



Building Resilient IP Networks

The practical guide to building resilient and highly available IP networks

Building Resilient Ip Networks Ccie No 11970 Lim Fung

Lingjun Ying



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Building Resilient IP Networks Kok-Keong Lee CCIE No. 8427, Fung Lim CCIE No. 11970, Beng-Hui Ong, 2012-01-10 The practical guide to building resilient and highly available IP networks Learn from an all in one introduction to new features and developments in building a resilient IP network Enable your organization to meet internal service level agreements SLAs for mission critical resources Understand how a resilient IP network can help in delivering mission critical information such as video and voice services Work with configuration examples that are based on real world issues and customer requirements Get tips and best practices from field personnel who have worked on some of the largest networks with stringent uptime requirements and SLAs More companies are building networks with the intention of using them to conduct business Because the network has become such a strategic business tool its availability is of utmost importance to companies and their service providers The challenges for the professionals responsible for these networks include ensuring that the network remains up all the time keeping abreast of the latest technologies that help maintain uptime and reacting to ever increasing denial of service DoS attacks Building Resilient IP Networks helps you meet those challenges This practical guide to building highly available IP networks captures the essence of technologies that contribute to the uptime of networks You gain a clear understanding of how to achieve network availability through the use of tools design strategy and Cisco IOS Software With Building Resilient IP Networks you examine misconceptions about five nines availability and learn to focus your attention on the real issues appreciating the limitations of the protocols understanding what has been done to improve them and keeping abreast of those changes Building Resilient IP Networks highlights the importance of having a modular approach to building an IP network and most important illustrates how a modular design contributes to a resilient network You learn how an IP network can be broken down to various modules and how these modules interconnect with one another Then you explore new network resiliency features that have been developed recently categorized with respect to the design modules Building Resilient IP Networks is relevant to both enterprise and service provider customers of all sizes Regardless of whether the network connects to the Internet fortifying IP networks for maximum uptime and prevention of attacks is mandatory for anyone s business This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers

Building Resilient IP Networks Kok-Keong Lee, Fung Lim, Beng-Hui Ong, 2005-12-12 The practical guide to building resilient and highly available IP networks Learn from an all in one introduction to new features and developments in building a resilient IP network Enable your organization to meet internal service level agreements SLAs for mission critical resources Understand how a resilient IP network can help in delivering mission critical information such as video and voice services Work with configuration examples that are based on real world issues and customer requirements Get tips and best practices from field personnel who have worked on some of the largest networks with stringent uptime

requirements and SLAs More companies are building networks with the intention of using them to conduct business Because the network has become such a strategic business tool its availability is of utmost importance to companies and their service providers The challenges for the professionals responsible for these networks include ensuring that the network remains up all the time keeping abreast of the latest technologies that help maintain uptime and reacting to ever increasing denial of service DoS attacks Building Resilient IP Networks helps you meet those challenges This practical guide to building highly available IP networks captures the essence of technologies that contribute to the uptime of networks You gain a clear understanding of how to achieve network availability through the use of tools design strategy and Cisco IOS Software With Building Resilient IP Networks you examine misconceptions about five nines availability and learn to focus your attention on the real issues appreciating the limitations of the protocols understanding what has been done to improve them and keeping abreast of those changes Building Resilient IP Networks highlights the importance of having a modular approach to building an IP network and most important illustrates how a modular design contributes to a resilient network You learn how an IP network can be broken down to various modules and how these modules interconnect with one another Then you explore new network resiliency features that have been developed recently categorized with respect to the design modules Building Resilient IP Networks is relevant to both enterprise and service provider customers of all sizes Regardless of whether the network connects to the Internet fortifying IP networks for maximum uptime and prevention of attacks is mandatory for anyone s business This book is part of the Networking Technology Series from Cisco Press which offers networking professionals valuable information for constructing efficient networks understanding new technologies and building successful careers

Large-scale IP Network Solutions, 2000 Advanced IP Network Design Alvaro Retana (CCIE.), 1999

