

cisco digital network architecture

Cisco Digital Network Architecture: Revolutionizing Modern Networking

cisco digital network architecture represents a significant leap forward in how organizations design, deploy, and manage their networks. In today's fast-paced digital landscape, businesses demand networks that are not only robust and scalable but also intelligent and adaptable. Cisco's Digital Network Architecture (DNA) is designed to meet these evolving needs by integrating cutting-edge technologies such as automation, analytics, and security into a unified framework. This article explores the core components of Cisco DNA, its benefits, and how it is shaping the future of enterprise networking.

Understanding Cisco Digital Network Architecture

At its core, Cisco Digital Network Architecture is a comprehensive blueprint for building and operating next-generation networks. Unlike traditional network models that rely heavily on manual configurations and siloed operations, Cisco DNA emphasizes automation and intent-based networking. This means networks can self-adapt to business requirements with minimal human intervention, enhancing agility and efficiency.

Cisco DNA is built on three foundational pillars: automation, assurance, and security. These pillars work together to transform the network from a static infrastructure component into a dynamic platform that supports digital transformation initiatives.

Automation: Simplifying Network Operations

One of the standout features of Cisco DNA is its focus on automation. Enterprises often struggle with the complexity and scale of managing modern networks, especially as they grow and evolve. Cisco DNA leverages software-defined networking (SDN) principles to automate routine tasks such as device provisioning, configuration, and policy enforcement.

With Cisco DNA Center, the centralized management dashboard, network administrators can orchestrate device onboarding, software updates, and network segmentation with just a few clicks. This reduces human error, accelerates deployment times, and frees up IT teams to focus on strategic projects rather than repetitive tasks.

Assurance: Gaining Deep Network Visibility

Another critical aspect of Cisco Digital Network Architecture is assurance. Assurance tools provide continuous monitoring and analytics to ensure the network operates optimally and meets business intent. Cisco DNA Assurance collects telemetry data from across the network, analyzes it using artificial intelligence and machine learning, and delivers actionable insights.

This proactive approach helps IT teams quickly identify and resolve issues before they impact users. For example, if an application experiences latency or packet loss, Cisco DNA Assurance can pinpoint the root cause, whether it's a misconfigured device, bandwidth bottleneck, or security threat. This level of insight empowers organizations to maintain high network performance and user satisfaction.

Security: Embedding Protection into the Network

In an era where cyber threats are increasingly sophisticated, embedding security into the network fabric is crucial. Cisco DNA integrates security at multiple layers, from device authentication to segmentation and threat detection. By using Cisco's Identity Services Engine (ISE), organizations can enforce role-based access control and dynamically segment the network to isolate sensitive data and systems.

Moreover, Cisco DNA's integration with Cisco SecureX, Cisco's security platform, enables unified threat detection and response across the network environment. This holistic security approach reduces the attack surface and helps organizations comply with regulatory requirements without sacrificing agility.

Key Components of Cisco Digital Network Architecture

To better understand how Cisco DNA works, it helps to break down its major components. Each plays a vital role in delivering the architecture's promise of a simplified, intelligent, and secure network.

Cisco DNA Center

Cisco DNA Center is the command-and-control hub for Cisco DNA. It acts as a centralized platform where network administrators can design, provision, and monitor network devices and services. Its intuitive interface provides end-to-end visibility and control, enabling tasks like automated device discovery, software image management, and policy creation.

Beyond day-to-day operations, DNA Center supports advanced automation workflows and integration with third-party tools through APIs. This extensibility allows organizations to tailor the network to their unique needs and integrate it with broader IT systems.

Software-Defined Access (SD-Access)

SD-Access is Cisco's implementation of software-defined networking for enterprise LANs. It abstracts the underlying hardware and enables policy-based automation of user and device access. With SD-Access, network segmentation is streamlined, and access policies can be applied consistently across wired and wireless environments.

This component is particularly valuable for organizations looking to enhance security and simplify network management. By separating the control plane from the data plane, SD-Access facilitates rapid changes in network policies without requiring physical reconfiguration.

