

Nx Api Cli Cisco

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NX-API CLI is an enhancement to the Cisco NX-OS CLI system, which supports XML output. NX-API CLI also supports JSON output format for specific commands. On Cisco Nexus switches, command-line interfaces (CLIs) are run only on the switch.

NX-API CLI—Cisco

About NX-API CLI On Cisco Nexus devices, command-line interfaces (CLIs) are run only on the device. NX-API CLI improves the accessibility of these CLIs by making them available outside of the switch by using HTTP/HTTPS. You can use this extension to the existing Cisco Nexus CLI system on the Cisco Nexus 3000 Series devices.

NX-API CLI—Cisco

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Cisco Nexus 9000 Series NX-OS Programmability Guide—

Cisco DevNet: APIs, SDKs, Sandbox, and Community for Cisco ...

Cisco DevNet: APIs, SDKs, Sandbox, and Community for Cisco—

NX-API CLI is a transition interface towards the full blown NX-API REST API. Normally the CLI commands on a switch are available only while connected to the device either to the console or through vty lines (telnet or SSH). With NX-API CLI, the CLI commands are available outside of switch by using HTTPS.

Network Programmability and Automation with Open NX-OS—

About NX-API CLI On Cisco Nexus devices, command-line interfaces (CLIs) are run only on the device. NX-API CLI improves the accessibility of these CLIs by making them available outside of the switch by using HTTP/HTTPS. You can use this extension to the existing Cisco Nexus CLI system on the Cisco Nexus 3000 Series devices.

Cisco Nexus 3000 Series NX-OS Programmability Guide—

Cisco Nexus 9000 Series NX-OS Programmability Guide, Release 6.x NX-API NX-API Response Elements NX-API Response Element Description Tagthathenclosingasinglecommandthatwasspecifiedintherequest.This elementhelpssociatearequestinputelementwiththeappropriate responseoutputelement. input body Bodyofthecommandresponse.

NX-API—Cisco

NX-API is an enhancement to the Cisco Nexus 5000 and 6000 Series CLI system, which supports XML output. NX-API also supports JSON output format for specific commands. Note: NX-API XML output presents information in a user-friendly format. NX-API XML does not map directly to the Cisco NX-OS NETCONF implementation. NX-API XML output can be converted into JSON. Security. NX-API supports HTTPS ...

Cisco Nexus 5000 and 6000 Series NX-OS Programmability—

NX-API CLI February 28, 2018. 3 . DEVELOPER. Adrian Ilesiu. Network Programmability at Cisco Live Melbourne . Come learn from Network Programmability expert Adrian Ilesiu in the #DevNet Zone at Cisco Live Melbourne! #CLMEd Tags . #DevNet; Australia; Cisco Live; IOS XE; New Zealand; NX-API CLI; NX-API REST; NX-OS; python; CONNECT WITH CISCO . LET US HELP . Call us: 1.800.553.6387 - Ext 118 ...

NX-API CLI—Cisco Blogs

The NX-API Sandbox is the web-based user interface that you use to enter the commands, command type, and output type for the Cisco Nexus 9000 Series device using HTTP/HTTPS. After posting the request, the output response is displayed. By default, NX-API is disabled. Begin enabling NX-API with the feature manager CLI command on the switch.

Cisco Nexus 9000 Series NX-OS Programmability Guide—

NX-API Discover Overview Videos Documents Nexus 3000 Programmer Guide Nexus 7000 Configuration Guide Downloads GitHub Help Communities Blog NX-API Overview GitHub Repository Communities Sandbox - Coming Soon 1 Discover NX-API Learn the fundamentals of the NX-API. Check out Overview 2 Watch our Videos Learn the basics of working with the NX-API.

Cisco DevNet: APIs, SDKs, Sandbox, and Community for Cisco—

Cisco Nexus switches are part of the data center offering from Cisco. They support two modes of operation based on the code that is running on them: ACI mode and standalone mode. In ACI mode, the Nexus switches form a fabric that is being managed by a central controller called APIC.

Learn network programmability and automation with Cisco—

Cisco Open NX-OS implements a data model that is available over the NX-API REST interface. This data model is organized as a hierarchical tree made up of objects. The managed objects represent both all of the configuration features of the Cisco Nexus 9000 switches AND all the operational data.

