

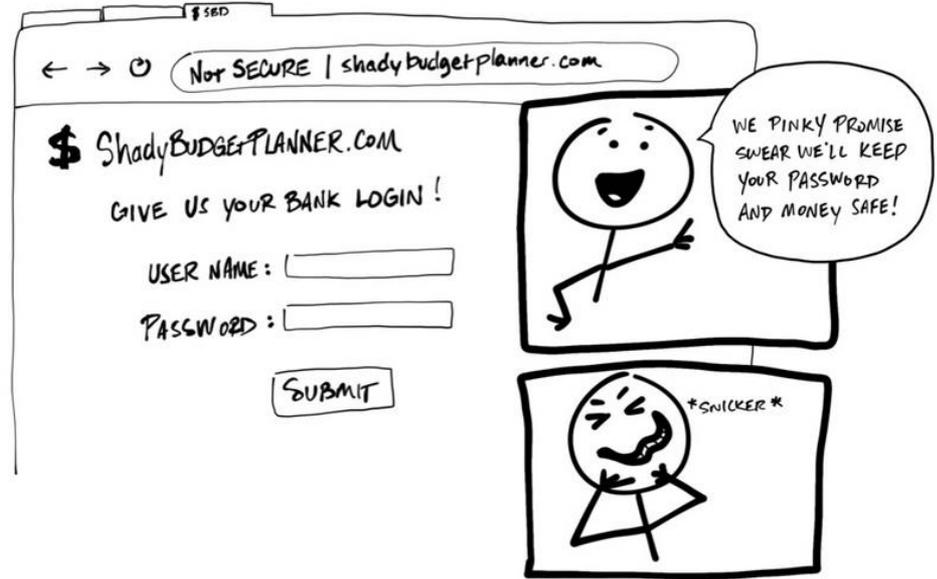
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01.03.2022

Big Data Management und Analytics in datenzentrischen Wissenschaften
Dozent: Prof. Dr. Patrick Fuhrmann
WiSe 2021-22

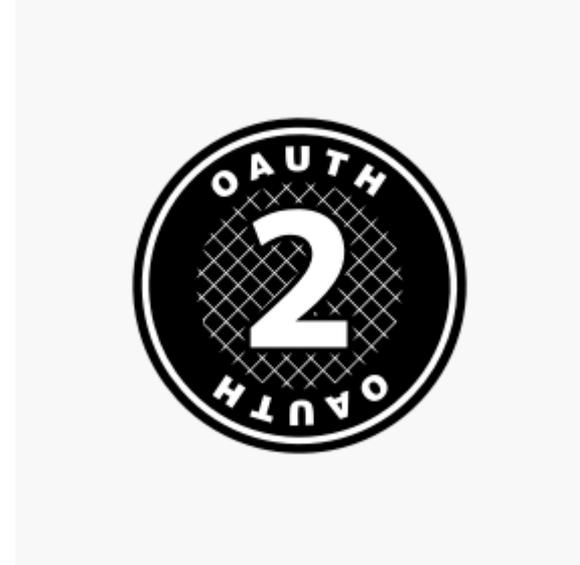
AGENDA

- OAuth 2.0
- What is OpenID Connect?
- Relation between OAuth 2.0 and OpenID Connect
- How does the authentication flow work?
- Conclusion



What is OAuth 2.0?

- Authorisation protocol design to verify the identity
- Example: LinkedIn contact





