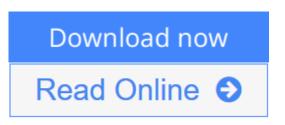# Building Internet Firewalls: Internet and Web Security

By Elizabeth D. Zwicky, Simon Cooper, D. Brent Chapman

Building Internet Firewalls: Internet and Web Security By Elizabeth D. Zwicky, Simon Cooper, D. Brent Chapman

In the five years since the first edition of this classic book was published, Internet use has exploded. The commercial world has rushed headlong into doing business on the Web, often without integrating sound security technologies and policies into their products and methods. The security risks--and the need to protect both business and personal data--have never been greater. We've updated *Building Internet Firewalls* to address these newer risks.

What kinds of security threats does the Internet pose? Some, like password attacks and the exploiting of known security holes, have been around since the early days of networking. And others, like the distributed denial of service attacks that crippled Yahoo, E-Bay, and other major e-commerce sites in early 2000, are in current headlines.

Firewalls, critical components of today's computer networks, effectively protect a system from most Internet security threats. They keep damage on one part of the network--such as eavesdropping, a worm program, or file damage--from spreading to the rest of the network. Without firewalls, network security problems can rage out of control, dragging more and more systems down.

Like the bestselling and highly respected first edition, *Building Internet Firewalls,* 2nd Edition, is a practical and detailed step-by-step guide to designing and installing firewalls and configuring Internet services to work with a firewall. Much expanded to include Linux and Windows coverage, the second edition describes:

- Firewall technologies: packet filtering, proxying, network address translation, virtual private networks
- Architectures such as screening routers, dual-homed hosts, screened hosts, screened subnets, perimeter networks, internal firewalls
- Issues involved in a variety of new Internet services and protocols through a firewall
- Email and News

- ○ Web services and scripting languages (e.g., HTTP, Java, JavaScript, ActiveX, RealAudio, RealVideo)
- ○ File transfer and sharing services such as NFS, Samba
- ○ Remote access services such as Telnet, the BSD "r" commands, SSH, BackOrifice 2000
- ○ Real-time conferencing services such as ICQ and talk
- ○ Naming and directory services (e.g., DNS, NetBT, the Windows Browser)
- ○ Authentication and auditing services (e.g., PAM, Kerberos, RADIUS);
- ○ Administrative services (e.g., syslog, SNMP, SMS, RIP and other routing protocols, and ping and other network diagnostics)
- ○ Intermediary protocols (e.g., RPC, SMB, CORBA, IIOP)
- ○ Database protocols (e.g., ODBC, JDBC, and protocols for Oracle, Sybase, and Microsoft SQL Server)
- The book's complete list of resources includes the location of many publicly available firewall construction tools.

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Editorial Review

Amazon.com Review
In the vast and varied universe of computer books, only a few stand out as the best in their subject areas. *Building Internet Firewalls* is one of those. It's deep, yet carefully focused, so that almost anything you might want to know about firewall strategies for protecting networks is here. In addition, there's lots of information on the reasons that we build firewalls in the first place, which is to say the security risks that come with Internet connectivity. You'll learn a great deal about Internet services and the protocols that provide them as you follow this book's recommendations for stifling attacks.

If there's a shortcoming to this book, it's its lack of coverage of the turnkey firewall products that are becoming popular among home and small-office users. Emphasis here is on more complicated network defenses that require careful design and setup--both design and implementation are the order of the day here. The authors carefully enumerate the threats they see in various situations, go into some detail on how those threats manifest themselves, and explain what configuration changes you can make to your perimeter defenses to repulse those threats. Plenty of illustrations make points about good and bad security strategies (you want to put the routers *here* and *here*, not *here* or *here*). You'll learn a lot by reading this book from cover to cover, no matter how much experience you have. *--David Wall*

Topics covered: Means of protecting private networks from external security threats. The authors go into detail on attackers' means of exploiting security holes in common Internet services, and show how to plug those holes or at least limit the damage that can be done through them. With coverage of Unix, Linux, and Windows NT, the authors detail their philosophies of firewall design and general security policy.

About the Author

Simon Cooper is a computer professional currently working in Silicon Valley. He has worked in different computer-related fields ranging from hardware through operating systems and device drivers to application software and systems support in both commercial and educational environments. He has an interest in the activities of the Internet Engineering Task Force (IETF) and USENIX, is a member of the British Computer Conservation Society, and is a founding member of the Computer Museum History Center. Simon has released a small number of his own open source programs and has contributed time and code to the XFree86 project. In his spare time, Simon likes to play ice hockey, solve puzzles of a mathematical nature, and tinker with Linux.

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