Network Automation and Programmability with Cisco Open NX—

To determine whether a device running Cisco NX-OS Software is configured with NX-API enabled, administrators can use the show feature | include nxapi command from the NX-OS CLI and verify that it is enabled. The following example shows the NX-API feature enabled on a device running Cisco NX-OS Software:

Cisco NX-OS Software NX-API Command Injection Vulnerability

For this open access lab, I can access the Sandbox NX-API page https://sbx-nxos-ingmt.cisco.com/, however, all API POSTs are returning errors.

Open NX-OS Programmability—NX-API Sandbox—Cisco Community

A vulnerability in the CLI of Cisco NX-OS Software could allow an authenticated, local attacker to access internal services that should be restricted on an affected device, such as the NX-API. The vulnerability is due to insufficient validation of arguments passed to a certain CLI command.

Cisco NX-OS Software CLI Bypass to Internal Service—

We have some nexus 9Ks in our environment and I have been testing out the NX-API functionality. One of the things I've noticed is that command authorization in tacacs really seems to have an effect. Especially as it pertains to configuration commands. I've disabled the authorization command in tacacs and now I am able to make configurations changes through the api. The way I wrote the script I ...

NX-API tacacs authorization issues—Cisco Community

cisco@toolservr:~\$ telnet 10.10.10.51 80. Trying 10.10.10.51... telnet: Unable to connect to remote host: Connection refused .cisco@toolservr:~\$ Any tips? Labels: Connectivity Issues and VPN; I have this problem too. 0 Helpful Reply. 4 REPLIES 4 .ecorban. Cisco Employee Mark as New; Bookmark; Subscribe; Mute; Subscribe to RSS Feed; Permalink; Print; Email to a Friend; Report Inappropriate ...

Open NX-API Sandbox access—Cisco Community

I have two Nexus 9000 with the feature NX-API enabled, both nexus are clean and have the same version. However, the outputs are completely different when using the "show vlan id 10" command, I'm using jon-rpe and cli command type. In one of the Nexus I get this: { "jsonrpc": "2.0", "err...

Cisco DevNet: APIs, SDKs, Sandbox, and Community for Cisco—

Cisco® Nexus switches and the new NX-OS operating system are rapidly becoming the new de facto standards for data center distribution/aggregation layer networking. NX-OS builds on Cisco IOS to provide advanced features that will be increasingly crucial to efficient data center operations. NX-OS and Cisco Nexus Switching is the definitive guide to utilizing these powerful new capabilities in enterprise environments. In this book, three Cisco consultants cover every facet of deploying, configuring, operating, and troubleshooting NX-OS in the data center. They review the key NX-OS enhancements for high availability, virtualization, In-Service Software Upgrades (ISSU), and security. In this book, you will discover support and configuration best practices for working with Layer 2 and Layer 3 protocols and networks, implementing multicasting, maximizing serviceability, providing consistent network and storage services, and much more. The authors present multiple command-line interface (CLI) commands, screen captures, realistic configurations, and troubleshooting tips/all based on their extensive experience working with customers who have successfully deployed Nexus switches in their data centers. Learn how Cisco NX-OS builds on and differs from IOS Work with NX-OS user modes, management interfaces, and system files Configure Layer 2 networking: VLANs/Private VLANs, STP, virtual port channels, and unidirectional link detection Configure Layer 3 EIGRP, OSPF, BGP, and First Hop Redundancy Protocols (FHRPs) Set up IP multicasting with PIM, IGMP, and MSDP Secure NX-OS with SSH, Cisco TrustSec, ACLs, port security, DHCP snooping, Dynamic ARP inspection, IP Source Guard, keychains, Traffic Storm Control, and more Build high availability networks using process modularity and restart, stateful switchover, nonstop forwarding, and in-service software upgrades Utilize NX-OS embedded serviceability, including Switched Port Analyzer (SPAN), Smart Call Home, Configuration Checkpoint/Rollback, and NetFlow Use the NX-OS Unified Fabric to simplify infrastructure and provide ubiquitous network and storage services Run NX-OS on the Nexus 1000V server-based software switches 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.

By containerizing applications and network services, you can achieve unprecedented levels of network agility and efficiency. Cisco IOS-XE, IOS-XR, and NX-OS Architecture have been augmented with compute virtualization capabilities to accommodate both native and third-party container hosting, empowering organizations to containerize and instantiate any application or network service. Direct from Cisco, Containers in Cisco IOS-XE, IOS-XR, and NX-OS: Orchestration and Operation is the complete guide to deploying and operating "containerized" application and network services in Cisco platforms. The authors begin by reviewing the virtualization and containerization concepts network professionals need to know, and introducing today's leading orchestration tools. Next, they take a deep dive into container networking, introducing Cisco architectural support for container infrastructures. You'll find modular coverage of characteristics, configuration, and operations for each key Cisco software platform: IOS-XE, IOS-XR, and NX-OS. A full chapter on developer tools and resources shows how to build container images with Docker, and introduces Cisco's toolkits, APIs, NX-SDK or Open Access Containers (OAC), telemetry, Nexus Data Broker, management tools, Puppet, Chef, Ansible, and more. The authors conclude with multiple use cases, showing how users in diverse markets can drive value with containers.

