



# Fundamentals of Network Security

By Eric Maiwald

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This hands-on, project-based approach to the fundamentals of network security concepts and skills helps students understand security best practices, laws, and standards that will enable them to build a complete security program. This book introduces a strong foundation that includes security policy, planning, and development of good processes. A step-by-step design teaches students security implementation using recent advances in security tools, such as firewalls, VPN's, encryption, techniques, and intrusion detection devises. Platform-specific defenses are revealed for the desktop, Windows networks, UNIX, Internet, and wireless systems. Laws and government regulation are also covered, including the Patriot Act, homeland security initiatives, and special information on relevant state laws.

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### Editorial Review

From the Back Cover

Essential IT Skills for On-the-Job Success

*Fundamentals of Network Security* is a comprehensive introduction to computer and network security. It provides a fundamental understanding of security best practices, laws, and standards that will enable you to build a complete security program. It includes the most recent advances in security tools and platform-specific defenses.

Inside this book, you will learn to:

- Assess the threats, vulnerabilities, and risks to a network
- Defend against access, modification, denial-of-service, and repudiation attacks
- Identify a variety of hacking methods, including sniffing, spoofing, viruses, Trojan horses, and worms
- Apply new federal and state laws, including the Patriot Act, HIPAA, and Graham Leach-Bliley
- Configure wireless security technologies
- Create policy, manage risk, and implement an information security program
- Develop a backup and recovery plan
- Apply security technologies such as firewalls, VPNs, encryption methods, and intrusion detection systems
- Implement platform-specific security measures for computer desktops, UNIX, and Windows NT/2000/2003
- Implement security measures for e-commerce

Key features:

- Critical Skills Identified in Each Chapter
- Easy-to-Understand Diagrams and Figures
- Blueprints That Illustrate Key Security Concepts for Quick Reference
- Detailed Step-by-Step Projects
- Progress Check Exercises
- Ask the Expert Sidebars
- Helpful Notes, Tips, and Cautions
- Chapter Summaries and Key Term Lists
- End-of-Chapter Quizzes and Lab Projects

About the Author

Eric Maiwald is an Analyst with the Burton Group ([www.burtongroup.com](http://www.burtongroup.com)), where he focuses on enterprise security infrastructure technologies. Mr. Maiwald has over seventeen years of experience in information security, where he has worked as a security officer and consultant for large financial institutions, healthcare providers, services firms, and manufacturers. He has extensive experience in the security field performing assessments, policy development, architecture design, and product implementations. Mr. Maiwald holds a Bachelor of Science degree in Electrical Engineering from Rensselaer Polytechnic Institute and a Master's in Electrical Engineering from Stevens Institute of Technology and is a Certified Information Systems Security Professional. Mr. Maiwald is a named inventor on patent numbers 577,209, "Apparatus and Method for Providing Multi-level Security for Communications among Computers and Terminals on a Network";

5.872.847, "Using Trusted Associations to Establish Trust in a Computer Network"; 5,940,591, "Apparatus and Method for Providing Network Security"; and 6,212.636, "Method for Establishing Trust in a Computer Network via Association." Mr. Maiwald is a regular presenter at a number of well-known security conferences. He has also written Network Security: A Beginner's Guide, Security Planning and Disaster Recovery (with William Sieglein), and Fundamentals of Network Security, all published by McGraw-Hill, and is a contributing author for Hacking Linux Exposed and Hacker's Challenge, also published by McGraw-Hill.

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