

Ccna Ccna 200 120 Manual

ccna ccna 200 120 is a foundational certification offered by Cisco that validates an individual's ability to install, configure, and troubleshoot small to medium-sized networks. As one of the most recognized networking certifications globally, the CCNA (Cisco Certified Network Associate) 200-120 exam serves as a stepping stone for aspiring network engineers, administrators, and IT professionals aiming to deepen their understanding of networking concepts and Cisco technologies. This comprehensive guide will explore the essential aspects of the CCNA 200-120 certification, including its importance, exam topics, preparation strategies, and career benefits.

Understanding the CCNA 200-120 Certification

What is CCNA 200-120?

The CCNA 200-120 is a certification exam designed by Cisco to assess a candidate's knowledge and skills related to networking fundamentals, IP connectivity, security, automation, and more. Passing this exam demonstrates that the individual possesses the core skills necessary to support and manage Cisco networks.

Why is CCNA 200-120 Important?

The CCNA 200-120 certification is highly valued in the IT industry for several reasons:

- Recognized globally as a standard for networking professionals
- Serves as a prerequisite for advanced certifications like CCNP and CCIE
- Enhances job prospects and earning potential
- Validates foundational networking knowledge necessary for troubleshooting and network management

Exam Overview and Structure

Key Details

Before diving into preparation, understanding the exam structure is crucial:

- **Exam Code:** 200-120
- **Duration:** 90 minutes

- **Number of Questions:** Approximately 50-60 (varies)
- **Question Types:** Multiple-choice, drag-and-drop, simulation
- **Passing Score:** Varies; typically around 825-850 out of 1000
- **Cost:** Varies by region (generally around \$300 USD)

Core Topics Covered

The exam assesses knowledge across several domains:

- **Network Fundamentals:** OSI model, TCP/IP, Ethernet, IPv4/IPv6
- **LAN Switching Technologies:** VLANs, Spanning Tree Protocol (STP), Switch operation
- **Routing Technologies:** RIP, OSPF, EIGRP, static and default routing
- **WAN Technologies:** PPP, Frame Relay, VPNs
- **Infrastructure Services:** DHCP, NAT, NTP, SNMP
- **Security Fundamentals:** Access control, ACLs, device security
- **Automation and Programmability:** Basic understanding of network automation concepts

Preparing for the CCNA 200-120 Exam

Study Resources

Effective preparation involves leveraging various resources:

- **Official Cisco Study Guides:** Cisco Press offers comprehensive textbooks tailored for CCNA
- **Online Courses:** Platforms like Coursera, Udemy, and Cisco Networking Academy provide structured courses
- **Practice Exams:** Simulate exam conditions with mock tests available online
- **Lab Practice:** Hands-on experience with Cisco routers and switches via simulators like Cisco Packet Tracer or GNS3

Study Strategies

To maximize your preparation:

- **Create a Study Plan:** Dedicate specific days and times for each topic
- **Focus on Hands-On Practice:** Practical experience is crucial for understanding network configurations
- **Participate in Study Groups:** Collaborate with peers for knowledge sharing and motivation

- **Review and Reinforce:** Regularly revisit challenging topics and practice questions
- **Schedule the Exam:** Book your exam date once confident to stay motivated and on track

Tips for Success in the CCNA 200-120 Exam

Understand the Question Format

Familiarize yourself with the types of questions to expect, such as:

- Multiple-choice questions testing theoretical knowledge
- Simulation questions requiring configuration and troubleshooting skills
- Drag-and-drop questions assessing understanding of network diagrams

Manage Your Time Effectively

During the exam:

- Read questions carefully
- Allocate time proportionally to question difficulty
- Skip particularly challenging questions and revisit later

Focus on Key Concepts

Prioritize understanding of:

- Subnetting and IP addressing
- Switching and VLAN configuration
- Routing protocols and their differences
- Security best practices
- Basic automation concepts

Career Benefits of Achieving CCNA 200-120

Enhanced Job Opportunities

With CCNA certification, professionals can pursue roles such as:

- Network Technician
- Network Administrator
- Systems Engineer
- Technical Support Engineer
- Network Analyst

Salary Advantages

Certified professionals often command higher salaries compared to their non-certified counterparts, with potential increases of 10-20% depending on experience and location.

