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Attacking Network Protocols

James Forshaw

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Attacking Network Protocols is a deep-dive into network vulnerability discovery from James Forshaw, Microsoft's top bug hunter. This comprehensive guide looks at networking from an attacker's perspective to help you find, exploit, and ultimately protect vulnerabilities.

Part I starts with a rundown of networking basics and traffic capture, as it builds a foundation for analyzing a network. Part II moves on to protocol analysis, both static and dynamic; you'll learn about common protocol structures, cryptography, and protocol security, and how to reverse engineer code with IDA Pro, ILSpy, and Javasnoop. Part III focuses on finding and exploiting vulnerabilities, including an overview of common bug classes, fuzzing, debugging, exhaustion attacks, and how to develop custom tools. Forshaw ends with an overview of the best tools for analyzing and exploiting networks. By the book's end, you'll have a deep understanding of how to analyze network communication and where to look for vulnerabilities. You'll learn how to:

- Capture, manipulate, and spoof packets both passively and on the wire
- Create your own capture framework
- Reverse engineer code, brute force passwords, and decrypt traffic
- Exploit vulnerabilities with denial-of-service attacks, SQL injections, and memory corruptions
- Use protocol capture tools like IDA Pro, Wireshark, and CANAPE
- Strengthen your exploits by rerouting network traffic, exploiting compression, and controlling data flow

Attacking Network Protocols is a must-have for any penetration tester, bug hunter, or developer looking to exploit and secure network vulnerabilities.

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