

Client ID - EJoOCCyzvCHJ9xnQBV5fC1aUZbYa

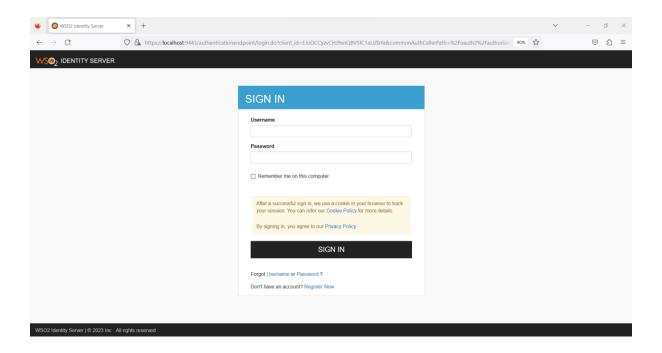
Client Secret - 4p1_ck8MsUAk0WTZxo6BJBbWMJEa

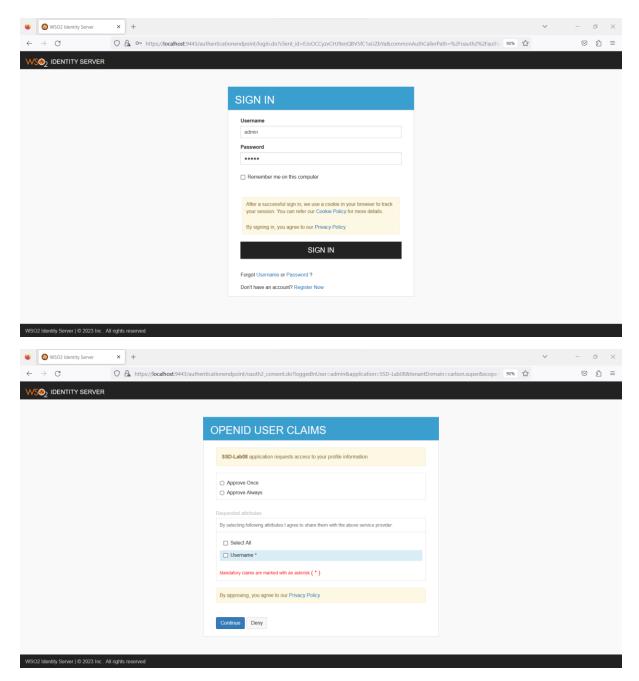
Redirect URL - https://localhost:8080/callback

2)

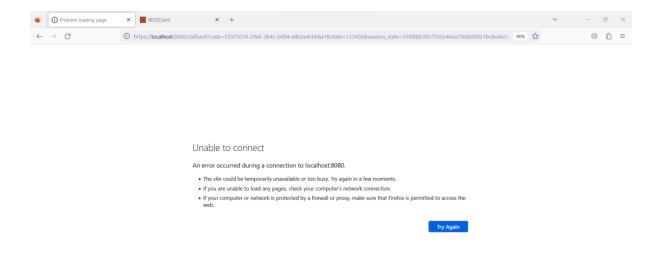
Request to get the access token -

 $\frac{\text{https://localhost:9443/oauth2/authorize?response_type=code\&client_id=EJoOCCyzvCHJ9xnQBV5fC}{1aUZbYa\&scope=openid\&state=123456\&redirect_uri=https%3A%2F%2Flocalhost%3A8080%2Fcallback}$





Response - https://localhost:8080/callback?code=55975018-29e6-3b4c-b094-e8b5e4cbb6a1&state=123456&session_state=356f8bb3927505b46ea7006bf9021bc8ea6d80b78811 317b88f6222072e305c6.-u3 BdAfaRlciM9VlxMvyw



