET /GmaApi/verificationToken/tokenTypes

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/verificationToken/tokenTypes
```

### Resource URI

https://hostname/GmaApi/verificationToken/tokenTypes

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

None.

## Example response

```
{"status": "success", "entries": ["passwordResetToken", "accountClaimingToken", "sessionVerificationToken", "federationContextToken"], "totalCount": 4}}
```

## Response parameters

Table 174. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>entries</b>	Lists of token types.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve token details

Retrieves the details of a specified token.

### Request

GET /GmaApi/verificationToken/token

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/verificationToken/token?tokenValue=7f3223df-0fbf-4f95-b4df-0093d1963472
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Resource URI

https://hostname/GmaApi/verificationToken/token

## Request parameters

Table 175. Query parameters

Parameter	Type	Required	Description
<b>tokenValue</b>	String	Yes	The ID of the token to be retrieved.

## Example response

```
{"status": "success",  
  entry: { type: "passwordResetToken",  
    value: "7f3223df-0fbf-4f95-b4df-0093d1963472",  
    gtwayUuid: "224187d8-6aee-42e8-826d-4384a5459efd",  
    expiry: "3600",  
    extensionData: "null" }}
```

## Response parameters

Table 176. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>type</b>	The token type.
<b>value</b>	The token ID.
<b>gtwayUuid</b>	The <b>gtwayUuid</b> of the user who is associated with the token.
<b>expiry</b>	Time in seconds that this token is valid for.
<b>extensionData</b>	Parameter and parameter values for the token.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve the configuration for a token type

Retrieves the configuration for a token type.

### Request

GET /GmaApi/verificationToken/tokenConfig/

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/verificationToken/tokenConfig?type=passwordResetToken
```

### Resource URI

https://hostname/GmaApi/verificationToken/tokenConfig

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 177. Query parameters

Parameter	Type	Required	Description
<b>type</b>	String	Yes	The token configuration type. <ul style="list-style-type: none"><li>• accountClaimingToken</li><li>• passwordResetToken</li><li>• sessionVerificationToken</li><li>• federationContextToken</li><li>• passwordResetLockoutToken</li><li>• oneTimePasscodeToken</li><li>• CSRFToken</li></ul>

## Example response

```
{"status": "success", "entry": {"expiry": "60"}}
```

## Response parameters

Table 178. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>entry</b>	Details of the configuration of the token.

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Set the configuration for a token type

Sets the configuration for a verification token type.

### Request

**Important:** When you set the configuration for a token type, you must set all values. Previously set values return to their default values. For example, if you set the **token\_length** with one call and then set the **token\_expiry** with a subsequent call, the second call resets the **token\_length** to its default value.

```
POST /GmaApi/verificationToken/tokenConfig/{tokenType}
```

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -H "Content-type:application/json" "https://hostname/GmaApi/verificationToken/tokenConfig/oneTimePasscodeToken?token.expirytime=7777&token.tokenlength=19"
```

### Authorization header

For information about obtaining an access token, see [“Request an access token” on page 3](#).

### Content type

```
application/json
```

### Resource URI

```
https://hostname/GmaApi/verificationToken/tokenConfig/{tokenType}
```



## Request parameters

Table 179. Path parameters

Parameter	Type	Required	Description
<b>tokenType</b>	String	No	The token type. <ul style="list-style-type: none"><li>• accountClaimingToken</li><li>• passwordResetToken</li><li>• sessionVerificationToken</li><li>• federationContextToken</li><li>• passwordResetLockoutToken</li><li>• oneTimePasscodeToken</li><li>• CSRFToken</li></ul>

Table 180. Request body parameters

Parameter	Type	Required	Description
<b>token.expirytime</b>	Integer	No	The amount of time in seconds before the token expires.
<b>token.tokenlength</b>	Integer	No	For the oneTimePasscodeToken type only. The number of characters for the token. The minimum number of characters is 1 and the maximum is 19.
<b>extensionData</b>	Object	No	Object with token-type specific data that is to be returned whenever the token is accessed.

For more information about token configuration contents, see [“Token contents”](#) on page 118 and [“Token types”](#) on page 119.

### Example response

