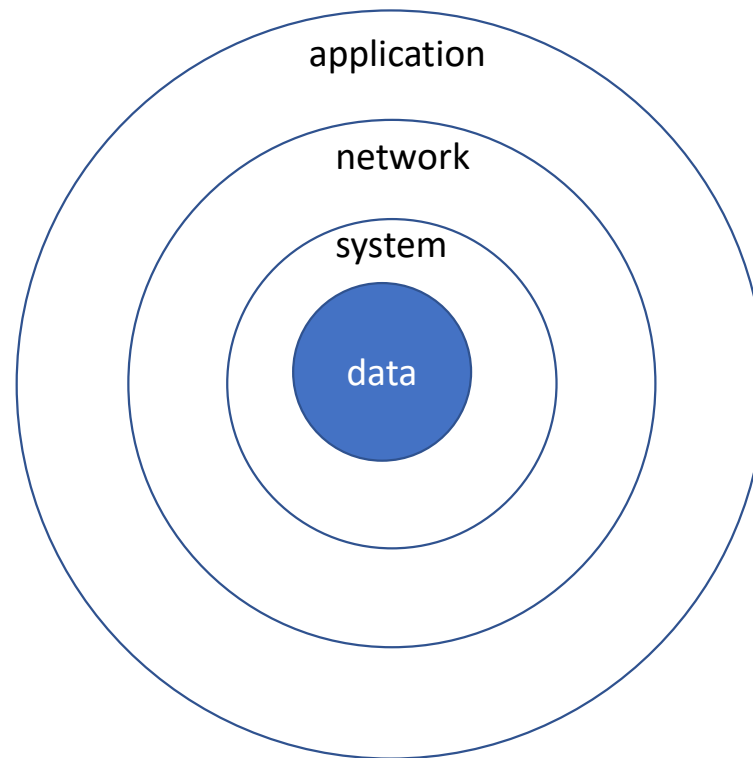




Security



Motivation for Security



Security

→ Application Security

→ Authentication – Http 401 - Unauthorized

→ Authorization – Http 403 – Access denied

Authentication

- Form Login
- HTTP Basic
- LDAP
- Biometrics/Retina
- OTP/TOTP
- Chip and Pin
- MFA
- NFC
- Face-recognition
- Kerberos
- Certificates
- RSA soft token
- Oauth 2.0