Request to get the Open ID token -

POST request - https://localhost:9443/oauth2/token

Headers -

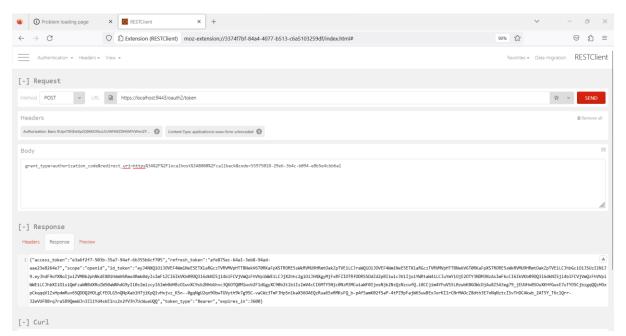
Authorization -> Basic

RUpvT0NDeXp2Q0hKOXhuUUJWNWZDMWFVWmJZYTo0cDFfY2s4TXNVQWswV1RaeG82QkpCYldNS kVh

Content-Type -> application/x-www-form-urlencoded

Body -

 $grant_type=authorization_code\&redirect_uri=https\%3A\%2F\%2Flocalhost\%3A8080\%2Fcallback\&code=55975018-29e6-3b4c-b094-e8b5e4cbb6a1$



Response -

{"access_token":"e3a6f2f7-503b-35a7-94af-6b355b6cf705","refresh_token":"afe875ec-64a1-3eb8-94ad-

aae23e8264e7","scope":"openid","id_token":"eyJ4NXQiOiJOVEF4Wm1NeE5ETXlaRGczTVRVMVpHTT BNekV6T0RKaFpXSTRORE5sWkRVMU9HRmtOakZpTVEiLCJraWQiOiJOVEF4Wm1NeE5ETXlaRGczTVRV MVpHTTBNekV6T0RKaFpXSTRORE5sWkRVMU9HRmtOakZpTVEiLCJhbGciOiJSUzl1NiJ9.eyJhdF9oYXNo IjoiZVM0b2phNkdEX01HdmV6Rmx4Rmk0dyIsImF1ZCI6IkVKb09DQ3I6dkNISjl4bIFCVjVmQzFhVVpiW WEiLCJjX2hhc2giOiJhNXgyMjFxRFZIOTRfODRSSDdZd2pBliwic3ViljoiYWRtaW4iLCJuYmYiOjE2OTY3ND M3NzAsImF6cCI6IkVKb09DQ3I6dkNISjl4bIFCVjVmQzFhVVpiWWEiLCJhbXliOlsiQmFzaWNBdXRoZW50 aWNhdG9yIl0sImIzcyI6Imh0dHBzOlwvXC9sb2NhbGhvc3Q6OTQ0M1wvb2F1dGgyXC90b2tlbiIsImV4c CI6MTY5Njc0NzM3MCwiaWF0IjoxNjk2NzQzNzcwfQ.i8CCjim4YFwVS5L0zwbK0GOWcDjAu8Z5A3eg79 _jEUUHx0SOuXKHfGwsE7uTYO5CjbzgqQQzHOxpCkqqqVlZxHpdmRuv6SQDOQ2HOLgCfEOLG5nQNpX ablH7jiKpQ1vHxjvz_KSn--0gqNgU2qn9ObwTGVyth9k7g9SC-

vaCWz3TmFJHpSn1kaX56OAEQzRua6SxRMKsFQ_b-pAf5amK02fSaP-

4tPZ9pFajW65uwBExJorKl1rCNrMAOcZ8dth3E7xNqNztclSvThDCAkwb_2AT5Y_T6clQrr-32eVUFB8rq7raSB9QmeWJn3Zl1Yd4skE1nz2n2fV3h7UcWueUQQ","token_type":"Bearer","expires_i n":3600}

3)

