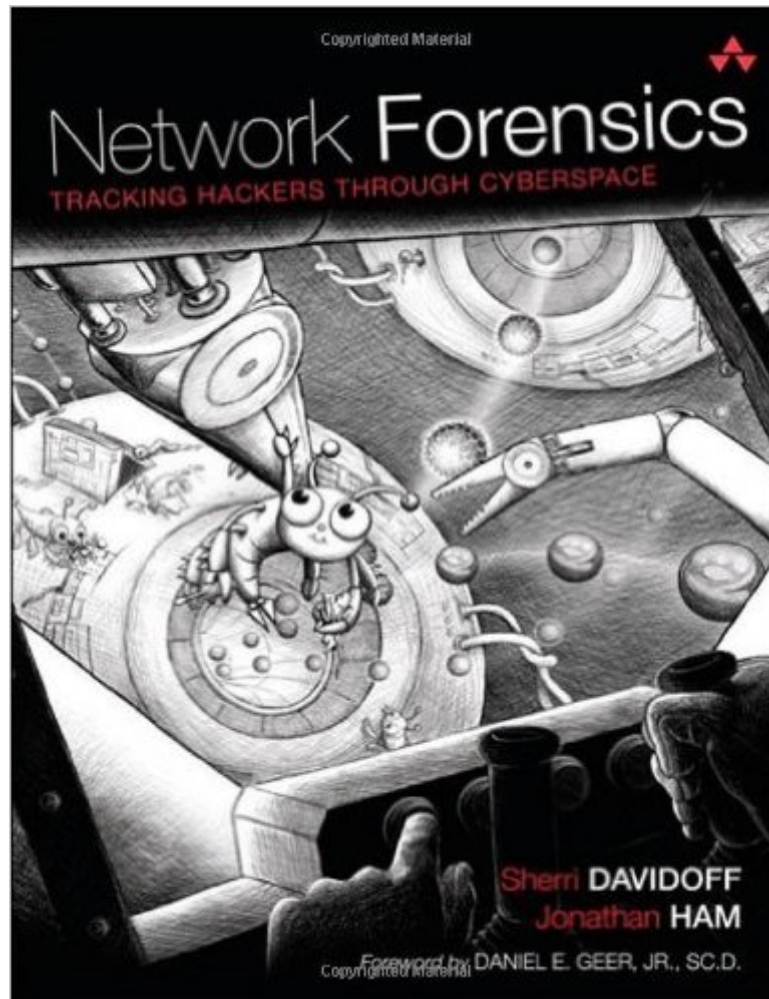


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# Network Forensics: Tracking Hackers Through Cyberspace



## Synopsis

“This is a must-have work for anybody in information security, digital forensics, or involved with incident handling. As we move away from traditional disk-based analysis into the interconnectivity of the cloud, Sherri and Jonathan have created a framework and roadmap that will act as a seminal work in this developing field.” — Dr. Craig S. Wright (GSE), Asia Pacific Director at Global Institute for Cyber Security + Research. “It’s like a symphony meeting an encyclopedia meeting a spy novel.” — Michael Ford, Corero Network Security “On the Internet, every action leaves a mark—in routers, firewalls, web proxies, and within network traffic itself. When a hacker breaks into a bank, or an insider smuggles secrets to a competitor, evidence of the crime is always left behind. Learn to recognize hackers’ tracks and uncover network-based evidence in *Network Forensics: Tracking Hackers through Cyberspace*. Carve suspicious email attachments from packet captures. Use flow records to track an intruder as he pivots through the network. Analyze a real-world wireless encryption-cracking attack (and then crack the key yourself). Reconstruct a suspect’s web surfing history—and cached web pages, too—from a web proxy. Uncover DNS-tunneled traffic. Dissect the Operation Aurora exploit, caught on the wire. Throughout the text, step-by-step case studies guide you through the analysis of network-based evidence. You can download the evidence files from the authors’ web site ([imgsecurity.com](http://imgsecurity.com)), and follow along to gain hands-on experience. Hackers leave footprints all across the Internet. Can you find their tracks and solve the case? Pick up *Network Forensics* and find out.”

## Book Information

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## Customer Reviews

With a title like *Network Forensics: Tracking Hackers through Cyberspace*, the book at first sounds like a cheesy novel. But by page 25, you will quickly see this is the real thing. By the time you hit the last page, you will have read the collective wisdom of two of the smartest minds in the space. Author's Jonathan Ham and Sherri Davidoff are both SANS Institute instructors, and bring significant real-world experience to every chapter. Martin McKeay has an interview (albeit dated) with the authors on his web site here about their SANS course on network forensics. In 12 densely written chapters at just over 500 pages, the book covers nearly every aspect within network and digital forensics. While the book *Digital Evidence and Computer Crime: Forensic Science, Computers and the Internet* provides a comprehensive overview of the topic; *Network Forensics: Tracking Hackers through Cyberspace* focuses at the packet level. Part 2, which is about a third of the book, is spent on traffic analysis, with all-embracing coverage of concepts and topics such as statistical flow analysis, wireless traffic capture and analysis, NIDS detection and analysis, packet logging and more. Readers should be very comfortable with Wireshark packet capture output, which the book extensively references. Those not quite comfortable with packet capture analysis will likely find this book way over their head. Part 3 focuses on network devices and logging for all types of network devices. Detailed logging aspects for switches, routers and firewalls are dealt with. The last 2 chapters deal with advanced topics such as network tunneling and malware forensics.

Any book, child story or technical manual that has a forward written by Dr. Daniel Geer is going to be amazing. Not that I recommend Dr. Geer start writing children's literature, it's just he is an incredible mind for his time. That was the first thing that caught my attention about the book. I am quite excited about the book because it isn't your typical forensic book. This masterpiece goes well beyond anything I've read in a long time. Warning: *Network Forensics* is not for entry level readers or even intermediate. This is hardcore PhD level material. I was surprised that the book cover says "Tracking Hackers Through Cyberspace". First off, there isn't anything wrong with being a hacker. There is something wrong with conducting criminal activity and those are two completely different things. If the book would have posted "Tracking Criminals Through Cyberspace", I might have only cringed a little bit. My second gripe is about the word "Cyber". Come on folks, it is "digital" not "cyber". I'm sure the authors didn't do this; it was probably the editor's fault. They have to sell books with sexy names so I don't directly blame the writers. The entire book is an in-depth technical manual and how-to guide for network forensics. The difference between regular digital forensics and network forensics is that evidence is much

harder to locate and more volatile across a network than data storage devices. Husband and wife team Sherri and Jonathan dive deep, deep into hidden corners of switches and hubs to show you where evidence resides. The text is clearly written and done so in a straight forward manner. The content is tough though. Don't expect an easy read. You will need a sharp mind to completely understand the importance of this material, as it's presented.

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