Lecture Notes in Computer Science **9854**

Commenced Publication in 1973
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Research in Attacks, Intrusions, and Defenses

19th International Symposium, RAID 2016
Paris, France, September 19–21, 2016
Proceedings

Springer

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ISSN 0302-9743 ISSN 1611-3349 (electronic)
Lecture Notes in Computer Science
ISBN 978-3-319-45718-5 ISBN 978-3-319-45719-2 (eBook)
DOI 10.1007/978-3-319-45719-2

Library of Congress Control Number: 2016949121

LNCS Sublibrary: SL4 – Security and Cryptology

Printed on acid-free paper

This Springer imprint is published by Springer Nature
The registered company is Springer International Publishing AG Switzerland

Foreword

Welcome to the proceedings of the 19th International Symposium on Research in Attacks, Intrusions, and Defenses (RAID). Since its inception nearly 20 years ago, RAID has established itself as a highly influential venue with a strong focus on intrusion detection and prevention. Over the past four years, the conference has broadened to include a wider spectrum of research in computer and communications security. This year was no exception, and as a result, the conference offered a strong program covering papers in a multitude of important research areas in computer security. RAID 2016 received 85 submissions, 82 of which met the anonymity and formatting guidelines. The total number of submissions was down from the previous year, but the lower number of submissions could be attributed to a number of mitigating factors, most notably, the much earlier submission deadline of April (as opposed to June). From the submitted papers, the Program Committee (PC) selected 21 papers, representing an acceptance rate of 24.7 %. The papers were reviewed using a double-blind reviewing process, ensuring that the reviewers were unaware of the authors or their affiliations until after the selection was finalized. All papers that were on-topic and met the formatting requirements received at least three reviews and the final selection was made during an in-person meeting, co-located with the IEEE Security and Privacy Symposium, in San Jose, California in May. We thank the authors of both accepted and rejected papers for submitting their research to RAID.

Building on the model set forth last year, the bulk of the meeting was spent discussing papers where the reviews from the PC were not in agreement. The task at hand was not only to identify those papers that were ready for publication, but to also identify promising work that could be improved before the camera-ready deadline. To arrive at the best possible program, the vast majority of accepted papers were assigned a shepherd to ensure that the camera-ready version addressed all the reviewers' concerns and suggested improvements. In many cases, these papers received several rounds of feedback by their shepherds.

It is prudent to note that in selecting PC members, we strived to keep a balance by including experienced PC members while also introducing new talent to the RAID conference. Our goal was to form a PC that included researchers who had not served on the RAID PC more than once in the past three years, and also had a proven track record in terms of top-tier publications. With these limitations in mind, we also made a special effort to extend an invitation to PC members of the 2015 committee who had shown exceptional service. Our hope was that in infusing new talent with more seasoned PC members who had a tendency to offer positive, constructive criticism in the past, the younger researchers would gain invaluable experience by serving on the PC, and more importantly, could help shape the direction of future RAID conferences.

It goes without saying that we are indebted to the entire RAID 2016 PC for selflessly dedicating their time to the process of selecting papers and providing detailed feedback to authors. Serving as a PC member is no easy task, and we believe the recognition for

these efforts is often overlooked. For that reason, and to encourage PC members to provide thorough, constructive, feedback to the authors, we adopted the idea introduced last year of awarding an *Outstanding Reviewer* prize. To help select the winner, each PC member was encouraged to rate the reviews of other members, especially on papers they reviewed in common. Additionally, the chairs provided input regarding the set of candidates who went beyond the call of duty, for example, by taking on a higher review load than others, submitting all their reviews on time, and working diligently to find the diamonds in the rough — even arguing for such papers in the face of significant opposition from other PC members! Many reviewers received positive ratings (a testament to the high quality of service we had on this year's PC) and after much deliberation, we are pleased to announce that the award goes to Roberto Perdisci (from the University of Georgia).

We are grateful to the general chair, Joaquin Garcia-Alfaro, and his assembled team for ensuring that the conference ran smoothly. Special thanks is also owed to Gregory Blanc and Françoise Abad for handling the local arrangements, to Christophe Kiennert for the job with the website, and to Yazan Boshmaf for widely publicizing the call for participation and related notices. We also express our gratitude to Murray Anderegg, for making sure that the submission server was almost always available, even during the numerous North Carolina thunderstorms that temporarily knocked out power. We are also indebted to Hervé Debar and Manos Antonakakis for their tireless efforts in securing sponsorship for RAID 2016. Indeed, an event of this caliber would be difficult to pull off were it not for the generous support of our sponsors: Sogeti, Comcast, Neustar, Nokia, Orange Labs, ANSSI, and IRT System X. We greatly appreciate their help and their continued commitment to a healthy research community in security.

We hope that all the participants enjoyed the conference as much as we enjoyed putting the event together.

September 2016

Fabian Monrose
Marc Dacier

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