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# Introduction

Authentication & Authorization

The Google Ads API Developer Series



#### Authentication & Authorization

#### Authentication - WHO you are

#### Authorization - WHAT you can do

### What is OAuth2 and Why Do We Need It?

- Industry-standard authorization protocol
- All Google Ads API calls must be authorized through OAuth2
- OAuth2 enables your Google Ads API client app to access a user's Google Ads account without having to handle or store the user's login info



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#### **Required Credentials: Developer Token**



#### Required Credentials: Developer Token

• Account agnostic credential to connect your app to the Google Ads API

VPI Access		TOOLS & SETTINGS			
Developer token	<developer token=""></developer>	SETUD			
Access level	Standard Access	Account map	Request		
leveloper Details lease tell us about yourself and nportant service announcemen	how you plan on using the API. We encourage you to keep this information up t ts.	Access and security Linked accounts	Token		
API contact email	<email address=""></email>	Preferences	Access Token		
Company name	Google	API Center			
Company URL	http://www.google.com	Google Merchant Center			
Company type	Advertiser		_		
Intended use	Internal tests DevRel Team	~			
Principal place of business	United States	~			

#### Required Credentials: Access Token

• Credential to grant temporary access to a specific account (typically last 1 hour)



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#### Required Credentials: Client ID & Client Secret

• Credentials for a specific Google Cloud account

#### **Google Cloud Console\***



\* The Google Ads API must be enabled on the Google Cloud Project

#### Required Credentials: Refresh Token

• Credential to generate new Access Tokens



#### Example Refresh Token Flow

#### **Required Credentials: Refresh Token**

• Client ID and Client Secret also used to generate a refresh token



#### 1. Create a Developer Token

API Access		TOOLS & SETTINGS	
Developer token	<developer token=""></developer>	-	
Access level	Standard Access	SETUP	Request
avelener Deteile		Account map	Developer
lease tell us about vourself and	I how you plan on using the API. We encourage you to keep this information up t	Access and security	Token
nportant service announcemer	ts.	Linked accounts	
API contact email	<email address=""></email>	Preferences	Access Token
Company name	Google	API Center	
Company URL	http://www.google.com	Google Merchant Center	
Company type	Advertiser		
Intended use	Internal tests DevRel Team	~	
Principal place of business	United States	~	

- 1. Create a Developer Token
- 2. Obtain Client ID and Client Secret from configured Google Cloud Project
  - a. Create a Google Cloud Project

#### b. Enable the Google Ads API in your project in the <u>API Library</u>



- 1. Create a Developer Token
- 2. Obtain Client ID and Client Secret from configured Google Cloud Project
  - a. Create a Google Cloud Project
  - b. Enable the Google Ads API in your project in the API Library
  - c. Create a Client ID and Client Secret

0	OAuth is lir	nited to 10	0 <u>sensitive s</u> lished This	cope login	s until the <u>OAuth</u>	
	process th	at can take	several day	s.	e a vermeation	
Your Cli	ent ID					
787€		5			'5ua.apps.gc	Г
Your Cli	ent Secret					
NZA		He	5			Б

- 1. Create a Developer Token
- 2. Obtain Client ID and Client Secret from configured Google Cloud Project
  - a. Create a Google Cloud Project
  - b. Enable the Google Ads API in your project in the API Library
  - c. Create a Client ID and Client Secret
- 3. Generate a Refresh Token



- 1. Create a Developer Token
- 2. Obtain Client ID and Client Secret from configured Google Cloud Project
  - a. Create a Google Cloud Project
  - b. Enable the Google Ads API in your project in the API Library
  - c. Create a Client ID and Client Secret
- 3. Generate a Refresh Token
- 4. Generate an Access Token



- 1. Create a Developer Token
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  - c. Create a Client ID and Client Secret
- 3. Generate a Refresh Token

4. Generate an Access Token

Note: client libraries handle this for you provided a valid refresh token

- 1. Create a Developer Token
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- 4. Generate an Access Token

cURL Request to Generate an Access Token



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- 3. Generate a Refresh Token
- 4. Generate an Access Token
- 5. Make an authenticated request



## Account Access



#### Wait... How is Account Access Actually Determined?



#### Wait... How is Account Access Actually Determined?

Step 2:

**OAuth Flow Magic?** 

#### User Login & Consent





#### User Login & Consent

The permissions that an access token has are directly tied to the

permissions that email has on the Google Ads account.

Sign in with Google								
Google OAuth wants to acce	2.0 Playground ss your Google		🗧 🐴 Google Ads	Access and secur	ity		Q EI SEARCH REPORTS	TOOLS & SETTINGS
() user	@email.com		USERS M/	NAGERS SECUR	ITY			SETUP
This will allow Google O	This will allow Google OAuth 2.0 Playground to:							
<ul> <li>Manage your AdWords</li> </ul>	s campaigns		•					Policy manager
• •			ADD FILTER					Access and security
Make sure you trust Go	ogle OAuth 2.0		User 🛧	Last signed-in	Access level	Authentication method	Inviter user	Linked accounts
Playground	the state at the tax of a second state		user@email.com	Sep 13, 2021	Admin	2-Step Verification		Fielefences
can always see or remove ac	ccess in your Google Account.		user2@email.com	Jan 6, 2020	Admin	2-Step Verification	user@email.com	Google Merchant Center
Learn how Google helps you	share data safely.							
See Google OAuth 2.0 Playgr Terms of Service.	round's Privacy Policy and	-						
Cancel	Allow							
								G