```
{"status": "success"}
```

## Response parameters

Table 181. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Create a verification token for a user

Creates a verification token for a user.

### Request

POST /GmaApi/verificationToken/token/{tokentype}

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -H "Content-type:application/json" https://hostname/GmaApi/verificationToken/token/passwordResetToken?gtwayUuid="224187d8-6aee-42e8-826d-4384a5459efd"
```

### Resource URI

https://hostname/GmaApi/verificationToken/token/{tokentype}

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Content type

application/json

### Request parameters

Table 182. Path parameters

Parameter	Type	Required	Description
<b>tokenType</b>	String	Required	The token type to be created. <ul style="list-style-type: none"><li>• accountClaimingToken</li><li>• passwordResetToken</li><li>• sessionVerificationToken</li><li>• federationContextToken</li><li>• passwordResetLockoutToken</li><li>• oneTimePasscodeToken</li><li>• CSRFToken</li></ul>

Table 183. Request body parameters

Parameter	Type	Required	Description
<b>gtwayUuid</b>	String	Yes	The <b>gtwayUuid</b> of the user the token is created for. <b>Note:</b> You can use the GET <code>/GmaApi/users/{username}</code> method to retrieve the <b>gtwayUuid</b> of a user.
<b>extensionData</b>	Object	No	Object with token-type specific data. Only for the <b>federationContextToken</b> token type. A <b>user_session_id</b> parameter and value are required for the <b>federationContextToken</b> token type.

### Example response

```
{
  "status": "success",
  "entry": {
    "type": "passwordResetToken",
    "value": "7f3223df-0fbf-4f95-b4df-0093d1963472",
    "gtwayUuid": "224187d8-6aee-42e8-826d-4384a5459efd",
    "expiry": 3600,
    "extensionData": "null"
  }
}
```

```
}  
}
```

## Response parameters

Table 184. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>entry</b>	Object containing details of the created token.
<b>type</b>	The type of token created.
<b>value</b>	Identifier key that is automatically generated for the token.
<b>gtwayUuid</b>	The <b>gtwayUuid</b> of the user who is associated with the token.
<b>expiry</b>	Default expiry period in seconds until the token expires.
<b>extensionData</b>	Object containing token-type specific data.

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Delete a verification token

Deletes a verification token.

### Request

```
DELETE /GmaApi/verificationToken/token/{tokenValue}
```

### Example cURL request

```
# curl -v -X DELETE -H "Authorization: Bearer 644d0ac0-908f-485a-ac8db5bb99f200d7" https://hostname/GmaApi/verificationToken/token/7f3223df-0fbf-4f95-b4df-0093d1963472
```

### Resource URI

```
https://hostname/GmaApi/verificationToken/token/{tokenValue}
```

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 185. Path parameters

Parameter	Type	Required	Description
<b>tokenValue</b>	String	Yes	The value of the verification token to delete.

## Example response

```
{"status": "success"}
```

## Response parameters

Table 186. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Identities methods

Identities methods are used to, retrieve, update, and delete user identities.

### Check whether a user name exists

Checks whether a user name is in use.

#### Request

GET /GmaApi/identities/checkUsername

#### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/identities/checkUsername?username=chuck
```

#### Resource URI

https://hostname/GmaApi/identities/checkUsername

#### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

## Request parameters

Table 187. Query parameters

Parameter	Type	Required	Description
<b>username</b>	String	Yes	The user name to check.

## Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}},"available":false,"account":false}
```

## Response parameters

Table 188. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

Table 188. Response parameters (continued)

Parameter	Description
<b>available</b>	Indicates whether the user name is available for use.
<b>account</b>	Indicates whether the user record is an account or not, if the user name is not available.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Retrieve user details by user UUID

Retrieves details for a user who is specified by their **uuid**.

