



## Flask redirect with parameters

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OAuth 2.0 allows users to share specific data with an application while keeping their usernames, passwords, and other information private. For example, an application can use OAuth 2.0 to obtain permission from users to store files in their Google Drives. This OAuth 2.0 flow is specifically for user authorization. It is designed for application can access an API while the user interacts with the application or after the application. Web server applications frequently also use service accounts to authorize API requests, particularly when calling Cloud APIs to access project-based data rather than user-specific data. Web server applications can use service accounts in conjunction with user authorization. encourage you to use OAuth 2.0 libraries when interacting with Google's OAuth 2.0 endpoints. It is a best practice to use well-debugged code provided by others, and it will help you protect yourself and your users. For more information, see Client libraries to implement OAuth 2.0 authorization. To run the code samples, you must first install the client library for your language. When you use a Google API Client Library to handle on its own. For example, it determines when the application can use or refresh stored access tokens as well as when the application must reacquire consent. The client library also generates correct redirect URLs and helps to implement redirect handlers that exchange authorization codes for access tokens. Client libraries are available for the following languages: Go Java .NET Node.js PHP Python Ruby Prerequisites Enable APIs for your project: Open the API Console. If prompted, select a project, or create a new one. The API Library lists all available APIs, grouped by product family and popularity. If the API you want to enable isn't visible in the list, use search to find it, or click View All in the product family it belongs to. Select the API you want to enable, then click the Enable button. If prompted, read and accept the API you want to enable isn't visible in the list, use search to find it, or click View All in the product family it belongs to. Select the API you want to enable button. If prompted, read and accept the API you want to enable button. Google APIs must have authorization credentials that identify the application to Google's OAuth 2.0 server. The following steps explain how to create credentials to access APIs that you have enabled for that project. Go to the Credentials page. Click Create credentials > OAuth client ID. Select the Web application application type. Fill in the form and click Create. Applications that use languages and frameworks like PHP, Java, Python, Ruby, and .NET must specify authorized redirect URIs. The redirect URIs are the endpoints to which the OAuth 2.0 server can send responses. These endpoints must adhere to Google's validation rules. For testing, you can specify URIs that refer to the local machine, such as . With that in mind, please note that all of the examples in this document use as the redirect URI. We recommend that you design your app's auth endpoints so that your application does not expose authorization codes to other resources on the page. After creating your credentials, download the client secret.json file from the API Console. Securely store the file in a location that only your application can access. Important: Do not store the client secret.json file in a publicly-accessible location. In addition, if you share the source code to your application — for example, on GitHub — store the client secret.json file outside of your source tree to avoid inadvertently sharing your client credentials. Identify access that they grant to your application. Thus, there may be an inverse relationship between the number of scopes requested and the likelihood of obtaining user consent. Before you start implementing OAuth 2.0 authorization, we recommend that your application request access to authorization scopes via an incremental authorization process, in which your application requests access to user data in context. This best practice helps users to more easily understand why your application needs the access to certain user data, it must complete a verification process. If you see unverified apps and get answers to frequently asked questions about app verification in the Help Center. Language-specific requirements To run any of the code samples in this document, you'll need a Google account, access to the Internet, and a web browser. If you are using one of the API client libraries, also see the language-specific requirements below. To run the PHP code samples in this document, you'll need: PHP 5.4 or greater with the command-line interface (CLI) and JSON extension installed. The Composer dependency management tool. The Google APIs Client Library for PHP: php composer.phar require google/apiclient: 2.0 To run the Python 2.6 or greater The pip package management tool. The Google APIs Client Library for Python: pip install --upgrade google-api-python-client The google-auth-provide google-auth-outhlib google-auth-httplib2 for user authorization. pip install --upgrade google-auth-httplib2 The Flask Python web application framework. pip install --upgrade flask The requests HTTP library. pip install --upgrade requests To run the Ruby code samples in this document, you'll need Ruby 2.2.2 or greater The Google APIs Client Library for Ruby: gem install google-api-client The Sinatra Ruby web application framework. gem install sinatra You do not need to install any libraries to be able to directly call the OAuth 2.0 endpoints. The following steps show how your application interacts with Google's OAuth 2.0 server to obtain a user's consent to perform an API request on the user's behalf. Your application must have that consent before it can execute a Google API request that requires user authorization. The