

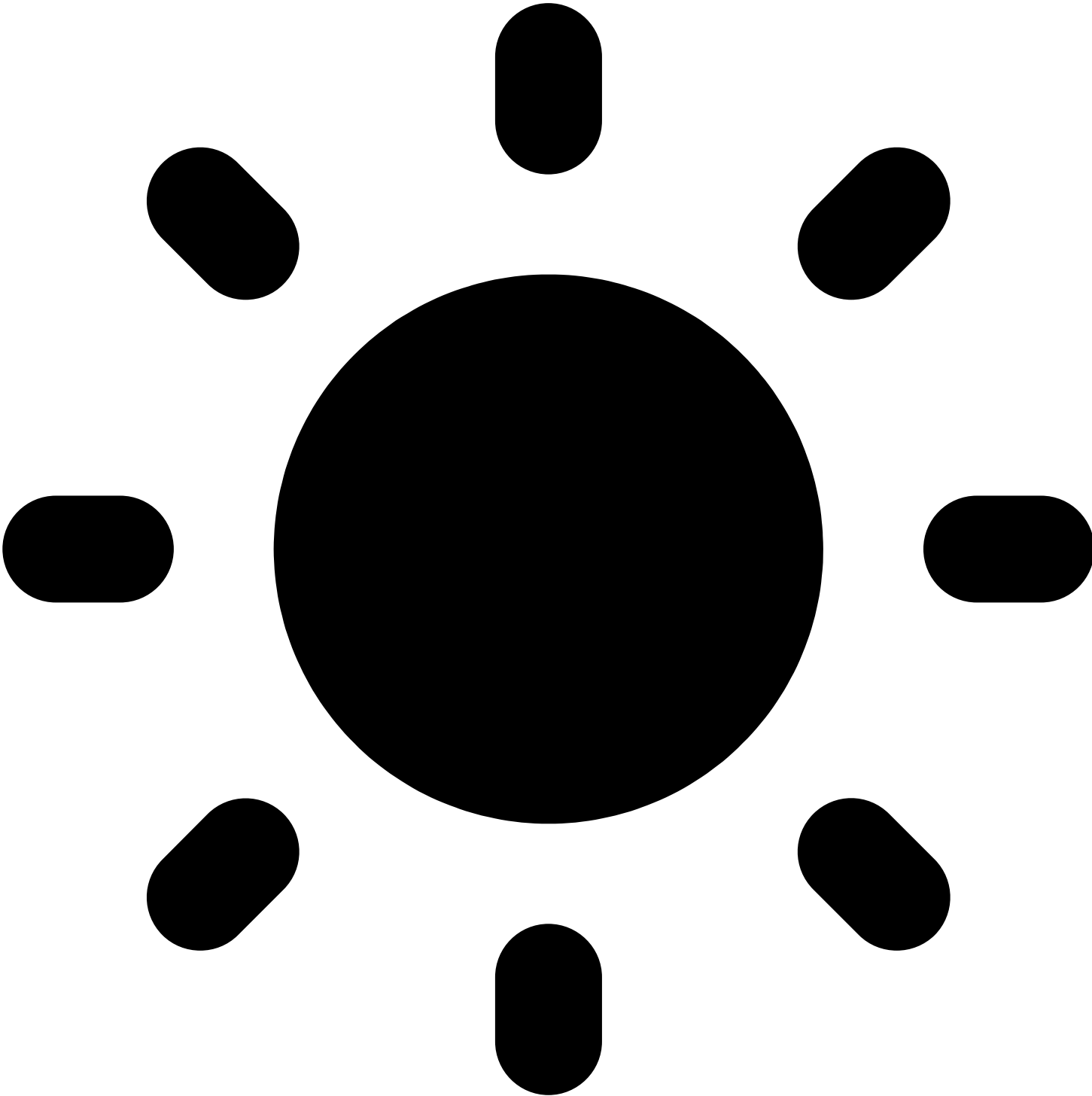
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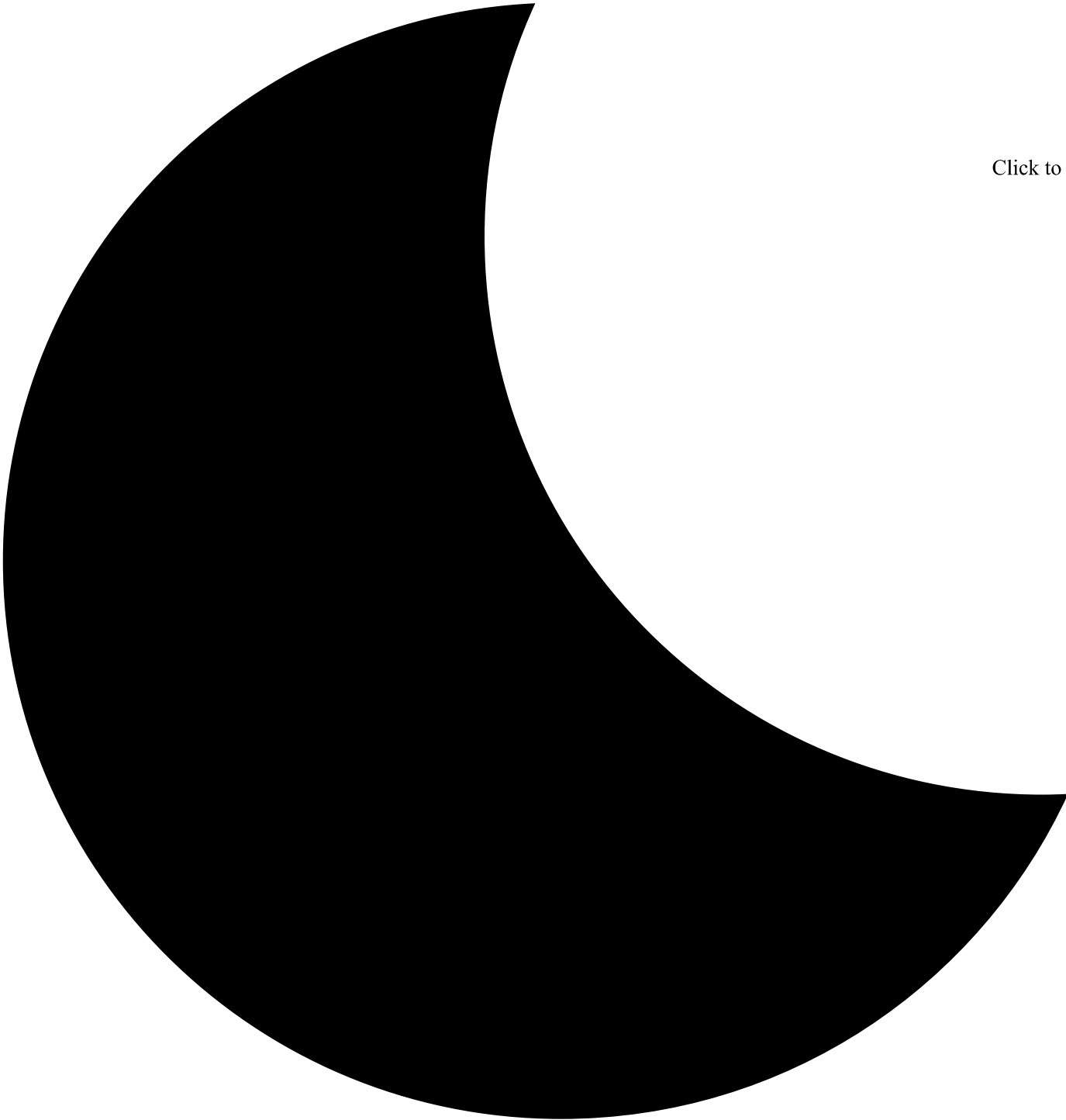
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OAuth