Cisco DNA Assurance

As mentioned earlier, Cisco DNA Assurance provides continuous network health monitoring and analytics. It collects data from network devices, endpoints, and applications, feeding this information into AI-driven analytics engines. The result is a detailed understanding of network performance, user experience, and potential security issues.

IT teams benefit from predictive insights and automated troubleshooting recommendations, which significantly reduce mean time to repair (MTTR). This proactive capability is essential for maintaining high availability and meeting service level agreements (SLAs).

Integration with Cloud and IoT

Modern networks must support a growing array of cloud services and Internet of Things (IoT) devices. Cisco DNA is designed with this reality in mind, offering seamless integration with cloud platforms and IoT ecosystems.

For example, Cisco DNA supports hybrid cloud deployments by providing consistent policy enforcement and visibility across on-premises and cloud environments. Its architecture also accommodates IoT devices through scalable segmentation and enhanced security controls, addressing the unique challenges posed by diverse device types and communication protocols.

Benefits of Adopting Cisco Digital Network Architecture

Organizations that embrace Cisco DNA stand to gain numerous advantages that extend beyond traditional networking improvements.

- **Enhanced Agility:** Automated provisioning and policy enforcement enable rapid deployment of new devices and services, supporting dynamic business needs.
- **Improved Security Posture:** Integrated security features reduce vulnerabilities and provide better control over access and data flows.
- **Operational Efficiency:** Centralized management and AI-driven insights minimize manual tasks and speed up issue resolution.
- **Better User Experience:** Continuous assurance ensures network performance aligns with user expectations and application requirements.
- **Future-Ready Infrastructure:** Support for cloud and IoT allows organizations to innovate without network constraints.

Real-World Applications of Cisco Digital Network Architecture

Cisco DNA is being leveraged across various industries to drive digital transformation. For example, in healthcare, it enables secure and reliable connectivity for critical medical devices and telemedicine applications. Educational institutions use Cisco DNA to provide seamless wireless access and protect student data. Retailers benefit from improved customer experiences through personalized services and secure payment processing.

In each case, the common thread is Cisco DNA's ability to simplify complex network environments while delivering the flexibility and security needed in today's digital economy.

Tips for Successfully Implementing Cisco DNA

While Cisco DNA offers powerful capabilities, successful adoption requires thoughtful planning. Here are some tips to help organizations maximize the benefits:

1. **Assess Current Network Environment:** Understand existing infrastructure and identify pain points to tailor the Cisco DNA deployment effectively.
2. **Prioritize Automation:** Start with automating repetitive tasks to quickly realize operational savings and reduce errors.
3. **Focus on Security Integration:** Incorporate identity and access management early to safeguard critical assets.
4. **Leverage Analytics:** Use assurance tools to gain visibility and proactively manage network health.
5. **Train IT Staff:** Invest in training to ensure teams are comfortable with new tools and workflows.

By following these guidelines, businesses can smooth the transition to a digital-ready network and unlock Cisco DNA's full potential.

Cisco Digital Network Architecture is more than just a technology upgrade; it's a paradigm shift in how networks support business innovation. By embracing automation, assurance, and integrated security, organizations can build resilient, intelligent networks that keep pace with the demands of the digital age. Whether you're managing a sprawling enterprise network or a growing mid-sized business, Cisco DNA offers a roadmap to a smarter, more adaptive network infrastructure.

Frequently Asked Questions

What is Cisco Digital Network Architecture (DNA)?

Cisco Digital Network Architecture (DNA) is an intent-based networking solution that automates and simplifies network management by integrating software-driven policies, automation, analytics, and security into the network infrastructure.

How does Cisco DNA Center enhance network management?

Cisco DNA Center provides a centralized management dashboard that enables automation of network provisioning, policy enforcement, assurance, and troubleshooting, improving operational efficiency and reducing manual errors.

What role does automation play in Cisco Digital Network Architecture?

