

# Allowing Phone Number Authentication

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**Markus Neuhoff**

ANDROID DEVELOPER



# Phone Sign-in Basics



Firestore added support in May 2017



Identity verified by SMS code



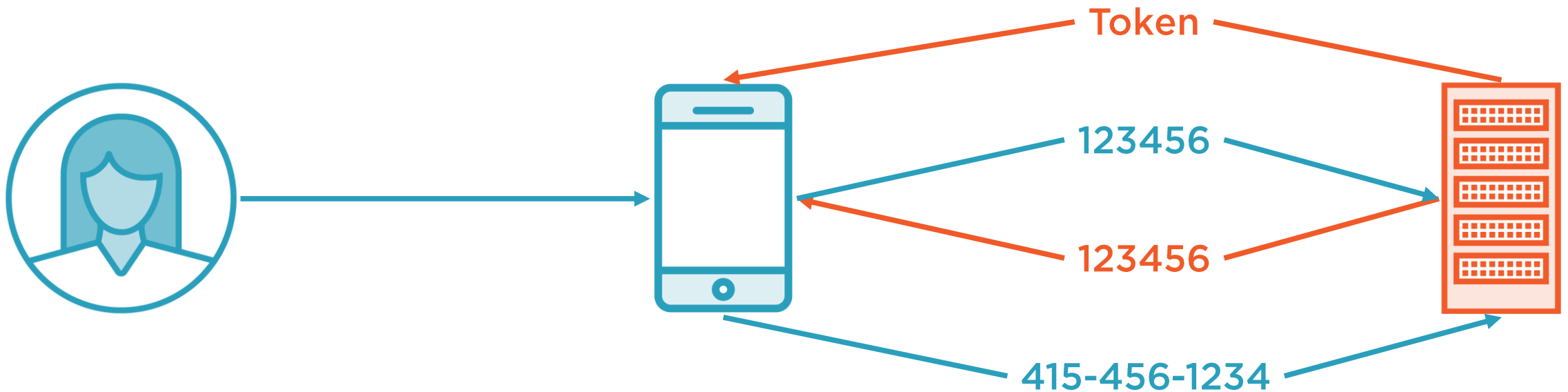
Not free, \$0.01/use over 10k/month



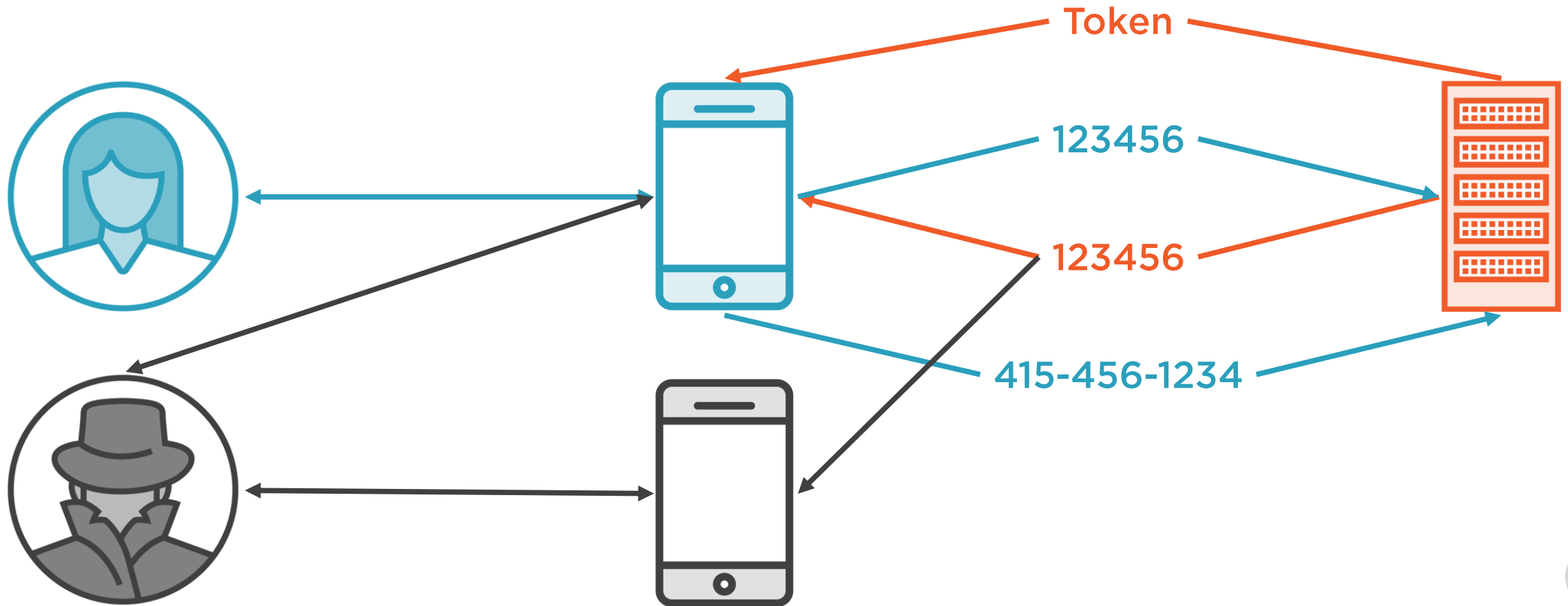
User phone numbers are stored and analyzed by Google



