

## Application Acceleration and WAN Optimization Fundamentals



# Application Acceleration And Wan Optimization Fundamentals

**Zach Seils, Joel Christner**



## **Application Acceleration And Wan Optimization Fundamentals:**

*Application Acceleration and WAN Optimization Fundamentals* Ted Grevers Jr., Joel Christner CCIE No. 15311, 2012-01-10

IT organizations face pressure to increase productivity improve application performance support global collaboration improve data protection and minimize costs In today's WAN centered environments traditional LAN oriented infrastructure approaches are insufficient to meet these goals Application Acceleration and WAN Optimization Fundamentals introduces a better solution integrating today's new generation of accelerator solutions to efficiently and effectively scale networks beyond traditional capabilities while improving performance and minimizing costs through consolidation Ted Grevers and Joel Christner begin by reviewing the challenges network professionals face in delivering applications to globally distributed workforces You learn how accelerators are transforming application business models enabling IT departments to centralize and consolidate resources while also delivering consistently superior performance Grevers and Christner show how to identify network consumers prioritize traffic and guarantee appropriate throughput and response times to business critical applications You learn how to use quality of service techniques such as packet classification and marking and traffic policing queuing scheduling and shaping Next you compare options for integrating accelerators and optimization services into your network and for optimizing content delivery The authors show how to address application protocol related performance problems that cannot be resolved through compression or flow optimization alone In the final chapter the authors walk you through several real world scenarios for utilizing accelerator technology Ted Grevers Jr is the solution manager for the Cisco Video IPTV Systems Test and Architecture C VISTA team He has extensive experience in the content delivery network CDN market focusing on enterprise and service provider content delivery and application optimization needs Joel Christner CCIE No 15311 is the manager of technical marketing for the Cisco Application Delivery Business Unit ADBU He has extensive experience with application protocols acceleration technologies LAN WAN infrastructure and storage networking Grevers and Christner are key contributors to the design and architecture of Cisco application delivery and application acceleration solutions Provide high performance access to remote data content video rich media and applications Understand how accelerators can improve network performance and minimize bandwidth consumption Use NetFlow to baseline application requirements and network utilization Ensure network resources are allocated based on business priorities Identify performance barriers arising from networks protocols operating systems hardware file systems and applications Employ application specific acceleration components to mitigate the negative impact of latency and bandwidth consumption Integrate content delivery networks CDN to centrally manage the acquisition security and distribution of content to remote locations Leverage WAN optimization technologies to improve application throughput mitigate the impact of latency and loss and minimize bandwidth consumption Optimize the performance of WANs and business critical WAN applications This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking

technologies covering network topologies sample deployment concepts protocols and management techniques Category Cisco Press Networking Covers Network Optimization *Deploying Cisco Wide Area Application Services* Zach Seils CCIE No. 7861, Joel Christner CCIE No. 15311, Nancy Jin, 2010-01-12 Implement advanced WAN optimization application acceleration and branch virtualization with Cisco WAAS 4.1 This book brings together all the information you need to design and deploy scalable transparent application acceleration WAN optimization and branch virtualization solutions with dramatically improved Wide Area Application Services WAAS 4.1 products from Cisco Cisco WAAS insiders Joel Christner Zach Seils and Nancy Jin systematically cover new WAAS software enhancements that enable far better performance simplified workflow and improved manageability They introduce powerful new solution components including application specific acceleration techniques hardware form factors and virtualization They also thoroughly explain recent architectural improvements that provide a solid foundation for future WAAS solutions The authors begin by reviewing the underlying technologies that comprise today's Cisco WAAS solution Next drawing on extensive personal experience they walk through collecting requirements designing effective solutions integrating WAAS into existing networks and configuring WAAS 4.1 software This book is replete with real world implementation examples and case studies including extensive coverage of network branch office and data center integration One step at a time you'll learn how to deploy Cisco WAAS in a scalable transparent and seamless fashion one that addresses both your business and technical challenges Thoroughly understand WAAS 4.1's capabilities and learn how to use and manage it effectively Understand both the Cisco WAAS appliance and router integrated network module hardware family Quickly deploy WAAS in lab or production pilot environments to quantify its potential benefits Size design and deploy Cisco WAAS for maximum performance and value in your enterprise network Compare and select design options for branch office and data center network integration Deploy the WAAS Central Manager and accelerator WAAS devices Implement centralized authentication authorization alarm management monitoring and reporting Configure WAN optimization with the Application Traffic Policy Manager Configure verify and manage application acceleration Leverage WAAS 4.1's powerful new branch office virtualization capabilities Quickly troubleshoot WAAS problems using Cisco's own best practices 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 *Deploying Cisco Wide Area Application Services* Zach Seils, Joel Christner, 2008 Christner and Seils deliver a comprehensive guide to designing and deploying Cisco WAN services for scalable transparent application acceleration and WAN optimization With this resource readers will learn from real world examples that use Cisco gear as the platform of choice for implementation **Advances in Communications, Computing, Electronics, Networks, Robotics and Security Volume 12** Paul Dowland, 2016-07 This book is the twelfth in a series presenting research papers arising from MSc MRes research projects undertaken by students of the School of Computing and Mathematics at Plymouth University

