



Hack the Stack: Using Snort and Ethereal to Master The 8 Layers of An Insecure Network

By Michael Gregg; Stephen Watkins; George Mays; Chris Ries; Ronald M. Bandes; Brandon Franklin

Syngress, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: 1 Extending OSI to Network Security (20 pp) 2 - Layer 1 Physical layer (30 pp) Introduction Perimeter security Facility security Device security Identification and authentication Biometrics Attacking physical security Lock picks Wiretapping and Scanners Hardware hacking Layer 1 security project Building a one-way data reception cable Summary 3 - Layer 2 - Data Link layer (40 pp) Introduction The Ethernet Frame structure Understanding MAC addressing Understanding PPP and SLIP How a protocol analyzer works Attacking the Data Link Layer Passive versus active sniffing Sniffing Wireless (Wireless basics) Wireless vulnerabilities Defending the Data Link Layer Defenses against active sniffing Detecting promiscuous devices Security in switches Layer 2 security project Using Auditor to crack WEP Summary 4 Layer 3 Network layer (40 pp) Introduction The IP packet structure Attacking the network layer IP Attacks Fragmentation Analyzing an IPID scan The ICMP packet structure Attacking ICMP Smurf Redirects Analyzing the ARP Process Attacking ARP ARP Poisoning Defending the Network Layer Securing IP, ICMP, and ARP Layer 3 security project Fragmenting traffic to bypass an IDS Summary 5 Layer 4 Transport layer (40 pp) Introduction The TCP...



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