Zoho REST APIs uses the OAuth 2.0 protocol to authorize and authenticate calls. It provides secure access to protect resources thereby reducing the hassle of asking for a username and password everytime a user logs in. Follow the steps listed here, to access Zoho's APIs using OAuth 2.0

Note: The API URLs in this section should be modified, based on your domain.

Data Center	Domain	Base API URI
United States	.com	https://accounts.zoho.com/
Europe	.eu	https://accounts.zoho.eu/
India	.in	https://accounts.zoho.in/
Australia	.com.au	https://accounts.zoho.com.au/
Japan	.jp	https://accounts.zoho.jp/

You can read more about this [here](#).

Step 1: Registering New Client

You will have to first register your application with Zoho's Developer console in order get your Client ID and Client Secret.

To register your application, go to <https://accounts.zoho.com/developerconsole> and click on Add Client ID. Provide the required details to register your application.

On successful registration, you will be provided with a set of OAuth 2.0 credentials such as a Client ID and Client Secret that are known to both Zoho and your application. Do not share this credentials anywhere.

Step 2: Generating Grant Token

Redirect to the following authorization URL with the given params

<https://accounts.zoho.com/oauth/v2/auth?>

Parameter	Description
scope *	SCOPE for which the token to be generated. Multiple scopes can be given which has to be separated by commas. Ex : ZohoInvoice.fullaccess.all
client_id *	Client ID obtained during Client Registration
state	An opaque string that is round-tripped in the protocol; ie., whatever value given to this will be passed back to you.
response_type *	code
redirect_uri *	One of the redirect URI given in above step. This param should be same redirect url mentioned while registering the Client
access_type	The allowed values are offline and online. The online access_type gives your application only the access_token which is valid for one hour. The offline access_type will give the application an access_token as well as a refresh_token. By default it is taken as online
prompt	Prompts for user consent each time your app tries to access user credentials. Ex: Consent

Note: Fields with * are mandatory

On this request, you will be shown with a "user consent page".

