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experts Brad Edgeworth, Ramiro
Garza Rios, Dave Hucaby, and

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Jason Gooley 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,

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cloud-based Infrastructure as a Service (IaaS) data center solutions Cloud computing will revolutionize the way IT resources are deployed, configured, and managed for years to come. Service

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providers and customers each stand to realize tremendous value from this paradigm shift--if they can take advantage of it. Cloud Computing brings together the realistic, start-to-finish guidance they need to

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plan, implement, and manage cloud solution architectures for tomorrow's virtualized data centers. It introduces cloud "newcomers" to essential concepts, and offers experienced operations

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professionals detailed guidance on delivering Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS). This book's replicable solutions and fully-tested best practices will help

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enterprises, service providers, consultants, and Cisco partners meet the challenge of provisioning end-to-end cloud infrastructures. Drawing on extensive experience working with leading cloud vendors and

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integrators, the authors present detailed operations workflow examples, proven techniques for operating cloud-based network, compute, and storage infrastructure; a comprehensive management reference

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architecture; and a complete case study demonstrating rapid, lower-cost solutions design. Cloud Computing will be an indispensable resource for all network/IT professionals and managers involved with

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planning, implementing, or
managing the next generation
of cloud computing services.

Venkata (Josh) Josyula, Ph.D.,
CCIE® No. 13518 is a
Distinguished Services Engineer
in Cisco Services Technology

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Group (CSTG) and advises Cisco customers on OSS/BSS architecture and solutions.

Malcolm Orr, Solutions Architect for Cisco's Services Technology Solutions, advises telecoms and enterprise clients on

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architecting, building, and operating OSS/BSS and cloud management stacks. He is Cisco's lead architect for several Tier 1 public cloud projects. Greg Page has spent the last eleven years with Cisco

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in technical consulting roles relating to data center architecture/technology and service provider security. He is now exclusively focused on developing cloud/laaS solutions with service providers and

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- systems integrator partners.
- Review the key concepts needed to successfully deploy clouds and cloud-based services
- Transition common enterprise design patterns and use cases to the cloud
- Master

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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

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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

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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

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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

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valuable information for
constructing efficient networks,
understanding new
technologies, and building
successful careers. Category:
Cloud Computing Covers:
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The complete guide to transforming enterprise networks with Cisco DNA As networks become more complex and dynamic, organizations need better ways to manage and secure them. With the Cisco

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Digital Network Architecture, network operators can run entire network fabrics as a single, programmable system by defining rules that span their devices and move with their users. Using Cisco intent-based

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networking, you spend less time programming devices, managing configurations, and troubleshooting problems so you have more time for driving value from your network, your applications, and most of all,

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your users. This guide systematically introduces Cisco DNA, highlighting its business value propositions, design philosophy, tenets, blueprints, components, and solutions. Combining insider

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information with content previously scattered through multiple technical documents, it provides a single source for evaluation, planning, implementation, and operation. The authors bring together

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authoritative insights for multiple business and technical audiences. Senior executives will learn how DNA can help them drive digital transformation for competitive advantage. Technical decision-

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makers will discover powerful emerging solutions for their specific needs. Architects will find essential recommendations, interdependencies, and caveats for planning deployments. Finally, network operators will

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learn how to use DNA Center's modern interface to streamline, automate, and improve virtually any network management task.

- Accelerate the digital transformation of your business by adopting an intent-based

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network architecture that is open, extensible, and programmable · Integrate virtualization, automation, analytics, and cloud services to streamline operations and create new business

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opportunities · Dive deep into hardware, software, and protocol innovations that lay the programmable infrastructure foundation for DNA · Virtualize advanced network functions for fast, easy, and flexible

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deployments · Translate
business intent into device
configurations and simplify,
scale, and automate network
operations using controllers ·
Use analytics to tune
performance, plan capacity,

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prevent threats, and simplify troubleshooting · Learn how Software-Defined Access improves network flexibility, security, mobility, visibility, and performance · Use DNA Assurance to track the health of