Authorization



- Path based
- Method level Authorization

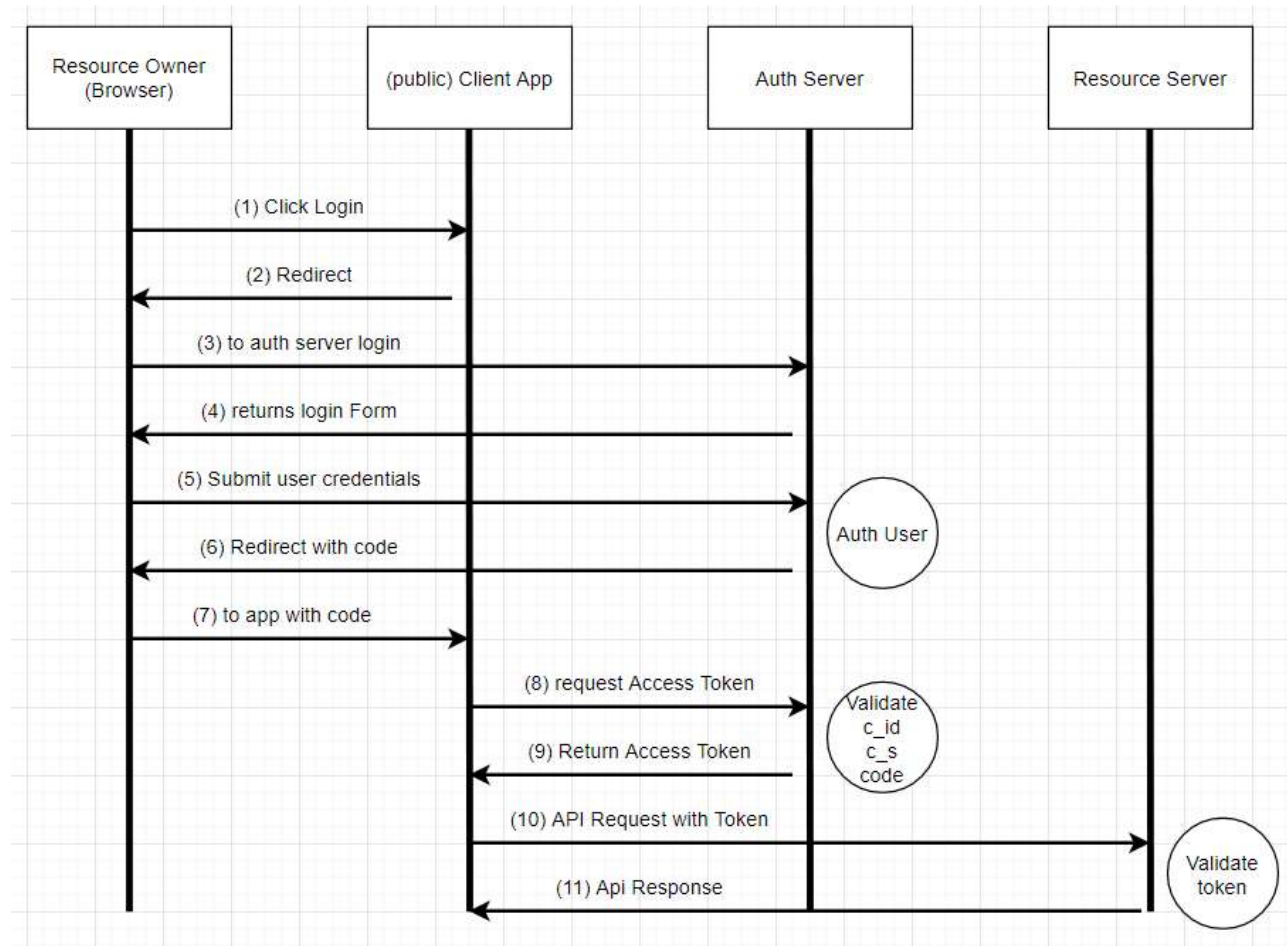
OAuth 2.0

- Delegation based
- Used Token for Authn and Authz

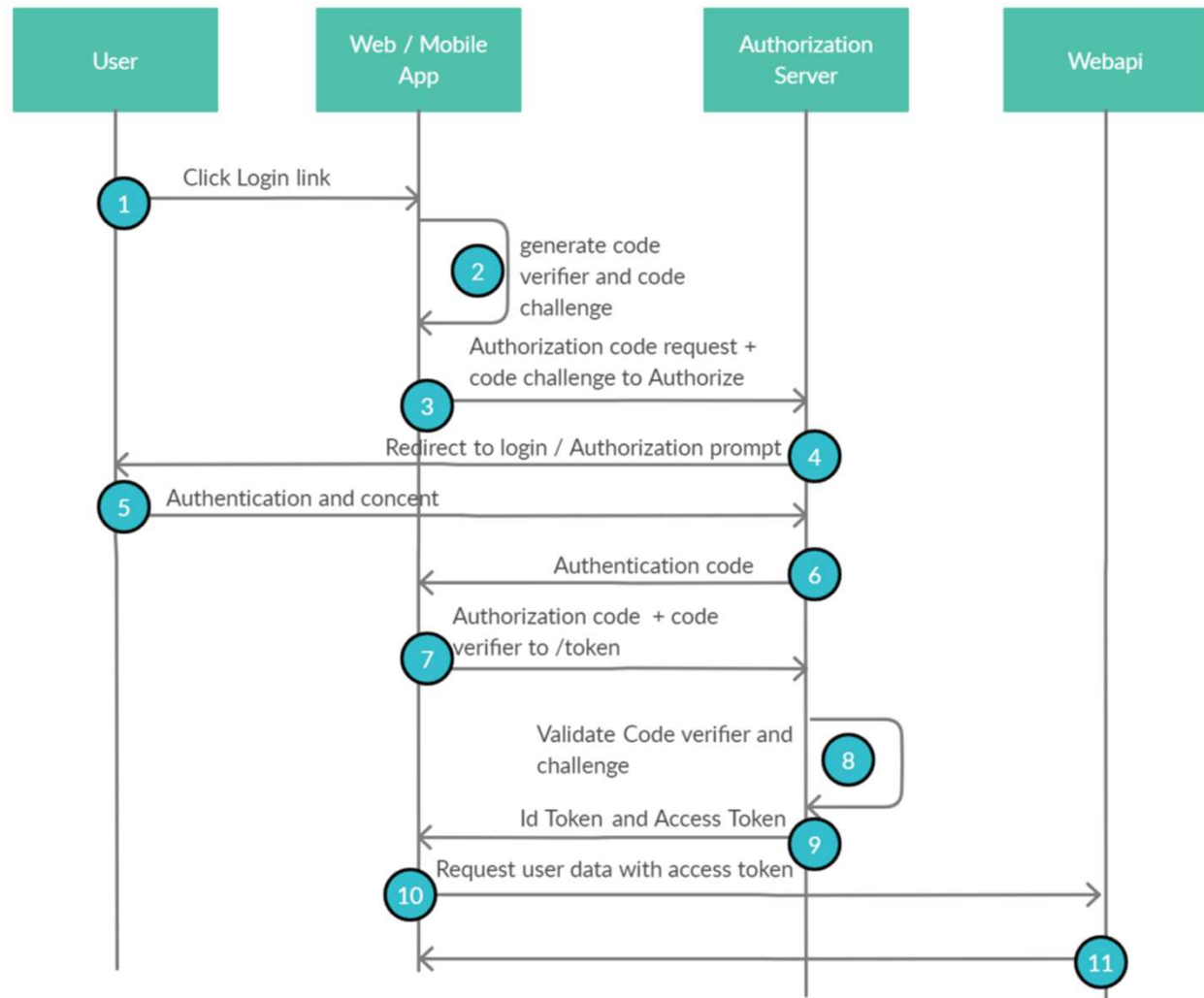
OAuth 2.0

- Resource Owner
- Resource Server
- Authorization Server
- Client application

