

OAuth + Cognito

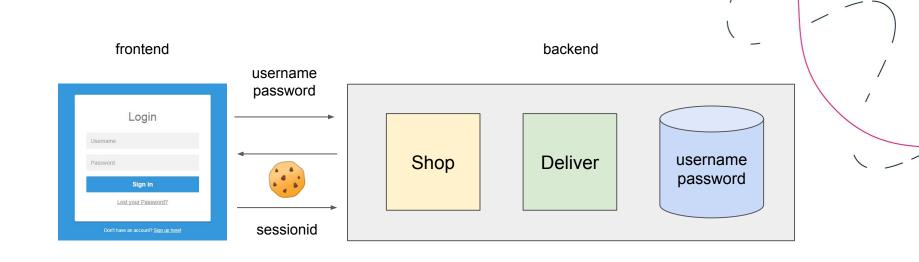
Gergely Nagy - Senior Backend Engineer @ Vacuumlabs

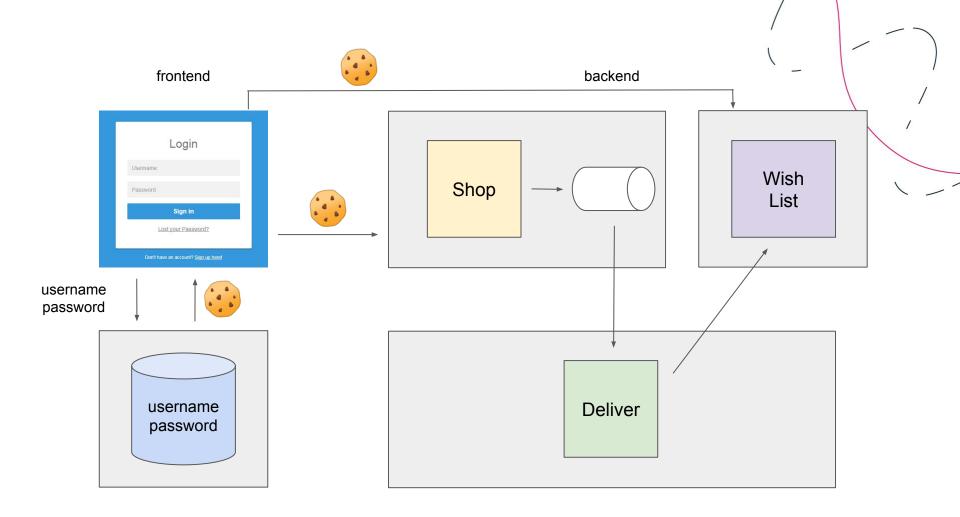
gergely.nagy@vacuumlabs.com

https://vacuumlabs.com/jobs

- OAuthról általában
- Congitóról konkrétabban
- Demó alkalmazás

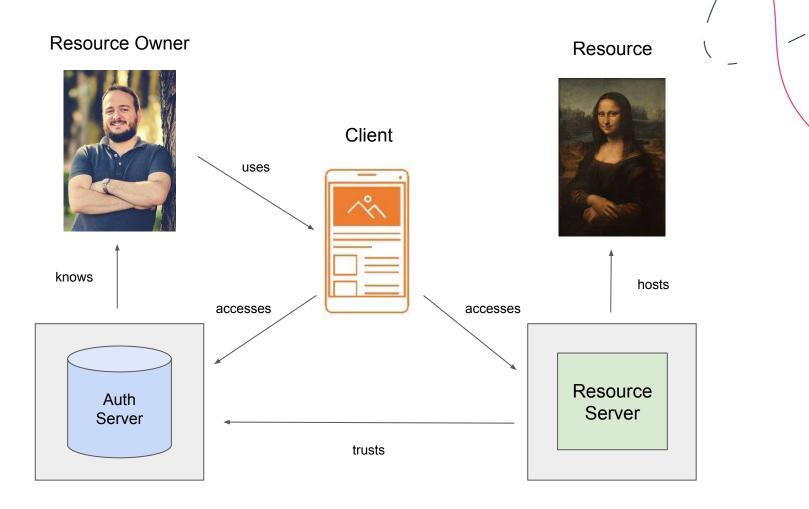




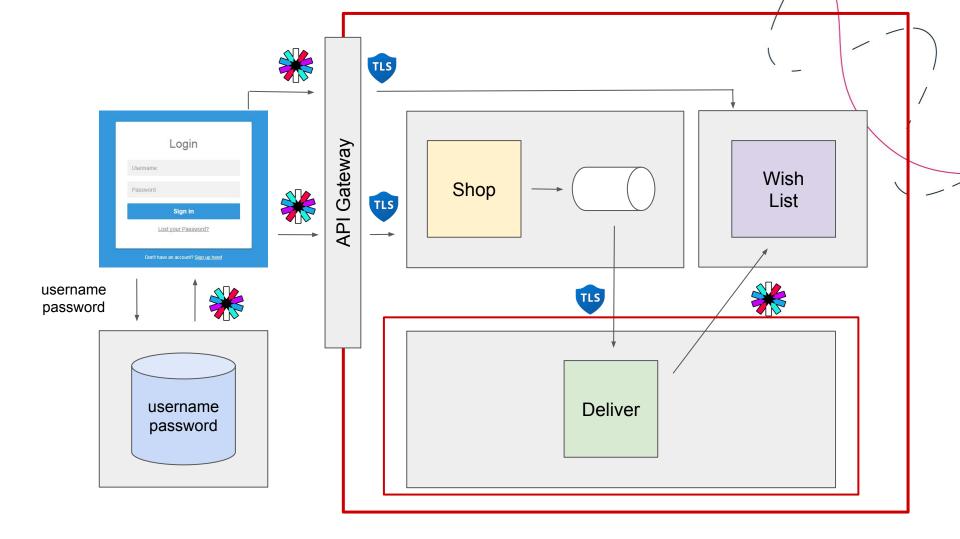


OAuth 2.0





Resource Owner Resource Client credentials hosts Resource Auth Server Server OpenID configuration



Tokenek

(zsetonok?:)



Bearer Token

JSON Web Token

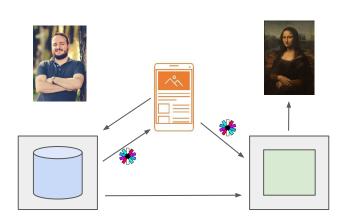
eyJhbGciOiJIUzI1NilsIn

eyJhbGciOiJIUzl1NilsInR5cCl6lkpX VCJ9.eyJzdWliOilxMjM0NTY3ODk wliwibmFtZSl6lkpvaG4gRG9lliwia WF0ljoxNTE2MjM5MDlyfQ.SflKxw RJSMeKKF2QT4fwpMeJf36POk6y JV_adQssw5c

Bearer Token

JSON Web Token