list below quickly summarizes these steps: Your application identifies the permissions it needs. requested permissions. The user decides whether to grant the permissions to your application retrieves tokens needed to make API requests on the user's behalf. Step 1: Set authorization parameters Your first step is to create the authorization request. That request sets parameters that identify your application and define the permissions that the user will be asked to grant to your application. If you use a Google client library for OAuth 2.0 authentication and authorization, you create and configure an object that defines these parameters. If you call the Google OAuth 2.0 endpoint directly, you'll generate a URL and set the parameters on that URL. The tabs below define the supported authorization parameters for web server applications. The language-specific examples also show how to use a client library or authorization library to configure an object that sets those parameters. The code snippet below creates a Google Client() object, which defines the parameters in the authorization request. That object uses information from your client secret.json file to identify your application is requesting permission to access and the URL to your application's auth endpoint, which will handle the response from Google's OAuth 2.0 server. Finally, the code sets the optional access\_type and include\_granted\_scopes parameters. For example, this code requests read-only, offline access to a user's Google Drive: \$client = new Google\_Client(); \$client->setAuthConfig('client\_secret.json'); \$client->addScope(Google Service\_Drive::DRIVE\_METADATA\_READONLY); \$client->setRedirectUri('http://' . \$ SERVER['HTTP\_HOST'] . '/oauth2callback.php'); // Using "consent" ensures that your application always receives a refresh token. // If you are not using offline access, you can omit this. \$client->setApprovalPrompt("consent"); \$client->setApprovalP the API Console Credentials page. In PHP, call the setAuthConfig function to load authorization credentials from a client\_secret.json file. \$client = new Google\_Client(); \$client->setAuthConfig('client\_secret.json'); redirect\_uri Required Determines where the API server redirects the user after the user completes the authorization flow. The value must exactly match one of the authorized redirect URIs for the OAuth 2.0 client, which you configured in your client's API Console Credentials page. If this value doesn't match an authorized redirect URI for the provided client\_id you will get a redirect URI for the provided client. To set this value in PHP, call the setRedirectUri function. Note that you must specify a valid redirect URI for the provided client id. \$client->setRedirectUri('); scope Required A space-delimited list of scopes that identify the resources that your application could access on the user's behalf. the user. Scopes enable your application to only request access to the resources that it needs while also enabling users to control the amount of access that they grant to your application. Thus, there is an inverse relationship between the number of scopes requested and the likelihood of obtaining users to control the amount of access that they grant to your application. addScope function: \$client->addScope(Google Service Drive::DRIVE METADATA READONLY); We recommend that your application request access to user data in context, via incremental authorization, you help users to more easily understand why your application needs the access it is requesting. access\_type Recommended Indicates whether your application can refresh access tokens when the user is not present at the browser. Valid parameter values are online, which is the default value, and offline. Set the value to offline if your application needs to refresh access tokens when the user is not present at the browser. This is the method of refreshing access tokens described later in this document. This value instructs the Google authorization server to return a refresh token and an access token the first time that your application exchanges an authorization code for tokens. To set this value in PHP, call the setAccessType function: \$client->setAccessType('offline'); state Recommended Specifies any string value that your application uses to maintain state between your authorization request and the authorization request and the authorization server's response. The server returns the exact value that you send as a name=value pair in the URL query component (?) of the redirect uri after the user consents to or denies your application's access request. You can use this parameter for several purposes, such as directing the user to the correct resource in your application, sending nonces, and mitigating cross-site request forgery. Since your redirect\_uri can be guessed, using a state value can increase your assurance that an incoming connection is the result of an authentication request. If you generate a random string or encode the hash of a cookie or another value that captures the client's state, you can validate the request forgery. See the OpenID Connection against attacks such as cross-site request forgery. documentation for an example of how to create and confirm a state token. To set this value in PHP, call the setState function: \$client->setState(\$sample passthrough value); include granted scopes optional Enables applications to use incremental authorization to request access to additional scopes in context. If you set this parameter's value to true and the authorization request is granted, then the new access token will also cover any scopes to which the user previously granted the application section for examples. To set this value in PHP, call the setIncludeGrantedScopes function: \$client->setIncludeGrantedScopes(true); prompt Optional A spacedelimited, case-sensitive list of prompts to present the user. If you don't specify this