UNIVERSITEIT VAN AMSTERDAM

MSc. System and Network Engineering

SSN Project

"SSL session key extraction from memory on Android mobile devices"

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December, 2015

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Introduction

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Chapter 2

Inspiration

The article by Gursev Singh Kalra, titled Extracting RSAPrivate- CrtKey and Certificates from an Android Process, describes how to dump X.509 certificates and construct a RSA private key (RSAPrivate- CrtKey) from the Android application memory using Eclipse Memory Analyzer Tool (MAT) and Java code. This paper gave us the indi- cation that there are possibilities to extract the keys from a running process.[1]

Chapter 3

Literature

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Chapter 4

Analysis

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Chapter 5

Conclusions

Bibliography

[1] Gursev Singh Kalra. Extracting rsaprivatecrtkey and certificates from an android process. http://blog.opensecurityresearch.com/2013/10/extracting-rsaprivatecrtkey-and.html, 2013.