

# TZ - Password Manager

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Estimated Total Hours: 5+6



# Plans (Last Week)

- TA finished
- RPi4/alternative
- Flatter App/CLI alternative



# What Actually Happened

## Work completed:

- TEE\_DeriveKey fixed!
- Create archive essentially done, encryption, decryption figured out
- RPi4 booted

## Major challenges+roadblocks:

- OP-TEE actually NOT following Global Platform specifications
- RPi4

## Attribution:

- TEE Internal Core API



# Key Findings (OP-TEE-RPi4)

- **OP-TEE Doesn't function the same in Raspberry Pi system as it does in QEMU on Linux. There is no Development environment.**
- **A UART Connection is necessary to view the log files through PuTTY or Picocom/minicom.**
- **The system, however can be used via ssh but requires a RJ45 Cable**
- **To run the code on Raspberry Pi system, the code needs to be compiled on the host computer first before deploying it on the Rpi for testing and execution.**



# Plans (Next Week)

- TA finished (figure out persistent storage)
- RPi4 Interface
- Flutter App/CLI alternative



# Summary/Overall Progress

- API definition
- Major TEE OS API figured out
- OP-TEE booted on RPi4
- More understanding of TEE Core API