Automation in Cisco DNA reduces manual configuration tasks by enabling policy-driven provisioning, real-time network adjustments, and automated troubleshooting, resulting in faster deployment and improved network reliability.

How does Cisco DNA ensure network security?

Cisco DNA integrates security features such as segmentation, threat detection, and policy enforcement through Cisco's software-defined access (SD-Access) and advanced analytics, helping to protect the network from internal and external threats.

What are the benefits of implementing Cisco Digital Network Architecture in enterprises?

Implementing Cisco DNA offers benefits like simplified network management, enhanced automation, improved security, real-time analytics, and scalability, enabling enterprises to accelerate digital transformation and improve user experiences.

Additional Resources

Cisco Digital Network Architecture: Transforming Enterprise Connectivity

cisco digital network architecture (Cisco DNA) represents a significant evolution in how modern enterprises design, implement, and manage their networks. As businesses increasingly depend on digital transformation to drive innovation, agility, and operational efficiency, Cisco DNA emerges as a comprehensive framework that integrates software-driven automation, advanced analytics, and security. This architecture is designed to simplify network management while providing the scalability and flexibility required for today's dynamic IT environments.

Understanding Cisco Digital Network Architecture

At its core, Cisco Digital Network Architecture is an intent-based networking solution that enables organizations to translate business intent into network policies automatically. Unlike traditional network designs that rely heavily on manual configuration and static infrastructure, Cisco DNA leverages automation to ensure consistent policy enforcement, reduce human error, and accelerate deployment timelines.

One of the foundational elements of Cisco DNA is its software-centric approach, which abstracts network functions from underlying hardware. This abstraction allows IT teams to program the network through centralized controllers instead of individual devices. The Cisco DNA Center acts as the command and control hub, providing a single dashboard for managing the entire network lifecycle—from design and provisioning to assurance and troubleshooting.

Key Components of Cisco Digital Network Architecture

Cisco DNA integrates several technologies and modules to deliver its promise of a digital-ready network:

- **Automation:** Automates routine network tasks such as device provisioning, configuration, and updates, reducing operational overhead.
- **Analytics and Assurance:** Uses machine learning and AI-driven analytics to provide real-time insights into network performance and user experience.
- **Security:** Embeds security policies throughout the network fabric, enabling segmentation, threat detection, and rapid response.
- **Virtualization:** Supports network virtualization with Cisco SD-Access, isolating network segments and enhancing policy enforcement.
- **Programmability:** Provides APIs and tools that allow integration with third-party applications and custom network workflows.

Automation and Intent-Based Networking

One of the most transformative aspects of Cisco Digital Network Architecture is its use of intent-based networking (IBN). Traditional networks require network engineers to manually configure devices, often leading to configuration drift and inconsistencies. Cisco DNA changes this by allowing administrators to input high-level business intent—such as defining user access policies or application priorities—and then automatically translating these intents into network configurations.

Automation capabilities extend beyond configuration. Cisco DNA Center can orchestrate complex network changes, perform routine maintenance, and even remediate issues proactively. This level of automation is particularly beneficial in large-scale environments where manual management is impractical. By minimizing human intervention, Cisco DNA helps reduce

downtime and accelerate service delivery, which are critical for enterprises competing in fast-paced markets.

Analytics and Assurance: Enhancing Network Visibility

The integration of AI and machine learning analytics in Cisco DNA provides a new paradigm in network assurance. Unlike traditional monitoring tools that simply report on network status, Cisco DNA Assurance analyzes patterns, identifies anomalies, and predicts potential issues before they impact users.

This proactive approach to network management is essential in environments where performance and reliability are paramount. For example, Cisco DNA's assurance module can detect application latency or security threats and provide actionable insights through intuitive dashboards. IT teams can drill down into root causes without needing deep packet inspection or manual log analysis.

Furthermore, the analytics capabilities extend to user experience monitoring, enabling organizations to optimize their networks based on how applications perform for end-users. This level of insight supports continuous improvement and alignment of IT infrastructure with business goals.

