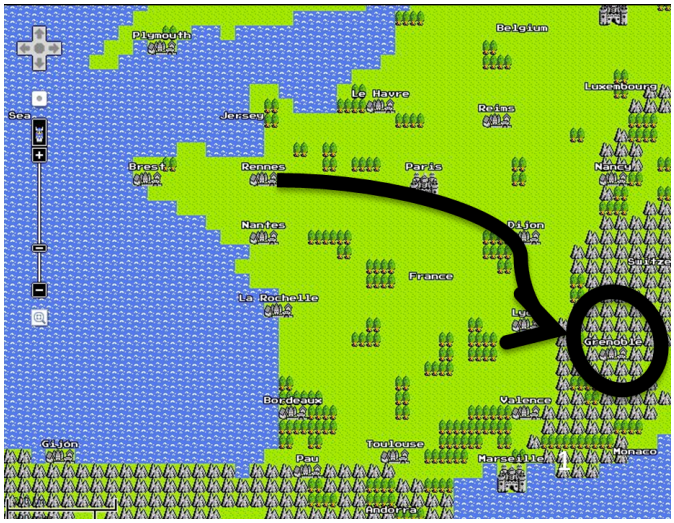
GreHack 2013
PROCEEDINGS

"P*wn me I*m famous"

>> November, 15, 2013

>> Grenoble, France



1 Introduction

1.1 Epilog – Welcome from the PC Chairs

November 15, 2013, Grenoble, France.

Dear GreHackers,

These proceedings record the papers presented at the second GreHack 2013, held in the french capital of skiing: Grenoble.

GreHack aims at bringing together researchers and practitioners who work on theory, techniques, technologies, tools and applications that concern all aspects of computer science security. It focuses on offensive security.

For this second edition, the conference has a range of contributions by distinguished speakers both from academia and industry. Besides its formal session, the conference included three invited talks.

Reviewing and selection were undertaken electronically. We received 32 submissions that have been peer-reviewed at least 3 times by the program committee. Finally, only 9 are presented at GreHack 2013 (acceptance rate: 28.1%). All papers will be indexed by DBLP. 3 outstanding papers have been selected for a publication in the Springer Journal of Computer Virology and Hacking Techniques.

The quality of submissions was high. The reviews of the program committee were detailed and several authors thanked the PC for their usefulness. The number of requests for attending was more important than expected. Thus 40 persons were not able to get a ticket for the conference, and 50 were not able to get a ticket for the CTF. This is due to a limited number of seats. The conference has more than 235 attendees, and the CTF more than 140.

During the night, a Capture The Flag contest, similar in its form to DefCon, PhDays & co takes place. It is organized by SecurIMAG, the Ethical Hacking club of Ensimag.

This event would not exist without outstanding security researchers, helpful sponsors, and such an extraordinary organizing team (mainly composed of students!) who invested much of their free time. Please take this opportunity to chat with them, as several will soon be looking for an internship, and others a job quite soon!

To all GreHack readers and audience, we wish a pleasant stay and a fertile inspiration!

Fabien Duchène [1]

[1] @fabien_duchene

1.2 Awards

- **Outstanding Reviewer**:
  - Manuel Egele `http://www.iseclab.org/people/pizzaman/`
  - Mario Heiderich `http://heideri.ch/`
  - Jean-Philippe Aumasson `https://131002.net/`

1.3 Organizing Committee

They :

- handle the logistic of the conference
- handle the logistic of the CTF
- set-up the network environment for the CTF
- wrote the challenges for the CTF

Many organizers are members of the SecurIMAG ethical hacking team, an Ensimag Applied Mathematics and Computer Science Engineering University.

Figure 1: Logo of the SecurIMAG hacking team

`http://ensiwiki.ensimag.fr/index.php/Portail:SecurIMAG_Ensimag_IT_security_club`

- Fabien Duchène, Guillaume Jeanne, François Desplanques
- Franck De Goer, Florent Autreau, Quentin Bourgeois, Tristan Braud, Cyril Lorenzetto, Adrien Moutard, Arnaud Maillet, Phil, etc.

1.4 Special Thanks

Many persons and entities did provide us additional help:

- CEA-DAM, Kudelski Security, Oracle, Sogeti High Tech, HP, Deloitte, Mataru, Nsigma for their financial support
- For helping us:
  - Pascal Malterre (CEA)
  - Jean-Philippe Aumasson (Kudelski Security)
  - Maxime Walter, Marc Ayadi, Ilyas Djafri (Deloitte)
  - Bruno Hareng, Christophe Leclercq, Vincent Planat (HP)
  - Florent Autreau (MATARU, UJF)
- Philippe-Elbaz Vincent (UJF, IF)
- Yves Denneulin (LIG, Ensimag)
- Mirella Bello (Ensimag), Simon Nieuviarts (Ensimag)
- Valérie Fréchard (ED-Diamonds)
- Ensimag, LIG for their technical support
- Gilles Thieblemont (Ensimag) , Emanuelle Bertrand (Ensimag)
- and to all of those who probably prefer their names not to appear in an electronic document (James Bond over-dimensioned ego style) etc.

1.5 In Memoriam Cédric “SID” Blancher

In memorandum to Cédric “SID” Blancher. We offer our deepest condolences and sympathy to Cedric “SID” Blancher’s family and friends. SID was a truly inspiring hacker.

Figure 2: Cédric “SID” Blancher (Feb. 27, 1976 – Nov. 10, 2013)

1.6 Programme Committee

Each paper has been reviewed at least 3 times. The following outstanding security researchers have been members of the GREHACK 2013 programme committee and reviewed submissions:

Dan Alloun	(Intel, Israel)
Ruo Ando	(NICT, Japan)
Jean-Philippe Aumasson	(Kudelski Security, Switzerland)
Sofia Bekrar	(VUPEN Security, France)
Elie Bursztein	(Google, US)
Fabrice Desclaux aka Serpilliere	(CEA-DAM, France)
Adam Doupe	(UCSB, US)
Fabien Duchene	(LIG, France) PC Chair
Chris Eng	(Veracode, US)
Peter Van Eeckhoutte aka corelanc0d3r	(Corelan, Belgium)
Manuel Egele	(CMU, US)
Philippe Elbaz-Vincent	(UJF, France)
Eric Filiol	(ESIEA, France)
The Grugq	(Thailand)
Mario Heiderich	(Ruhr University Bochum, Germany)
Pascal Lafourcade	(VERIMAG, France)
Cedric Lauradoux	(INRIA, France)
Pascal Malterre	(CEA-DAM, France)
Laurent Mounier	(VERIMAG, France)
Stefano Di Paola	(Minded Security, Italia)
Marie-Laure Potet	(VERIMAG, France)
Paul Rascagneres aka r00tBSD	(Malware.Lu, Luxembourg)
Sanjay Rawat	(India)
Raphael Rigo	(ANSSI, France)
Nicolas Ruff	(EADS Innovation Works, France)
Steven Seeley aka Mr_Me	(Immunity, US)
Fermin J. Serna	(Google, US)
Nikita Tarakanov	(Russia)

1.7 Partners

We warmly thank them for their their financial and logistic support that was of great help!

64 bits sponsors

32 bits sponsors

16 bits sponsors

Contents