### Request

GET /GmaApi/identities/getUserDetails

### Example cURL request

```
# curl -v -X GET -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" https://hostname/GmaApi/identities/getUserDetails?uuid=55555555-5555-5555-5555-555555555555
```

### Resource URI

https://hostname/GmaApi/identities/getUserDetails

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Request parameters

Table 189. Query parameters

Parameter	Type	Required	Description
<b>uuid</b>	String	Yes	The <b>uuid</b> of the user to retrieve details for.

### Example response

```
{
  "status": {
    "success": true,
    "apiError": false,
    "message": "Success",
    "errors": {}
  },
  "userDetails": {
    "account": "",
    "groups": ["group1"],
    "roles": ["role1"],
    "pwdStatus": "status1",
    "services": ["service1"],
    "userAttributes": {
      "attrNam1": "attrVal1"
    }
  },
  "userStatus": "status2"
}
```

### Response parameters

Table 190. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .
<b>userDetails</b>	Details of the user record.
<b>account</b>	Indicates whether the user record is an account or an identity.

Table 190. Response parameters (continued)

Parameter	Description
<b>groups</b>	Groups the user is a member of.
<b>roles</b>	Roles the user is assigned to.
<b>pwdStatus</b>	Indicates whether the status of the user password is valid or invalid
<b>services</b>	Services the user is a member of.
<b>userAttributes</b>	User identity attributes and values, see <a href="#">Chapter 6, “User identity attributes,”</a> on page 135 for a list of standard LDAP attributes.
<b>userStatus</b>	Indicates whether the status of the user is active or inactive. Inactive users cannot log in to the Cloud Identity Portal or access protected applications.

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Add a user

Add a user record with specified attributes, roles, and status.

### Request

POST /GmaApi/identities/addUser

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -H "Accept: application/json" -d {"userAttributes": {"sn": "Doe", "cn": "John Doe"}, "roles": null, "account": "false", "userStatus": "false", "pwdStatus": "false"} https://hostname/GmaApi/identities/addUser
```

### Resource URI

https://hostname/GmaApi/identities/addUser

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Content type

application/json

A JSON representation of an add user form that contains one or more of the following parameters.

```
{
  "userAttributes":
    {
      "sn": ,
      "cn": }
  "roles": ,
  "account": ,
  "userStatus": ,
  "pwdStatus":
}
```

## Request parameters

Table 191. Request body parameters

Parameter	Type	Required	Description
<b>userAttributes</b>	Object	Yes	Object containing identity attributes and values. Specify the identity attributes and attribute values to include in the user record. The surname attribute <b>sn</b> must be specified. You can specify other identity attributes, see <a href="#">Chapter 6, “User identity attributes,”</a> on page 135 for a list of standard LDAP attributes.
<b>roles</b>	String	Optional	Specifies roles for the user in a comma-separated list.
<b>account</b>	Boolean	Optional	Specifies whether the user record is an account or an identity. Only a user with an account is able to access Cloud Identity Service and Self Service applications.
<b>userStatus</b>	Boolean	Optional	Only applicable if <b>account</b> is set to <code>true</code> . Specifies whether the status of the user is active or inactive. If set to <code>false</code> , the user cannot log in to Cloud Identity Service and Self Service applications.
<b>pwdStatus</b>	Boolean	Optional	Only applicable if <b>account</b> is set to <code>true</code> . Specifies whether the status of the user password is valid or invalid. If set to <code>false</code> , the user is forced to change their password at their next successful login. If set to <code>true</code> , the user can log in without changing their password.

## Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

## Response parameters

Table 192. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

## Related concepts

### [Errors](#)

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Change attributes for a user

Changes or adds attributes for a user or users.

### Request

POST /GmaApi/identities/editUser

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d [{"userDetails":{"userAttributes":{"sn":"Doe","cn":"John Doe"}}, "uuid":"c45f71a8-abe1-4256-9643-6621fa3fcd7c"}] https://hostname/GmaApi/identities/editUser
```

### Resource URI

https://hostname/GmaApi/identities/editUser

### Authorization header

For information about obtaining an access token, see [“Request an access token”](#) on page 3.

