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Autore	Dostalek Libor
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Nota di contenuto	Cover; Table of Contents; Preface; What This Book Covers; What You Need for This Book; Conventions; Reader Feedback; Customer Support; Errata; Questions; Chapter 1: Domain Name System; 1.1 Domains and Subdomains; 1.2 Name Syntax; 1.3 Reverse Domains; 1.4 Domain 0.0.127.in-addr.arpa; 1.5 Zone; 1.5.1 Special Zones; 1.6 Reserved Domains and Pseudodomains; 1.7 Queries (Translations); 1.7.1 Round Robin; 1.8 Resolvers; 1.8.1 Resolver Configuration in UNIX; 1.8.2 Resolver Configuration in Windows; 1.9 Name Server; 1.10 Forwarder Servers; Chapter 2: DNS Protocol; 2.1 Resource Records 2.2 DNS Protocol2.3 DNS Query; 2.3.1 DNS Query Packet Format; 2.3.2 DNS Query Packet Header; 2.3.3 Question Section; 2.3.4 The Answer Section, Authoritative Servers, and Additional Information; 2.3.5 Compression; 2.3.6 Inverse Query; 2.3.7 Methods of RR Transfer via a DNS Packet; 2.3.8 Communication Examples; Chapter 3: DNS Extension; 3.1 DNS Update; 3.1.1 Header Section; 3.1.2 Zone Section; 3.1.3 Prerequisite Section; 3.1.4 Update Section; 3.1.5 Additional Data Section; 3.1.6 Journal File; 3.1.7 Notes; 3.2 DNS Notify; 3.2.1 Notify Message; 3.3 Incremental Zone Transfer; 3.3.1 Request Format

3.3.2 Reply Format; 3.3.3 Purging; 3.3.4 Examples from RFC 1995; 3.4 Negative Caching (DNS NCACHE); 3.4.1 How Long are Negative Answers Stored in Memory?; 3.4.2 The MINIMUM Field in an SOA Record; 3.4.3 Saving Negative Reply Rules; 3.5 DNS IP version 6 Extension; 3.5.1 AAAA Records; 3.5.2 A6 Records; 3.5.3 Reverse Domains; 3.5.4 DNAME Records; 3.6 DNS Security Protocols; 3.6.1 DNSsec; 3.6.2 KEY Record; 3.6.3 SIG Record; 3.6.4 NXT Record; 3.6.5 Zone Signature; 3.6.6 Display Data; 3.6.7 DNS Protocol; 3.7 TSIG; 3.7.1 TKEY; 3.8 Saving Certificates to DNS; Chapter 4: Name Server Implementation 4.1 DNS Database; 4.2 RR Format; 4.2.1 SOA Records; 4.2.2 A Records; 4.2.3 CNAME Records; 4.2.4 HINFO and TXT Records; 4.2.5 NS Records; 4.2.6 MX Records; 4.2.7 PTR Records; 4.2.8 SRV Records; 4.2.9 ORIGIN; 4.2.10 INCLUDE; 4.2.11 Asterix (*) in a DNS Name; 4.3 Name Server Implementation in BIND; 4.3.1 named Program in BIND Version 4 System; 4.3.2 New Generation BIND; 4.3.2.1 Configuration File; 4.3.2.2 DNS Database; 4.3.2.3 Lightweight Resolver; 4.4 Microsoft's Native Implementation of DNS in Windows 2000/2003; Chapter 5: Tools for DNS Debugging and Administration; 5.1 Tools for DNS Debugging 5.1.1 Check Configuration Files; 5.1.2 named-checkconf Utility; 5.1.3 named-checkzone Utility; 5.1.4 nslookup Program; 5.1.4.1 Debugging Mode; 5.1.4.2 Debug Debugging Level; 5.1.4.3 d2 Debugging Level; 5.1.5 Other Programs Used for Debugging DNS; 5.1.5.1 The dnswalk Program; 5.1.5.2 The dig Program; 5.2 The rndc Program; 5.2.1 Signals; 5.2.1.1 HUP Signal; 5.2.1.2 INT Signal; 5.2.1.3 IOT Signal; 5.2.1.4 TERM Signal; 5.2.1.5 KILL Signal; 5.2.1.6USR1 and USR2 Signals; 5.3 Errors in DNS Configuration; Chapter 6: Domain Delegation and Registration; 6.1 Example 1; 6.1.1 Server ns.company.tld 6.1.2 Server ns.provider.net

Sommario/riassunto

A detailed and practical guide to DNS implementation, configuration, and administration
