













authenticate +

consent

```
code_verifier +  
code_challenge_method =  
code_challenge
```



auth code



*authorizes*

code request

code\_challenge\_method

code\_challenge

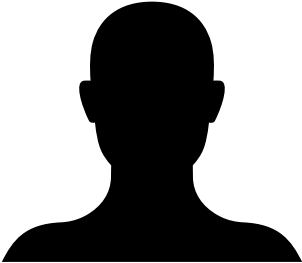
auth code +  
code verifier

**Atoken**

**SFA, Mobile apps**







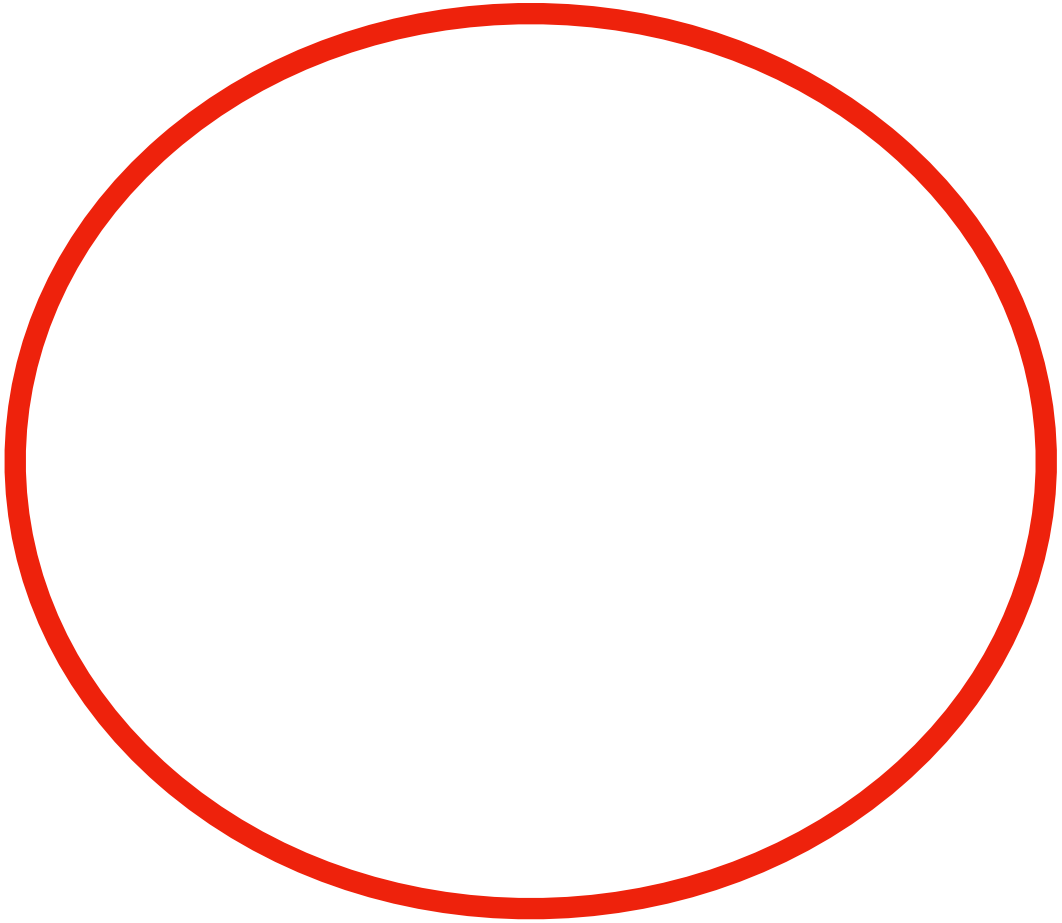






**okta**

Frontend



authenticates +

consequently





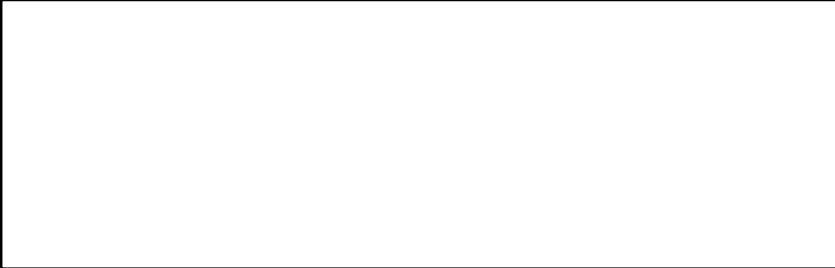
code\_challenge\_method=

codechallenge

code\_verifier +



authentic codes

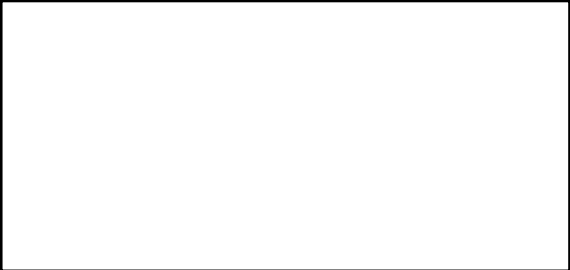


code\_challenge\_method



code requires

code\_challenges



code verifier

authentic codes +

**Authorization server verify URL**

<http://dev-83916648.okta.com/auth2/default/well-known/authorization-server>

Pretty-print ☒

```
{
  "issuer": "https://dev-83916648.okta.com/oauth2/default",
  "authorization_endpoint": "https://dev-83916648.okta.com/oauth2/default/v1/authorize",
  "token_endpoint": "https://dev-83916648.okta.com/oauth2/default/v1/token",
  "registration_endpoint": "https://dev-83916648.okta.com/oauth2/v1/clients",
  "jwks_uri": "https://dev-83916648.okta.com/oauth2/default/v1/keys",
  "response_types_supported": [
    "code",
    "token",
    "id_token",
    "code id_token",
    "code token",
    "id_token token",
    "code id_token token"
  ],
  "response_modes_supported": [
    "query",
    "fragment",
    "form_post",
    "okta_post_message"
  ],
  "grant_types_supported": [
    "authorization_code",
    "implicit",
    "refresh_token",
    "password",
    "client_credentials",
    "urn:ietf:params:oauth:grant-type:device_code",
    "urn:openid:params:grant-type:ciba",
    "urn:okta:params:oauth:grant-type:otp",
    "http://auth0.com/oauth/grant-type/mfa-otp",
    "urn:okta:params:oauth:grant-type:oob",
    "http://auth0.com/oauth/grant-type/mfa-oob"
  ],
  "subject_types_supported": [
    "public"
  ],
  "scopes_supported": [
    "okta.myAccount.appAuthenticator.maintenance.manage",
    "okta.myAccount.appAuthenticator.maintenance.read",
    "okta.myAccount.appAuthenticator.manage",
    "okta.myAccount.appAuthenticator.read",
    "openid",
    "profile",
    "email",
    "address",
    "phone",
    "offline_access",
    "device_sso"
  ],
  "token_endpoint_auth_methods_supported": [
    "client_secret_basic",
    "client_secret_post",
    "client_secret_jwt",
    "private_key_jwt",
    "none"
  ],
}
```