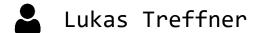
#### Fido Tokens on Linux

Master's Project

> version: POC



Graz University of Technology

**26.08.2024** 

https://https://github.com/
aurarius1/FidoDbusMasterProject



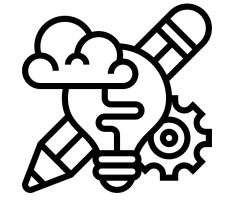
## Motivation



#### Motivation

- Windows and MacOS: centralized access
- Linux: every application on its own
  - Trust interaction request?
  - Malicious actors?

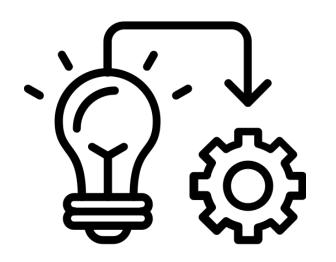
# Design Considerations



### Design Considerations

- DBUS
- Access restriction
  - UDEV Rules
- Token interaction
  - Via libraries
  - Don't reinvent the wheel
  - Allows switching

## How it works



#### How it works

- DBUS Server (C++)
  - Using sdbus-cpp
  - Custom bridge to Rust library
  - UI elements
  - Returns Assertion/Attestation
- API defined via xml
  - Generation of Server/Client possible
- Access only with special user

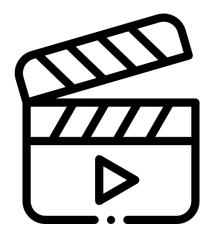
# Open "Todos"



## Open "Todos"

- Remaining Methods
- Using DBUS capabilities
  - Display calling binary
  - Adjust timeouts

# DEMO



## Special thanks

• <a href="https://www.flaticon.com/">https://www.flaticon.com/</a> (for icons in this slideset)