

RUHR-UNIVERSITÄT BOCHUM

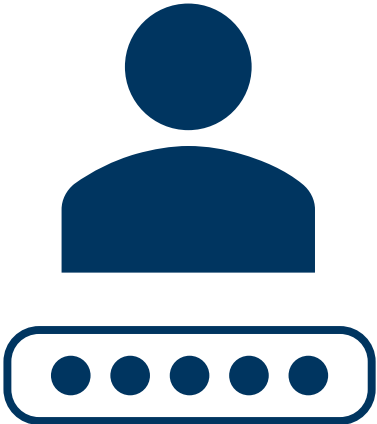
## “You still use the password after all”

Exploring FIDO2 Security Keys in a Small Company

[Florian M. Farke](#), [Lennart Lorenz](#), [Theodor Schnitzler](#), [Philipp Markert](#), and [Markus Dürmuth](#)

Sixteenth Symposium on Usable Privacy and Security (SOUPS 2020)

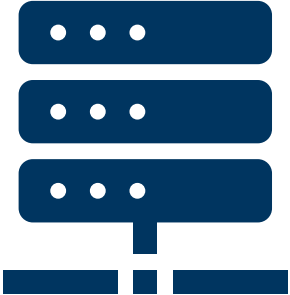
# WEB AUTHENTICATION VIA PASSWORDS



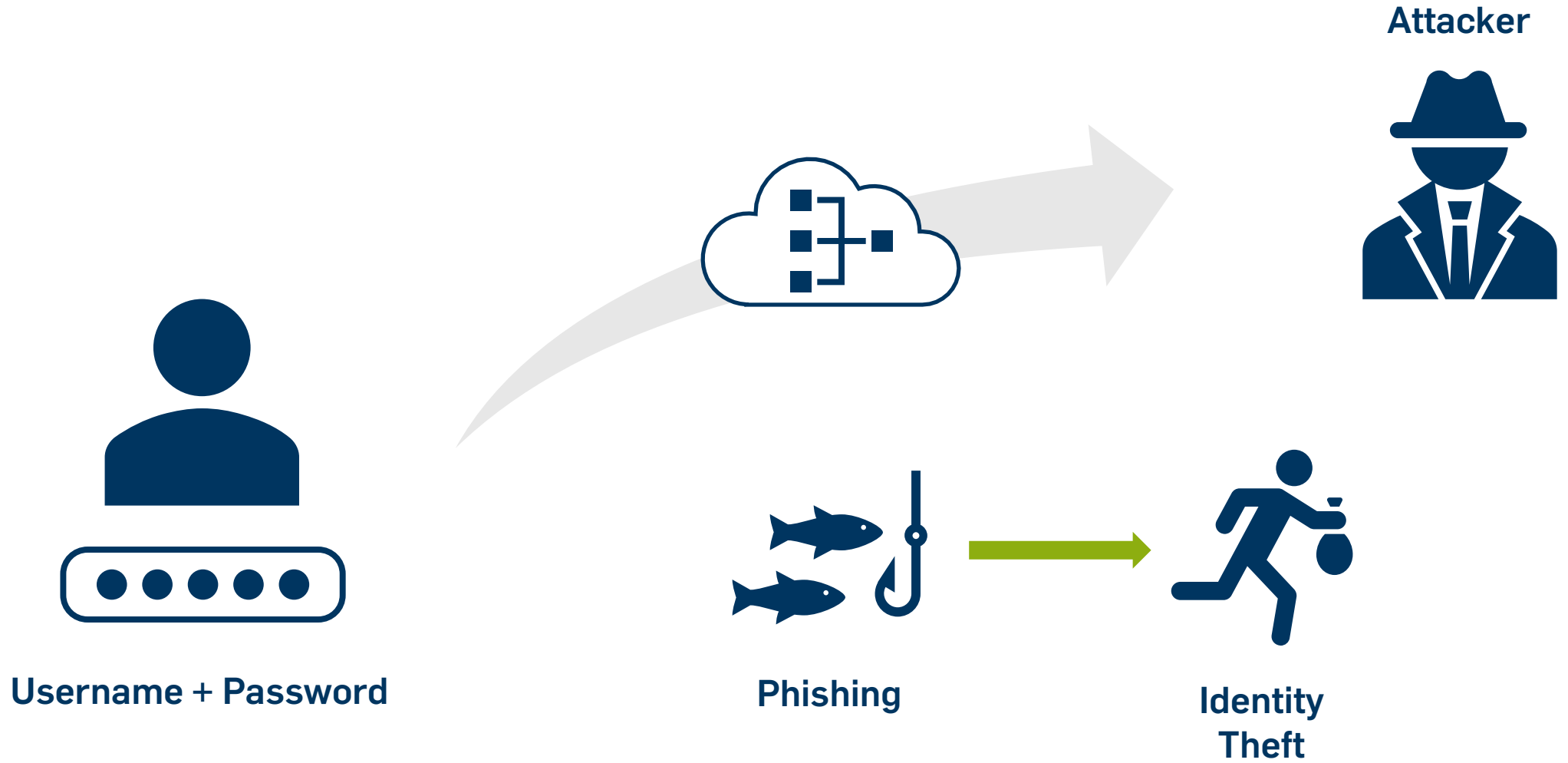
Username + Password



Webserver

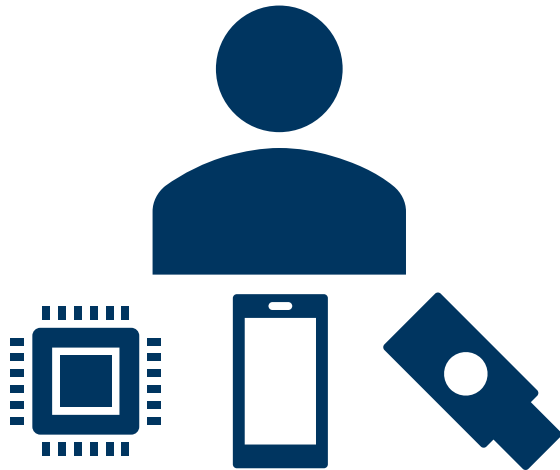
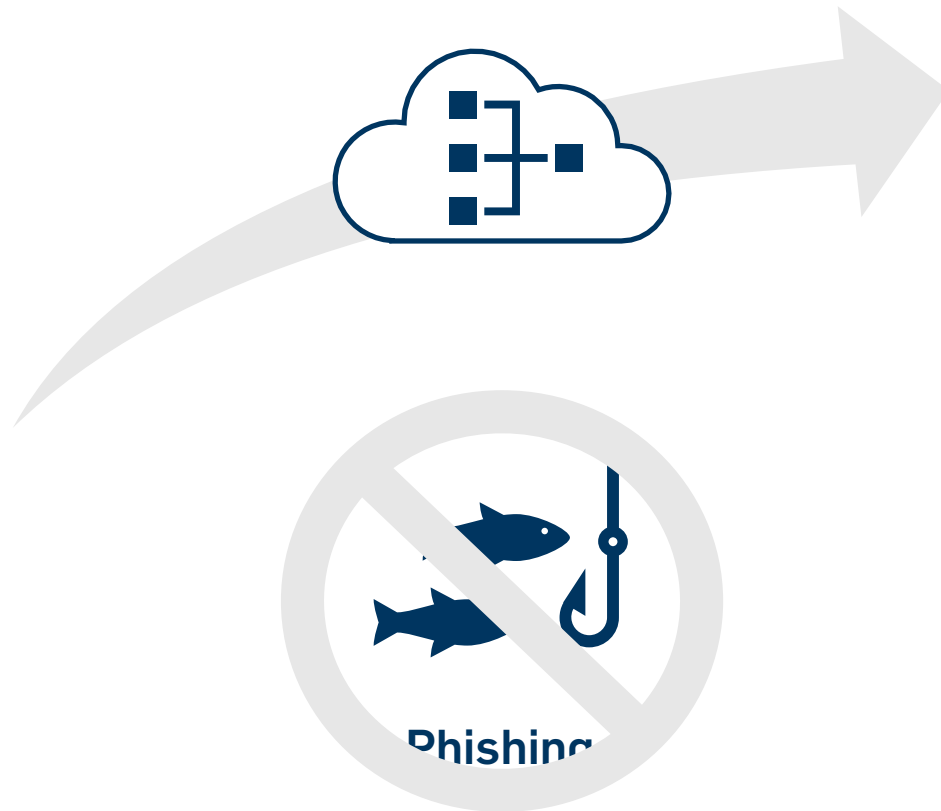
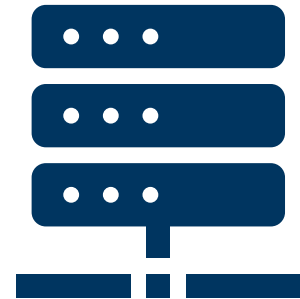