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clients, network devices, and applications to reveal hundreds of actionable insights · See how DNA Application Policy supports granular application recognition and end-to-end treatment, for even encrypted applications ·

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Identify malware, ransomware,
and other threats in encrypted
traffic

Building Data Centers with
VXLAN BGP EVPN

Solving Interoperability and
Communication in a Cloud of

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Clouds

GMPLS

Data Center Virtualization

Fundamentals

Network World

Delivering Advanced Security

Capabilities from Edge to Cloud

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for IoT

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Guide

Network Functions Virtualization
(NFV) will drive dramatic cost
reductions while also accelerating

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service delivery. Using NFV with SDN, network owners can provision new functions rapidly on demand, improve scalability, and leverage microservices. Benefits like these will make NFV indispensable for service providers, mobile operators, telcos, and enterprises alike. Network

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Functions Virtualization (NFV) with a Touch of SDN is the first practical introduction to NFV ' s fundamental concepts, techniques, and use cases. Written for wide audiences of network engineers, architects, planners, and operators, it assumes no previous knowledge of NFV architecture,

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deployment, or management. The authors first explain how virtualization, VMs, containers, and related technologies establish the foundation for the NFV transformation. Next, they show how these concepts and technologies can be applied to virtualize network

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functions in the cloud, data centers, routing, security, and the mobile packet core. You ' ll discover new tools and techniques for managing and orchestrating virtualized network devices, and gain new clarity on how SDN and NFV interact and interrelate. By the time you ' re done, you ' ll be

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ready to assess vendor claims,
evaluate architectures, and plan
NFV ' s role in your own networks.
Understand NFV ' s key benefits and
market drivers Review how
virtualization makes NFV possible
Consider key issues associated with
NFV network design and deployment

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Integrate NFV into existing network designs Orchestrate, build, and deploy NFV networks and cloud services Maximize operational efficiency by building more programmable, automated networks Understand how NFV and SDN work together Address security, programmability,

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performance, and service function chaining Preview evolving concepts that will shape NFV ' s future
Migrate to Intent-Based Networking—and improve network manageability, cost, agility, security, and simplicity With Intent-Based Networking (IBN), you can create

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networks that capture and automatically activate business intent, assure that your network responds properly, proactively detect and contain security threats, and remedy network issues before users even notice. Intent-Based Networking makes networks far more valuable,

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but few organizations have the luxury of building them from the ground up. In this book, leading expert Pieter-Jans Nefkens presents a unique four-phase approach to preparing and transforming campus network infrastructures, architectures, and organization—helping you gain

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maximum value from IBN with minimum disruption and cost. The author reviews the problems IBN is intended to solve, and illuminates its technical, business, and cultural implications. Drawing on his pioneering experience, he makes specific recommendations, identifies

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pitfalls, and shows how to overcome them. You ' ll learn how to implement IBN with the Cisco Digital Network Architecture and DNA Center and walk through real-world use cases. In a practical appendix, Nefkens even offers detailed technical configurations to jumpstart your own

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transformation. Review classic campus network deployments and understand why they need to change
Learn how Cisco Digital Network Architecture (DNA) provides a solid foundation for state-of-the-art next generation network infrastructures
Understand “ intent ” and how it can

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be applied to network infrastructure
Explore tools for enabling,
automating, and assuring Intent-Based
Networking within campus networks
Transform to Intent-Based Networking
using a four-phased approach:
Identify challenges; Prepare for Intent;
Design and Deploy; and Enable Intent

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Anticipate how Intent-Based
Networking will change your
enterprise architecture, IT operations,
and business

Master powerful techniques and
approaches for securing IoT systems
of all kinds—current and emerging
Internet of Things (IoT) technology

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adoption is accelerating, but IoT presents complex new security challenges. Fortunately, IoT standards and standardized architectures are emerging to help technical professionals systematically harden their IoT environments. In Orchestrating and Automating