Security Integration in Cisco Digital Network Architecture

Security remains a top concern for any enterprise network, and Cisco DNA addresses this by embedding security controls directly into the network fabric. By leveraging network segmentation through Cisco's Software-Defined Access (SD-Access), organizations can isolate sensitive data and control access dynamically.

Additionally, Cisco DNA integrates with Cisco's broader security portfolio, including threat intelligence and endpoint protection. This integration allows for rapid detection and containment of security incidents, reducing the attack surface and minimizing potential damage.

Policy enforcement is centralized and automated, ensuring consistent application of security rules across wired, wireless, and cloud environments. This unified approach helps organizations maintain compliance with regulatory requirements while simplifying security management.

Comparing Cisco DNA with Traditional Network Architectures

To fully appreciate the impact of Cisco Digital Network Architecture, it is useful to contrast it with traditional network designs:

- **Manual vs. Automated:** Traditional networks rely on manual configuration, while Cisco DNA emphasizes automation and intent-based policies.
- **Siloed vs. Integrated:** Conventional setups often have fragmented tools and management consoles; Cisco DNA offers a unified management platform.
- **Reactive vs. Proactive:** Traditional monitoring is mostly reactive; Cisco DNA Assurance uses AI to proactively identify and mitigate issues.
- **Static vs. Adaptive:** Static configurations can be slow to change; Cisco DNA supports dynamic policy enforcement aligned with business intent.

These distinctions underscore why many organizations consider Cisco DNA a strategic investment for future-proofing their networks.

Scalability and Deployment Considerations

Cisco Digital Network Architecture is designed to accommodate networks of varying sizes—from small enterprises to global multinational corporations. Its modular architecture allows organizations to adopt components incrementally, starting with automation or assurance, and scaling to full intent-based networking as readiness improves.

Deployment can be on-premises, cloud-based, or hybrid, providing flexibility in how organizations manage their infrastructure. Cisco DNA's compatibility with existing Cisco hardware also facilitates smoother transitions, minimizing disruptions during digital transformation initiatives.

However, adoption does require investment in training and change management. Network teams need to develop skills in software-defined networking and become comfortable with new operational paradigms. The initial setup of Cisco DNA Center and integration with legacy systems might pose challenges that necessitate careful planning.

Pros and Cons of Cisco Digital Network Architecture

- **Pros:**

- Significantly reduces manual network management through automation.
- Improves network visibility and performance with AI-driven analytics.
- Enhances security via integrated policies and segmentation.
- Supports scalability and flexibility for evolving business needs.
- Centralized management platform simplifies operations.

- **Cons:**

- Initial implementation complexity can be high.
- Investment in new skills and training is necessary.
- Dependence on Cisco hardware and software ecosystem may limit vendor flexibility.
- Cost considerations for smaller organizations can be a barrier.

The Future of Networking with Cisco DNA

As enterprises continue to embrace cloud computing, IoT, and edge computing, the role of flexible and intelligent networks becomes more critical. Cisco Digital Network Architecture positions itself at the forefront of this evolution, enabling networks to become adaptive, self-healing, and aligned with business strategies.

The integration of AI, automation, and security in a unified framework reflects broader industry trends toward software-defined everything. Cisco DNA's ongoing development and expansion into areas like 5G and AI-driven network optimization demonstrate Cisco's commitment to maintaining its leadership in networking innovation.

Organizations that adopt Cisco DNA today prepare themselves not only for immediate operational improvements but also for the future demands of digital business environments. The architecture's ability to deliver consistent policy enforcement, enhanced user experiences, and robust security will continue to be a valuable asset in the rapidly changing landscape of

enterprise IT.

