IPv6 Address Planning: Designing An Address Plan For The Future
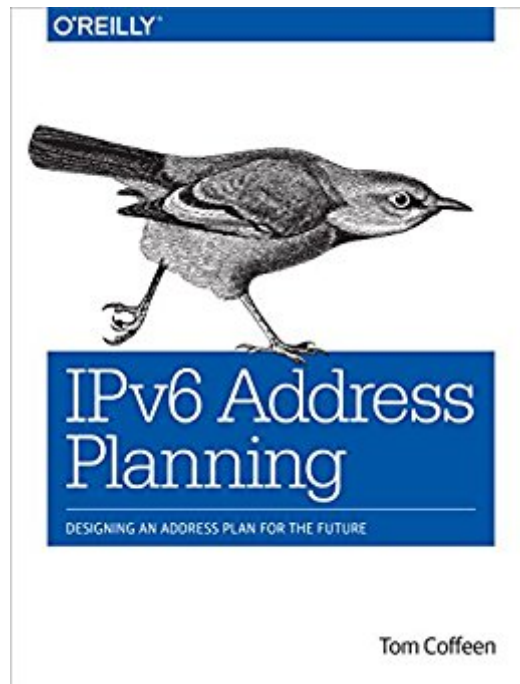
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IPv6 Address Planning

DESIGNING AN ADDRESS PLAN FOR THE FUTURE

Tom Coffeen

Synopsis

If youâ ™re ready to join the move to IPv6, this comprehensive guide gets you started by showing you how to create an effective IPv6 address plan. In three example-driven sectionsâ ”preparation, design, and maintenanceâ ”youâ ™ll learn principles and best practices for designing, deploying, and maintaining an address plan far beyond whatâ ™s possible with IPv4 networks.During the course of the book, youâ ™ll walk through the process of building a sample address plan for a fictional company. Enterprise IT network architects, engineers, and administrators will see firsthand how IPv6 provides opportunities for creating an operationally efficient plan thatâ ™s scalable, flexible, extensible, manageable, and durable.Explore IPv6 addressing basics, including representation, structure, and typesManage risks and costs by using a three-phase approach for deploying IPv6Dig into IPv6 subnetting methods and learn how they differ from IPv4Determine the appropriate size and type of the IPv6 allocation you requireApply current network management tools to IPv6Use IPv6 renumbering methods that enable greater network scale and easier integrationImplement policies and practices to keep IPv6 addresses reachable

Book Information

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Customer Reviews

Tom Coffeen does a great job of demystifying the IPv6 protocol, more importantly he explains the processes involved regarding obtaining network allocations from ARIN and other registreis for small to large enterprise organizations. Practical and industry best practice subnetting is explained along with complex subnetting for the "not so nervous". Highly recommended for any network engineer or architect looking towards implementing IPv6 on any scale. The book doesn't delve very deep into the mechanics of protocol 41, but is very much about network design, implementation and production management.

I have not finished this book yet.But, the author successfully show and explains- how big the IPv6 address space (vs IPv4)- why the current IPv4 address subnetting is completely irrelevant,- why we should go back to the classful IPv4 era concept with IPv6 address.And, I am sold to the author.I like this book because it has very original contents.

Tom has written an excellent title that was sorely needed in the IPv6 lexicon of books. Tom has broken up the book into 10 chapters that cover the material needed by enterprise network architects (and others) to make reasonable decisions on well formed IPv6 addressing plans. The chapters are:1. Where We've Been, Where We're Going2. What You Need to Know About IPv6 Addressing3. Planning Your IPv6 Deployment4. IPv6 Subnetting5. IPv6 Address Planning Concepts6. Getting IPv6 Addresses7. Creating an IPv6 Address Plan8. Working with IPAM and DDI9. Managing Growth and Change10. Keeping Your IPv6 Addresses ReachableTom has years of experience and he shares it to highlight some of the key differences around IPv4 verses IPv6 address planning. He also drives home practical decisions that have to be made in an address plan (IPv4 or IPv6). He has helped many companies make critical decisions around how their IPv6 address plans will work and now you get the benefit of reading his thoughts and ideas. He also provides planning worksheets for those that need some initial help getting started (and who doesn't with IPv6?) Tom has provided a wonderful book for those looking to design, deploy and operate IPv6 so do yourself a favor and pick up this book so you don't have to redo your IPv6 address plan!* Full disclosure, I was the technical reviewer for the book and therefore had early access and input on the content.

Excellent reference for anyone tasked with deploying IPv6. Answers many important questions regarding IPv6 prefix allocations and helps the reader overcome some of the legacy IPv4 thinking when devising an IPv6 addressing strategy. Highly recommended reading!

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