### Content type

application/json

A JSON representation of an array of users or a user that contains one or more of the following parameters.

```
[
  {
    "userDetails":{
      "userAttributes":{
        }
      },
    "uuid":"12e765c1-201b-4bc5-b185-f8aa21dbaad3"
  }
]
```

### Request parameters

Table 193. Request body parameters

Parameter	Type	Required	Description
<b>userDetails</b>	Object	Yes	Object containing user details.
<b>userAttributes</b>	Object	Yes	Object containing identity attributes and values. Specify the identity attributes and attribute values to change or add in the user record, see Chapter 6, “User identity attributes,” on page 135 for a list of standard LDAP attributes.
<b>uuid</b>	String	Yes	The <b>uuid</b> of the user to update attributes for.

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

### Response parameters

Table 194. Response parameters

Parameter name	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

[Errors](#)



If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

## Delete a user with a specified UUID

Deletes a user record for a user with a specified **uuid**.

### Request

POST /GmaApi/identities/removeUser

### Example cURL request

```
# curl -v -X POST -H "Authorization: Bearer 644d0ac0-908f-485a-ac8d-b5bb99f200d7" -d '{"uuid":"55555555-5555-5555-555555555555"}' https://hostname/GmaApi/identities/removeUser
```

### Request parameters

Table 195. Request body parameters

Parameter	Type	Required	Description
<b>uuid</b>	String	Yes	The <b>uuid</b> of the user to delete.

### Example response

```
{"status":{"success":true,"apiError":false,"message":"Success","errors":{}}
```

### Response parameters

Table 196. Response parameters

Parameter	Description
<b>status</b>	Returns whether the request was successful. Returns an error when the request is unsuccessful. For more information about errors, see <a href="#">Errors</a> .

### Related concepts

#### Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.



## Chapter 5. Errors

If an error occurs, the API returns an HTTP status code that indicates an error, such as 400, 401, 403, 404, or 500.

### Error response

Error responses contain JSON formatted information.

#### Example error response

```
{ "status": 400,
  "code": 400,
  "message": "AccountCreateError",
  "developerMessage": "com.lsg.gma.api.exception.AccountCreateException: Could not
  create Gateway Account because the username \"ggonzalez\" is already in use by
  another Account" }
```

#### Response parameters

Table 197. Response parameters

Parameter name	Description
<b>status</b>	The HTTP status code.
<b>code</b>	The HTTP status code.
<b>message</b>	A brief error message that can be used for troubleshooting.
<b>developerMessage</b>	A more detailed message with exception details, including the exception class name.

#### 400 errors

A status code of 400: **Bad Request** indicates that something specific to your request caused an error, for example, missing request parameters. You can modify and resubmit the request.

A status code of 400, "message": "TokenTypeConfigurationError" when a verification token is configured, indicates that the token length that you specified is less than or greater than the configurable range, for example:

```
Token Length of 0 is not allowed, token length must be greater than zero
```

```
Token Length of 20 is greater than the max allowed of: 19
```

You can modify and resubmit the request.

#### 401 errors

A status code of 401: **Unauthorized** indicates that the OAuth authentication information is missing or invalid.

If you request that contains no OAuth access token, the following error is returned.

```
{ "error": "unauthorized",
  "error_description": "An Authentication object was not found in the
  SecurityContext" }
```

If you send a request that contains an expired or otherwise invalid token, the following error is returned.

```
{"error": "invalid_token",  
"error_description": "Invalid access token: 39c58ee0-95dc-408d-98b4-2a089df8dbee"}
```

### 403 errors

A status code of 403: `Forbidden` indicates that you attempted to access a resource that you do not have authority to access.

If you encounter a 403 error and the cause is unclear, contact a support representative.

A status code of 403 can also occur if a user account is expired, or if a password is locked.

### 404 errors

A status code of 404: `Not Found` indicates that the URL being requested is not found.

If a typographical error is entered in the URL that you request, then a 404 error is returned.

A 404 is returned if you query the API for a resource that does not exist. For example, if you send a request to GET `https://hostname/GmaApi/users/fred` but no such user exists, then a 404 error is returned with the following response.

```
{"status": 404,  
"code": 404,  
"message": "UserNotFound",  
"developerMessage": "com.lsg.gma.api.exception.UserNotFoundException: The user was  
not found in the directory"}
```

### 500 errors

A status code of 500: `Internal Server Error` indicates that an unexpected error occurred on the server.

