DESCRIPTION

Understand IPv6, the protocol essential to future Internet growth.

Exhaustion of address space and global routing table growth necessitate important revisions to the current version of the Internet Protocol, IPv4. IP version 6 offers greater address space and additional features to support the evolving requirements of Internet applications. Deployed alongside current IPv4 networks, IPv6 will restore the full-fledge network necessary for Internet growth.

*Migrating to IPv6* gives a comprehensive overview of IPv6 and related protocols, the layers below IPv6 to the application and end-user layers. Author Marc Blanchet offers a direct and clear route to understanding the topic, taking a top-down approach and ordering topics by relevance. Tried and tested practical techniques and advice on implementation, applications and deployment provide ‘how-to’ information on everything you need to know to put the technology to work.

*Migrating to IPv6:*

• Provides a complete, up-to-date, in-depth, and accessible practical guide to IPv6.

• Demonstrates the theory with practical and generic examples and major implementation configurations, such as Windows, FreeBSD, Linux, Solaris, Cisco, Juniper and Hexago.

• Provides a comprehensive reference to key data structures and packet formats.

• Summarizes topics in table and graphical form to give fast access to information, including over 200 figures.
• Offers an accompanying website with extra coverage of specific topics, information on additional protocols and specifications, and updates on new features.

This text will give network engineers, managers and operators, software engineers and IT professionals and analysts a thorough understanding of IPv6.

⚠️ ABOUT THE AUTHOR

Marc Blanchet is CTO at Hexago. Hexago sells an IPv6 deployment product which implements the TSP tunnel broker. Hexago is a spin-off of Viagénie, known for the 6tap exchange point, normos, freenet6, the Tunnel Setup Protocol and other IPv6 initiatives, all of which Marc was architect and co-implementor of. In his previous job at Viagénie, he was a network security consultant for enterprises, governments and providers. Marc co-founded the IPv6Forum, and is a member of the board and technical directorate. He is also director and member of the steering committee of the North American IPv6 task force. Marc was co-chair of the internationalized domain names (idn) IETF working group and co-chair of the IPv6 exchanges ad hoc working group. He has written several IETF drafts and RFC in both the IPv6(RFC3531) and idn (RFC3454, RFC3491) fields. Since 1999, he has been giving IPv6 tutorials at conferences such as Networld-Interop, INET, IPv6Forum, 3G, Security and to organizations, taught to many thousands of people, and he also co-authored the Cisco IPv6 course.

Marc received a master's degree in electrical engineering from Laval University.

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