Foundation for Advanced Certifications

CCNA serves as a prerequisite for advanced Cisco certifications like:

- CCNP (Cisco Certified Network Professional)
- CCIE (Cisco Certified Internetwork Expert)

This provides a clear pathway for career growth and specialization.

Maintaining Your Certification

Cisco certifications are valid for three years. To maintain your CCNA:

- Earn Continuing Education (CE) credits
- Retake the exam or pursue higher certifications
- Stay updated with the latest networking trends and technologies

Conclusion

The **ccna ccna 200 120** certification remains a vital credential for networking professionals seeking to validate their skills and advance their careers. With thorough preparation, hands-on practice, and a clear understanding of core networking concepts, candidates can successfully pass the exam and unlock numerous professional opportunities. Whether you are starting your IT journey or aiming to specialize further, earning the CCNA 200-120 certification is a strategic step toward a rewarding career in networking.

CCNA 200-120

The Cisco Certified Network Associate (CCNA) 200-120 certification has long stood as a foundational benchmark for networking professionals seeking to establish a foothold in the industry. As a globally recognized credential, it validates an individual's ability to install, configure, operate, and troubleshoot small to medium-sized networks. This article offers an in-depth exploration of the CCNA 200-120, examining its structure, content, relevance, and strategic value for aspiring network engineers.

Understanding the CCNA 200-120 Certification

Overview and Significance

The CCNA 200-120 was Cisco's flagship certification for network professionals before the transition to the newer CCNA 200-301 exam. It served as a comprehensive assessment of foundational networking skills, covering a broad range of topics essential for network design, implementation, and troubleshooting.

Achieving CCNA certification demonstrated a candidate's proficiency in networking fundamentals, making it highly valued by employers across various industries. It opened doors to roles such as network technician, systems administrator, and network analyst.

Target Audience

The CCNA 200-120 was designed for:

- Entry-level networking professionals
- IT technicians seeking to validate their networking skills
- Network support engineers
- Students and recent graduates interested in networking careers

The exam was ideal for those looking to establish a strong foundational knowledge base before progressing to more advanced certifications like CCNP or CCIE.

Exam Structure and Content

Exam Format

The CCNA 200-120 exam was a 90-minute test comprising a mix of multiple-choice questions, drag-and-drop items, simulations, and testlet questions. The exam aimed to evaluate both theoretical knowledge and practical skills.

Key details included:

- Number of questions: Approximately 50-60
- Passing score: Varies; generally around 825-850 out of 1000
- Language: Available in multiple languages including English and Japanese

Core Topics Covered

The exam encompassed a comprehensive set of networking domains, such as:

- Network Fundamentals
- OSI and TCP/IP models
- Ethernet and LAN switching concepts
- IP addressing and subnetting
- Network topologies and devices
- LAN Switching Technologies
- VLAN configuration and management
- Spanning Tree Protocol (STP)
- Inter-VLAN routing
- Wireless LAN basics
- Routing Technologies
- Static and dynamic routing protocols (RIP, EIGRP)
- Routing tables and path selection
- NAT and PAT fundamentals
- WAN Technologies

- Point-to-point links
- PPP, Frame Relay, HDLC
- VPN fundamentals

- Infrastructure Services

- DHCP, DNS, and NTP
- Network security basics
- Access Control Lists (ACLs)

- Infrastructure Maintenance

- Device management and configuration
- Troubleshooting methodologies
- Basic network security practices

Learning Resources and Preparation Strategies

Official Cisco Resources

Cisco provides a wealth of official study materials, including:

- Cisco Press Books: Specifically tailored guides such as "CCNA 200-120 Official Cert Guide."
- Cisco Networking Academy: Interactive courses and labs.
- Exam Topics and Blueprints: Detailed outlines of exam objectives.

Hands-On Practice

Practical experience is crucial. Recommended approaches include:

- Setting up lab environments using Cisco Packet Tracer or GNS3
- Configuring routers and switches to simulate real-world scenarios
- Participating in virtual labs provided by Cisco or third-party training providers

Additional Study Tips

- Focus on understanding core networking concepts rather than rote memorization.
- Practice subnetting extensively; it is often a challenging area.
- Take multiple practice exams to familiarize yourself with question formats and time management.
- Join study groups or online forums for collaborative learning and doubt clearing.

Strategic Value and Career Impact

Why Pursue CCNA 200-120?