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Security for the Internet of Things, three Cisco experts show how to safeguard current and future IoT systems by delivering security through new NFV and SDN architectures and related IoT security standards. The authors first review the current state of IoT networks and

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architectures, identifying key security risks associated with nonstandardized early deployments and showing how early adopters have attempted to respond. Next, they introduce more mature architectures built around NFV and SDN. You ' ll discover why these lend themselves well to IoT and

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IoT security, and master advanced approaches for protecting them. Finally, the authors preview future approaches to improving IoT security and present real-world use case examples. This is an indispensable resource for all technical and security professionals, business security and

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risk managers, and consultants who are responsible for systems that incorporate or utilize IoT devices, or expect to be responsible for them. · Understand the challenges involved in securing current IoT networks and architectures · Master IoT security fundamentals, standards, and modern

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best practices · Systematically plan for IoT security · Leverage Software-Defined Networking (SDN) and Network Function Virtualization (NFV) to harden IoT networks · Deploy the advanced IoT platform, and use MANO to manage and orchestrate virtualized network functions ·

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Detect threats and protect data in IoT environments .
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Safeguard the IoT platform itself .
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cities and advanced energy systems to
the connected car · Preview evolving
concepts that will shape the future of
IoT security

Improve operations and agility in any
data center, campus, LAN, or WAN

Today, the best way to stay in control
of your network is to address devices

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programmatically and automate network interactions. In this book, Cisco experts Ryan Tischer and Jason Gooley show you how to do just that. You ' ll learn how to use programmability and automation to solve business problems, reduce costs, promote agility and innovation,

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handle accelerating complexity, and add value in any data center, campus, LAN, or WAN. The authors show you how to create production solutions that run on or interact with Nexus NX-OS-based switches, Cisco ACI, Campus, and WAN technologies. You ' ll learn how to use advanced Cisco tools

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together with industry-standard languages and platforms, including Python, JSON, and Linux. The authors demonstrate how to support dynamic application environments, tighten links between apps and infrastructure, and make DevOps work better. This book will be an indispensable

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resource for network and cloud designers, architects, DevOps engineers, security specialists, and every professional who wants to build or operate high-efficiency networks. Drive more value through programmability and automation, freeing resources for high-value

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innovation Move beyond error-prone,
box-by-box network management
Bridge management gaps arising from
current operational models Write NX-
OS software to run on, access, or
extend your Nexus switch Master
Cisco ' s powerful on-box automation
and operation tools Manage complex

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WANs with NetConf/Yang, ConfD, and
Cisco SDN Controller Interact with
and enhance Cisco Application Centric
Infrastructure (ACI) Build self-service
catalogs to accelerate application
delivery Find resources for deepening
your expertise in network automation
CCNP Enterprise Certification Study

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Official Certification Guide

Security in Network Functions

Virtualization

Exam 350-401

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media network.

This book tackles the 6G
odyssey, providing a concerted
technology roadmap towards the
6G vision focused on the
interoperability between the

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wireless and optical domain, including the benefits that are introduced through virtualization and software defined radio. The authors aim to be at the forefront of beyond 5G technologies by reflecting the integrated works of

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several major European collaborative projects (H2020-ETN-SECRET, 5GSTEPFWD, and SPOTLIGHT). The book is structured so as to provide insights towards the 6G horizon,

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reporting on the most recent developments on the international 6G research effort. The authors address a variety of telecom stakeholders, which includes practicing engineers on the field developing commercial

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solutions for 5G and beyond products; postgraduate researchers that require a basis on which to build their research by highlighting the current challenges on radio, optical and cloud-based networking for ultra-

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dense networks, including novel approaches; and project managers that could use the principles and applications for shaping new research proposals on this highly dynamic field. Provides a concerted technology

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roadmap towards the 6G vision
focused on the interoperability
between the wireless and optical
domain; Discusses the benefits
of 6G, introduced through
virtualization and software
defined radio; Includes concepts