Upon clicking “Accept”, Zoho will redirect to the given redirect_uri with code and state param. This code value is mandatory to get the access token in the next step and this code is valid for 60 seconds.

On clicking “Deny”, the server returns an error

Method 2

Follow the below steps to generate grant token from the Client ID:

1. Go to <https://accounts.zoho.com/developerconsole>
2. Click the Overflow icon and select Self Client from the options.
3. Enter the scope and set the expiry time.
4. Click **View Code** to generate the code.

Request Example

```
https://accounts.zoho.com/oauth/v2/auth?
scope=ZohoInvoice.invoices.CREATE,ZohoInvoice.invoices.READ,ZohoInvoice.invoices.UPDATE,ZohoInvoice.invoices.DELETE&
```

Step 3: Generate Access and Refresh Token

After getting code from the above step, make a POST request for the following URL with given params, to generate the access_token.

<https://accounts.zoho.com/oauth/v2/token?>

Parameter	Description
code*	code which is obtained in the above step
client_id*	Client ID obtained during Client Registration
client_secret*	Secret key obtained during Client Registration
redirect_uri*	This param should be same redirect url mentioned while adding Client
grant_type*	authorization_code

Note: Fields with * are mandatory

In the response, you will get both access_token and refresh_token.

1. The access_token will expire after a particular period (as given in expires_in param in the response).
2. The refresh_token is permanent and will be used to regenerate new access_token, if the current access token is expired.

Note: Each time a re-consent page is accepted, a new refresh token is generated. The maximum limit is 20 refresh tokens per user. If this limit is crossed, the first refresh token is automatically deleted to accommodate the latest one. This is done irrespective of whether the first refresh token is in use or not.

2.Step 1, 2 and 3 are one time processes that you need to follow when you are accessing Zoho's API for the first time. From the next time, you can jump to step 4 and use the refresh_token to generate a new access_token.

Request Example

```
https://accounts.zoho.com/oauth/v2/token?
code=1000.dd7e47321d48b8a7e312e3d6eb1a9bb8.b6c07ac766ec11da98bf6a261e24dca4&client_id=1000.0SRZSY37WMZ69405H3TMYI22
```

Step 4: Generate Access Token From Refresh Token

Access Tokens have limited validity. In most general cases the access tokens expire in one hour. Until then, the access token has unlimited usage. Once it expires, your app will have to use the refresh token to request for a new access token. Redirect to the following POST URL with the given params to get a new access token

<https://accounts.zoho.com/oauth/v2/token?>

Parameter	Description
refresh_token	REFRESH TOKEN which is obtained in the above step
client_id	Client ID obtained during Client Registration
client_secret	Secret key obtained during Client Registration
redirect_uri	This param should be same redirect url mentioned while registering Client
grant_type	refresh_token

Request Example

```
https://accounts.zoho.com/oauth/v2/token?
refresh_token=1000.8ecd474019e31d52d2f94aad6c5cb7.4638677ebc14f2f2ee0b6dfb6cebdc&client_id=1000.0SRSZSY37WMZ69405H3T
```

Step 5: Revoking a Refresh Token

To revoke a refresh token, call the following POST URL with the given params

<https://accounts.zoho.com/oauth/v2/token/revoke?>

Parameter	Description
token	REFRESH TOKEN which is to be revoked

Request Example

```
https://accounts.zoho.com/oauth/v2/token/revoke?
token=1000.8ecd474019e31d52d2f94aad6c5cb7.4638677ebc14f2f2ee0b6dfb6cebdc
```

Step 6: Calling An API

Access Token can be passed only in header and cannot be passed in the request param.

- Header name should be Authorization
- Header value should be Zoho-oauthtoken {access_token}

List of scopes available in Zoho Invoice :

Scope	Description
contacts	To access contacts related APIs Available types: ZohoInvoice.contacts.Create, ZohoInvoice.contacts.UPDATE, ZohoInvoice.contacts.READ, ZohoInvoice.contacts.DELETE

Scope	Description
settings	To access items, expense categories, users, taxes, currencies related APIs Available types: ZohoInvoice.settings.Create, ZohoInvoice.settings.UPDATE, ZohoInvoice.settings.READ, ZohoInvoice.settings.DELETE
estimates	To access estimates related APIs Available types: ZohoInvoice.estimates.Create, ZohoInvoice.estimates.UPDATE, ZohoInvoice.estimates.READ, ZohoInvoice.estimates.DELETE
invoices	To access invoices related APIs Available types: ZohoInvoice.invoices.Create, ZohoInvoice.invoices.UPDATE, ZohoInvoice.invoices.READ, ZohoInvoice.invoices.DELETE
customerpayments	To access customer payments related APIs Available types: ZohoInvoice.customerpayments.Create, ZohoInvoice.customerpayments.UPDATE, ZohoInvoice.customerpayments.READ, ZohoInvoice.customerpayments.DELETE
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