

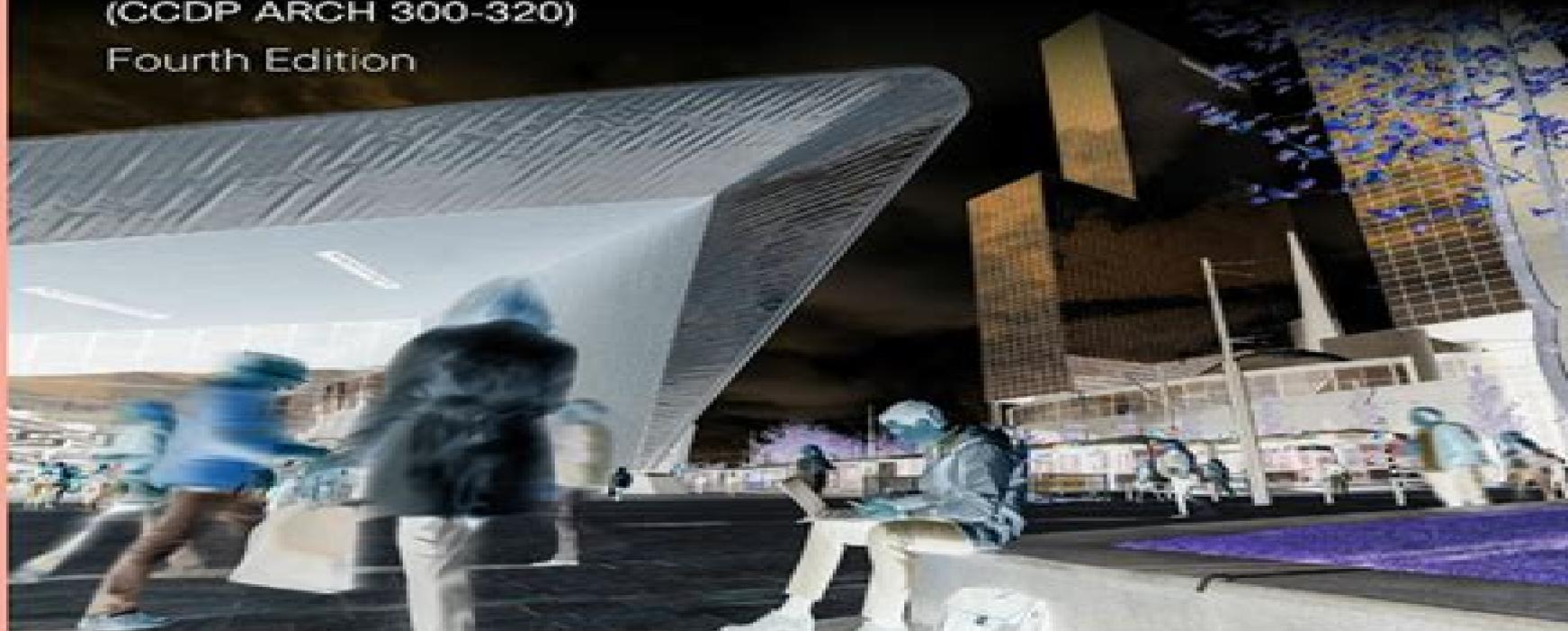


Designing for Cisco Network Service Architectures (ARCH)

Foundation Learning Guide

(CCDP ARCH 300-320)

Fourth Edition



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the backbone of the internetworking world They are the people responsible for turning concepts into designs They must take the customer s requirements budget and plans for growth and apply design principles to turn ideas into reality They quietly do this while claiming none of the credit Designing networks is one of the most challenging and rewarding careers a network engineer can choose You will have to forge close links with vendors and your customers and deal with installation engineers on a daily basis as they turn your designs into live networks through installation testing and handover phases The Cisco Certified Design Engineer CCDP qualification demonstrates your mastery of the latest developments in network design and technologies including network infrastructure intelligent network services and converged network solutions If you choose to add hands on qualifications such as CCNA and CCNP to your portfolio of skills you will be in a unique position to see the network take shape from planning and design to the final build You will also be in very high demand by employers or as a consultant This manual has been written by an expert Cisco engineer who has several years of experience as an employee and as a consultant designing and troubleshooting large corporate networks at an enterprise level To qualify as a CCDP engineer you need to pass the foundation CCDA exam as well as the SWITCH ROUTE and ARCH exams This guide will teach you everything you need to master in order to pass your 642 874 Designing Cisco Network Service Architectures ARCH exam including The Cisco Enterprise Architecture Model The Advanced Enterprise Architecture Model Campus Infrastructure Best Practices Virtualization Design Considerations Designing Advanced IP Addressing Designing Advanced IP Multicast ISP Multi Homing Design Designing Advanced Routing Solutions Designing Advanced WAN Services And much more

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accreditation as well as the CCDP CCNP and CCIP certifications Mark Schofield has been a network architect at Bell Canada for the past six years During the past five years he has been involved in the design implementation and planning of large national networks for Bell Canada s federal government customers Diane Teare is a professional in the networking training project management and e learning fields She has more than 20 years of experience in designing implementing and troubleshooting network hardware and software and has been involved in teaching course design and project management Learn about the Cisco SONA framework enterprise campus architecture and PPDIOO network life cycle approach Review high availability designs and implement optimal redundancy Plan scalable EIGRP OSPF and BGP designs Implement advanced WAN services Evaluate design considerations in the data center core aggregation and access layers Design storage area networks SANs and extend the SAN with various protocols Design and tune an integrated e commerce architecture Integrate firewall NAC and intrusion detection prevention into your network design Design IPsec and SSL remote access VPNs Deploy IP multicast and multicast routing Incorporate voice over WLAN in the enterprise network Utilize the network management capabilities inherent in Cisco IOS software This volume is in the Certification Self Study Series offered by Cisco Press Books in this series provide officially developed self study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations Category Network Design Covers ARCH exam 642 873 *CCDP Self-Study* Amir Ranjbar,Keith Hutton,2008-09 Cisco authorized self study book for CCDP 642 871 architectures foundation learning Prepare for the CCDP ARCH exam 642 871 with the Cisco authorized self study guide This book teaches you how to Understand the composition and deployment of the Cisco AVVID framework in network design Understand the composition and role of the Enterprise Composite Network Model in enterprise network design Design enterprise campus networks and their edge network connectivity to the Internet Understand and implement network management solutions in the network Integrate new technologies designed to enhance network performance and availability in the enterprise such as high availability QoS multicasting and storage and content networking Design and implement appropriate security solutions for enterprise networks Deploy wireless technologies within the enterprise Implement and design IP telephony solutions for the enterprise network CCDP Self Study Designing Cisco Network Architectures ARCH is a Cisco authorized self paced learning tool By presenting a structured format for the conceptual and intermediate design of AVVID network infrastructures this book teaches you how to design solutions that scale from small to large enterprise networks and take advantage of the latest technologies Whether you are preparing for the CCDP certification or simply want to gain a better understanding of how to architect network solutions over intelligent network services to achieve effective performance scalability and availability you will benefit from the foundation information presented in this book This comprehensive book provides detailed information and easy to grasp tutorials on a broad range of topics related to architecture and design including security fine tuning routing protocols switching structures and IP multicasting To keep

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