

## OAuth 2.0





## Recap

OAuth 2.0 enable api clients parties to access protected resources in a domain with limited permissions



### Recap - Authorization Server Endpoints

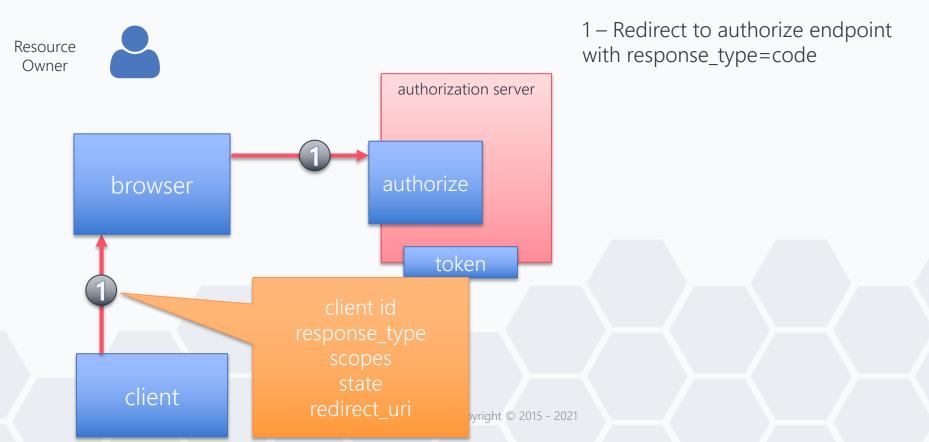
- Authorization
  - Allow the resource owner interact with the authorization server in order to grant permissions to client
- Token
  - Used by the client to retrieve access tokens using grants from authorization or refresh tokens



## Recap

Authorization code is one of the grant types that can be used by clients and AS



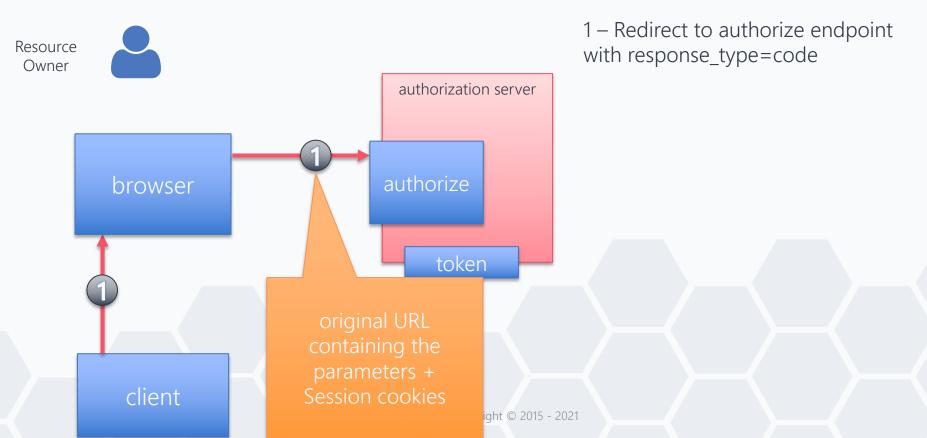




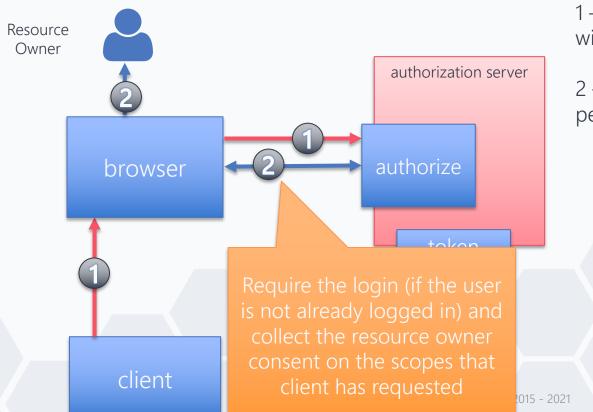
## Client redirect\_uri endpoint

- Client can redirect full page, use iframe, use popups
  - The OAuth specification does not restrict
- The AS response will be a GET request to redirect\_uri endpoint of client with the authorization code
- The client might have more than one redirect uri endpoint
  - e.g. one redirect for mobile and another for web flow