While the exam has been succeeded by newer versions like CCNA 200-301, the knowledge base from CCNA 200-120 remains highly relevant. It laid the groundwork for a comprehensive understanding of networking principles, which is essential for advanced certifications and real-world applications.

Key reasons to pursue this certification include:

- Establishing credibility with employers
- Demonstrating a solid understanding of networking fundamentals
- Building confidence to handle real-world network issues
- Enhancing employability in roles such as network technician, help desk technician, or support engineer

Career Pathways Post-CCNA

Holding a CCNA certification opens various career avenues, including:

- Network Technician
- Network Administrator
- Systems Engineer
- Security Associate
- Voice and Wireless Network Specialist

Moreover, CCNA acts as a stepping stone toward higher certifications like CCNP (Cisco Certified Network Professional) and CCIE (Cisco Certified Internetwork Expert).

Limitations and Considerations

While the CCNA 200-120 was a robust certification, it's important to recognize its limitations:

- **Obsolescence:** Cisco has replaced the 200-120 exam with the CCNA 200-301 as of February 2020, which consolidates multiple tracks into a single exam.
- **Depth of Content:** The CCNA 200-120 primarily focused on foundational topics; advanced networking topics require further certification.
- **Practical Skills:** Although the exam includes simulations, real-world experience is irreplaceable for mastering complex configurations.

For those interested in the current certification landscape, pursuing the latest CCNA 200-301 or Cisco's specialized certifications is advisable.

Conclusion: The Legacy of CCNA 200-120

The CCNA 200-120 certification played a pivotal role in shaping the careers of countless networking professionals. Its comprehensive coverage of fundamental networking concepts provided a strong foundation that remains valuable even today. Although replaced by newer exams, the core principles learned through CCNA 200-120 continue to underpin modern networking practices.

For aspiring network engineers, understanding the scope and structure of the CCNA 200-120 exam offers insight into Cisco's approach to networking education. It emphasizes a balanced blend of theoretical knowledge and practical skills—an approach that remains relevant in the rapidly evolving IT landscape.

In summary, while the CCNA 200-120 may now be a historical milestone, its influence persists in the standards it set for networking excellence and the careers it helped launch. For those seeking to enter the networking field, foundational knowledge aligned with the CCNA 200-120 framework remains a valuable asset, paving the way for advanced learning and professional growth.

Question What are the main topics covered in the CCNA 200-120 certification exam? The CCNA 200-120 exam covers network fundamentals, LAN switching technologies, IPv4 and IPv6 routing technologies, WAN technologies, infrastructure services, security fundamentals, and network automation and programmability. **Answer** How does the CCNA 200-120 exam differ from the newer CCNA certifications? The CCNA 200-120 exam is an older certification that focused on foundational networking concepts, whereas the newer CCNA certifications (such as CCNA 200-301) encompass broader topics including automation and security, reflecting evolving industry standards. What are the most effective study resources for passing the CCNA 200-120 exam? Effective resources include Cisco's official study guides, practice exams, online training courses like Cisco Networking Academy, hands-on labs, and community forums such as Cisco Learning Network. Is the CCNA 200-120 still relevant for networking careers today? While the CCNA 200-120 is being phased out in favor of newer exams, it remains valuable for foundational networking knowledge. However, aspiring network professionals should consider studying the latest CCNA versions to stay current with industry standards. What skills should I focus on to successfully pass the CCNA 200-120 exam?

Focus on understanding network fundamentals, configuring and troubleshooting switches and routers, implementing routing protocols like OSPF and EIGRP, and basic security practices. Hands-on practice and understanding key concepts are essential for success.

Related keywords: CCNA, Cisco Certified Network Associate, networking certification, Cisco CCNA exam, CCNA study guide, CCNA training, network fundamentals, Cisco switches, Cisco routers, IT networking

Ccna sp cisco com

ccna sp cisco com is a pivotal resource for network professionals aiming to excel in Cisco's Service Provider (SP) certifications and deepen their understanding of Cisco networking solutions. As the networking industry continues to evolve, Cisco remains at the forefront, offering specialized certifications such as CCNA Service Provider to validate expertise in complex service provider environments. Whether you're a network engineer, technician, or aspiring Cisco professional, understanding the significance of *ccna sp cisco com* can significantly influence your career trajectory and technical proficiency.

