**Authorization URL:**

OAuth2 = Open + Authorization

**OAuth2 Roles:**

* Resource Owner
* Client/Client Application
* Resource Server
* Authorization Server (example : AWS cognito, open am server, keycloack server, Microsoft identity platform, Okta…etc)

**Client Types:**

Every client/client applications should register with authorization server first and will get

* **client\_id**
* **client\_sercret**

Sometimes these clients might not able to provide secret key as they can’t redirect to login screen.

So there are two types of clients

* confidential clients (with secret)
* public clients (without secret and no security)

**Note: Resource owner also should be registered with Authorization Server to authenticate first and Resource owner will be issued**

* **username**
* **password**

**Authorization Flows:**

It should be decided based on different types of applications and based on their type of client registered with authorization server.

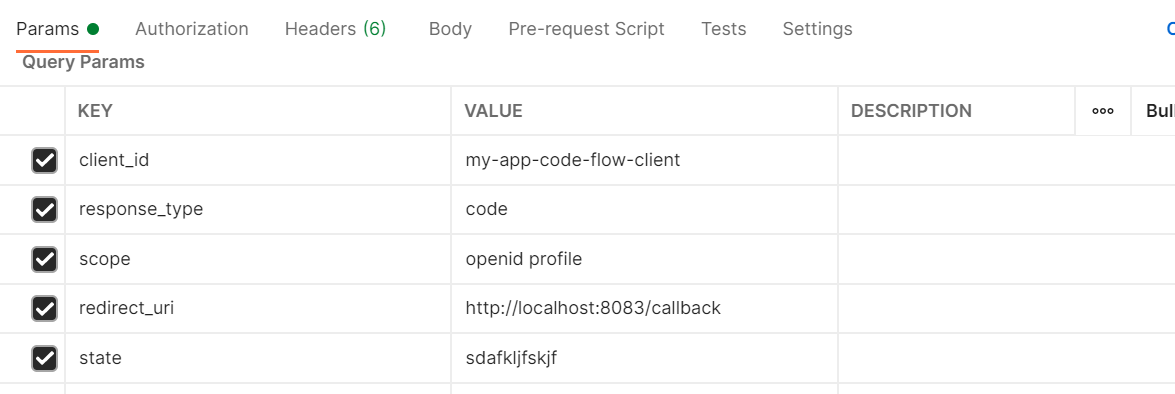
* **client\_credentials**

**Access Types:**

* Scope bases access
* Role based access

Auth URL : <http://localhost:8080/auth/realms/appsdeveloperblog/protocol/openid-connect/auth>

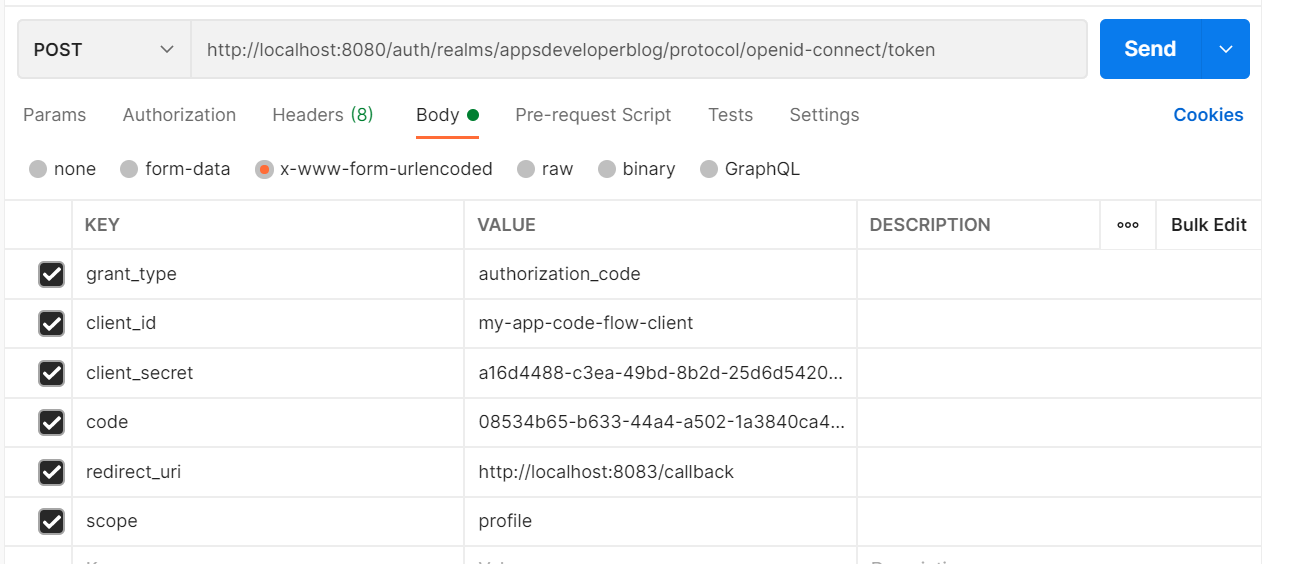
U need the following and it’s a GET request



U will get a code (authorization code here)

Token URL : <http://localhost:8080/auth/realms/appsdeveloperblog/protocol/openid-connect/token>

