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## - Master/Diploma thesis - Security Analysis of Android OS

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### Motivation & Goal

With increasing popularity of mobile phones and their applications, there is also an increasing amount of data stored on these devices. Often this data is personal (like business contacts, appointments, phone numbers or biometric data) what makes these phones even more attractive for an attacker.

The android operating system is getting more and more popular as it offers developers open access to its API. This master thesis should evaluate the security of the android OS in general with a special focus on attacks on the memory of the device. This involves an in-deep literature research on existing vulnerabilities and a proof-of-concept implementation of selected attacks.

### Requirements

- High motivation and creativity;
- Knowledge in IT-Security;
- Knowledge of Linux OS or android OS;
- Programming knowledge (C, java, python);
- Knowledge of the English language.

### Contact

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