OSDU Data Platform
Application Developer Training

Authorization
Authorization in the OSDU Data Platform

Identity Provider

Authorization endpoint

Token endpoint

User

User ID, Password

Id_token, authorization_code

Authorization request

Response

Client

id_token, authorization_code

access_token

Response

OSDU Data Platform

Entitlements Service

Service
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Service
- access_token

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access_token

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Entitlements Service

Service

access_token, refresh_token

authorization_code

authorization_code

User ID, Password

id_token, authorization_code

Authorization request

Response

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service

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Service

Response

access_token

Token endpoint

Authorization endpoint

Endpoint

Authorization

Response

Token

id_token, authorization_code

access_token, refresh_token
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Authorization endpoint
Token endpoint

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JWT

Encoded

Decoded

```
1dCI6l5Pb2NaHRJPrFhS5FqS1d0WHNsSFsJF51S
hFZySsI timpZCI6l5Pb2NaHRJPrFhS5FqS1d0WHNsSFSF1hFZySsJ
eyJhJw1001IiYjM01T1l1S020TIW1lTR1m2IYjAaN10SN1zGUW3yzJEMZu11C
Jpc3Mi0i0jDHRwczv0l3N9cy3a5kbb3zLmn3Ld
C02M12MDc3YyYy5QxL7QzW11qG5Nv3y1m0W0Qz
MTUyZDhjYzQ1Mw1aAWF110xN111M0Qy0Tm51C
uYmY10JE2MjYnNDI5MzAsImV4cCI6M7Ty0NT1Nj
gzMCW1yWMvIjoiM1SIsImFpbyIi5G1kFVUVuLZ1hUQ
UFBoXVvNzaMxG7Q2NVV2Q5Y10cmZUYl1jEc11P
R3Rk587YRkGZ3M1O3JWcTdzS8JLaG5S71jzzV
GSXN1tTVwbnBScjc5ODArVFVvMx5wVDUd2ZYcY
FBPT0l1CLhbx110lsicHdkil80sImFwG5lJ0cIN
G1z0DkYnUtJnkycM09Yz11LW111duN1RTmyYTVj
M21xNTM11iw1YXwaWRv3110ix1iwi211whaWw
101JSW311Zv191cb3jZdIvG9cG5vW0uW2911
wi21m7f4w3x5h1w1101JWb2g4omyc3110c11i
mdpdmV4x5h1w1101JSW311iw11N1110iMH10H8B
chM6S1y2zHMm2D1zU2G3cy5zXZVxy7y10yjyc2ZA
tNGU5210y12LThnNjktZjkkOMYzNjdjOTFklv
```

```
{  
  "typ": "JWT",  
  "alg": "RS256",  
  "sub": "no3ZDrCDEE1tjXMrXsL8R_X0E5",  
  "kid": "no3ZDrCDEE1tjXMrXsL8R_X0E5"  
}
```

```
{  
  "auh": "https://static.windows.net/5166877c/2301-43web-e977-f9d31528cc4/",  
  "iat": 1623242938,  
  "nbf": 1623242938,  
  "exp": 1623245680,  
  "acr": "1",  
  "sid": "tA4kxw/73A44Awmg31L7CcUxWJKP4wFrWhaPl0G5oxWM0G9s5CrVq
7q0BHRfRQ2ogSF1651tVpJsB78r05U21FpPZT7yFX9aA",  
  "wet": "pwd",  
  "appid": "t",  
  "appidr": "t",  
  "email": ""  
}
```
Authorization

Before authorization, you should register your application with the Identity Provider.

» Redirect URL, e.g.: http://localhost:8080/auth/callback

« Client ID: <get from the cloud administrator>

« Client Secret: <get from the cloud administrator>
Authorization Request

- **Client ID**: to authenticate the client in the authorization server
- **Redirect URL**: endpoint to redirect the user after sign-in
- **Response type**: typically, "code"
- **Scopes**: list of permissions required for the client, e.g. ['openid', 'profile', 'email', 'offline_access']
Thank you!