Cisco Digital Network Architecture

cisco digital network architecture: Cisco Digital Network Architecture Tim Szigeti, David Zacks, Matthias Falkner, Simone Arena, 2018-12-27 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 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 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, your users. This guide systematically introduces Cisco DNA, highlighting its business value propositions, design philosophy, tenets, blueprints, components, and solutions. Combining insider information with content previously scattered through multiple technical documents, it provides a single source for evaluation, planning, implementation, and operation. The authors bring together 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-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 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 network architecture that is open, extensible, and programmable
- Integrate virtualization, automation, analytics, and cloud services to streamline operations and create new business 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 deployments
- Translate business intent into device configurations and simplify, scale, and automate network operations using controllers
- Use analytics to tune performance, plan capacity, 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 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
- Identify malware, ransomware, and other threats in encrypted traffic

cisco digital network architecture: Implementing Cisco Networking Solutions Harpreet Singh, 2017-09-29 Learn the art of designing, implementing, and managing Cisco's networking solutions on datacenters, wirelessly, security and mobility to set up an Enterprise network. About This Book Implement Cisco's networking solutions on datacenters and wirelessly, Cloud, Security, and Mobility Leverage Cisco IOS to manage network infrastructures. A practical guide that will show how to troubleshoot common issues on the network. Who This Book Is For This book is targeted at network designers and IT engineers who are involved in designing, configuring, and operating enterprise networks, and are in taking decisions to make the necessary network changes to meet newer business needs such as evaluating new technology choices, enterprise growth, and adding new services on the network. The reader is expected to have a general understanding of the fundamentals of networking, including the OSI stack and IP addressing. What You Will Learn Understand the network lifecycle approach Get to know what makes a good network design Design components and technology choices at various places in the network (PINS) Work on sample configurations for network devices in the LAN/ WAN/ DC, and the wireless domain Get familiar with

the configurations and best practices for securing the network Explore best practices for network operations In Detail Most enterprises use Cisco networking equipment to design and implement their networks. However, some networks outperform networks in other enterprises in terms of performance and meeting new business demands, because they were designed with a visionary approach. The book starts by describing the various stages in the network lifecycle and covers the plan, build, and operate phases. It covers topics that will help network engineers capture requirements, choose the right technology, design and implement the network, and finally manage and operate the network. It divides the overall network into its constituents depending upon functionality, and describe the technologies used and the design considerations for each functional area. The areas covered include the campus wired network, wireless access network, WAN choices, datacenter technologies, and security technologies. It also discusses the need to identify business-critical applications on the network, and how to prioritize these applications by deploying QoS on the network. Each topic provides the technology choices, and the scenario, involved in choosing each technology, and provides configuration guidelines for configuring and implementing solutions in enterprise networks. Style and approach A step-by-step practical guide that ensures you implement Cisco solutions such as enterprise networks, cloud, and data centers, on small-to-large organizations.

cisco digital network architecture: Transforming Campus Networks to Intent-Based Networking Pieter-Jan Nefkens, 2019-12-05 Migrate to Intent-Based Networking-and improve network manageability, cost, agility, security, and simplicity With Intent-Based Networking (IBN), you can create 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, 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 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 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 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 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 Anticipate how Intent-Based Networking will change your enterprise architecture, IT operations, and business

cisco digital network architecture: Study Guide focused on 300-445 ENNA: Designing and Implementing Enterprise Network Assurance Anand Vemula, The Cisco Certified Specialist - Enterprise SD-Access Implementation (ENSDA) Exam Preparation Guide is a comprehensive resource tailored for IT professionals seeking certification and mastery in Cisco's Software-Defined Access (SD-Access) solutions. Focused on practical understanding and exam readiness, this guide offers detailed coverage of all key concepts, components, and operational mechanisms behind SD-Access, aligned with Cisco's ENSDA exam blueprint. The book begins by introducing the architectural foundations of Cisco SD-Access, including its components like the fabric edge, control plane, and border nodes. It explains the role of Cisco DNA Center in automating network management, policy enforcement, and assurance, as well as how Cisco ISE integrates identity and access control. Readers gain insights into core technologies such as LISP, VXLAN, and Scalable Group Tags (SGTs), which power segmentation and secure traffic handling. With a strong focus on

hands-on learning, the guide includes over 150 multiple-choice questions (MCQs) with answers, detailed scenario-based tutorials, and real-world use cases to reinforce understanding. Troubleshooting strategies and assurance features like Client 360 and Path Trace are clearly explained to help network engineers proactively monitor and optimize SD-Access environments. Designed for both self-study and classroom use, the book offers a structured pathway to success in the ENSDA exam and beyond. Whether you're a network engineer, architect, or aspiring Cisco specialist, this guide provides the knowledge and practical skills needed to deploy and manage enterprise networks using Cisco's cutting-edge SD-Access technologies.