The publications in this volume are based upon research projects that were undertaken during the 2013 14 academic year A total of 17 papers are presented covering many aspects of modern networking and communication technology including security mobility coding schemes and quality measurement The expanded topic coverage compared to earlier volumes in this series reflects the broadening of our range of MSc programmes Specifically contributing programmes are Communications Engineering and Signal Processing Computer and Information Security Computer Science Computing Electrical and Electronic Engineering Network Systems Engineering and Robotics     Advanced Content Delivery, Streaming, and Cloud Services Mukaddim Pathan,Ramesh K. Sitaraman,Dom Robinson,2014-09-19 While other books on the market provide limited coverage of advanced CDNs and streaming technologies concentrating solely on the fundamentals this book provides an up to date comprehensive coverage of the state of the art advancements in CDNs with a special focus on Cloud based CDNs The book includes CDN and media streaming basics performance models practical applications and business analysis It features industry case studies CDN applications and open research issues to aid practitioners and researchers and a market analysis to provide a reference point for commercial entities The book covers Adaptive Bitrate Streaming ABR Content Delivery Cloud CDC Web Acceleration Front End Optimization FEO Transparent Caching Next Generation CDNs CDN Business Intelligence and more Provides an in depth look at Cloud based CDNs Includes CDN and streaming media basics and tutorials Aimed to instruct systems architects practitioners product developers and researchers Material is divided into introductory subjects advanced content and specialist areas     NETWORKING 2012 Robert Bestak,Lukas Kencl,Li Erran Li,Joerg Widmer,Hao Yin,2012-05-16 The two volume set LNCS 7289 and 7290 constitutes the refereed proceedings of the 11th International IFIP TC 6 Networking Conference held in Prague Czech Republic in May 2012 The 64 revised full papers presented were carefully reviewed and selected from a total of 225 submissions The papers feature innovative research in the areas of network architecture applications and services next generation Internet wireless and sensor networks and network science The first volume includes 32 papers and is organized in topical sections on content centric networking social networks reliability and resilience virtualization and cloud services IP routing network measurement network mapping and LISP and multi domain routing     **CCNA Cloud CLDADM 210-455 Official Cert Guide** Chris Jackson,Hank A. A. Preston III,Steve Wasko,2016-10-20 This is the eBook version of the print title Note that the eBook does not provide access to the practice test software that accompanies the print book Learn prepare and practice for CCNA Cloud CLDADM 210 455 exam success with this Official Cert Guide from Pearson IT Certification a leader in IT Certification Master CCNA Cloud CLDADM 210 455 exam topics Assess your knowledge with chapter ending quizzes Review key concepts with exam preparation tasks CCNA Cloud CLDADM 210 455 Official Cert Guide is a best of breed exam study guide Cisco cloud experts Chris Jackson Hank Preston and Steve Wasko share preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills Material is presented in a concise manner focusing on increasing your

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**Communication and Intelligent Systems** Harish Sharma,Vivek Shrivastava,Ashish Kumar Tripathi,Lipo Wang,2024-06-20 This book gathers selected research papers presented at the Fifth International Conference on Communication and Intelligent Systems ICCIS 2023 organized by Malaviya National Institute of Technology Jaipur India during December 16 17 2023 This book presents a collection of state of the art research work involving cutting edge technologies for communication and intelligent systems Over the past few years advances in artificial intelligence and machine learning have sparked new research efforts around the globe which explore novel ways of developing intelligent systems and smart communication technologies The book presents single and multi disciplinary research on these themes to make the latest results available in a single readily accessible source The work is presented in three volumes Cisco Unified Presence Fundamentals Brian Morgan,Jeremy Shane Lisenbea,Michael Popovich,2010-06-15 Cisco Unified Presence offers companies powerful opportunities to improve productivity Building on the migration to IP telephony and the deployment of Cisco Unified Communications environments it helps people find each other faster solve problems more quickly pursue opportunities with more agility and increase customer satisfaction Written by three leading Cisco experts Cisco Unified Presence Fundamentals explains the concepts behind Unified Presence the technologies involved their interdependencies and how to troubleshoot them The authors support their discussions of concepts and techniques with many sample applications guiding network professionals to real world mastery even if they have never used presence technologies This book will be an indispensable resource for all Cisco partners and system integrators who need to understand Unified Presence and build solutions and for all IT and networking professionals who must work with or support those solutions This is the only book that Walks readers step by step through configuring Cisco Unified Presence Presents practical sample applications that encourage readers to explore and innovate in their own organizations Thoroughly covers the technical aspects of deploying Presence and explains how it can be used within key vertical markets Presents

