



# Data Center Virtualization Fundamentals

Understanding techniques and designs for highly efficient Data Centers with Cisco Nexus, UCS, MDS, and beyond



# Data Center Virtualization Cisco

**Somit Maloo, Iskren Nikolov, Firas  
Ahmed**



## **Data Center Virtualization Cisco:**

**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 Bhajji 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 **Cisco Unified Computing System (UCS) (Data Center)** Silvano Gai, Tommi Salli, Roger Andersson, 2010-06-01 The definitive guide to UCS and the Cisco Data Center Server planning architecture components deployment and benefits With its new Unified Computing System UCS family of products Cisco has introduced a fundamentally new vision for data center computing one that reduces ownership cost improves agility and radically simplifies management In this book three Cisco insiders thoroughly explain UCS and offer practical insights for IT professionals and decision makers who are evaluating or implementing it The authors establish the context for UCS by discussing the implications of virtualization unified I O large memories and other key technologies and showing how trends like cloud computing and green IT will drive the next generation data center Next they take a closer look at the evolution of server CPU memory and I O subsystems covering advances such as the Intel XEON 5500 5600 7500 DDR3 memory and unified I O over 10 Gbps Ethernet Building on these fundamentals the authors then discuss UCS in detail showing how it systematically overcomes key limitations of current data center environments They review UCS features components and architecture and demonstrate how it can improve data center performance reliability simplicity flexibility and energy efficiency Along the way they offer realistic planning installation and migration guidance everything decision makers and technical implementers need

to gain maximum value from UCS now and for years to come Silvano Gai has spent 11 years as Cisco Fellow architecting Catalyst MDS and Nexus switches He has written several books on networking written multiple Internet Drafts and RFCs and is responsible for 80 patents and applications He teaches a course on this book s topics at Stanford University Tommi Salli Cisco Technical Marketing Engineer has nearly 20 years of experience with servers and applications at Cisco Sun VERITAS and Nuova Systems Roger Andersson Cisco Manager Technical Marketing spent more than 12 years in the CLARiiON Engineering Division at EMC and 5 years as Technical Product Manager at VERITAS Symantec He is now focused on Cisco UCS system management Streamline data centers with UCS to systematically reduce cost of ownership Eliminate unnecessary server components and their setup management power cooling and cabling Use UCS to scale service delivery simplify service movement and improve agility Review the latest advances in processor memory I O and virtualization architectures for data center servers Understand the specific technical advantages of UCS Integrate UCS 6100 Fabric Interconnect Cisco UCS 2100 Series Fabric Extenders UCS 5100 Series Blade Server Enclosures UCS B Series Blade Servers UCS C Series Rack Servers and UCS Adapters Use Cisco UCS Manager to manage all Cisco UCS components as a single seamless entity Integrate third party management tools from companies like BMC CA EMC IBM Microsoft and VMware Practice all this with a copy of Cisco Unified Computing System™ Platform Emulator Lite UCSPE Lite on the DVD in the back of the book 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

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**Introducing Cisco Data Center Technologies Study Guide** Todd Lammler,Todd Montgomery,2016-03-23 Cisco has announced big changes to its certification program As of February 24 2020 all current certifications will be retired and Cisco will begin offering new certification programs The good news is if you re working toward any current CCNA certification keep going You have until February 24 2020 to complete your current CCNA If you already have CCENT ICND1 certification

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architectural principles and infrastructure designs for real time managed IT services Understand the Cisco approach to cloud related technologies systems and services Develop a cloud management architecture using ITIL TMF and ITU TMN standards Implement best practices for cloud service provisioning activation and management Automate cloud infrastructure to simplify service delivery monitoring and assurance Choose and implement the right billing chargeback approaches for your business Design and build IaaS services from start to finish Manage the unique capacity challenges associated with sporadic real time demand Provide a consistent and optimal cloud user experience 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 Category Cloud Computing Covers Virtualized Data Centers **Business Periodicals Index** ,2007 Project California: a Data Center Virtualization Server Silvano Gai, Tommi Salli, Roger Andersson, 2009 Wall Street & Technology ,2008 **CCNA Data Center DCICT 200-155 Official Cert Guide** Navaid Shamsee, David Klebanov, Hesham Fayed, Ahmed Afrose, Ozden Karakok, 2017-02-09 CCNA Data Center DCICT 200 155 Official Cert Guide from Cisco Press enables you to succeed on the exam the first time and is the only self study resource approved by Cisco A team of leading Cisco data center experts shares preparation hints and test taking tips helping you identify areas of weakness and improve both your conceptual knowledge and hands on skills This is the eBook edition of the CCNA Data Center DCICT 200 155 Official Cert Guide This eBook does not include the access code for the practice exam that comes with the print edition This complete official study package includes A test preparation routine proven to help you pass the exam Do I Know This Already quizzes which enable you to decide how much time you need to spend on each section Part ending exercises which help you drill on key concepts you must know thoroughly Study plan suggestions and templates to help you organize and optimize your study time A final preparation chapter that guides you through tools and resources to help you craft your review and test taking strategies Well regarded for its level of detail study plans assessment features and challenging review questions and exercises this official study guide helps you master the concepts and techniques that ensure your exam success The official study guide helps you master topics on the CCNA Data Center DCICT 200 155 exam **CIO** ,2010 **Campus Technology** ,2009-08

This book delves into Data Center Virtualization Cisco. Data Center Virtualization Cisco is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Data Center Virtualization Cisco, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
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    - Chapter 3: Data Center Virtualization Cisco in Everyday Life
    - Chapter 4: Data Center Virtualization Cisco in Specific Contexts
    - Chapter 5: Conclusion
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  4. In chapter 3, the author will examine the practical applications of Data Center Virtualization Cisco in daily life. The third chapter will showcase real-world examples of how Data Center Virtualization Cisco can be effectively utilized in everyday scenarios.
  5. In chapter 4, this book will scrutinize the relevance of Data Center Virtualization Cisco in specific contexts. The fourth chapter will explore how Data Center Virtualization Cisco is applied in specialized fields, such as education, business, and technology.
  6. In chapter 5, this book will draw a conclusion about Data Center Virtualization Cisco. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Data Center Virtualization Cisco.

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