eyJhbGciOiJIUzl1NilsIn



```
"alg": "HS256",
 "typ": "JWT"
 "sub": "1234567890",
 "name": "John Doe",
 "iat": 1516239022
HMACSHA256(
 base64UrlEncode(header) + "." +
 base64UrlEncode(payload),
 your-256-bit-secret
```

AWS Cognito





Amazon Cognito

Amazon Cognito offers user pools and identity pools. User pools are user directories that provide sign-up and sign-in options for your app users. Identity pools provide AWS credentials to grant your users access to other AWS services.

Manage User Pools

Manage Identity Pools



Add Sign-up and Sign-in

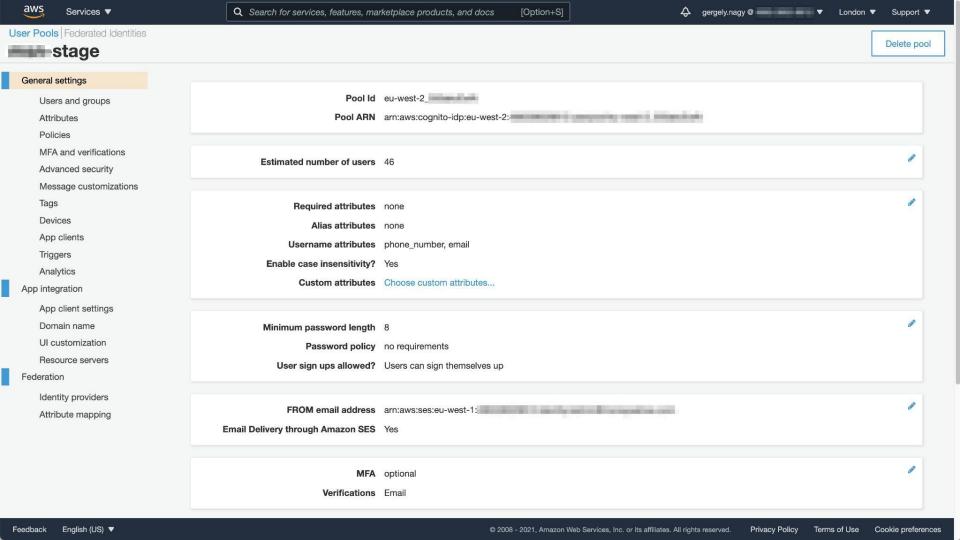
With Cognito User Pools, you can easily and securely add sign-up and sign-in functionality to your mobile and web apps with a fully-managed service that scales to support hundreds of millions of users.