troubleshooting techniques from both server and client side perspectives Plan install configure support and profit from Cisco Unified Presence Understand the components of a Cisco Unified Presence solution and how they fit together Gain valuable insight into how Cisco Unified Presence can increase productivity scheduling capabilities and interactivity for evolving industries Understand crucial interdependencies that impact Cisco Unified Presence design functionality and behavior Configure Cisco Unified Presence for Federation Understand how to resolve Unified Presence issues with built in tools and diagnostic utilities This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies sample deployment concepts passwords and management techniques      Data Center Virtualization Fundamentals Gustavo Alessandro Andrade Santana, 2014 Data Center Virtualization Fundamentals For many IT organizations today s greatest challenge is to drive more value efficiency and utilization from data centers Virtualization is the best way to meet this challenge Data Center Virtualization Fundamentals brings together the comprehensive knowledge Cisco professionals need to apply virtualization throughout their data center environments Leading data center expert Gustavo A A Santana thoroughly explores all components of an end to end data center virtualization solution including networking storage servers operating systems application optimization and security Rather than focusing on a single product or technology he explores product capabilities as interoperable design tools that can be combined and integrated with other solutions including VMware vSphere With the author s guidance you ll learn how to define and implement highly efficient architectures for new expanded or retrofit data center projects By doing so you can deliver agile application provisioning without purchasing unnecessary infrastructure and establish a strong foundation for new cloud computing and IT as a service initiatives Throughout Santana illuminates key theoretical concepts through realistic use cases real world designs illustrative configuration examples and verification outputs Appendixes provide valuable reference information including relevant Cisco data center products and CLI principles for IOS and NX OS With this approach Data Center Virtualization Fundamentals will be an indispensable resource for anyone preparing for the CCNA Data Center CCNP Data Center or CCIE Data Center certification exams Gustavo A A Santana CCIE No 8806 is a Cisco Technical Solutions Architect working in enterprise and service provider data center projects that require deep integration across technology areas such as networking application optimization storage and servers He has more than 15 years of data center experience and has led and coordinated a team of specialized Cisco engineers in Brazil He holds two CCIE certifications Routing Switching and Storage Networking and is a VMware Certified Professional VCP and SNIA Certified Storage Networking Expert SCSN E A frequent speaker at Cisco and data center industry events he blogs on data center virtualization at [gustavoasantana.net](http://gustavoasantana.net) Learn how virtualization can transform and improve traditional data center network topologies Understand the key characteristics and value of each data center virtualization technology Walk through key decisions and transform choices into architecture Smoothly migrate existing data centers toward greater virtualization

Burst silos that have traditionally made data centers inefficient Master foundational technologies such as VLANs VRF and virtual contexts Use virtual PortChannel and FabricPath to overcome the limits of STP Optimize cabling and network management with fabric extender FEX virtualized chassis Extend Layer 2 domains to distant data center sites using MPLS and Overlay Transport Virtualization OTV Use VSANs to overcome Fibre Channel fabric challenges Improve SAN data protection environment isolation and scalability Consolidate I O through Data Center Bridging and FCoE Use virtualization to radically simplify server environments Create server profiles that streamline bare metal server provisioning Transcend the rack through virtualized networking based on Nexus 1000V and VM FEX Leverage opportunities to deploy virtual network services more efficiently Evolve data center virtualization toward full fledged private clouds Reviews The variety of material that Gustavo covers in this work would appeal to anyone responsible for Data Centers today His grasp of virtualization technologies and ability to relate it in both technical and non technical terms makes for compelling reading This is not your ordinary tech manual Through use of relatable visual cues Gustavo provides information that is easily recalled on the subject of virtualization reaching across Subject Matter Expertise domains Whether you consider yourself well versed or a novice on the topic working in large or small environments this work will provide a clear understanding of the diverse subject of virtualization Bill Dufresne CCIE 4375 Distinguished Systems Engineer Cisco Americas this book is an essential reference and will be valuable asset for potential candidates pursuing their Cisco Data Center certifications I am confident that in reading this book individuals will inevitably gain extensive knowledge and hands on experience during their certification preparations If you re looking for a truly comprehensive guide to virtualization this is the one Yusuf Bhaiji Senior Manager Expert Certifications CCIE CCDE CCAr Learning Cisco When one first looks at those classic Cisco Data Center blueprints it is very common to become distracted with the overwhelming number of pieces and linkages By creating a solid theoretical foundation and providing rich sets of companion examples to illustrate each concept Gustavo s book brings hope back to IT Professionals from different areas of expertise Apparently complex topics are demystified and the insertion of products mechanisms protocols and technologies in the overall Data Center Architecture is clearly explained thus enabling you to achieve robust designs and successful deployments A must read Definitely Alexandre M S P Moraes Consulting Systems Engineer Author of Cisco Firewalls

## Unveiling the Energy of Verbal Artistry: An Mental Sojourn through **Application Acceleration And Wan Optimization Fundamentals**

In a world inundated with monitors and the cacophony of quick transmission, the profound energy and emotional resonance of verbal beauty often diminish in to obscurity, eclipsed by the continuous onslaught of sound and distractions. However, nestled within the lyrical pages of **Application Acceleration And Wan Optimization Fundamentals**, a captivating function of fictional elegance that pulses with natural emotions, lies an memorable trip waiting to be embarked upon. Composed by way of a virtuoso wordsmith, this interesting opus manuals visitors on a psychological odyssey, softly revealing the latent possible and profound influence embedded within the delicate web of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is main subjects, dissect its interesting publishing design, and immerse ourselves in the indelible impact it leaves upon the depths of readers souls.

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