Contact a support representative.

## Chapter 6. User identity attributes

A set of standard set of LDAP attributes and Cloud Identity Service user attributes can be set when you create or update users. In addition, you might have extra custom attributes specific to your organization.

Contact your support representative for assistance with custom attributes.

### Standard LDAP user identity attributes

The standard LDAP attributes that are available are specified in the **inetOrgPerson**, **organizationalPerson**, **person**, and **ePerson** object classes.

Table 198. LDAP user identity attributes

Attribute name	Type	Multi-value	Description
<b>accessHint</b>	String	Yes	DN pointer to an <b>accessRole</b> or <b>accessGroup</b> object class.
<b>accountHint</b>	String	Yes	DN pointer to an account directory object.
<b>audio</b>	String	Yes	Contains a sound file in binary format.
<b>businessCategory</b>	String	Yes	The kind of business that is performed by an organization.
<b>c</b>	String	No	Country, indicated by a two-letter ISO 3166 country code ( <b>countryName</b> ).
<b>carLicense</b>	String	Yes	Vehicle license plate tag.
<b>cn</b>	String	Yes	Common name. The X.500 <b>commonName</b> attribute, which contains a name of an object. If the object corresponds to a person, it is typically the full name of the person.
<b>configPtr</b>	String	Yes	DN pointer to a directory that is derived from the <b>cimConfigurationentry</b> object class, such as an <b>ePropertySet</b> .
<b>departmentNumber</b>	String	Yes	A department within an organization.
<b>description</b>	String	Yes	A lengthy description of a directory object entry. An attribute that is common to CIM and LDAP schema.
<b>destinationIndicator</b>	String	Yes	The country and city strings that are associated with the object (the addressee) needed to provide the public telegram service.
<b>displayName</b>	String	Yes	A name that is used to display an entry in a one-line summary list.
<b>employeeNumber</b>	String	No	Identifies an employee in an organization by the employee number.
<b>employeeType</b>	String	Yes	The type of employment for an employee.
<b>facsimileTelephoneNumber</b>	String	Yes	A fax number.
<b>generationQualifier</b>	String	Yes	The suffix part of the name of a person, for example, III, 3rd, and Jr.

Table 198. LDAP user identity attributes (continued)

Attribute name	Type	Multi-value	Description
<b>givenName</b>	String	Yes	The part of the name of a person that is not their surname or their middle name, for example John, Jane, or Joe.
<b>homeFax</b>	String	Yes	A home fax number.
<b>homePhone</b>	String	Yes	A home telephone number.
<b>initials</b>	String	Yes	The initials of some or all of the name of a person, but not including the surname, for example D. or D. A. for a person with the name Dan Andrew Smith.
<b>internationalISDNNumber</b>	String	Yes	The Integrated Services Digital Network (ISDN) addresses, in the format specified in <a href="#">CCITT Rec. E. 164</a> .
<b>jpegPhoto</b>	String	Yes	A JPEG photo.
<b>l</b>	String	Yes	The name of a locality, such as a city, county, or other geographic region. ( <b>localityName</b> in X.500.)
<b>labeledURI</b>	String	Yes	The Uniform Resource Identifier with an optional label as defined in <a href="#">RFC2079</a> .
<b>mail</b>	String	Yes	Email address.
<b>manager</b>	String	Yes	The given name of a user's manager within your organization.
<b>middleName</b>	String	Yes	The middle name of a person.
<b>mobile</b>	String	Yes	The mobile or cellular phone number.
<b>o</b>	String	Yes	The name of an organization. ( <b>organizationName</b> in X.500.)
<b>objectClass</b>	String	Yes	The kind of object that an entry represents.
<b>organizationalStatus</b>	String	Yes	A category by which a person is referred to in an organization.
<b>otherMailbox</b>	String	Yes	Specifies values for electronic mailbox types other than X.400 and rfc822.
<b>ou</b>	String	Yes	The name of an organizational unit. ( <b>organizationName</b> in X.500.)
<b>pager</b>	String	Yes	A pager phone number.
<b>personalTitle</b>	String	Yes	A personal title for a person, for example Mr, Ms, Dr, Prof, and Rev.
<b>photo</b>	String	Yes	A photo, in binary form.
<b>physicalDeliveryOfficeName</b>	String	Yes	A physical delivery office number.