parameter, the user will be prompted only the first time your project requests access. See Prompting re-consent for more information. To set this value in PHP, call the setApprovalPrompt function: \$client->setApprovalPrompt('consent'); Possible values are: none Do not display any authentication or consent screens. Must not be specified with other values. consent Prompt the user to select an account. The following code snippet uses the google-auth-oauthlib.flow module to construct the authorization request. The code constructs a Flow object, which identifies your application using information from the client secret.json file that you downloaded after creating authorization credentials. That object also identifies the scopes that your application's auth endpoint, which will handle the response from Google's OAuth 2.0 server. Finally, the code sets the optional access\_type and include\_granted\_scopes parameters. For example, this code requests read-only, offline access to a user's Google\_auth\_oauthlib.flow # Use the client\_secret.json file to identify the application requesting # authorization. The client ID (from that file) and access scopes are required. flow = google\_auth\_oauthlib.flow.flow.from\_client\_secret.json', scopes=[']) # Indicate where the API server will redirect URIs for the oauthorization flow. The redirect URIs for the oauthorization flow. configured in the API Console. If this value doesn't match an authorized URI, # you will get a 'redirect\_uri\_mismatch' error. flow.redirect\_uri = ' # Generate URL for request to Google's OAuth 2.0 server. # Use kwargs to set optional request parameters. authorization\_url, state = flow.authorization\_url( # Enable offline access so that you can refresh an access token without # re-prompting the user for permission. Recommended for web server apps. access type='offline', # Enable incremental authorization. Recommended as a best practice. include granted scopes='true') The request specifies the following information: Parameters client id Required The client ID for your application. You can find this value in the API Console Credentials page. In Python, call the from\_client\_secrets\_file method, which passes the client ID from a client\_secrets\_file method, which passes the file itself.) flow = from\_client\_secrets\_file method, which passes the file itself.) google auth oauthlib.flow.Flow.from client secrets file( 'client secret.json', scopes=[']) redirect uri Required Determines where the API server redirects the user after the user completes the authorization flow. The value must exactly match one of the authorized redirect URIs for the OAuth 2.0 client, which you configured in your client's API Console Credentials page. If this value doesn't match an authorized redirect URI for the provided client id you will get a redirect uri mismatch error. Note that the http or https scheme, case, and trailing slash ('/') must all match. To set this value in Python, set the flow object's redirect uri property: flow.redirect uri = ' scope Required A list of scopes that identify the resources that your application could access on the user's behalf. These values inform the consent screen that Google displays to the user. Scopes enable your application. Thus, there is an inverse relationship between the number of scopes requested and the likelihood of obtaining user consent. In Python, use the same method you use to set the client\_id to specify the list of scopes. flow = google\_auth\_oauthlib.flow.Flow.from\_client\_secrets\_file( 'client\_secrets\_file( 'cl authorization scopes in context whenever possible. By requesting access to user data in context, via incremental authorization, you help users to more easily understand why your application can refresh access it is requesting. browser. Valid parameter values are online, which is the default value, and offline. Set the value to offline if your application needs to refreshing access tokens described later in this document. This value instructs the Google authorization server to return a refresh token and an access token the first time that your application exchanges an authorization code for tokens. In Python, set the access type as a keyword argument when calling the flow.authorization url method: authorization url, state = flow.authorization url( access type='offline', include granted scopes='true') state Recommended Specifies any string value that your application uses to maintain state between your authorization request and the authorization server's response. The server returns the exact value that you send as a name=value pair in the URL query component (?) of the redirect uri after the user consents to or denies your application's access request. You can use this parameter for several purposes, such as directing the user to the correct resource in your application, sending nonces, and mitigating cross-site request forgery. an authentication request. If you generate a random string or encode the hash of a cookie or another value that captures the client's state, you can validate the response to additionally ensure that the request forgery. See the OpenID Connection against attacks such as cross-site request forgery. documentation for an example of how to create and confirm a state token. In Python, set the state parameter by specifying state as a keyword argument when calling the flow.authorization url, state = flow.authorization url, include granted scopes Optional Enables applications to use incremental authorization to request access to additional scopes in context. If you set this parameter's value to true and the application access. See the incremental authorization section for examples. In Python, set the include granted scopes as a keyword argument when calling the flow.authorization url, state = flow.authorization url, state case-sensitive list of prompts to present the user. If you don't specify this parameter, the user will be prompted