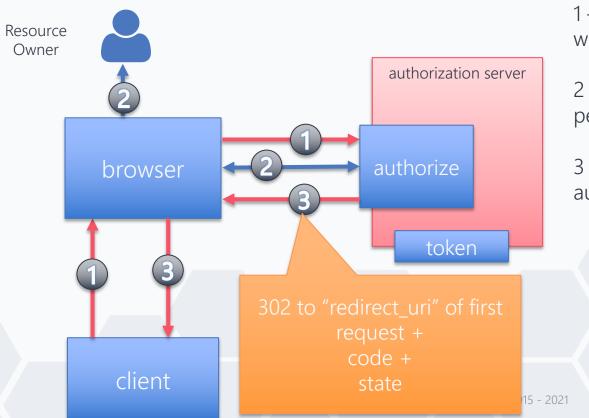






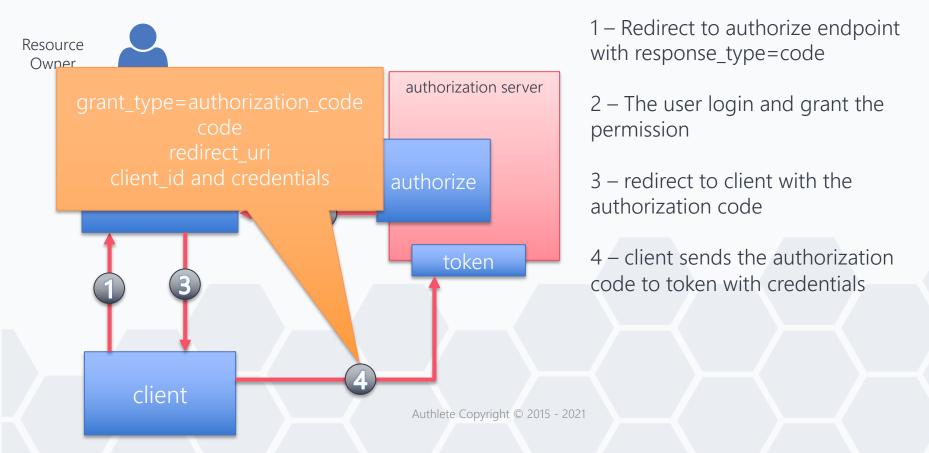
- 1 Redirect to authorize endpoint with response\_type=code
- 2 The user login and grant the permission



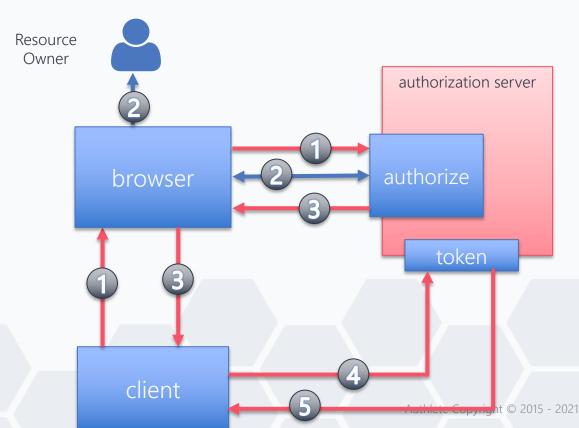


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- 1 Redirect to authorize endpoint with response\_type=code
- 2 The user login and grant the permission
- 3 redirect to client with the authorization code
- 4 client send the authorization code to token with credentials
- 5 AS returns the access token, refresh token, granted scopes and time to live of the token



