# DNS Security Management

**Michael Dooley, Timothy Rooney**

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## DESCRIPTION

An advanced Domain Name System (DNS) security resource that explores the operation of DNS, its vulnerabilities, basic security approaches, and mitigation strategies

*DNS Security Management* offers an overall role-based security approach and discusses the various threats to the Domain Name Systems (DNS). This vital resource is filled with proven strategies for detecting and mitigating these all too frequent threats. The authors—noted experts on the topic—offer an introduction to the role of DNS and explore the operation of DNS. They cover a myriad of DNS vulnerabilities and include preventative strategies that can be implemented.

Comprehensive in scope, the text shows how to secure DNS resolution with the Domain Name System Security Extensions (DNSSEC). In addition, the text includes discussions on security applications facility by DNS, such as anti-spam, SPF, DANE and related CERT/SSHFP records. This important resource:

- Presents security approaches for the various types of DNS deployments by role (e.g., recursive vs. authoritative)
- Discusses DNS resolvers including host access protections, DHCP configurations and DNS recursive server IPs
- Examines DNS data collection, data analytics, and detection strategies
With cyber attacks ever on the rise worldwide, *DNS Security Management* offers network engineers a much-needed resource that provides a clear understanding of the threats to networks in order to mitigate the risks and assess the strategies to defend against threats.

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**ABOUT THE AUTHOR**

**Michael Dooley** is responsible for overall operations of the BT Diamond IP division. Mr. Dooley has more than 20 years of experience managing and developing large scale software products and has contributed significantly to the evolution of Internet technologies, particularly related to IP addressing, DHCP and DNS. In 2013 he co-authored the Wiley-IEEE Press title IPv6 Deployment and Management.


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