# PHISHING OF PASSWORDS



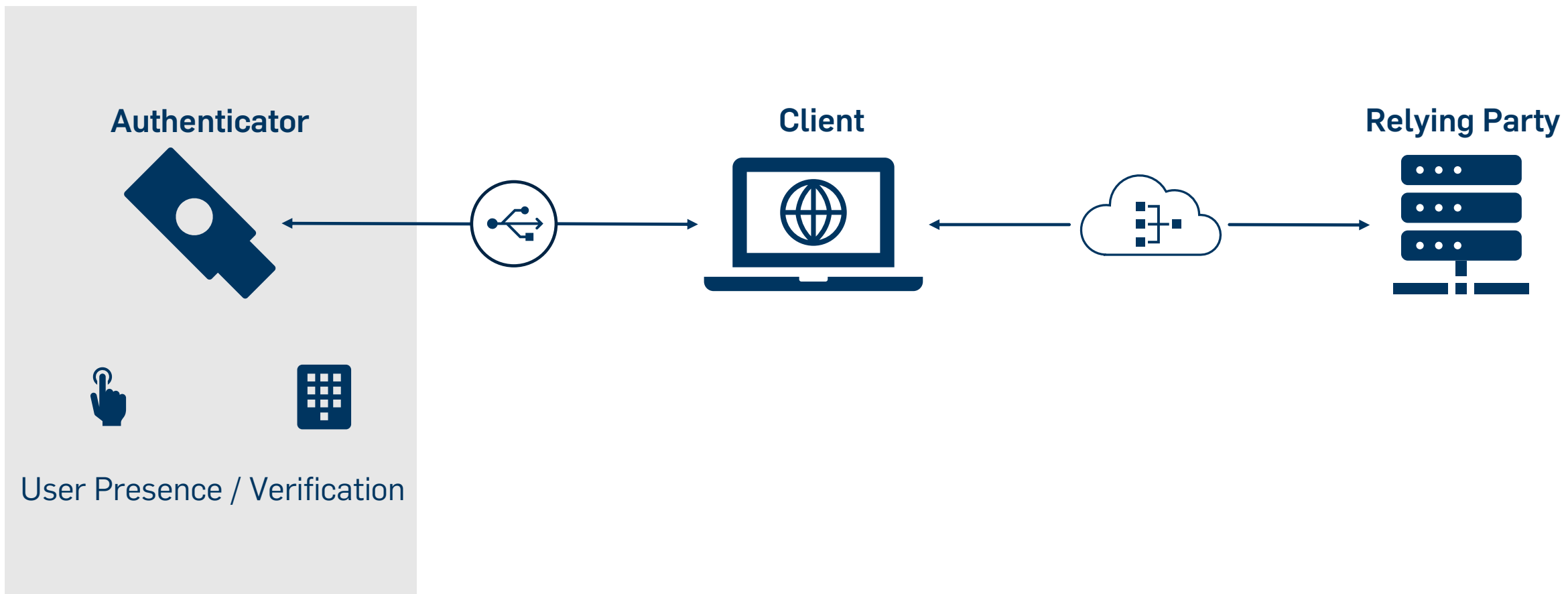
# FIDO2 → REPLACING PASSWORDS

Webserver

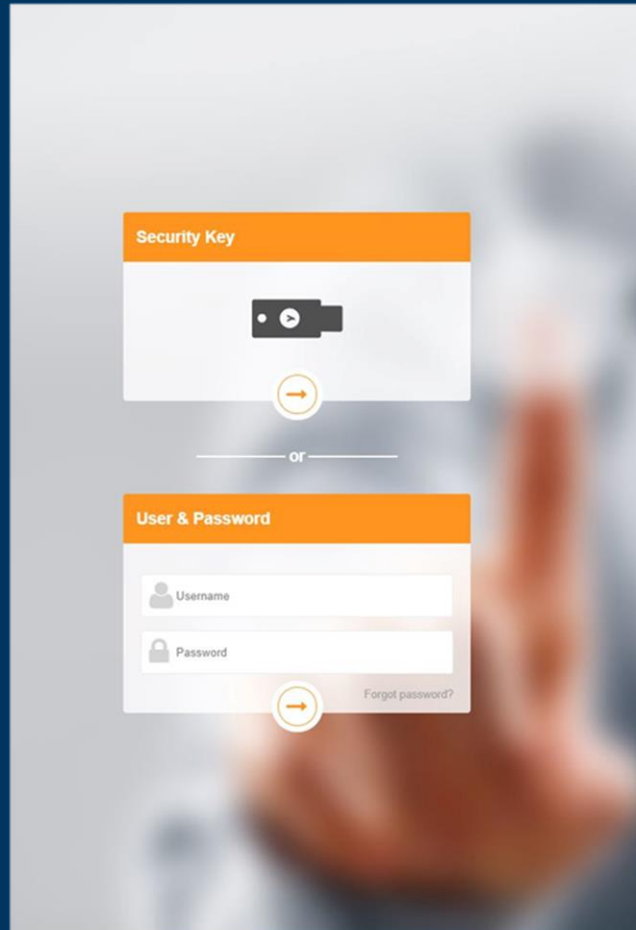


FIDO2 Authenticator

# FIDO2 “PASSWORDLESS” SETUP



## Implementation



- Optional FIDO2 login

## Study Environment



- Software company
- Life sciences sector

## Participants



- 8 employees
- Sales, developers, managers

**STUDY**



# STUDY PROTOCOL



Workshop



4 Weeks



Interview

## SECURITY AND PURPOSE

“It’s more secure because no password needs to be transmitted, the key is used [...] to sign in.” – P6



