



Android Security Lab WS 2013/14 References

M.Sc. Sven Bugiel

References

- [1] W. Enck, M. Ongtang, and P. Mcdaniel, "Mitigating android software misuse before it happens," Technical Report NAS-TR-0094-2008, Pennsylvania State University, September 2008.
- [2] A. Porter Felt, H. J. Wang, A. Moshchuk, S. Hanna, and E. Chin, "Permission re-delegation: Attacks and defenses," in *Proc. 20th USENIX Security Symposium (SEC'11)*, USENIX Association, 2011.
- [3] A. Lineberry, D. L. Richardson, and T. Wyatt, "These aren't the permissions you're looking for." http://dtors.files.wordpress.com/2010/08/blackhat-2010-slides.pdf, 2010. DefCon 18.
- [4] R. Schlegel, K. Zhang, X. Zhou, M. Intwala, A. Kapadia, and X. Wang, "Soundcomber: A stealthy and context-aware sound trojan for smartphones," in *Proc. 18th Annual Network and Distributed System Security Symposium (NDSS '11)*, The Internet Society, 2011.
- [5] Y. Zhou and X. Jiang, "Dissecting Android malware: Characterization and evolution," in *Proc. 33rd IEEE Symposium on Security and Privacy (SP'12)*, 2012.
- [6] L. Davi, A. Dmitrienko, C. Liebchen, and A.-R. Sadeghi, "Over-the-air cross-platform infection for breaking mTAN-based online banking authentication," 2012. BlackHat Abu Dhabi.
- [7] Z. Xu, K. Bai, and S. Zhu, "Taplogger: inferring user inputs on smartphone touchscreens using on-board motion sensors," in *Proc. 5th ACM conference on Security and Privacy in Wireless and Mobile Networks (WISEC'12)*, ACM, 2012.
- [8] L. Cai and H. Chen, "Touchlogger: inferring keystrokes on touch screen from smartphone motion," in 6th USENIX conference on Hot topics in security (HotSec'11), USENIX Association, 2011.
- [9] A. Porter Felt, M. Finifter, E. Chin, S. Hanna, and D. Wagner, "A survey of mobile malware in the wild," in Proc. 1st ACM CCS Workshop on Security and Privacy in Mobile Devices (SPSM'11), ACM, 2011.
- [10] C. Lever, M. Antonakakis, B. Reaves, P. Traynor, and W. Lee, "The core of the matter: Analyzing malicious traffic in cellular carriers," in *Proc. 20th Annual Network & Distributed System Security Symposium (NDSS'13)*, The Internet Society, 2013.
- [11] Y. Zhou, Z. Wang, W. Zhou, and X. Jiang, "Hey, you, get off of my market: Detecting malicious apps in official and alternative Android markets," in *Proc. 19th Annual Network & Distributed System Security Symposium (NDSS'12)*, Feb. 2012.
- [12] M. Grace, W. Zhou, X. Jiang, and A.-R. Sadeghi, "Unsafe exposure analysis of mobile in-app advertisements," in *Proc. 5th ACM conference on Security and Privacy in Wireless and Mobile Networks (WISEC'12)*, ACM, 2012.
- [13] V. Rastogi, Y. Chen, and X. Jiang, "Droidchameleon: Evaluating android anti-malware against transformation attacks," in 8th ACM Symposium on Information, Computer and Communications Security (ASIA CCS'13), ACM, 2013.
- [14] L. Davi, A. Dmitrienko, A.-R. Sadeghi, and M. Winandy, "Privilege escalation attacks on android," in *Proc. 13th Information Security Conference (ISC '10)*, Springer, 2010.
- [15] S. Bugiel, L. Davi, A. Dmitrienko, S. Heuser, A.-R. Sadeghi, and B. Shastry, "Practical and lightweight domain isolation on Android," in *Proc. 1st ACM CCS Workshop on Security and Privacy* in Mobile Devices (SPSM'11), ACM, 2011.
- [16] S. Bugiel, S. Heuser, and A.-R. Sadeghi, "Flexible and fine-grained mandatory access control on Android for diverse security and privacy policies," in *Proc. 22nd USENIX Security Symposium* (SEC'13), USENIX Association, 2013.
- [17] A. Moulo, "Android OEM's applications (in)security and backdoors without permission." http://www.quarkslab.com/dl/Android-OEM-applications-insecurity-and-backdoors-without-permission.pdf.