Table 198. LDAP user identity attributes (continued)

Attribute name	Type	Multi-value	Description
<b>postalAddress</b>	String	Yes	A mailing address. This field is intended to include multiple lines. When represented in LDIF format, each line must be separated by a dollar sign (\$)
<b>postalCode</b>	String	Yes	Postal code.
<b>postOfficeBox</b>	String	Yes	Post office box number.
<b>preferredDeliveryMethod</b>	String	No	A preferred contact or delivery method.
<b>preferredLanguage</b>	String	No	The preferred written or spoken language of a person.
<b>registeredAddress</b>	String	Yes	A postal address for receiving telegrams or expedited documents.
<b>roomNumber</b>	String	Yes	A room number. The <b>commonName</b> attribute is normally used for naming room objects.
<b>secretary</b>	String	Yes	Identifies a secretary or administrative assistant, by distinguished name.
<b>seeAlso</b>	String	Yes	The distinguished names of objects that are related to the subject object. Each related object name is one value of this multi-valued attribute.
<b>sn</b>	String	Yes	The X.500 surname attribute, which is the surname of a person.
<b>st</b>	String	Yes	The full name of a state or province. ( <b>stateOrProvinceName</b> in X.500)
<b>street</b>	String	Yes	The site information from a postal address (the street name, place, avenue, and the house number). ( <b>streetAddress</b> in X.500.)
<b>telephoneNumber</b>	String	Yes	A telephone number.
<b>teletexTerminalIdentifier</b>	String	Yes	A teletex terminal identifier.
<b>telexNumber</b>	String	Yes	A telex number.
<b>thumbnailLogo</b>	String	Yes	Thumbnail logo that is associated with a user.
<b>thumbnailPhoto</b>	String	Yes	Thumbnail photo that is associated with a user.
<b>title</b>	String	Yes	The title, such as Vice President, of a person in their organizational context.
<b>uid</b>	String	Yes	A login name that is associated with the user, typically <b>shortname</b> , or <b>userid</b> .
<b>uniqueIdentifier</b>	String	Yes	A unique identifier for an object that is represented in the directory. The domain within which the identifier is unique, and the exact semantics of the identifier, are defined locally.
<b>userCertificate</b>	String	Yes	The certificates that are issued to the user by one or more certificate authorities.

Table 198. LDAP user identity attributes (continued)

Attribute name	Type	Multi-value	Description
<b>userPKCS12</b>	String	Yes	PKCS \2312 PFX PDU standard for exchange of personal identity information.
<b>userPassword</b>	String	Yes	A password value for a distinguished name.
<b>userSMIMECertificate</b>	String	Yes	Signed message that is used to support S/MIME.
<b>x121Address</b>	String	Yes	Specifies the <u>X.121</u> address for an object.
<b>x500UniqueIdentifier</b>	String	Yes	Differentiates objects when a distinguished name is reused. The method of identification is binary.

### Cloud Identity Service user identity attributes

Table 199. Cloud Identity Service user attributes

Field	Type	Description
<b>gtwayAddressLine1</b>	String	The first line of a postal address.
<b>gtwayAddressLine2</b>	String	The second line of a postal address.
<b>gtwayDelegate</b>	Boolean	The name of a user's delegate in Cloud Identity Service.
<b>gtwayIsManager</b>	Boolean	Indicates whether a user is a manager of other users in Cloud Identity Service.
<b>gtwayLastRecertDate</b>	String	The last recertification date for a user.
<b>gtwayManager</b>	String	The name of a user's manager in Cloud Identity Service.
<b>gtwayUserType</b>	String	The user type.



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