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as well as applications to provide a base for the reader to acquire new knowledge on optical, wireless, and cloud computing. Data Center Virtualization Fundamentals For many IT organizations, today's greatest

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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

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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

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data center virtualization solution, including networking, storage, servers, operating systems, application optimization, and security. Rather than focusing on a single product or technology, he

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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

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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

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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

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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

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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

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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

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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

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Certified Professional (VCP) and
SNIA Certified Storage
Networking Expert (SCSN-E). A
frequent speaker at Cisco and
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characteristics and value of each
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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

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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

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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

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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

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"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

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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

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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,

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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

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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

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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

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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

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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

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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

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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 --

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Author of "Cisco Firewalls"

The complete guide to building
and managing next-generation
data center network fabrics with
VXLAN and BGP EVPN This is
the only comprehensive guide
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building flexible data center network fabrics with VXLAN and BGP EVPN technologies. Writing for experienced network professionals, three leading Cisco experts address everything from standards and

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protocols to functions,
configurations, and operations.
The authors first explain why and
how data center fabrics are
evolving, and introduce Cisco ' s
fabric journey. Next, they review
key switch roles, essential data

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center network fabric terminology, and core concepts such as network attributes, control plane details, and the associated data plane encapsulation. Building on this foundation, they provide a deep

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dive into fabric semantics,
efficient creation and addressing
of the underlay, multi-tenancy,
control and data plane
interaction, forwarding flows,
external interconnectivity, and
service appliance deployments.

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You ' ll find detailed tutorials, descriptions, and packet flows that can easily be adapted to accommodate customized deployments. This guide concludes with a full section on fabric management, introducing

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multiple opportunities to simplify, automate, and orchestrate data center network fabrics. Learn how changing data center requirements have driven the evolution to overlays, evolved control planes, and VXLAN BGP

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EVPN spine-leaf fabrics Discover why VXLAN BGP EVPN fabrics are so scalable, resilient, and elastic Implement enhanced unicast and multicast forwarding of tenant traffic over the VXLAN BGP EVPN fabric Build fabric

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underlays to efficiently transport
uni- and multi-destination traffic
Connect the fabric externally via
Layer 3 (VRF-Lite, LISP, MPLS
L3VPN) and Layer 2 (VPC)
Choose your most appropriate
Multi-POD, multifabric, and Data

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Center Interconnect (DCI)
options Integrate Layer 4-7
services into the fabric, including
load balancers and firewalls
Manage fabrics with POAP-
based day-0 provisioning,
incremental day 0.5

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configuration, overlay day-1
configuration, or day-2
operations

SDN: Software Defined
Networks

Enterprise Cloud Computing for
Non-Engineers

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Network Programmability and
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technologies In Detail

OpenDaylight is an open source, software-defined network controller based on standard protocols. It aims to accelerate the

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adoption of Software-
Defined Networking (SDN)
and create a solid
foundation for Network
Functions Virtualization
(NFV). SDN is a vast
subject; many network

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engineers find it difficult to get started with using and operating different SDN platforms. This book will give you a practical bridge from SDN theory to the practical,

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real-world use of SDN in datacenters and by cloud providers. The book will help you understand the features and use cases for SDN, NFV, and OpenDaylight. NFV uses

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virtualization concepts and techniques to create virtual classes for node functions. Used together, SDN and NFV can elevate the standards of your network architecture;

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generic hardware-saving costs and the advanced and abstracted software will give you the freedom to evolve your network in the future without having to invest more in costly

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equipment. By the end of this book, you will have learned how to design and deploy OpenDaylight networks and integrate them with physical network switches. You will also

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developing organizations
while others remain
perceived as a “buzz”
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comparative studies of security best practices in traditional networking scenarios and in NFV, ultimately leading to a set of recommendations on security countermeasures in NFV. This book is primarily intended for engineers, engineering students and

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