cisco digital network architecture: Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide Chris Jackson, Jason Gooley, Adrian Iliesiu, Ashutosh Malegaonkar, 2020-10-07 This is the eBook edition of the Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide. This eBook does not include access to the companion website with practice exam that comes with the print edition. Access to the video mentoring is available through product registration at Cisco Press; or see the instructions in the back pages of your eBook. Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for exam success. They are built with the objective of providing assessment, review, and practice to help ensure you are fully prepared for your certification exam. Master Cisco Certified DevNet Associate DEVASC 200-901 exam topics Assess your knowledge with chapter-opening quizzes Review key concepts with exam preparation tasks Learn from more than two hours of video mentoring Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide presents you with an organized test preparation routine through the use of proven series elements and techniques. "Do I Know This Already?" quizzes open each chapter and enable you to decide how much time you need to spend on each section. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Cisco Certified DevNet Associate DEVASC 200-901 Official Cert Guide focuses specifically on the objectives for the Cisco Certified DevNet Associate DEVASC exam. Four leading Cisco technology experts 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 understanding and retention of exam topics. Well regarded for its level of detail, assessment features, comprehensive design scenarios, , this official study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The official study guide helps you master all the topics on the Cisco Certified DevNet Associate DEVASC 200-901 exam, including: Software Development and Design Understanding and Using APIs Cisco Platforms and Development Application Deployment and Security Infrastructure and Automation Network Fundamentals

cisco digital network architecture: CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide Omar Santos, 2023-11-09 Trust the best-selling Official Cert Guide series from Cisco Press to help you learn, prepare, and practice for the CCNP and CCIE Security Core SCOR 350-701 exam. Well regarded for its level of detail, study plans, assessment features, and challenging review questions and exercises, CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide, Second Edition helps you master the concepts and techniques that ensure your exam success and is the only self-study resource approved by Cisco. Expert author Omar Santos shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. This complete study package includes A test-preparation routine proven to help you pass the exam Do I Know This Already? quizzes, which let you decide how much time you need to spend on each section Exam Topic lists that make referencing easy Chapter-ending exercises, which help you drill on key concepts you must know thoroughly The powerful Pearson Test Prep Practice Test software, complete with hundreds of well-reviewed, exam-realistic questions, customization options, and detailed performance reports A final preparation chapter, which guides you through tools and resources to help you craft your review and test-taking strategies Study plan suggestions and templates to help you organize and optimize your study time Content Update Program: This fully updated second edition includes the latest topics and additional information

covering changes to the latest CCNP and CCIE Security Core SCOR 350-701 exam. Visit ciscopress.com/newcerts for information on annual digital updates for this book that align to Cisco exam blueprint version changes. This official study guide helps you master all the topics on the CCNP and CCIE Security Core SCOR 350-701 exam, including Network security Cloud security Content security Endpoint protection and detection Secure network access Visibility and enforcement Companion Website: The companion website contains more than 200 unique practice exam questions, practice exercises, and a study planner Pearson Test Prep online system requirements: Browsers: Chrome version 73 and above, Safari version 12 and above, Microsoft Edge 44 and above. Devices: Desktop and laptop computers, tablets running Android v8.0 and above or iPadOS v13 and above, smartphones running Android v8.0 and above or iOS v13 and above with a minimum screen size of 4.7". Internet access required. Pearson Test Prep offline system requirements: Windows 11, Windows 10, Windows 8.1; Microsoft .NET Framework 4.5 Client; Pentium-class 1 GHz processor (or equivalent); 512 MB RAM; 650 MB disk space plus 50 MB for each downloaded practice exam; access to the Internet to register and download exam databases Also available from Cisco Press for CCNP Advanced Routing study is the CCNP and CCIE Security Core SCOR 350-701 Official Cert Guide Premium Edition eBook and Practice Test, Second Edition This digital-only certification preparation product combines an eBook with enhanced Pearson Test Prep Practice Test. This integrated learning package Enables you to focus on individual topic areas or take complete, timed exams Includes direct links from each question to detailed tutorials to help you understand the concepts behind the questions Provides unique sets of exam-realistic practice questions Tracks your performance and provides feedback on a module-by-module basis, laying out a complete assessment of your knowledge to help you focus your study where it is needed most