only the first time your project requests access. See Prompting re-consent for more information. In Python, set the prompt as a keyword argument when calling the flow.authorization url method: authorization\_url, state = flow.authorization\_url( access\_type='offline', prompt='consent', include\_granted\_scopes='true') Possible values are: none Do not display any authentication or consent screens. Must not be specified with other values. consent Prompt the user for consent. select\_account Prompt the user to select an account. Use the client\_secrets.json file that you created to configure a client object in your application. When you configure a client object, you specify the scopes your application's auth endpoint, which will handle the response from the OAuth 2.0 server. For example, this code requests read-only, offline access to a user's Google Drive: require 'google/apis/drive\_v2' require 'google/api\_client/client\_secrets' client\_secrets = Google::APIClient::ClientSecrets.load auth\_client = client\_secrets.load auth\_client\_secrets = Google::APIClient::ClientSecrets.load auth\_client = client\_secrets.load auth\_client\_secrets = Google::APIClient::ClientSecrets.load auth\_client = client\_secrets = Google::APIClient::ClientSecrets.load auth\_client = client\_secrets = Google::APIClient::ClientSecrets.load auth\_client.pdate!( :scope = > ', :redirect\_uri = > ' "true" # incremental auth }) Your application uses the client object to perform OAuth 2.0 operations, such as generating authorization requests. Google's OAuth 2.0 endpoint is at . This endpoint is at . This endpoint is accessible only over HTTPS. Plain HTTP connections are refused. The Google authorization server supports the following query string parameters for web server applications: Parameters client ID for your application. You can find this value in the API console Credentials page. redirect uri Required Determines where the API server redirects the user application. match one of the authorized redirect URIs for the Provided client\_id you will get a redirect\_uri\_mismatch error. Note that the http or https scheme, case, and trailing slash ('/') must all match. response\_type Required Determines whether the Google OAuth 2.0 endpoint returns an authorization code. Set the parameter value to code for web server applications. scope Required A space-delimited list of scopes that identify the resources that your application could access on the user's behalf. These values inform the consent screen that Google displays to the user. Scopes enable your application to only request access to the resources that it needs while also enabling users to control the amount of access that they grant to your application. Thus, there is an inverse relationship between the number of scopes requested and the likelihood of obtaining user consent. We recommend that your application request access to authorization, you help users to more easily understand why your application can refresh access tokens when the user is not present at the browser. Valid parameter values are online, which is the default value, and offline. Set the value to offline if your application needs to refresh access tokens when the user is not present at the browser. This is the method of refreshing access tokens when the user is not present at the browser. authorization server to return a refresh token and an access token the first time that your application server's response. The server returns the exact value that your application server's response. that you send as a name=value pair in the URL query component (?) of the redirect uri after the user consents to or denies your application's access request. You can use this parameter for several purposes, such as directing the user to the correct resource in your application, sending nonces, and mitigating cross-site request forgery. Since your redirect uri can be guessed, using a state value can increase your assurance that an incoming connection is the result of an authentication request. If you generate a random string or encode the hash of a cookie or another value that captures the client's state, you can validate the response to additionally ensure that the request and response originated in the same browser, providing protection against attacks such as cross-site request forgery. See the OpenID Connect documentation for an example of how to create and confirm a state token. include granted scopes of providing protection against attacks such as cross-site request forgery. this parameter's value to true and the authorization request is granted, then the new access token will also cover any scopes to which the user previously granted the application access. See the incremental authorization section for examples. parameter, the user will be prompted only the first time your project requests access. See Prompting re-consent for more information. Possible values are: none Do not display any authentication or consent screens. Must not be specified with other values. Redirect the user to Google's OAuth 2.0 server to initiate the authorization process. Typically, this occurs when your application first needs to access additional resources that it does not yet have permission to access. Generate a URL to request access from Google's OAuth 2.0 server: \$auth url = \$client->createAuthUrl(); Redirect the user to \$auth url: header('Location: '. filter var(\$auth url; header('Loc flask.redirect(authorization url) Generate a URL to request access from Google's OAuth 2.0 server: auth uri = auth client.authorization uri.to s Redirect the user to auth uri. An example URL is shown below, with line breaks and spaces for readability. scope=https%3A//www.googleapis.com/auth/drive.metadata.readonly& access type=offline& include granted scopes=true& response type=code& state=state parameter passthrough value& redirect the user to it. Google's OAuth 2.0 server authenticates the user and