



Practical Packet Analysis: Using Wireshark to Solve Real-World Network Problems

By Chris Sanders

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It's easy to capture packets with Wireshark, the world's most popular network sniffer, whether off the wire or from the air. But how do you use those packets to understand what's happening on your network?

With an expanded discussion of network protocols and 45 completely new scenarios, this extensively revised second edition of the best-selling *Practical Packet Analysis* will teach you how to make sense of your PCAP data. You'll find new sections on troubleshooting slow networks and packet analysis for security to help you better understand how modern exploits and malware behave at the packet level. Add to this a thorough introduction to the TCP/IP network stack and you're on your way to packet analysis proficiency.

Learn how to:

- Use packet analysis to identify and resolve common network problems like loss of connectivity, DNS issues, sluggish speeds, and malware infections
- Build customized capture and display filters
- Monitor your network in real-time and tap live network communications
- Graph traffic patterns to visualize the data flowing across your network
- Use advanced Wireshark features to understand confusing captures
- Build statistics and reports to help you better explain technical network information to non-techies

Practical Packet Analysis is a must for any network technician, administrator, or engineer. Stop guessing and start troubleshooting the problems on your network.

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Review

"An essential book if you are responsible for network administration on any level."

- Linux Pro Magazine

"A wonderful, simple to use and well laid out guide."

- Arsgeek.com

"If you need to get the basics of packet analysis down pat, this is a very good place to start."

- Stateofsecurity.com

About the Author

Chris Sanders is an information security consultant, author, and researcher originally from Mayfield, Kentucky. That's thirty miles southwest of a little town called Possum Trot, forty miles southeast of a hole in the wall named Monkey's Eyebrow, and just north of a bend in the road that really is named Podunk.

Chris is a Senior Security Analyst with InGuardians. He has as extensive experience supporting multiple government and military agencies, as well as several Fortune 500 companies. In multiple roles with the US Department of Defense, Chris significantly helped to further to role of the Computer Network Defense Service Provider (CNDSP) model, and helped to create several NSM and intelligence tools currently being used to defend the interests of the nation.

Chris has authored several books and articles, including the international best seller "Practical Packet Analysis" form No Starch Press, currently in its second edition. Chris currently holds several industry certifications, including the SANS GSE and CISSP distinctions.

In 2008, Chris founded the Rural Technology Fund. The RTF is a 501(c)(3) non-profit organization designed to provide scholarship opportunities to students from rural areas pursuing careers in computer technology. The organization also promotes technology advocacy in rural areas through various support programs. The RTF has provided thousands of dollars in scholarships and support to rural students.

When Chris isn't buried knee-deep in packets, he enjoys watching University of Kentucky Wildcat basketball, being a BBQ Pitmaster, amateur drone building, and spending time at the beach. Chris currently resides in Charleston, South Carolina with his wife Ellen.

Chris blogs at appliednsm.com and chrissanders.org. He is on Twitter as @chrissanders88.

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