Grant your users access to AWS services

With Cognito Identity Pools, your app can get temporary credentials to access AWS services for anonymous guest users or for users who have signed in.

Privacy Policy



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User Pools Federated Identities

stage

General settings

Users and groups

Attributes

Policies

MFA and verifications

Advanced security

Message customizations

Tags

Devices

App clients

Triggers Analytics

App integration

App client settings

Domain name

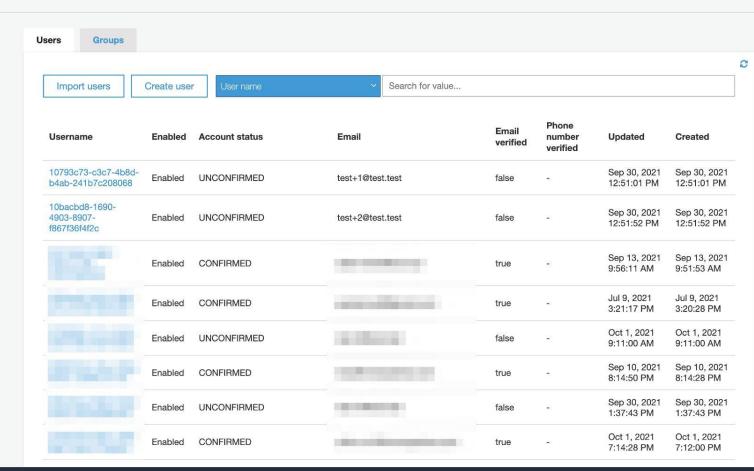
UI customization

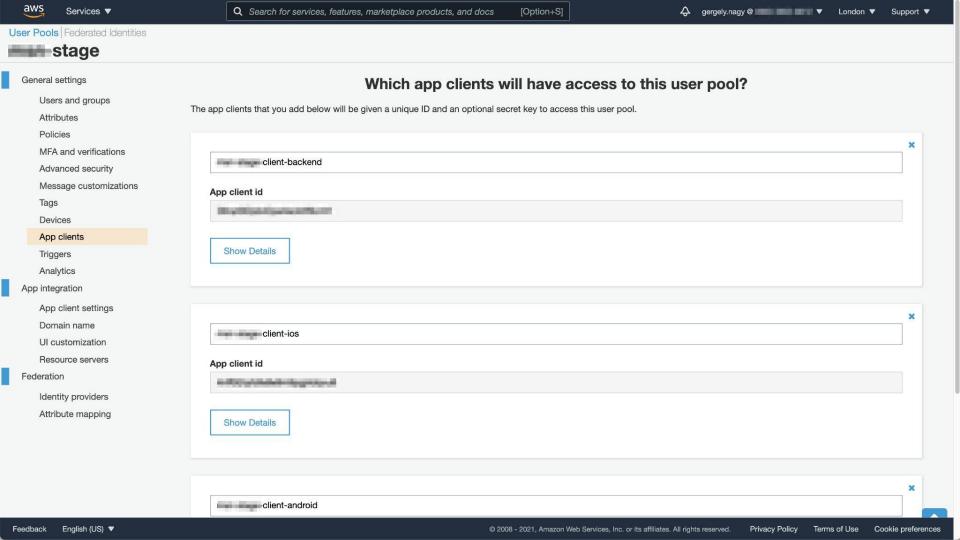
Resource servers

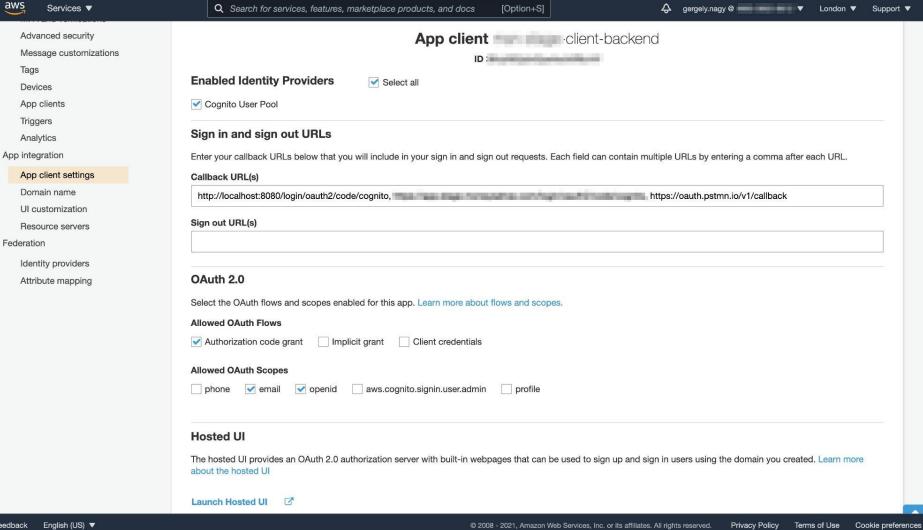
Federation

Identity providers

Attribute mapping

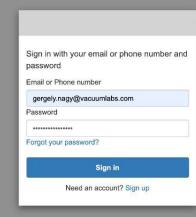






Demo App





```
spring:
    security:
    oauth2:
        resourceserver:
        jwt:
        issuer-uri: https://cognito-idp.eu-west-2.amazonaws.com/eu-west-******
```

```
spring:
 security:
   oauth2:
     resourceserver:
       jwt:
         issuer-uri: https://cognito-idp.eu-west-2.amazonaws.com/eu-west-*****
     client:
       registration:
         cognito:
          provider: cognito
           client-id: **********
           client-authentication-method: none
           authorization-grant-type: authorization code
           redirect-uri: "{baseUrl}/login/oauth2/code/{registrationId}"
           scope: openid
       provider:
         cognito:
           issuer-uri: https://cognito-idp.eu-west-2.amazonaws.com/eu-west-2 ******