“It is okay [to use the key] for stuff like online banking [...] not for Facebook or email” – P6





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## ADOPTION BARRIERS



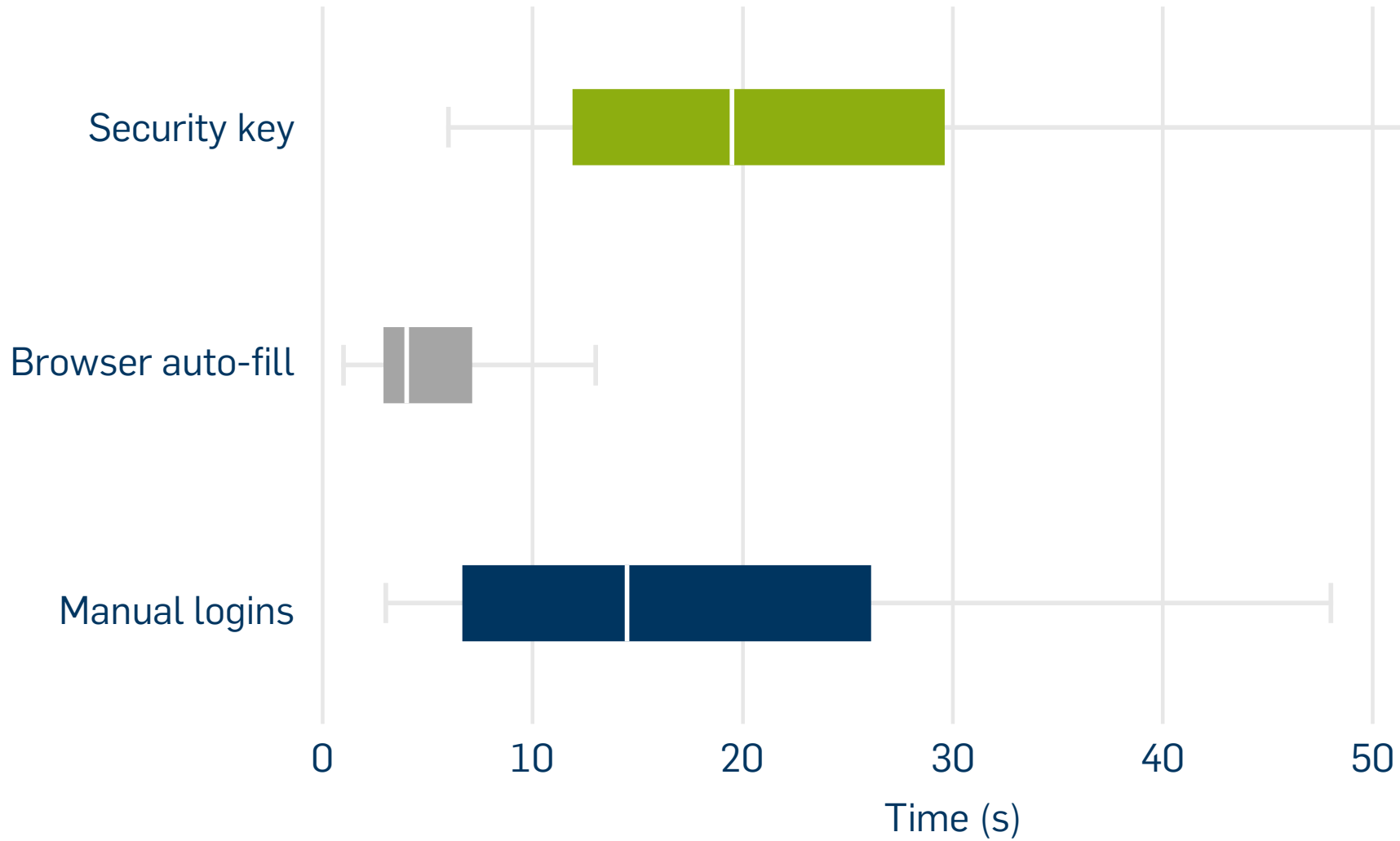
*“Well, if I forget or loose it, I couldn’t get into my account” – P3*



*“I just entered the password because I am used to it.” – P7*



# AUTHENTICATION TIMINGS



# CONTACT

Florian Farke

Mobile Security Group

Ruhr University Bochum

[florian.farke@rub.de](mailto:florian.farke@rub.de)

