

18<sup>th</sup>

# USENIX SECURITY SYMPOSIUM

Montreal, Canada August 10–14, 2009

Join us for a 5-day tutorial and refereed technical program for security professionals, system and network administrators, and researchers.

## 2 Days of In-Depth Tutorials Taught by Industry Experts, Including:

- Frank Adelstein & Golden G. Richard III on Learning Reverse Engineering: A Highly Immersive Approach (2-Day Class)
- Patrick McDaniel & William Enck on Building Secure Android Applications
- Phil Cox on Securing Citrix XenServer and VMware ESX Server

## Keynote Address

Rich Cannings and David Bort of the Google Android Project on "Android: Securing a Mobile Platform from the Ground Up"

## Technical Program

26 refereed papers presenting new research in a variety of subject areas, including malware detection and protection, securing Web apps, and applied cryptography

## Invited Talks by Experts, Including:

- Jeremiah Grossman on "Top Ten Web Hacking Techniques of 2008: 'What's possible, not probable'"
- Alexander Sotirov on "Modern Exploitation and Memory Protection Bypasses"
- Vern Paxson on "How the Pursuit of Truth Led Me to Selling Viagra"

## Co-located Workshops:

### EVT/WOTE '09

2009 Electronic Voting Technology Workshop/ Workshop on Trustworthy Elections  
August 10–11, 2009

### CSET '09

2nd Workshop on Cyber Security Experimentation and Test  
August 10, 2009

### WOOT '09

3rd USENIX Workshop on Offensive Technologies  
August 10, 2009

### HotSec '09

4th USENIX Workshop on Hot Topics in Security  
August 11, 2009

### MetriCon 4.0

Fourth Workshop on Security Metrics  
August 11, 2009



Register by July 20, 2009, and save!

[www.usenix.org/sec09](http://www.usenix.org/sec09)

## Training Program

Monday–Tuesday, August 10–11, 2009

Monday, August 10, 2009

**M1 Learning Reverse Engineering: A Highly Immersive Approach, Day 1** **NEW!**  
Frank Adelstein, ATC-NY; Golden G. Richard III, University of New Orleans

**Take back to work:** A solid foundation on which to build additional skills in reverse engineering.

**M2 Building Secure Android Applications** **NEW!**  
Patrick McDaniel and William Enck, Pennsylvania State University

**Take back to work:** How to start developing your own Android applications, with an acute understanding of potential dangers.

Tuesday, August 11, 2009

**T1 Learning Reverse Engineering: A Highly Immersive Approach, Day 2** **NEW!**  
Frank Adelstein, ATC-NY; Golden G. Richard III, University of New Orleans

**Take back to work:** A solid foundation on which to build additional skills in reverse engineering.

**T2 Securing Citrix XenServer and VMware ESX Server** **NEW!**  
Phil Cox, SystemExperts Corporation

**Take back to work:** A familiarity with current virtualization and popular technical implementations of it, as well as a working understanding of how to secure VMWare ESXi 3.5 server and a detailed understanding of securing Citrix XenServer.

## Technical Program

Wednesday–Friday, August 12–14, 2009

Wednesday, August 12, 2009

9:00 a.m.–10:30 a.m.

**Keynote Address: Android: Securing a Mobile Platform from the Ground Up**

Rich Cannings, *Android Security Leader, Google*, and David Bort, *Software Engineer, Android Open Source Project, Google*

11:00 a.m.–12:30 p.m.

**Refereed Papers: Attacks on Privacy**

**Invited Talk: The Building Security in Maturity Model (BSIMM)**  
Gary McGraw, *CTO, Cigital, Inc.*, and Brian Chess, *Chief Scientist, Fortify Software*

2:00 p.m.–3:30 p.m.

**Refereed Papers: Memory Safety**

**Invited Talk: Toward a New Legal Framework for Cybersecurity**  
Deirdre K. Mulligan, *School of Information, University of California, Berkeley*

4:00 p.m.–5:30 p.m.

**Refereed Papers: Network Security**

**Invited Talk: Modern Exploitation and Memory Protection Bypasses**  
Alexander Sotirov, *Independent Security Researcher*

6:00 p.m.–7:30 p.m. Symposium Reception

Thursday, August 13, 2009

9:00 a.m.–10:30 a.m.

**Refereed Papers: JavaScript Security**

**Invited Talk: How the Pursuit of Truth Led Me to Selling Viagra**  
Vern Paxson, *EECS, University of California, Berkeley, and Senior Scientist, International Computer Science Institute*

11:00 a.m.–12:30 p.m.

**Refereed Papers: Radio**

**Invited Talk: TBA**

Please see [www.usenix.org/security09/tech](http://www.usenix.org/security09/tech) for updates.

Thursday, August 13, 2009 (continued)

2:00 p.m.–3:30 p.m.

**Refereed Papers: Securing Web Apps**

**Invited Talk: Compression, Correction, Confidentiality, and Comprehension: A Modern Look at Commercial Telegraph Codes**  
Steven M. Bellovin, *Professor of Computer Science, Columbia University*

4:00 p.m.–5:30 p.m.

**Refereed Papers: Applied Crypto**

**Invited Talk: Top Ten Web Hacking Techniques of 2008: "What's possible, not probable"**  
Jeremiah Grossman, *Founder and CTO, WhiteHat Security*

6:00 p.m.–7:30 p.m.

Poster Session

Friday, August 14, 2009

9:00 a.m.–10:30 a.m.

**Refereed Papers: Malware Detection and Protection**

**Invited Talk: Hash Functions and Their Many Uses in Cryptography**  
Shai Halevi, *IBM Research*

11:00 a.m.–12:30 p.m.

**Refereed Papers: Browser Security**

**Invited Talk: DNS Security: Lessons Learned and The Road Ahead**  
David Dagon, *Georgia Institute of Technology*

2:00 p.m.–3:30 p.m.

Work-in-Progress Reports (WiPs)

**For complete program information and to register, see [www.usenix.org/sec09](http://www.usenix.org/sec09)**