Large-scale IP Network Solutions Khalid Raza, Mark Turner, 1999 An essential guide to scaling and maintaining large networks Understand critical scalability issues and the parameters to plan for future network growth Examine detailed migration plans with sample scenarios and working Cisco configuration examples Learn the pros and cons of each major routing protocol and how to choose the right one for your environment Understand the operations and scalability features of Protocol Independent Multicast PIM Implement effective quality of service and network management techniques Benefit from extensive large scale network design and configuration case studies Large Scale IP Network Solutions provides practical advice for network engineers as IP networks grow and become more complex With in depth discussions of the major IP protocols including RIP Enhanced IGRP OSPF IS IS and BGP this book evaluates the strengths and weaknesses of each protocol In addition to specific large and medium network protocol deployment issues this guide contains special sections on more general topics such as network management core and distribution networks multicasting and quality of service features Router configuration examples network case studies and sample scenarios all help you put the book s information to use and become an effective Cisco Certified Internetwork Expert CCIE In addition this title offers

unique elements to help you prepare for the exam including case studies that highlight real world design implementation management and troubleshooting issues configuration examples from actual network input and output scenarios that help you put solutions to use and review questions and exercises

Designing and Developing Scalable IP Networks Guy Davies, 2004-09-03 Today's aggressively competitive networking market requires offering the maximum range of services using prevailing assets not building bigger more complicated networks but smarter more scalable infrastructures It isn't an easy thing to do The challenge is to develop an existing network so as to maximise its profitability A multi vendor approach to the subject is necessary since existing infrastructure is rarely homogeneous Discussion cannot merely be rooted in theory but has to bring to the fore actual designs and real development Guy Davies's invaluable reference tool is the product of many years experience in designing and developing real scalable systems for both service providers and enterprise networks It is a comprehensive demonstration of how to build scalable networks the pitfalls to avoid and a compilation of the most successful mechanisms available for engineers building and operating IP networks *Designing and Developing Scalable IP Networks* Documents practical scaling mechanisms for both service providers and enterprise networks using illustrative real world configuration examples Recommends policy choices and explains them in the context of the commercial environment Provides a reference for engineers building and migrating networks based on the author's familiarity with both Juniper Networks components and Cisco Systems routers Is founded on the author's experience working with large networks in the USA and Europe as well as Asia Pacific This incomparable reference to scaling networks is suitable for network designers architects engineers and managers It will also be an authoritative guide for technically aware sales and marketing staff and service engineers It is a valuable resource for graduate and final year computing and communications engineering students and for engineers studying for both the JNCIE and CCIE examinations

Building Resilient and Scalable IP Networks Using OSPF Eural Authement, James D. McCabe, 1999-05 OSPF is a TCP/IP routing protocol that provides robust and efficient routing support in Internet based networks This book is about when and how to design networks using OSPF

IP Networking Wendell Odom, 2011-08-14 *IP Networking* Wendell Odom CCIE No 1624 This text provides a detailed and practical overview of TCP/IP networking In this book expert instructor and best selling author Wendell Odom explores network design and implementation by applying TCP/IP protocols to provide connectivity and associated services Planning and deployment of network addressing structures as well as router and switch configurations are also examined *IP Networking* centers on the IP packet forwarding process and how to make Cisco routers perform IP routing The book begins with two units that review and expand your knowledge of prerequisite topics including all layers of the TCP/IP model with emphasis on LANs WANs IP and TCP Units 3 through 8 take you to a much deeper and practical knowledge of IP addressing and routing two topics that truly need to be understood together These same lessons examine how to implement various IP features in Cisco routers building skills that matter in the real world Finally the last two units focus on LAN and WAN

technologies and their roles in how routers and hosts use LANs and WANs to forward IP packets IP Networking takes you from a broad and basic knowledge of IP addressing and routing to a solid skill level with how hosts switches and routers collectively deliver IP packets in modern corporate networks helping prepare you for a variety of entry level network administration and support positions such as network administrator network technician network specialist information technology specialist and local area network LAN or wide area network WAN administrator After reading this book you will have gained the skills required to set up and maintain network transport services with appropriate address schema and desired protocols You will master the basic skills needed to handle the hardware and IOS features of Cisco routers and switches and perform network administration tasks using such components Coverage includes The TCP IP and OSI networking models LAN and WAN fundamentals Fundamentals of IP addressing and routing Fundamentals of TCP IP transport applications and security IP subnetting VLSM and route summarization Cisco router operation and configuration IP routing static and connected routes RIPv2 EIGRP and OSPF concepts and configuration IP version 6 Ethernet LANs and virtual LANs Point to point WANs and Frame Relay Network troubleshooting pearsonITcertification.com www.certskills.com

Building Resilient Ip Networks Ccie No 11970 Lim Fung Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the energy of words has be more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such may be the essence of the book **Building Resilient Ip Networks Ccie No 11970 Lim Fung**, a literary masterpiece that delves deep to the significance of words and their effect on our lives. Published by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall affect readers.

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