obtains consent from the user for your application to access the requested scopes. The response is sent back to your application using the redirect URL you specified. Step 3: Google prompts user for consent In this stage, Google displays a consent window that shows the name of your application and the Google API services that it is requesting permission to access with the user's authorization credentials and a summary of the scopes requested by your application or refuse the request. Your application doesn't need to do anything at this stage as it waits for the response from Google's OAuth 2.0 server indicating whether any access was granted. That response is explained in the following step. Requests to Google's OAuth 2.0 authorization flows. Common error codes and suggested resolutions are listed below. The Google Account is unable to authorize one or more scopes requested due to the policies of their Google Workspace administrator. See the Google Workspace data for more information about how an administrator may restrict access to all scopes or sensitive and restricted scopes until access is explicitly granted to your OAuth client ID. The authorization endpoint is displayed inside an embedded user-agent disallowed by Google's OAuth 2.0 Policies. Android libraries such as Google Sign-In for Android or OpenID Foundation's AppAuth for Android. Web developers may encounter this error when an Android app opens a general links to open in the default link handler of the operating system, which includes both Android App Links handlers or the default browser app. The Android Custom Tabs library is also a supported option. iOS and macOS developers may encounter this error when opening authorization requests in WKWebView. Developers should instead use iOS libraries such as Google Sign-In for iOS or OpenID Foundation's AppAuth for iOS. Web developers may encounter this error when an iOS or macOS app opens a general web link in an embedded user-agent and a user navigates to Google's OAuth 2.0 authorization endpoint from your site. Developers should allow general links to open in the default link handler of the operating system, which includes both Universal Links handlers or the default browser app. The SFSafariViewController library is also a supported option. The OAuth client ID in the request is part of a project limiting access to Google Accounts in a specific Google Cloud Organization. For more information about this configuration option see the User type section in the Setting up your OAuth consent screen help article. The redirect URIs in the Google API Console Credentials page. Step 4: Handle the OAuth 2.0 server response The OAuth 2.0 server responds to your application's access request by using the URL specified in the request, the response contains an authorization code. If the user approve the request, the response contains an authorization code or error message that is returned to the web server appears on the query string, as shown below: An error response: An authorization code in the URL. Scripts can read the URL directly, and the URL in the Referer HTTP header may be sent to any or all resources on the page. Carefully consider whether you want to send authorization credentials to all resources on that page (especially third-party scripts such as social plugins and analytics). To avoid this issue, we recommend that the server first handle the request, then redirect to another URL that doesn't include the response parameters. Sample OAuth 2.0 server response You can test this flow by clicking on the following sample URL, which requests read-only access to view metadata for files in your Google Drive: scope=https%3A//www.googleapis.com/auth/drive.metadata.readonly& access type=offline& include granted scopes=true& response type=code& state=state parameter passthrough value& redirect uri=https%3A//oauth2.example.com/code& client id=client id after completing the OAuth 2.0 flow, you should be redirected to which will likely yield a 404 NOT FOUND error unless your local machine serves a file at that address. The next step provides more detail about the information returned in the URI when the user is redirected back to your application. After the web server receives the authorization code for an access token, use the authorization code for an access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token = \$client->authenticate (\$GET['code']); You can retrieve the access token method: \$access token method: \$a >getAccessToken(); On your callback page, use the google-auth library to verify the authorization server response. Then, use the flow.fetch token method to exchange the authorization code in that response for an access token: state = flask.session['state'] flow = google auth oauthlib.flow.Flow.from client secrets file( 'client secret.json', scopes=['], state=state) flow.redirect uri = flask.url for('oauth2callback', external=True) authorization response = flask.request.url flow.fetch token(authorization response) # Store the credentials in the session. # ACTION ITEM for developers: # Store user's access and refresh tokens in your data store if # incorporating this code into your real app. credentials = flow.credentials.token uri; credentials.token, 'refresh token,' credentials.client id, 'client secret': credentials.client secret': credentials.client id,' client secret': credentials.client secret': credentials.client id,' client secret': credentials.client id,' client secret': credentials.client secret': credentials.client id,' client secret': credentials.client id,' client secret': credentials.client id,' client secret': credentials.client secret': credentials.client secret': credentials.client secret': credentials.client secret': credentials.client id,' client secret': credentials.client secret': credentials.clie fetch access token! method: auth client.code = auth code auth client.fetch access token! To exchange an authorization code for