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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=1000.0SRSZSY37WMZ69405H3TMYI22
```

### 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=1000.8ecd474019e31d522f94aad6c5cb7.4638677ebc14f2f2ee0b6dfb6cebdc
```

### 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<br>Availabe 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<br>Availabe types: `ZohoInvoice.settings.Create`, `ZohoInvoice.settings.UPDATE`, `ZohoInvoice.settings.READ`, `ZohoInvoice.settings.DELETE` |
| estimates | To access estimates related APIs<br>Availabe types: `ZohoInvoice.estimates.Create`, `ZohoInvoice.estimates.UPDATE`, `ZohoInvoice.estimates.READ`, `ZohoInvoice.estimates.DELETE` |
| invoices | To access invoices related APIs<br>Availabe types: `ZohoInvoice.invoices.Create`, `ZohoInvoice.invoices.UPDATE`, `ZohoInvoice.invoices.READ`, `ZohoInvoice.invoices.DELETE` |
| customerpayments | To access customer payments related APIs<br>Availabe types: `ZohoInvoice.customerpayments.Create`, `ZohoInvoice.customerpayments.UPDATE`, `ZohoInvoice.customerpayments.READ`, `ZohoInvoice.customerpayments.DELETE` |
| creditnotes | To access credit notes related APIs<br>Availabe types: `ZohoInvoice.creditnotes.Create`, `ZohoInvoice.creditnotes.UPDATE`, `ZohoInvoice.creditnotes.READ`, `ZohoInvoice.creditnotes.DELETE` |
| projects | To access projects related APIs<br>Availabe types: `ZohoInvoice.projects.Create`, `ZohoInvoice.projects.UPDATE`, `ZohoInvoice.projects.READ`, `ZohoInvoice.projects.DELETE` |
| expenses | To access expenses related APIs<br>Availabe types: `ZohoInvoice.expenses.Create`, `ZohoInvoice.expenses.UPDATE`, `ZohoInvoice.expenses.READ`, `ZohoInvoice.expenses.DELETE` |