# Standard Phone Sign-in Flow



# Compromised Phone Sign-in Flow





**Phone sign-in is a less secure option**

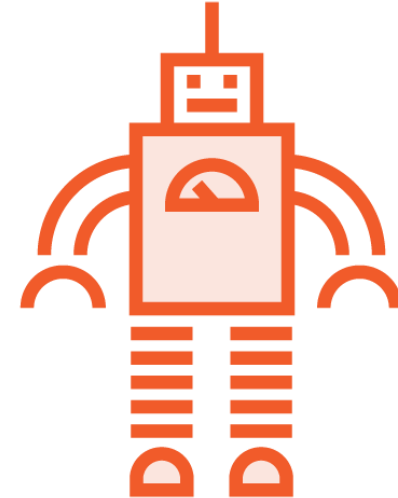
**Authentication can be compromised by:**

- Phones with multiple users
- Gaining physical phone access
- Switch SIM cards

# Testing Phone Sign-in

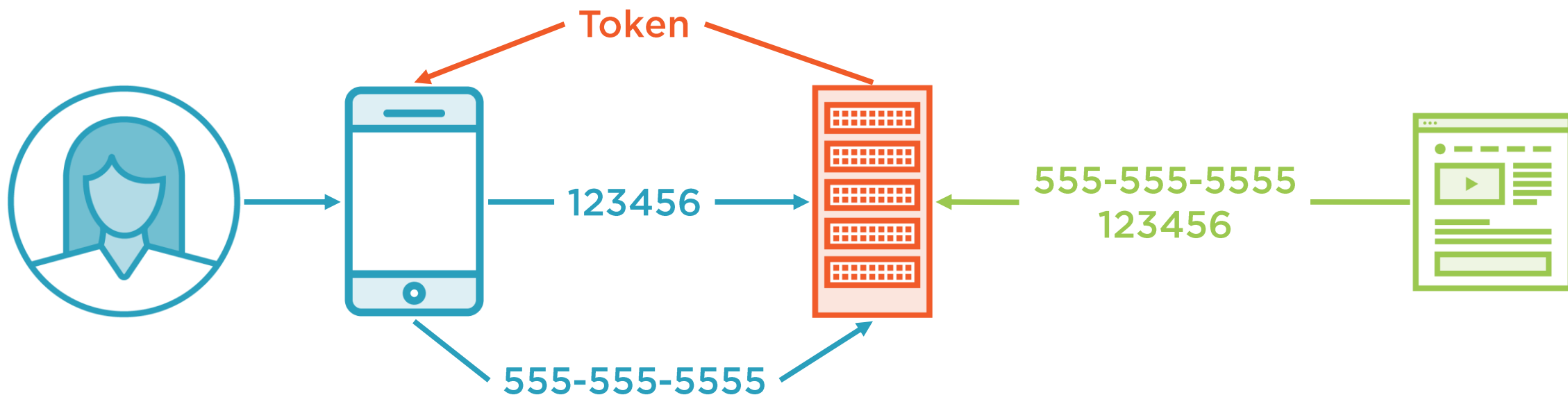


Whitelisting fake phone numbers  
with authentication codes



Automated integration testing

# Whitelisted Phone Number Sign-in Flow



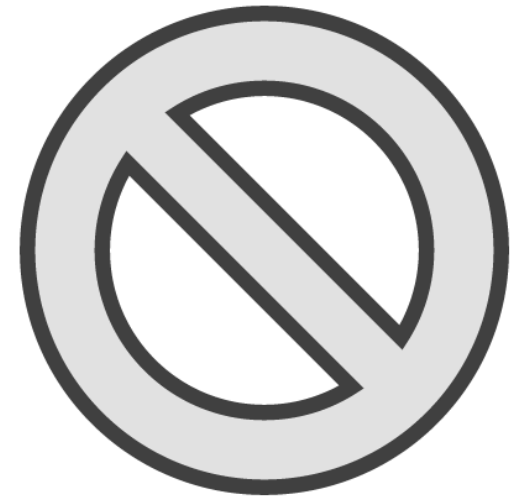
# Country Codes



Default



Whitelist



Blacklist



# Demo



## Firebase Console

- Enable phone sign-in method
- Add fake phone number and code for testing

## Android Studio

- Add phone sign-in method
- Test on emulator and real devices



# Summary



## Issues to consider

- Cost for higher volumes
- Less secure than other options
- Potential privacy concerns

## Testing phone sign-in

- Whitelisting