SIGN UP WITH FACEBOOK

or

Sign up with your email address

Email

Confirm email

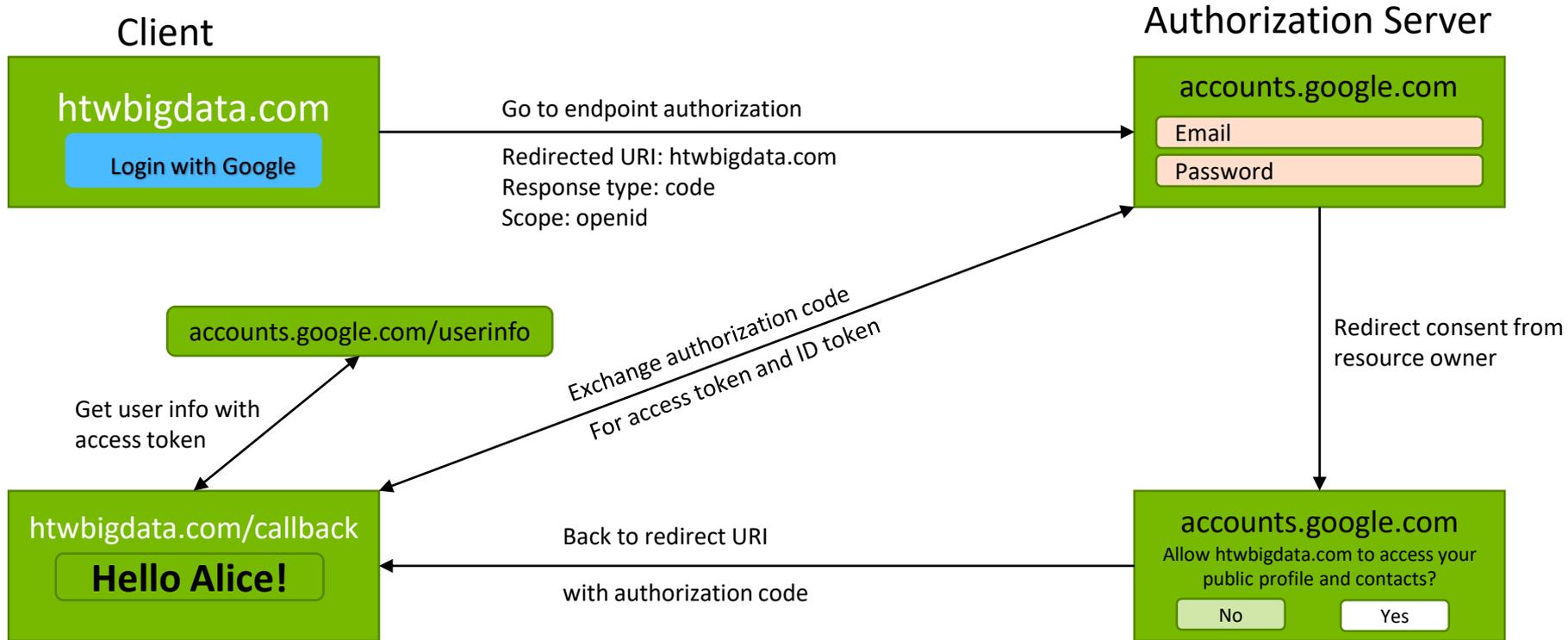
Password

What should we call you?

OAuth 2.0 and OpenID Connect



OpenID Connect Authentication Flow



Authentication request

HTTP/1.1 302 Found

Location: [https://openid.c2id.com/login?
response_type=code
&scope=openid
&client_id=s6BhdRkqt3
&state=af0ifjsldkj
&redirect_uri=https%3A%2F%2Fclient.example.org%2Fcb](https://openid.c2id.com/login?response_type=code&scope=openid&client_id=s6BhdRkqt3&state=af0ifjsldkj&redirect_uri=https%3A%2F%2Fclient.example.org%2Fcb)

ID token

```
{  
  "sub" : "alice",  
  "iss" : "https://openid.c2id.com",  
  "aud" : "client-12345",  
  "nonce" : "n-0S6_WzA2Mj",  
  "auth_time" : 1311280969,  
  "acr" : "c2id.loa.hisec",  
  "iat" : 1311280970,  
  "exp" : 1311281970  
}
```

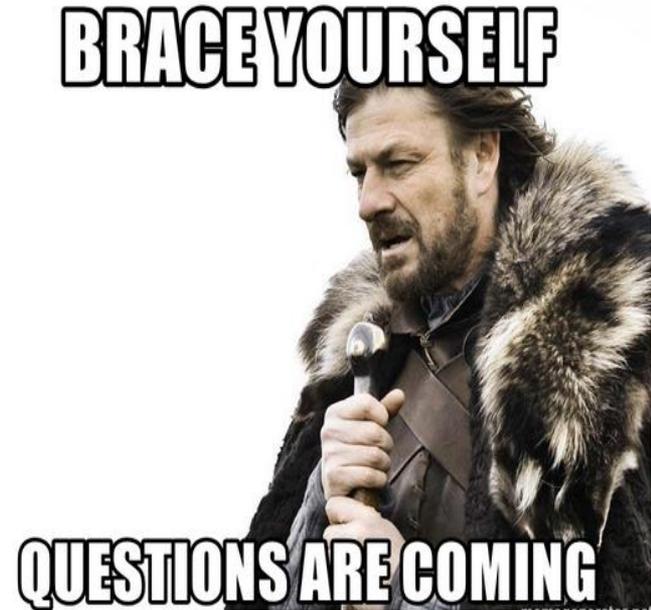
Summary

- Identity layer on the top of OAuth 2.0
- Easy to implemented with a simple http request
- Minimize password security risks
- Secure connection

Thank you!

References:

- <https://openid.net/add-openid/logos/>
- <https://openid.net/connect/>
- <https://connect2id.com/learn/openid-connect>
- <https://oauth.net/2/>
- <https://www.spotify.com/is-en/signup>





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