- [18] A. J. Aviv, K. Gibson, E. Mossop, M. Blaze, and J. M. Smith, "Smudge attacks on smartphone touch screens," in *Proc. 4th USENIX Workshop on Offensive Technologies (WOOT 2010)*, USENIX Association, 2010.
- [19] B. Lau, Y. Jang, C. Song, T. Wang, P. H. Chung, and P. Royal, "Mactans: Injecting malware into iOS devices via malicious chargers." https://media.blackhat.com/us-13/ US-13-Lau-Mactans-Injecting-Malware-into-iOS-Devices-via-Malicious-Chargers-WP. pdf, 2013. BlackHat US.
- [20] D. Perez and J. Pico, "A practical attack against gprs/edge/umts/hspa mobile data communications." https://media.blackhat.com/bh-dc-11/Perez-Pico/BlackHat_DC_2011_Perez-Pico_Mobile_Attacks-wp.pdf. BlackHat DC.
- [21] R.-P. Weinmann, "Baseband attacks: Remote exploitation of memory corruptions in cellular protocol stacks," in *Proc. 6th USENIX Workshop on Offensive Technologies (WOOT 2012)*, 2012.
- [22] C. Mulliner, N. Golde, and J.-P. Seifert, "Sms of death: From analyzing to attacking mobile phones on a large scale," in *Proc. 20th USENIX Security Symposium (SEC'11)*, USENIX Association, 2011.
- [23] W. Zhou, Y. Zhou, M. Grace, X. Jiang, and S. Zou, "Fast, scalable detection of "piggybacked" mobile applications," in 3rd ACM conference on Data and application security and privacy (CODASPY'13), pp. 185–196, ACM, 2013.
- [24] L. Wu, M. Grace, Y. Zhou, C. Wu, and X. Jiang, "The impact of vendor customizations on android security," in *Proc. 20th ACM Conference on Computer and Communication Security (CCS '13)*, ACM, 2013.
- [25] X. Zhou, Y. Lee, N. Zhang, M. Naveed, and X. Wang, "The peril of fragmentation: Security hazards in android device driver customizations," in *Proc. 35th IEEE Symposium on Security and Privacy (SP'14)*, IEEE Computer Society, 2014.
- [26] M. Niemietz and J. Schwenk, "Ui redressing attacks on android devices," 2012. BlackHat Asia.
- [27] R. Templeman, Z. Rahman, D. Crandall, and A. Kapadia, "Placeraider: Virtual theft in physical spaces with smartphones," in *Proc. 20th Annual Network & Distributed System Security Symposium (NDSS'13)*, The Internet Society, 2013.
- [28] P. Marquardt, A. Verma, H. Carter, and P. Traynor, "(sp)iphone: decoding vibrations from nearby keyboards using mobile phone accelerometers," in *Proc. 18th ACM Conference on Computer and Communication Security (CCS '11)*, ACM, 2011.
- [29] Z. Wang and A. Stavrou, "Exploiting smart-phone usb connectivity for fun and profit," in 26th Annual Computer Security Applications Conference (ACSAC'10), ACM, 2010.
- [30] Q. A. Chen, Z. Qian, and Z. M. Mao, "Peeking into your app without actually seeing it: Ui state inference and novel android attacks," in *Proc. 23rd USENIX Security Symposium (SEC'14)*, USENIX Association, 2014.
- [31] Y. Michalevsky, D. Boneh, and G. Nakibly, "Gyrophone: Recognizing speech from gyroscope signals," in *Proc. 23rd USENIX Security Symposium (SEC'14)*, USENIX Association, 2014.
- [32] S. Fahl, M. Harbach, M. Oltrogge, T. Muders, and M. Smith, "Hey, you, get off of my clipboard on how usability trumps security in android password managers," in *Financial Cryptography (FC)*, 2013.
- [33] S. Fahl, M. Harbach, T. Muders, L. Baumgärtner, B. Freisleben, and M. Smith, "Why eve and mallory love android: an analysis of android ssl (in)security," in *Proc. 19th ACM Conference on Computer and Communication Security (CCS '12)*, ACM, 2012.
- [34] L. Xing, X. Pan, R. Wang, K. Yuan, and X. Wang, "Upgrading your android, elevating my malware: Privilege escalation through mobile os updating," in *Proc. 35th IEEE Symposium on Security and Privacy (SP'14)*, IEEE Computer Society, 2014.
- [35] S. Fahl, M. Harbach, H. Perl, M. Koetter, and M. Smith, "Rethinking SSL development in an appified world," in *Proc. 20th ACM Conference on Computer and Communication Security (CCS '13)*, ACM, 2013.

- [36] W. Enck, P. Gilbert, B.-G. Chun, L. P. Cox, J. Jung, P. McDaniel, and A. N. Sheth, "Taintdroid: An information-flow tracking system for realtime privacy monitoring on smartphones," in *OSDI'10*, USENIX Association, 2010.
- [37] P. Hornyack, S. Han, J. Jung, S. Schechter, and D. Wetherall, "These aren't the droids you're looking for: Retrofitting Android to protect data from imperious applications," in *Proc. 18th ACM Conference on Computer and Communication Security (CCS '11)*, ACM, 2011.
- [38] M. Backes, S. Gerling, C. Hammer, M. Maffei, and P. von Styp-Rekowsky, "Appguard enforcing user requirements on Android apps," in *TACAS'13*, 2013.