The definitive deep-dive guide to hardware and software troubleshooting on Cisco Nexus switches The Cisco Nexus platform and NX-OS switch operating system combine to deliver unprecedented speed, capacity, resilience, and flexibility in today's data center networks. Troubleshooting Cisco Nexus Switches and NX-OS is your single reference for quickly identifying and solving problems with these business-critical technologies. Three expert authors draw on deep experience with large Cisco customers, emphasizing the most common issues in real-world deployments, including problems that have caused major data center outages. Their authoritative, hands-on guidance addresses both features and architecture, helping you troubleshoot both control plane forwarding and data plane/data path problems and use NX-OS APIs to automate and simplify troubleshooting. Throughout, you'll find real-world configurations, intuitive illustrations, and practical insights into key platform-specific behaviors. This is an indispensable technical resource for all Cisco network consultants, systems/support engineers, network operations professionals, and CCNP/CCIE certification candidates working in the data center domain. · Understand the NX-OS operating system and its powerful troubleshooting tools · Solve problems with cards, hardware drops, fabrics, and CoPP policies · Troubleshoot network packet switching and forwarding · Property design, implement, and troubleshoot issues related to Virtual Port Channels (VPC and VPC+) · Optimize routing through filtering or path manipulation · Optimize IP/IPv6 services and FHRP protocols (including HSRP, VRRP, and Anycast HSRP) · Troubleshoot EIGRP, OSPF, and IS-IS neighbor relationships and routing paths · Identify and resolve issues with Nexus route maps · Locate problems with BGP neighbor adjacencies and enhance path selection · Troubleshoot high availability components (BFD, SSO, ISSU, and GIR) · Understand multicast protocols and troubleshooting techniques · Identify and solve problems with OTV · Use NX-OS APIs to automate troubleshooting and administrative tasks

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 programmatically and automate network interactions. In this book, Cisco experts Ryan Fischer 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, 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 ACL Campus, and WAN technologies. You'll learn how to use advanced Cisco tools along 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 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 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 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

This IBM® Redbooks® Product Guide describes the Cisco MDS 9718 Multilayer Director for IBM Storage Networking (9710-E16). The MDS 9718 has the industry's highest port density for a storage area network (SAN) director and features 768 line-rate 32 gigabits per second (Gbps) or 16 Gbps Fibre Channel ports. Designed to support multiprotocol workloads, MDS 9718 enables SAN consolidation and collapsed-core solutions for large enterprises, which reduces the number of managed switches and leads to easy-to-manage deployments. The MDS 9718 supports the 48-Port 32 Gbps Fibre Channel Switching Module, the 48-Port 16 Gbps Fibre Channel Switching Module, the 48-port 10 Gbps FCoE Switching Module, the 24-port 40 Gbps FCoE switching module, and the 24/10-port SAN Extension Module. By reducing the number of front-panel ports that are used on inter-switch links (ISLs), it also offers room for future growth. MDS 9718 addresses the mounting storage requirements of today's large virtualized data centers. As a director-class SAN switch, MDS 9718 uses the same operating system and management interface as other Cisco data center switches. It brings intelligent capabilities to a high-performance, protocol-independent switch fabric, and delivers uncompromising availability, security, scalability, simplified management, and the flexibility to integrate new technologies. You can use MDS 9718 to transparently deploy unified fabrics with Fibre Channel and Fibre Channel over Ethernet (FCoE) connectivity to achieve low total cost of ownership (TCO). For mission-critical enterprise storage networks that require secure, robust, cost-effective business-continance services, the FCIP extension module is designed to deliver outstanding SAN extension performance, reducing latency for disk and tape operations with FCIP acceleration features, including FCIP write acceleration and FCIP tape write and read acceleration.