**u need the following in the POST request (in the body)**



**OutPut Looks like**

{

    "access\_token": "eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJyTmpBV1k4c1hYRk1tQTdjMHdVVE8wNDdEZUtaWUhEbmNYWlNiSjdLbnpjIn0..StRHpBvVIzGQYzLQvYjh4YNfXmAaVS1v1pRveEOv1eqWXS3qAEuwfZXAdlJ1PZIWkQ9fYi2iUCpWO6yydydpQAqKhXEoST6qtzPQUY4bfs7sKa8tNv-3Yg3XPOtb6oeBCEWAJvS6WMyg8bB\_\_nbe03ngd7-TXVDSnT5hgeyQbPiMFu-gczz7tIvc9m-Vgx3VDBt0KNE5tP9g5SFuySA-F1MrHEUfds-BnUFkAFta\_TbRxu6zDFnqPGlbA9FL7OMxGfyM5yG2omXtyn1NLRX4bTGUIe421Jj0Mwq3wEiAik3e9QzoLpW1Z7Jud4fmxiCDiLD-84e1HXOth62PtFk9iw",

    "expires\_in": 300,

    "refresh\_expires\_in": 1800,

    "refresh\_token": "eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJiODNiNGJiMC0zNzY1LTRjYmUtOTJhOS0wOThlNDNmYzgxOWIifQ..3nPF1boXpTZoJGEIUsS7HeqNvXgbjJoLqOvYtZvtjng",

    "token\_type": "Bearer",

    "id\_token": "eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJyTmpBV1k4c1hYRk1tQTdjMHdVVE8wNDdEZUtaWUhEbmNYWlNiSjdLbnpjIn0..YbbGjlNXP\_Uevc7x1SFSDdeEnZAT2gpWnux3T5LP-NASMKPK\_IndlQ0wJoWoZJ643yvEsW2QGXbSmrd328Rioxv6VeYYhxiUwFoKfseB8POhzHeHubbuYFWtbXj5wZEL5rMqJ1Ifi20oYSpaVWLvwJVp3JyiNR01Y4dc1ZGQ8A2wvO8U5p5-jMwvgKnvdPIvaiJZb87kp5wC\_Hu8FWgBwcvGLUgcmyHFPgYmBrCtIrh\_QsqMSIWBSn\_ZYYahxs2Yzd95VkmZtU3eRWbkwNeE0IJVaT1t5njJwPlpN9dEQfvIA\_K2AZft1sFlek5uwEOnSv1bFM5xuC\_ITeDIcgHWjA",

    "not-before-policy": 0,

    "session\_state": "3ccbe396-4ea8-4fc7-8073-00f6255225b3",

    "scope": "openid email profile"

}

{

    "access\_token": "eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJyTmpBV1k4c1hYRk1tQTdjMHdVVE8wNDdEZUtaWUhEbmNYWlNiSjdLbnpjIn0..fBkk20CfsEzoYaft3jvjgjSxWQfnWlXv96nHXLG5uO-vcYHC2aBOC-mtmdvsOy8Q4\_Re9AzFqNjw46WdVRKRoszHe-BtxLPalJKdfql4PVnvN\_WD77OIWZd7IyViFHQb4dSvFFdsz0QsKqb5hDHqPXXq8p5qQkYXhj7nWl-iphgtkBm4tDhRDN1ycBpR8zNLJ2t9T1d8rLCAKWcBOaYpArqxUhcoQHPmzAI4zDS6eHcaRuypQR-NF7xbu2rxx-YmRwvcrXyUFuOu\_nFh9JvPhqcXfkrfouaWZihevAQqsVqzWAD3wsdNirYR2OGzHUkDbqX8rudxJudrHi-qNZ\_fZA",

    "expires\_in": 299,

    "refresh\_expires\_in": 1799,

    "refresh\_token": "eyJhbGciOiJIUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJiODNiNGJiMC0zNzY1LTRjYmUtOTJhOS0wOThlNDNmYzgxOWIifQ..ieo4pOqHVmEsIyTwmUo3TY0HupUj8SA0vdaTDV96gW0",

    "token\_type": "Bearer",

    "id\_token": "eyJhbGciOiJSUzI1NiIsInR5cCIgOiAiSldUIiwia2lkIiA6ICJyTmpBV1k4c1hYRk1tQTdjMHdVVE8wNDdEZUtaWUhEbmNYWlNiSjdLbnpjIn0..aDgnn2e-wcskIha4ZtzLCKK-Id55cFbG8DGBk7Hp-sfhbhyB5\_G7Yi8xgiJb2wU0EmlVA5TMnCaBX1FtToDmkVwaHPOOxpScJ\_4j4ZJrWrKRKusOzhiIjA7pUZBElA5SslNnLyw44RisUD0alLVcc3BrxYJAFa2VZz1JOwoe5UqzH9FXLrdx-ESnJ3kHFxXtaOqTi9cDT2BmyT93NrhlD0AxpL331zJ6onCWa3srXlOuLJsopU3afKnb5QSCECd0aoTrXKS3Pvr6PTI4KYFxpDQvkQp8oycMr40ngI-0hIRpogY-lNCFNqCyc98DI8Cp0xDEcbaUAwhZ8r2\_Q7NZ-A",

    "not-before-policy": 0,

    "session\_state": "3ccbe396-4ea8-4fc7-8073-00f6255225b3",

    "scope": "openid email profile"

}