In this comprehensive guide, we'll explore the essentials of CCNA Service Provider certifications, delve into the resources available at *ccna sp cisco com*, and provide actionable steps to prepare for and succeed in Cisco's SP certification paths.

Understanding CCNA Service Provider Certifications

What is CCNA SP?

The Cisco Certified Network Associate (CCNA) Service Provider (SP) certification is designed for network professionals who work with large-scale service provider networks. It validates their knowledge of foundational networking concepts, including IP routing, MPLS, VPNs, and network security within service provider environments. The CCNA SP is tailored to prepare professionals for roles that involve deploying, managing, and troubleshooting service provider infrastructure.

Why is CCNA SP Important?

- **Industry Recognition:** Earning a CCNA SP certification demonstrates a professional's expertise in service provider networking, making them valuable assets to telecom companies, ISPs, and enterprise organizations.

- **Career Advancement:** Certified individuals often qualify for higher-level positions, including network engineer, system architect, or network operations center (NOC) technician.
- **Updated Knowledge:** The certification covers current technologies like IPv6, MPLS, SD-WAN, and automation, ensuring professionals stay relevant in a rapidly changing field.

Key Topics Covered in CCNA SP

- Network fundamentals and architecture
- Routing protocols (OSPF, BGP)
- MPLS VPNs and Layer 3 VPNs
- Network security and access control
- Quality of Service (QoS)
- Network automation and programmability
- IPv4 and IPv6 addressing and routing

Resources at *ccna sp cisco com*

Official Cisco Learning Resources

The website *ccna sp cisco com* serves as a hub for official Cisco training materials, including:

- Exam guides and blueprints
- Course descriptions and schedules
- Lab exercises and practice questions
- Study groups and forums

These resources are invaluable for candidates preparing for the CCNA SP exam, providing accurate information aligned with Cisco's current certification standards.

Training and Certification Paths

Cisco offers multiple ways to prepare for CCNA SP:

- **Instructor-Led Courses:** Classroom or virtual instructor-led training sessions that cover all exam topics.
- **Self-Paced Online Learning:** Modules and labs available for learners to study at their own pace.
- **Lab Simulations:** Virtual labs to practice configuration and troubleshooting skills.

- **Practice Exams:** Sample questions to assess readiness and identify areas for improvement.

Community and Support

ccna sp cisco com also hosts forums, discussion groups, and blogs where aspiring and certified professionals share insights, ask questions, and discuss industry trends. Engaging with these communities can provide practical tips and networking opportunities.

Preparing for the CCNA SP Exam

Study Strategies

To succeed in the CCNA SP exam, a structured approach is essential:

- Review the exam blueprint thoroughly to understand the scope.
- Utilize official Cisco study guides and courses.
- Practice configuration and troubleshooting with lab simulations.
- Participate in study groups or online forums at *ccna sp cisco com*.
- Take multiple practice exams to evaluate your knowledge and timing.

Key Skills to Develop

- Understanding of Cisco routers and switches in service provider networks
- Configuring MPLS VPNs and BGP routing
- Implementing network security policies
- Troubleshooting complex network issues
- Automating network configurations using Cisco tools and APIs

Exam Details

- Format: Multiple-choice, simulation, and drag-and-drop questions
- Duration: Typically 90 minutes
- Prerequisites: While CCNA SP is an entry-level certification, a solid foundation in networking fundamentals is recommended.
- Recertification: Valid for three years, requiring continued education or re-examination.

Advancing Beyond CCNA SP

Higher-Level Certifications

After achieving CCNA SP, professionals can pursue more advanced Cisco certifications:

- CCNP Service Provider
- CCIE Service Provider

These certifications focus on complex network design, deployment, and troubleshooting at enterprise or service provider scale.

Complementary Skills and Certifications

Developing skills in network automation, cybersecurity, and cloud integrations can enhance your profile. Certifications such as Cisco DevNet or Cisco CyberOps complement CCNA SP knowledge, opening doors to versatile roles.

Conclusion

The *ccna sp cisco com* website is a comprehensive portal for aspiring and current Cisco service provider network professionals. It offers vital resources, training materials, and community support essential for mastering the CCNA Service Provider certification. Achieving this credential not only validates your technical skills but also positions you at the forefront of modern networking technology, ready to tackle the challenges of large-scale service provider environments.