cisco digital network architecture: CCNA Certification Practice Tests Jon Buhagiar, 2020-03-25 The definitive study guide for the new CCNA and CCNP certifications CCNA Certification Practice Test: Exam 200-301 is the definitive practice guide for professionals preparing for the new CCNA or CCNP certifications, and for those looking to master the latest technologies in Cisco networking fundamentals. The practice exams, written by 17-year industry professional Jon Buhagiar, explore a broad range of exam objectives essential for passing the certification exam. The CCNA exam provides the certification needed to grow your IT career. Each practice exam in this book is designed to prepare you to pass the CCNA by imparting the skills, knowledge, and practical coursework needed to master all exam topics. This book includes access to six practice tests featuring 1,200 exam questions, as well as two full practice exams. Most importantly, the six practice tests featured in Certification Practice Tests Exam 200-301 cover a variety of topics, including: Security fundamentals Automation and programmability IP services IP connectivity Network success Network fundamentals In addition to a plethora of exam topics and plenty of sample questions to prepare you for the CCNA exam, readers will also have access to online test tools featuring additional practice questions and study tools to assist in reinforcing the knowledge you've gained with the book. Learn the foundational knowledge you need to pass the CCNA or CCNP and take your career to the next level by preparing with CCNA Certification Practice Tests.

cisco digital network architecture: Cisco Software-Defined Access Srilatha Vemula, Jason Gooley, Roddie Hasan, 2020-08-11 The definitive Cisco SD-Access resource, from the architects who train Cisco's own engineers and partners This comprehensive book guides you through all aspects of planning, implementing, and operating Cisco Software-Defined Access (SD-Access). Through practical use cases, you'll learn how to use intent-based networking, Cisco ISE, and Cisco DNA Center to improve any campus network's security and simplify its management. Drawing on their unsurpassed experience architecting solutions and training technical professionals inside and outside Cisco, the authors explain when and where to leverage Cisco SD-Access instead of a traditional legacy design. They illuminate the fundamental building blocks of a modern campus fabric architecture, show how to design a software-defined campus that delivers the most value in your environment, and introduce best practices for administration, support, and troubleshooting. Case studies show how to use Cisco SD-Access to address secure segmentation, plug and play,

software image management (SWIM), host mobility, and more. The authors also present full chapters on advanced Cisco SD-Access and Cisco DNA Center topics, plus detailed coverage of Cisco DNA monitoring and analytics. * Learn how Cisco SD-Access addresses key drivers for network change, including automation and security * Explore how Cisco DNA Center improves network planning, deployment, evolution, and agility * Master Cisco SD-Access essentials: design, components, best practices, and fabric construction * Integrate Cisco DNA Center and Cisco ISE, and smoothly onboard diverse endpoints * Efficiently operate Cisco SD-Access and troubleshoot common fabric problems, step by step * Master advanced topics, including multicast flows, Layer 2 flooding, and the integration of IoT devices * Extend campus network policies to WANs and data center networks * Choose the right deployment options for Cisco DNA Center in your environment * Master Cisco DNA Assurance analytics and tests for optimizing the health of clients, network devices, and applications

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