Encoded DASTE A TOKEN HEDE

evJ4NXOiOiJOVEF4Wm1NeE5ETXlaRGczTVRVMVp HTTBNekV6T0RKaFpXSTRORE5sWkRVMU9HRmtOak ZpTVEiLCJraWQi0iJ0VEF4Wm1NeE5ETXlaRGczT VRVMVpHTTBNekV6T0RKaFpXSTR0RE5sWkRVMU9H RmtOakZpTVEiLCJhbGciOiJSUzI1NiJ9.evJhdF 9oYXNoIjoiZVM0b2phNkdEX01HdmV6Rmx4Rmk0d yIsImF1ZCI6IkVKb09DQ316dkNISj14b1FCVjVm QzFhVVpiWWEiLCJjX2hhc2gi0iJhNXgyMjFxRFZ IOTRfODRSSDdZd2pBIiwic3ViIjoiYWRtaW4iLC JuYmYiOjE2OTY3NDM3NzAsImF6cCI6IkVKb09DQ 316dkNISj14b1FCVjVmQzFhVVpiWWEiLCJhbXIi OlsiQmFzaWNBdXRoZW50aWNhdG9vIl0sImlzcvI 6Imh0dHBz0lwvXC9sb2NhbGhvc3060T00M1wvb2 F1dGgyXC90b2tlbiIsImV4cCI6MTY5Njc0NzM3M CwiaWF0IjoxNjk2NzQzNzcwfQ.i8CCjim4YFwVS 5L0zwbK0G0WcDjAu8Z5A3eg79_jEUUHx0S0uXKH fGwsE7uTYO5CjbzgqQQzHOxpCkqqqVlZxHpdmRu v6SQD0Q2H0LgCfE0LG5nQNpXablH7jiKpQ1vHxj vz_KSn--0gqNgU2qn90bwTGVyth9k7q9SCvaCWz3TmFJHpSn1kaX560AEQzRua6SxRMKsFQ_b -pAf5amK02fSaP-4tPZ9pFajW65uwBExJorKI1rCNrMAOcZ8dth3E7 xNqNztcISvThDCAkwb_2AT5Y_T6clQrr-32eVUFB8rq7raSB9QmeWJn3Zl1Yd4skE1nz2n2f V3h7UcWueUQQ

Decoded EDIT THE PAYLOAD AND SECRET

```
HEADER: ALGORITHM & TOKEN TYPE
 "NTAxZmMxNDMyZDg3MTU1ZGM0MzEzODJhZWI4NDN1ZDU1OGFkNjFiMQ
 "NTAxZmMxNDMvZDa3MTU1ZGM0MzEzODJhZWI4NDN1ZDU1OGFkNiFiMO
    "alg": "RS256"
PAYLOAD: DATA
              : "eS4oja6GD_MGvezFlxFi4w
           "EJo0CCyzvCHJ9xnQBV5fC1aUZbYa
               "a5x221qDVH94_84RH7YwjA
    "c_hasn": מסגבניק
"sub": "admin",
"nbf": 1696743770,
    "azp": "EJo0CCyzvCHJ9xnQBV5fC1aUZbYa"
    "iss": "https://localhost:9443/oauth2/token"
"exp": 1696747370,
    "ist": 1696743770
RSASHA256(
   base64UrlEncode(header) +
   Public Key in SPKI, PKCS #1
   X.509 Certificate, or JWK stri
   ng format.
   Private Key in PKCS #8. PKCS #
   1, or JWK string format. The k
   ey never leaves your browser.
```

OpenID tokens consist of 3 segments separated by two dots.

- 1) Header Declaring the type as JWT, Hash or keyed hash algorithm
- 2) Payload useful user-specific information (issuer, subject, expiry date etc)
- 3) Signature- encoded header and payload separated by a dot and encrypted with a hash algorithm afterwards

As shown in above figure, x5t is the signature of the entire id token. When auth server has to deal with multiple id tokens, this x5t attribute is used to uniquely identify and search for each token. Algorithm is mentioned as RS256 which is asymmetric encryption. In the payload subject is the admin, because wso2 admin login was used for getting the token and the issuer is the token endpoint of the identity server. Signature is also available in an encrypted format.