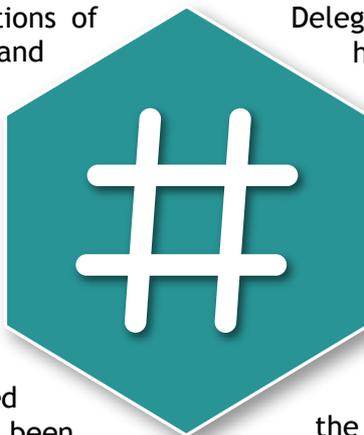# Defeating Android Locks & Encryption

GAIN ACCESS TO PROTECTED ANDROID DEVICES

Since Android v6, improvements in device security have made it increasingly challenging for forensic examiners to secure physical extractions of Android devices. Stronger user locks and full disk encryption both present significant obstacles to the forensic examiner. At the same time, logical extractions are becoming less useful as apps such as WhatsApp and Facebook Messenger withdraw themselves from the Android backup technique utilised by forensic tools. Gaining "root" (administrator level) access to an Android device submitted for a forensic examination has never been more important, yet the rooting tools needed were not designed for forensic use and carry the potential for rendering a device unusable (affectionately known as "bricking" the device).

> **PROFESSIONAL AND SEAMLESS DELIVERY OF INTERESTING AND RELEVANT CONTENT**

Course Aims

Defeating Android Locks & Encryption is a 4½ day course designed to teach existing mobile device examiners how to safely root locked unencrypted Samsung devices such that a physical extraction can be performed. Delegates will also learn how to use free tools to create "custom recoveries" (lightweight operating systems, specific to a particular handset model) which can be used to bypass locks and Full Disk Encryption on a wide range of Samsung devices, regardless of security patch level. Crucially, the course includes hands-on experience in "unbricking" devices whilst ensuring that user data is preserved.

During the course, the techniques will be applied to a range of Samsung models including locked and encrypted Galaxy A, J and S series devices. The emphasis of the course will be to develop capabilities which go beyond those of established commercial forensic tools & techniques. Delegates will also learn how to combine high performance hardware with custom dictionaries to crack passwords in the shortest time possible.

Who should attend?

This advanced level course is targeted at existing mobile examiners who have at least 12 months experience in mobile device forensics and have attended the Control-F "Advanced Smartphone & Tablet Acquisition" course or equivalent. Delegates will need to successfully complete a pre-course assessment to confirm their ability to use 'hashcat' and ADB commands.

What you will learn

By the end of the course, delegates will be able to:

- Safely root Samsung Android devices to enable physical extractions

- Bypass user locks on current Samsung devices

- Use efficient password cracking strategies to crack complex PINs and passwords and decrypt encrypted partitions

- Bypass full disk encryption on recent Samsung Android devices

- Explain & justify their actions in court

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DIGITAL FORENSICS

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