

# **Braive Passwordless**

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Growth Session #23 - March 21-22 2019

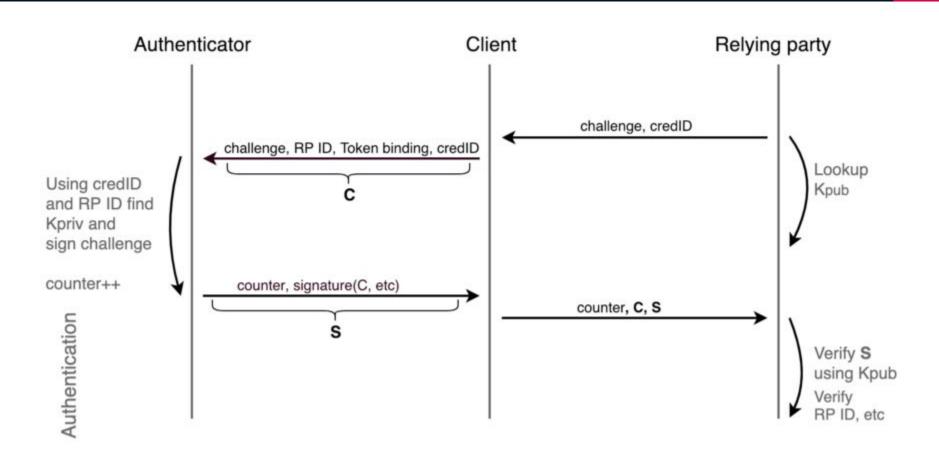
#### Intro

- Introducing another Authentication solution to Braive users.
- Exploring the FIDO2 protocol and its application.
- Get on the Passwordless boat with the implementation to all application platforms.



- FIDO Alliance is a consortium that develops secure, open, standard, phishing proof authentication protocol.
- FIDO has three protocols: UAF, U2F and FIDO2

#### The basic flow



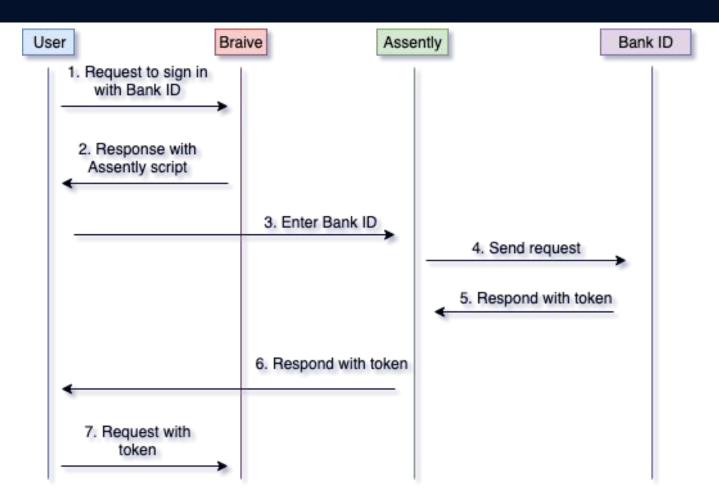
#### A sample FIDO2 response

```
"rawId": "imCIoe8U_N.....",
"id": "imCIoe8U_N9.....",
"response": {
    "attestationObject": "base_64_encoded_obj",
    "clientDataJSON": "base 64_encoded_obj"
"getClientExtensionResults": {},
"type": "public-key"
```

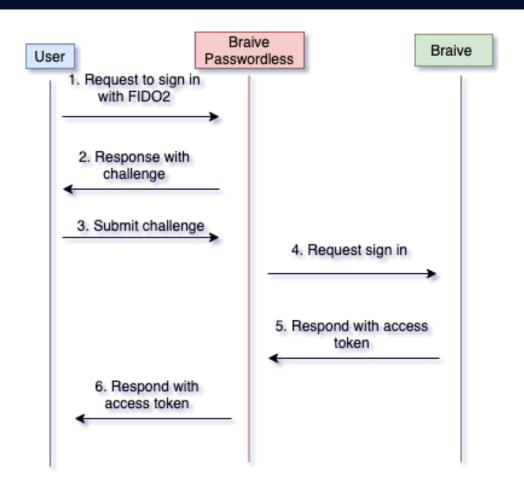
#### The idea for Braive

- An integration to the current system.
- Learning from the BankId login practise.

## Bank ID sign in flow



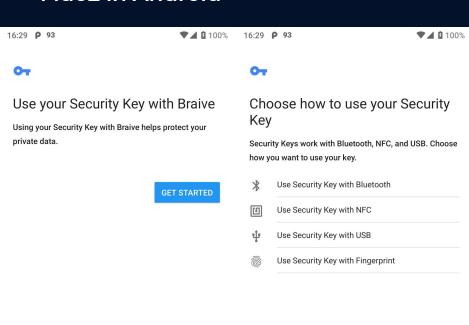
## Braive Passwordless sign in flow

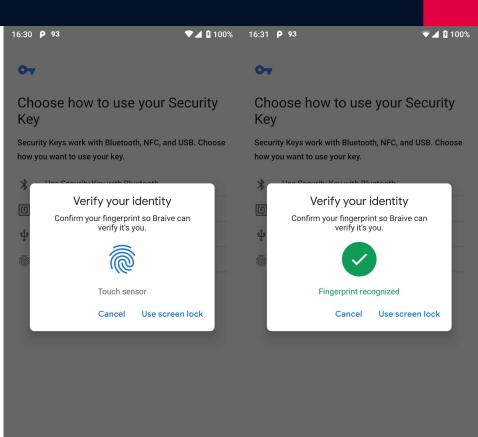


#### Fido2 in Android

- Android provides the Fido2 library via the Google Play services.
- It provides 4 ways of authentication:
  - Bluetooth
  - o NFC
  - USB
  - Fingerprint
- It provides a pretty nice abstraction for us use, but you need to know how the Fido2 works, because of lack of documentation.
- It handles basically everything including displaying the UI.

#### Fido2 in Android





# **DEMO**

### **Achievement and Progress**

- Braive app:
  - Added new authentication method with fido2
  - Added API to update user's fido\_token
- 3rd-party service acting as the middleware:
  - Validate the client's request/response
  - Communicate with Braive App
  - Forward back to client app [WIP]
- Android:
  - Setup Braive project.
  - Try the Fido2 on Braive.

It's fun, yeah



# Thanks!

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