

Short OAuth 2.0 Reference

Authorization code grant

- **Authorization request:** redirect through the browser of the user.

- Request:

```
https://<server>/<path>?response_type=code&client_id=<client id>&redirect_uri=<redirect uri>&scope=<scope>&state=<state>
```

- Response:

```
https://<redirect-uri>?code=<code>&state=<state>
```

OR

```
https://<redirect-uri>?error=<error>&state=<state>&error_description=<error description>&error_uri=<error uri>
```

- **Access token request:** directly from the client application server to the authorization server

- Request: HTTP Post to the token url with form-encoded parameters

- `grant_type=authorization_code`
- `code=<authorization code>`
- `redirect_uri=<same redirect uri as in the authorization request>`
- `client_id=<client id of the client application>`
- `client_secret=<client secret of the client application>`

(Client id and client secret can also be passed via a HTTP Basic Authentication header.)

- Response: JSON object containing

- `access_token: <access token>`
- `token_type: bearer`
- `expires_in: <token lifetime>`
- `refresh_token: <refresh token>`

Implicit grant

- **Authorization request:** in a new browser window or an iframe.

- Request:

```
https://<server>/<path>?response_type=token&client_id=<client id>&redirect_uri=<redirect uri>&scope=<scope>&state=<state>
```

- Response:

```
https://<redirect-uri>#access_token=<access token>&token_type=bearer&expires_in=<token lifetime>&state=<state>
```

OR

```
https://<redirect-uri>#error=<error>&state=<state>&error_description=<error description>&error_uri=<error uri>
```