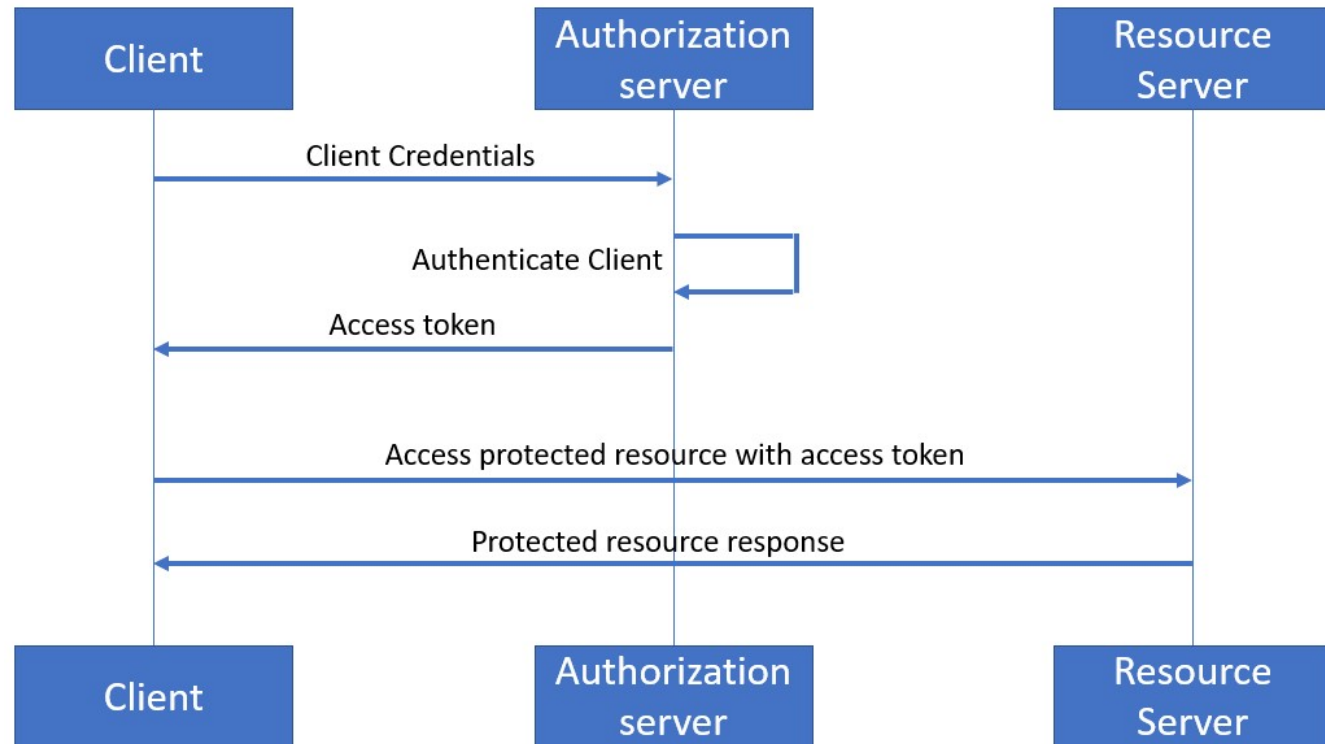
OAuth2.0 Auth_code



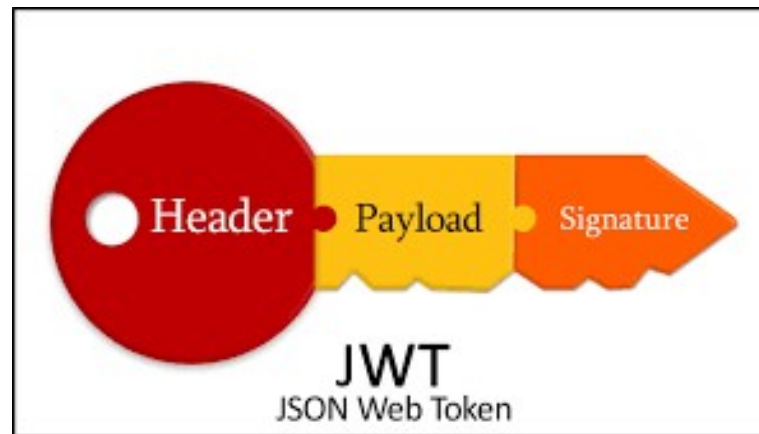
OAuth2.0 PKCE



OAuth2.0 Client credentials



JSON Web Token



JWKS endpoint

- URI is public endpoint
- JWK is a JSON object that represents a cryptographic key
- JWKS has array of JWK