By leveraging the resources available at *ccna sp cisco com*, developing a disciplined study plan, and gaining hands-on experience, you can confidently pursue and attain your CCNA SP certification. This achievement can significantly enhance your career prospects, increase earning potential, and establish you as a knowledgeable professional in the dynamic field of service provider networking.

ccna sp cisco com: An In-Depth Exploration of Cisco's Specialized Networking Certification and Resources

In the rapidly evolving world of networking and cybersecurity, Cisco Systems remains a dominant force, shaping the industry through innovative solutions, comprehensive training programs, and globally recognized certifications. Among these offerings, the domain *ccna sp cisco com* stands out as a pivotal resource for networking professionals aiming to specialize and advance their careers. This article provides a detailed, analytical overview of what *ccna sp cisco com* encompasses, its significance within Cisco's certification ecosystem, and how it serves as a vital tool for networking expertise.

Understanding Cisco's Certification Ecosystem

Overview of Cisco Certifications

Cisco certifications are globally respected benchmarks for validating networking knowledge, skills, and expertise. They are structured in a tiered manner, starting from foundational levels and ascending to specialized and expert certifications. The primary categories include:

- Entry-Level Certifications: Cisco Certified Entry Networking Technician (CCENT)
- Associate Level: Cisco Certified Network Associate (CCNA)
- Professional Level: Cisco Certified Network Professional (CCNP)
- Expert Level: Cisco Certified Internetwork Expert (CCIE)

Within this framework, ccna sp cisco com relates specifically to the CCNA specialization in service provider (SP) networking, emphasizing skills pertinent to service provider environments.

The Role of Specializations in Cisco Certifications

Specializations allow professionals to target specific areas within networking, such as security, collaboration, data center, or service provider networks. These focus areas are essential given the diversity and complexity of modern networks. The ccna sp (Cisco Certified Network Associate Service Provider) is tailored for those seeking foundational knowledge in service provider architectures, protocols, and technologies.

Deciphering ccna sp cisco com

What is ccna sp cisco com?

The term ccna sp cisco com is primarily associated with Cisco's official web portal dedicated to the CCNA Service Provider certification track. This domain serves as the central hub for resources, training materials, exam information, and registration details related to CCNA SP.

Key Functions of ccna sp cisco com include:

- Providing official curriculum guidelines and exam blueprints
- Offering access to training courses and study materials
- Facilitating exam registration and scheduling
- Sharing updates on certification policies and requirements
- Hosting community forums and support resources

In essence, ccna sp cisco com functions as Cisco's authoritative platform for professionals interested in the CCNA Service Provider track.

Significance of the Platform

The platform consolidates authoritative information, ensuring candidates and professionals stay updated on the latest curriculum changes, exam formats, and industry trends. Its importance lies in:

- Authenticity: Ensuring users access official and reliable resources
- Convenience: Centralizing all necessary tools and information
- Support: Offering community and technical support avenues
- Preparation: Providing practice exams, study guides, and training options

Core Topics Covered in CCNA Service Provider (SP)

The CCNA SP curriculum is designed to equip networking professionals with foundational knowledge of service provider networks, focusing on core technologies, protocols, and architectures.

Fundamental Concepts

- Service Provider Network Architecture: Understanding the differences between enterprise and service provider networks, including core, distribution, and access layers.
- Routing and Switching: Mastery of protocols like OSPF, BGP, and MPLS, which are essential for large-scale service provider networks.
- WAN Technologies: Knowledge of leased lines, VPNs, Metro Ethernet, and other WAN services.
- Network Security: Basic principles of securing service provider infrastructure.

Advanced Topics and Technologies

- **Quality of Service (QoS): Ensuring efficient traffic management and prioritization.**
- **Network Automation and Programmability: Introduction to APIs and automation tools used in modern networks.**
- **IPv6: Transition mechanisms and implementation in service provider environments.**
- **Network Management: Monitoring, troubleshooting, and maintaining large-scale networks.**

Practical Implications and Career Benefits

Skills Gained from CCNA SP Certification

Achieving the CCNA SP certification signifies a solid understanding of service provider network fundamentals. It validates skills such as:

- Configuring and verifying network protocols like BGP and MPLS
- Implementing scalable routing solutions
- Troubleshooting network issues efficiently
- Understanding the architecture of modern service provider networks

Career Opportunities

Professionals holding a CCNA SP credential are well-positioned for roles such as:

- Network Associate/Engineer in Service Provider Organizations
- Network Support Specialist
- Infrastructure Technician
- Network Operations Center (NOC) Technician
- Junior Network Architect in large-scale deployments

These roles often serve as stepping stones toward more advanced certifications like CCNP Service Provider or CCIE Service Provider.

