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Nota di contenuto

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""Windows XP and Windows 2000 Server""""Current IPv6 Networking Stack Implementation""; ""Features and Functions of the Stack""; ""Mobile IPv6""; ""RFC 6106-IPv6 Router Advertisement Options for DNS Configuration""; ""DS-Lite""; ""6in4""; ""6rd""; ""SEND""; ""Tools Available to Manage IPv6 in Windows""; ""Tools Available to Migrate to IPv6 in Windows""; ""Transition Technologies""; ""6to4 Transition Technology""; ""ISATAP Transition Technology""; ""Teredo Transition Technology""; ""Microsoft's Long-Term Goals with IPv6""; ""Some Final IPv6 Support Thoughts""; ""Chapter 3: IPv6 Addressing""
""IPv6 Address Basics""""Address Format""; ""Size of the Address Space""; ""IPv6 Address Structure""; ""Packet and Header Configuration""; ""IPv6 Address Representation""; ""Defining Common IPv6 Terminology""; ""Types of IPv6 Addresses""; ""Unicast""; ""Global Unicast Addresses""; ""Unique Local Addresses""; ""Link-Local Addresses""; ""Special Unicast Addresses""; ""Unicast Transition Addresses""; ""6to4 Transition Technology""; ""ISATAP Transition Technology""; ""Teredo Transition Technology""; ""Multicast Addresses""; ""Multicast Address Structure""; ""Managing Multicast""
""Neighbor Discovery a€?Solicited-Node""""Inverse Neighbor Discovery""; ""IPv6 Multicast and Ethernet""; ""Anycast Addresses""; ""ICMPv6 Protocol""; ""Assigning IPv6 Addresses""; ""Autoassigning Addresses""; ""Interface IDs""; ""EUI-64 Interface ID""; ""Random IDs (Non-EUI-64)""; ""SLAAC""; ""Temporary IPv6 Addresses""; ""DHCPv6""; ""DHCPv6 Stateful""; ""DHCPv6 Stateless""; ""Assigning Both SLAAC and DHCPv6""; ""Manually Assigning IPv6 Addresses""; ""Windows OS Address Behavior""; ""How Windows Determines to Use IPv6 or IPv4""; ""Default Address Selection Behavior of IPv6""
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""IPv6 Internet Key Takeaways""

Sommario/riassunto

Practical IPv6 for Windows Administrators is a handy guide to implementing IPv6 in a Microsoft Windows environment. This is the book you need if you are a Microsoft Windows Administrator confronted with IPv6 and in need of a quick resource to get up and going. The book covers the current state of IPv6 and its support in Microsoft Windows. It provides best-practices and other guidance toward successful implementation. This book is especially written with the goal of translating your current expertise in IPv4 into the new realm of IPv6. Special attention is given to dual-stack configurations, helping

you to run IPv4 and IPv6 side-by-side and support both protocol versions during a transition period. Practical IPv6 for Windows Administrators is also a fast reference you can look at to get something done quickly. It covers IPv6 addressing, management of IPv6 from Powershell, Advanced Firewall configuration, and use of IPv6 in Hyper-V and virtual networking environments. You'll find practical examples showing how IPv6 integrates with all the standard tools you use for IPv4 today, tools like DNS and DHCP. You'll also find insider knowledge on IPv6 that can help avert stumbling points on the road to deployment. Provides a quick path from IPv4 expertise to IPv6 implementation Gives best-practices specific to Windows on IPv6 and dual stack networks Is chock full of practical examples showing how to manage IPv6 on Windows.
