

POSTMAN Tabs

- 1) **Overview:** Information about the request.
- 2) **Query Params:** If you have the QP, then you can write it here.
- 3) **Authorization:** It means permission (Do you need any permission to access this API or not?).

Types of Auths are:

- a) **Cookie-Based:** Token (which is created by the POST REQUEST) - It is shared with you by another request.
- b) **No Auth:** The Simplest form of authentication, where no credentials are required.
- c) **Basic Auth:** Credentials, we need to access the API, you need a username and password in base64 encoding.

Example: Username: admin, Password: password123 by the base64(decode)
YWRtaW46cGFzc3dvcmQxMjM=]

Limitations of Basic Auth:

It is not very secure (E.g. PUT Request - Restful Booker)

- i) **First Option:** Add them via the Authorization Tab - Basic Auth and enter your Username and password
 - ii) **Second Option:** Headers -> Add Authorization as "Key" and Basic YWRtaW46cGFzc3dvcmQxMjM=] as "Value"
- d) **Digest Auth:**
- Digest Authentication is more secure than Basic Auth.
 - Having strong encryption like SHA256, MD5.
 - Username and Password are in encrypted form as a Unique Key.

Example:

pramod -> bb16fa6160fa1d8a73eba6217844a08b

e) **Bearer Token:**

- It has no information, a random string.

Example:

```
eyJzdWliOiIxMjM0NTY3ODkwIiwiaWF0IjoxNTE2MjM5MDIyfQ.SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV_adQssw5c.
```

- It is in the form of a Unique Key, which is created to access the APIs.
 1. Get this Token from Dev, PM, API documentation, or you can also get it via another API.
 2. Expiry - It depends on the Dev?

f) **JWT Bearer (JSON Web Token):**

- It has some information, like a Unique Token

Example:

```
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWliOiIxMjM0NTY3ODkwIiwiaWF0IjoxNTE2MjM5MDIyfQ.SflKxwRJSMeKKF2QT4fwpMeJf36POk6yJV_adQssw5c
```

```
{
  "sub": "1234567890",
  "name": "John Doe",
  "iat": 1516239022
}
```

g) **OAuth 1.0 and OAuth 2.0:** Token -> Imgur APIs example. (LIVE Project)

4) **Headers:** It is a Key and Value pair that you can send.

Example:

- content-type: application/json
- Authorization, Basic, Digest, Token, Cookie, etc

5) **Body:** It is the Payload of the API

- none - It is Nothing (Just Blank)
- form-data (HTML, Key and Value pair that you want to send to the Server)
- raw - Text, JavaScript, JSON, HTML, XML
- binary - Send file like pdf, jpg, jpeg, png, docx, etc
- GraphQL - Query language. To ask the API, give me this

6) **Scripts**

- Pre Script - Before making the request, you can execute a JS Code
- Post Script - After making the request, you can execute a JS Code