## KEY POINTS



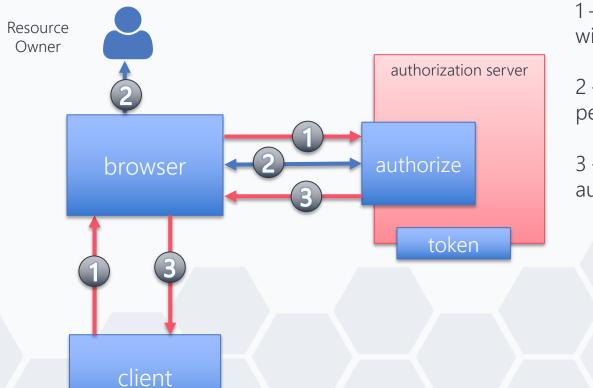
#### Authorization code

Suitable to every scenario



It relies on user's agent to move the request parameters and authorization code between client and authorization server





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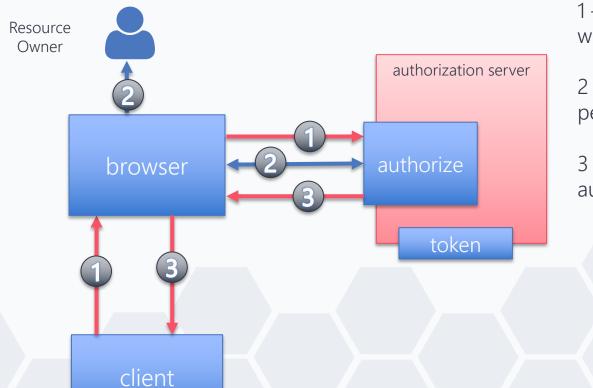
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#### Authorization code

# Clear segregation between authentication and authorization





- 1 Redirect to authorize endpoint with response\_type=code
- 2 The user login and grant the permission
- 3 redirect to client with the authorization code

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#### Authentication x Authorization

OAuth 2.0 authorization does not preclude what you already have in house for authentication



## Authlete approach

Build OAuth and OpenID Connect capabilities on top of existing infrastructure



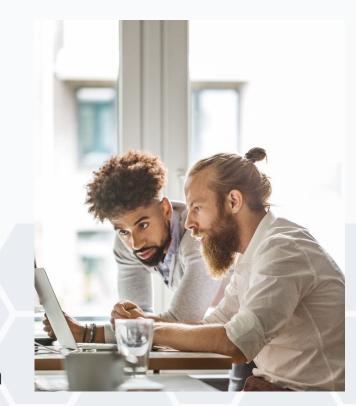
## The Rise of In-house Software Development

"We develop all our technology in-house – and that is one of our competitive advantages."

- Nubank, the largest digital bank globally

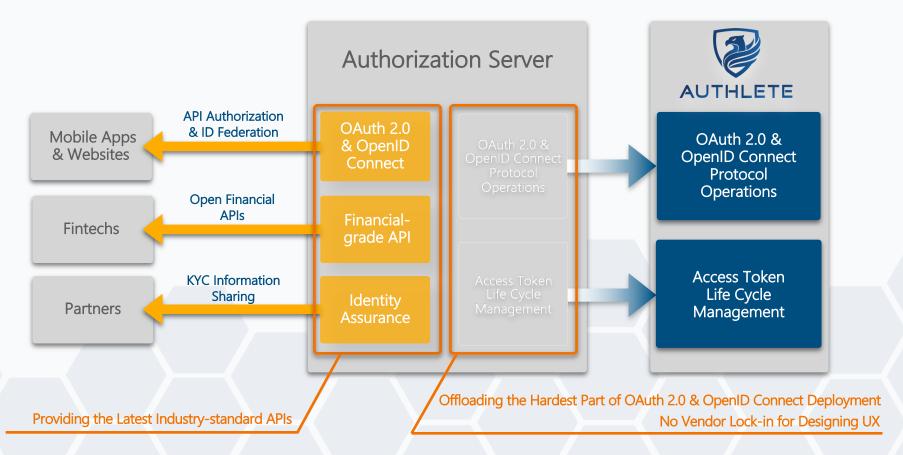
"I've never heard of DX being left up to vendors. **In-house** software development is a global trend."

- Minna Bank, cloud native digital bank in Japan





#### **Authlete: Your Authorization Server Backend**





www.authlete.com

