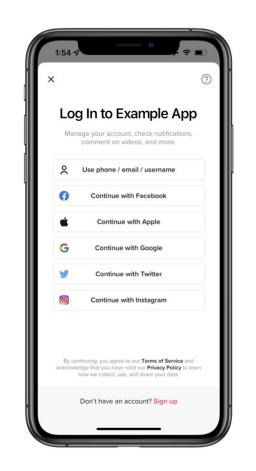
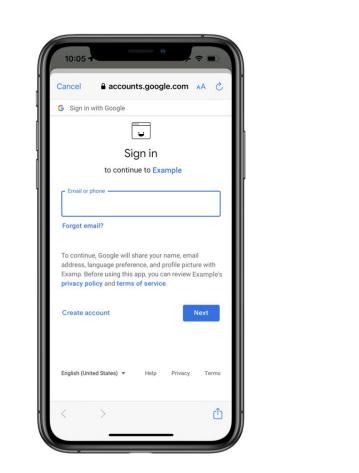
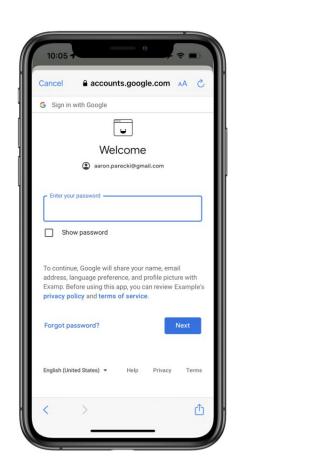


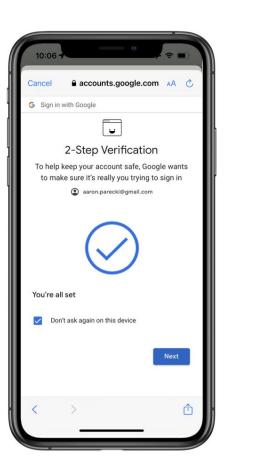
OAuth for Native Mobile Apps Today

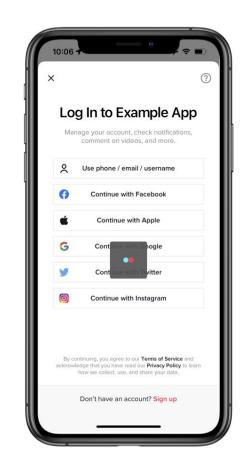












Great for third party apps

- Secure isolation between app and system browser
- Leverages existing session at the OAuth server
- Supports phishing-resistant MFA

Developers want a better user experience for first-party apps

What is happening today

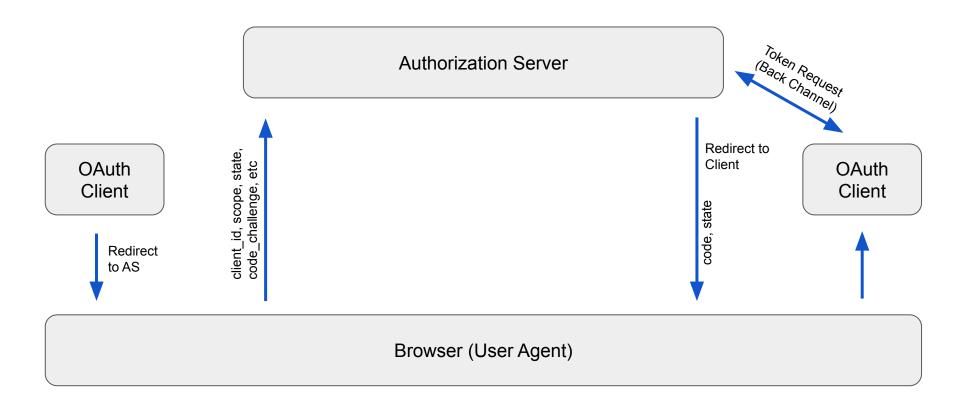
People are finding workarounds to avoid RFC8252

- Custom DIY solutions for native apps
- Using Resource Owner Password Grant
 - (Unable to add MFA)
- OAuth servers creating proprietary APIs to facilitate direct interaction with native apps
- Scripting hidden web views to emulate user interaction with the AS

What is happening today

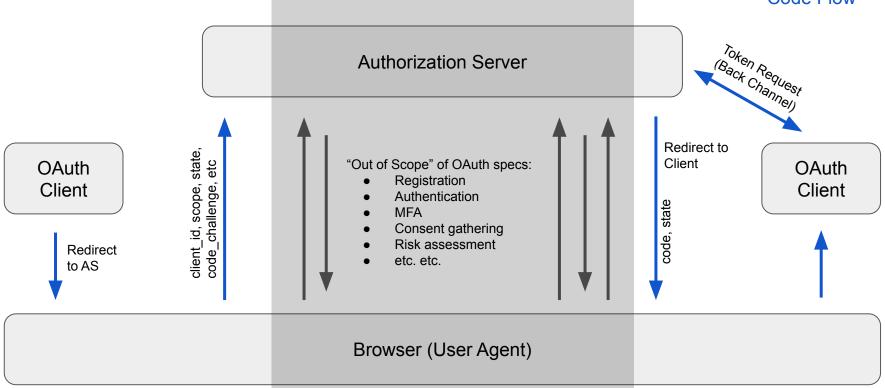
All of these lead to worse outcomes

Authorization Code Flow for Web Apps



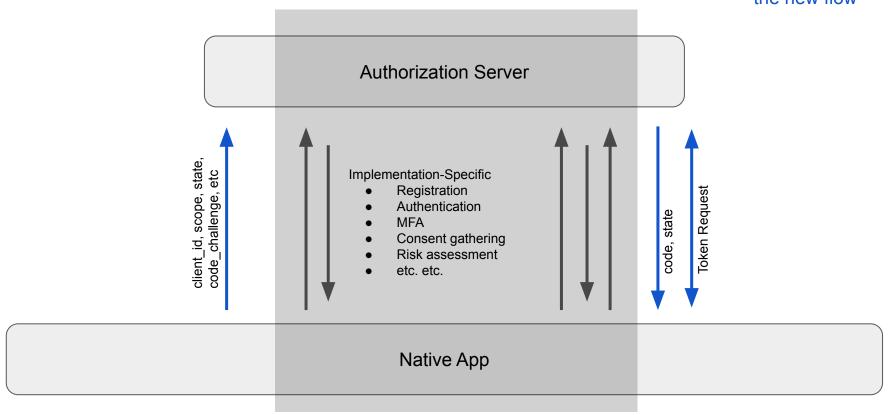
Authorization Code Flow for Web Apps

Blue arrows are the OAuth Authorization Code Flow



Native Apps Flow

Blue arrows are the new flow



Questions

- Is OAuth WG the right place for this?
 - The artifacts issued will still be access tokens and refresh tokens, and likely ID tokens as well
- Should the flow leave the details of the app-AS exchange unspecified to mirror the Authorization Code flow?
 - Should the flow define a "challenge-response" format that can be extended with provider-specific logic?