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#### User Login & Consent



- 🙏 Google Ads	Access and securit	у		Q II. Search reports	TOOLS & SETTINGS
USERS MAN	AGERS SECURIT	Y			SETUP
This table shows the users that ha	of "Billing & payments" settings.	Business data			
		5 5 5		5,7,5	Policy manager
+ Add filter					Access and security
User 🛧	Last signed-in	Access level	Authentication method	Inviter user	Linked accounts
user@email.com	Sep 13, 2021	Admin	2-Step Verification		Preferences
user2@email.com	Jan 6, 2020	Admin	2-Step Verification	user@email.com	Google Merchant Center 🛛 🛛

### User Login & Consent



				TOOLS & SETTINGS	:	
$\leftarrow$ $\land$ Google Ads Acces	SETUP					
USERS MANAGERS	Business data					
Date linked on Feb 8, 2019 ADD F	Date linked on Feb 8, 2019 ADD FILTER					
				Access and security		
Manager 🛧	Manager $\uparrow$ Date linked Manager type Ow					
Manager Account 123-456-789	<sup>Yes</sup> Preferences					
				Google Merchant Ce	nter 🛛	

 Users on Manager accounts can also authenticate to make requests on behalf of client accounts using the <u>login-customer-id</u> request header

# OAuth2 Flows



#### OAuth2 Flows

- Three types of OAuth2 "flows"
  - Desktop app flow (preferred)
  - $\circ$  Web app flow
  - Service account flow
- Client libraries provide utilities to make this easier for desktop and web app flows
  - Desktop application flow
  - Web application flow

### Desktop App Flow (Recommended)

- Choose this app type if...
  - You're managing all of your Google Ads accounts using a single top level manager account
  - You're a first-time user, or want to get started quickly with the simplest setup
  - Your app will only authenticate Google users from one machine



### Web App Flow

- Choose this app type if...
  - You want to authenticate as a user who can grant permission to your app to access their Google Ads account data
  - You want to easily generate multiple authorization credentials, to manage third-party accounts for example
  - Your app requires callback URLs, which are not supported in the desktop app flow

#### **Quickstart Guide**

人 Go	oogle Ads.	API						Q Search
Guides	Migration	Reference	Reports	Libraries & Examples	REST Interface	Support & Policies		
Product ov	erview							
Quickstart			Registe	r for one of our <u>Google A</u>	ds API Migration Works	hops (October 5, 2021 -	October 14, 2021)	
Overview	N							
Develop	er token							
Client lib	orary		Home	<ul> <li>Products &gt; Google Ad</li> </ul>	Js API		W	'as this helpful? 🖆 🖓
OAuth c	loud project		0					
OAuth c	lient library		Qu	CKStart U				Send feedback
Refresh	token							
First cal	I.		This g	uide uses a client libra	ary to retrieve Google	Ads campaigns.		
Basic conc	epts							
Account m	anagement		To ena	ble API access, first o	obtain the required O/	Auth2 credentials. The	en, add the authorization and	account details to a
Ad manage	ement		config	file. Once the config f	ile is set up, you're re	ady to call the API.		
Assets								
Authentica	tion							
Billing			Prer	equisites				
Campaign	management							
Eutomeione	management		Conf	g parameters				
Dispations	and reeds							
Praining Si	ervice		You'll r	eed to supply the foll	lowing information in	the config file of your	client library.	
Reach fore	casung	anting	Develo	per token				
Reporting	ig a audience targ	geung	Develo					
Targeting			)	our developer token le	lets your app access	the API, but the token	is not restricted to only one (	Google Ads account.
rargeting			(	nce your token is app	proved, you can use t	he same token for req	uests against all your Google	Ads accounts, even

#### **Authentication Guide**

🙏 Google Ad	s API						Q Search
Guides Migration	Reference	Reports	Libraries & Examples	REST Interface	Support & Policies	1	
Product overview • Quickstart • Basic concepts		Register	for one of our <u>Google Ad</u>	Is API Migration Works	hops (October 5, 202	1 - October 14, 2021)	
Account management     Ad management		Home >	Products > Google Ads	: API			Was this helpful? 🗂 🖓
<ul> <li>Assets</li> <li>Authentication</li> </ul>		ΟΑι	uth2 in the	Google A	ds API 🛛		Send feedback
Cloud project Client library Service accounts		All Goog a user's	gle Ads API calls mus Google Ads account	t be authorized thro without having to h	ugh <mark>OAuth2</mark> . OAuth andle or store the u	2 enables your Google Ad ser's login info.	s API client app to access
Internals 2-step verification		The follo	owing steps must be	completed to autho	rize requests to the	Google Ads API.	
Billing     Campaign management		2. Co	onfigure a client librar	y for OAuth in the G	oogle Ads API		
Conversion management		Support	ting materials are also	o available for relate	d topics.		
<ul> <li>Extensions and feeds</li> <li>Planning service</li> </ul>		• Us	sing Service Accounts	3.			
<ul> <li>Reach forecasting</li> </ul>		• Ge	etting familiar with OA	Auth2 internals for th	ne Google Ads API.		
Remarketing & audience	targeting	• Us	sing the OAuth Playgr	ound to generate re	resh and access to	kens.	

Reporting

### Thanks for Listening

- We welcome your feedback at googleadsapi-support@google.com
- Check out the full Authentication & Authorization <u>playlist</u> for related content
- See more episodes on our <u>YouTube channel</u>