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. Access to the personal video mentoring is available through product registration at Cisco Press; or see the instructions in the back pages of your eBook. Learn, prepare, and practice for CCNP/CCIE Data Center Core DCCOR 350-601 exam success with this Cert Guide from Cisco Press, a leader in IT certification learning and the only self-study resource approved by Cisco. · Master CCNP/CCIE Data Center Core DCCOR 350-601 exam topics · Assess your knowledge with chapter-ending quizzes · Review key concepts with exam preparation tasks · Learn from more than two hours of video mentoring CCNP and CCIE Data Center Core DCCOR 350-601 Official Cert Guide is a best-of-breed exam study guide. Expert authors Somi Maloo and Firas Ahmed 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. The book presents you with an organized test-preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. The book also contains more than two hours of personal video mentoring from the Pearson IT Certification Complete Video Course. Go to the back pages of your eBook for instructions on how to access the personal video mentoring content. Well regarded for its level of detail, assessment features, and challenging review questions and exercises, this study guide helps you master the concepts and techniques that will help you succeed on the exam the first time. This official study guide helps you master all the topics on the CCNPCCIE Data Center Core DCCOR 350-601 exam, including: · Network · Compute · Storage Network · Automation · Security

This unique Linux networking tutorial reference provides students with a practical overview and understanding of the implementation of networking protocols in the Linux kernel. By gaining a familiarity with the Linux kernel architecture, students can modify and enhance the functionality of protocol instances. -- Provided by publisher.

Invent your own Python scripts to automate your infrastructure Key Features Make the most of Python libraries and modules to automate your infrastructure Leverage Python programming to automate server configurations and administration tasks Efficiently develop your Python skill set Book Description Hands-On Enterprise Automation with Python starts by covering the set up of a Python environment to perform automation tasks, as well as the modules, libraries, and tools you will be using. We'll explore examples of network automation tasks using simple Python programs and Ansible. Next, we will walk you through automating administration tasks with Python Fabric, where you will learn to perform server configuration and administration, along with system administration tasks such as user management, database management, and process management. As you progress through this book, you'll automate several testing services with Python scripts and perform automation tasks on virtual machines and cloud infrastructure with Python. In the concluding chapters, you will cover Python-based offensive security tools and learn how to automate your security tasks. By the end of this book, you will have mastered the skills of automating several system administration tasks with Python. What you will learn Understand common automation modules used in Python Develop Python scripts to manage network devices Automate common Linux administration tasks with Ansible and Fabric Managing Linux processes Administrate VMware, OpenStack, and AWS instances with Python Security automation and sharing code on GitHub Who this book is for Hands-On Enterprise Automation with Python is for system administrators and DevOps engineers who are looking for an alternative to major automation frameworks such as Puppet and Chef. Basic programming knowledge with Python and Linux shell scripting is necessary.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. CCNA Data Center DCICN 200-150 Official Cert Guide from Cisco Press allows you to succeed on the exam the first time and is the only self-study resource approved by Cisco. Cisco Data Center experts Chad Hintz, Cesar Obediente, and Ozden Karakok share 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 allows you to decide how much time you need to spend on each section Chapter-ending exercises, which help you drill on key concepts you must know thoroughly The powerful Pearson IT Certification Practice Test software complete with hundreds of well-reviewed, exam-realistic questions customization options, and detailed performance reports 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 Well-regarded for its level of detail, study plans, assessment features, 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 DCICN 200-150 exam, including the following: Nexus data center infrastructure and architecture Networking models, Ethernet LANs, and IPv4/IPv6 addressing/routing Data center Nexus switching and routing fundamentals Nexus switch installation and operation VLANs, trunking, STP, and Ethernet switching IPv4 and IPv6 subnetting IPv4 routing concepts, protocols, configuration, and access control Data center storage networking technologies and configurations

Like sysadmins before them, network engineers are finding that they cannot do their work manually anymore. As the field faces new protocols, technologies, delivery models, and a pressing need for businesses to be more agile and flexible, network automation is becoming essential. This practical guide shows network engineers how to use a range of technologies and tools/including Linux, Python, JSON, and XML/ to automate their systems through code. Network programming and automation will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity. Through the course of the book, you'll learn the basic skills and tools you need to make this critical transition. This book covers: Python programming basics: data types, conditionals, loops, functions, classes, and modules Linux fundamentals to provide the foundation you need on your network automation journey Data formats and models: JSON, XML, YAML, and YANG for networking Jinja templating and its applicability for creating network device configurations The role of application programming interfaces (APIs) in network automation Source control with Git to manage code changes during the automation process How Ansible, Salt, and StackStorm open source automation tools can be used to automate network devices Key tools and technologies required for a Continuous Integration (CI) pipeline in network operations