Industry Demand and Market Trends

As the demand for high-speed internet, cloud services, and IoT expands, service providers are investing heavily in modern infrastructure. Skilled professionals with CCNA SP certification are critical for deploying, managing, and securing these networks, ensuring career stability and growth.

Preparation Strategies and Resources on [ccna sp cisco com](https://www.cisco.com/c/na/training/certification/ccna-sp)

Official Study Materials

- Exam Blueprints and Guides: Detailed outlines of exam topics
- Training Courses: Instructor-led and e-learning modules
- Practice Exams: Simulated tests to assess readiness

- Lab Exercises: Hands-on configuration scenarios

Supplementary Resources

- Cisco Networking Academy: Community-driven training programs
- Third-party training providers offering courses aligned with Cisco standards
- Online forums and study groups for peer support

Tips for Success

- Regularly review updated curriculum on ccna sp cisco com
- Gain hands-on experience through labs and simulations
- Use practice exams to identify weak areas
- Stay informed on industry trends via the platform's news and updates section
- Engage with community forums for insights and troubleshooting tips

Challenges and Future Outlook

Challenges Faced by Candidates

- Rapid technological changes requiring continuous learning
- Complex topics like MPLS, BGP, and automation
- Balancing study time with professional commitments

Future Trends in Service Provider Networking

- Network Automation and SDN: Increasing integration of software-defined networking
- 5G and Edge Computing: New paradigms demanding advanced skills
- Security Enhancements: Evolving threats necessitating ongoing education
- Certification Evolution: Cisco may update and expand the CCNA SP curriculum to reflect technological advancements

Implication: Professionals must leverage platforms like ccna sp cisco com to stay current and adapt to industry shifts.

Conclusion

The domain ccna sp cisco com serves as a cornerstone for networking professionals aiming to establish or enhance their expertise in service provider environments. It offers a comprehensive, official, and authoritative platform for learning, certification, and professional growth. As service provider networks continue to evolve with emerging technologies, possessing a solid foundation validated by Cisco's CCNA SP certification remains a valuable asset in the global networking landscape. Through diligent preparation and continuous engagement with resources like ccna sp cisco com, professionals can position themselves at the forefront of the industry, ready to tackle future challenges and opportunities.

In summary, whether you are just beginning your networking journey or seeking to specialize further, understanding and utilizing ccna sp cisco com is crucial. It embodies Cisco's commitment to fostering a skilled workforce capable of designing, deploying, and managing the complex networks that underpin modern digital infrastructure.

QuestionAnswer What is the purpose of the CCNA SP certification from Cisco? The CCNA Service Provider (SP) certification validates your skills in networking fundamentals, service provider architecture, and solutions, preparing you for roles in managing and deploying service provider networks. How does 'cisco.com' relate to CCNA SP certification? Cisco.com is Cisco's official website where you can find resources, training materials, exam information, and updates related to the CCNA SP certification and other Cisco certifications. What topics are covered in the CCNA SP certification exam? The exam covers topics such as service provider architecture, IP addressing, routing protocols, MPLS, QoS, VPNs, and network security relevant to service provider networks. How can I access official CCNA SP training resources on cisco.com? You can access official training resources, study guides, and e-learning modules for CCNA SP through Cisco's Learning Network and the Cisco Training & Certification portal on cisco.com. What are the prerequisites for taking the CCNA SP exam? There are no formal prerequisites, but Cisco recommends having foundational networking knowledge and some experience with network operations before pursuing CCNA SP. Is the CCNA SP certification suitable for beginners in networking? While it is designed for those with some networking background, motivated beginners with a good understanding of basic networking concepts can pursue CCNA SP with proper study and preparation. How often is the CCNA SP exam updated on cisco.com? Cisco updates its certification exams periodically to reflect technological advancements; check cisco.com for the latest exam topics, updates, and requirements for CCNA SP.

Related keywords: CCNA, Cisco, networking, certification, Cisco SP, service provider, routing, switching, network security, CCNA SP

Read the full article online: [Ccna sp cisco com](https://www.cisco.com/c/enr/learning/certification/ccna-sp.html)