an access token, call the endpoint and set the following parameters: Fields client id The client secret obtained from the API Console Credentials page. code The authorization code returned from the initial request. grant type As defined in the OAuth 2.0 specification, this field's value must be set to authorization code. redirect URIs listed for your project in the API Console Credentials page for the given client id. The following snippet shows a sample request: POST /token HTTP/1.1 Host: oauth2.googleapis.com Content-Type: application/x-www-form-urlencoded code=4/P7q7W91a-oMsCeLvIaQm6bTrgtp7& client id=your client id=yo that contains a short-lived access token and a refresh token. Note that the refresh token is only returned if your application set the access type parameter to offline in the initial request to Google's authorization set the access token and a refresh token. Note that your application set the access token and a refresh token is only returned if your application set the access token and a refresh token. request. expires in The remaining lifetime of the access token in seconds. refresh token that you can use to obtain a new access token. Refresh tokens are valid until the user revokes access. Again, this field is only present in this response if you set the access token. scope The scopes of access granted by the access token expressed as a list of space-delimited, case-sensitive strings. token type of token returned. At this time, this field's value is always set to Bearer. Important: Your application should store both tokens in a secure, long-lived location that is accessible between different invocations of your application. The refresh token enables your application to obtain a new access token if the one that you have expires. As such, if your application can obtain a new refresh token. The following snippet shows a sample response: { "access token": "1/fFAGRNJru1FTz70BzhT3Zg", "expires in": 3920, "token type": "Bearer", "scope": ", "refresh token": "1//xEoDL4iW3cxlI7yDbSRFYNG01kVKM2C-259HOF2aQbI" } Note: Your application should ignore any unrecognized fields included in the response. Use the access token to call Google APIs by completing the following steps: If you need to apply an access token to a new Google Client object—for example, if you stored the access token in a user session—use the setAccessToken method: \$client->setAccessToken method: \$client->setAccessT want to call. For example, to call the Drive API: \$drive = new Google Service Drive(\$client); Make requests to the API service using the interface provided by the service object. For example, to list the files in the authenticated user's Google Drive: \$files = \$drive->files->listFiles(array())->getItems(); After obtaining an access token, your application can use that token to authorize API requests on behalf of a given user account or service account. Use the user-specific authorization credentials to build a service object for the API that you want to call. You build a service object by calling the googleapiclient.discovery library's build method with the name and version of the API and the user credentials: For example, to call version 2 of the Drive API: from googleapiclient.discovery import build drive = build('drive', 'v2', credentials=credentials) Make requests to the API service using the interface provided by the service object. For example, to list the files in the authenticated user's Google Drive: files = drive.files().list().execute() Use the auth client object to call Google APIs by completing the following steps: Build a service object for the API that you want to call. For example, to call version 2 of the Drive API: drive = Google::Apis::DriveV2::DriveService.new Set the credentials on the service: drive.authorization = auth client Make requests to the API service using the interface provided by the service using the inter files = drive.list\_files(options: { authorization: auth\_client }) After your application obtains an access token, you can use the token to make calls to a Google API on behalf of a given user account if the scope(s) of access required by the API have been granted. To do this, include the access token in a request to the API by including either an access token query parameter or an Authorization HTTP header Bearer value. When possible, the HTTP header is preferable, because query strings tend to be visible in server logs. In most cases you can use a client library to set up your calls to Google APIs and view their scopes at the OAuth 2.0 Playground. HTTP GET examples A call to the drive files endpoint (the Drive Files API) using the Authorization: Bearer HTTP header might look like the following. Note that you need to specify your own access token: GET /drive/v2/files HTTP/1.1 Host: www.googleapis.com Authorization: Bearer access token Here is a call to the same API for the authenticated user using the access token query string parameter: GET curl examples You can test these commands with the curl command-line application. Here's an example that uses the HTTP header option: Bearer access token "Or, alternatively, the query string parameter option: curl The following example prints a JSON-formatted list of files in a user's Google Drive after the user authenticates and gives consent for the application to access the user's Drive metadata. To run this example: In the API Console, add the URL of the local machine to the list of redirect URLs. For example, add . Create a new directory and change to it. For example: mkdir ~/php-oauth2-example cd ~/php-oauth2-example Install the Google API Client Library for PHP using Composer: composer require google/apiclient:^2.0 Create the files index.php and oauth2callback.php with the content below. Run the example cd ~/php-oauth2-example cd ~/php-oa use PHP's built-in test web server: php -S localhost:8080 ~/php-oauth2-example index.php

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