           user-name-attribute: cognito:username
```

```
// https://cognito-idp.eu-west-2.amazonaws.com/eu-west-2 ***/.well-known/openid-configuration
   "authorization endpoint": "https://auth.***.com/oauth2/authorize",
   "id token signing_alg_values_supported": [
       "RS256"
   1,
   "issuer": "https://cognito-idp.eu-west-2.amazonaws.com/eu-west-2 ***",
   "jwks uri": "https://cognito-idp.eu-west-2.amazonaws.com/eu-west-2 ***/.well-known/jwks.json",
   "response types supported": [
       "code",
       "token"
   1,
   "scopes supported": [
       "openid",
       "email",
       "phone",
       "profile"
   ],
   "subject types supported": [
       "public"
   1,
   "token endpoint": "https://auth.***.com/oauth2/token",
   "token endpoint auth methods supported": [
       "client secret basic",
       "client secret post"
   ],
   "userinfo endpoint": "https://auth.***.com/oauth2/userInfo"
```

```
// https://cognito-idp.eu-west-2.amazonaws.com/eu-west-2_***/.well-known/jwks.json
   "keys": [
         "alg": "RS256",
          "e": "AQAB",
          "kid": "********",
          "kty": "RSA",
         "n": "******...",
          "use": "sig"
      },
         "alg": "RS256",
          "e": "AQAB",
          "kid": "*****=",
          "kty": "RSA",
          "n": "******...",
          "use": "siq"
```

Cognito Pro / Contra

- + Egyszerű fellőni (főleg ha már használunk AWS-t)
- + Barátságos árazás
- Kicsit fapad



Q&A

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