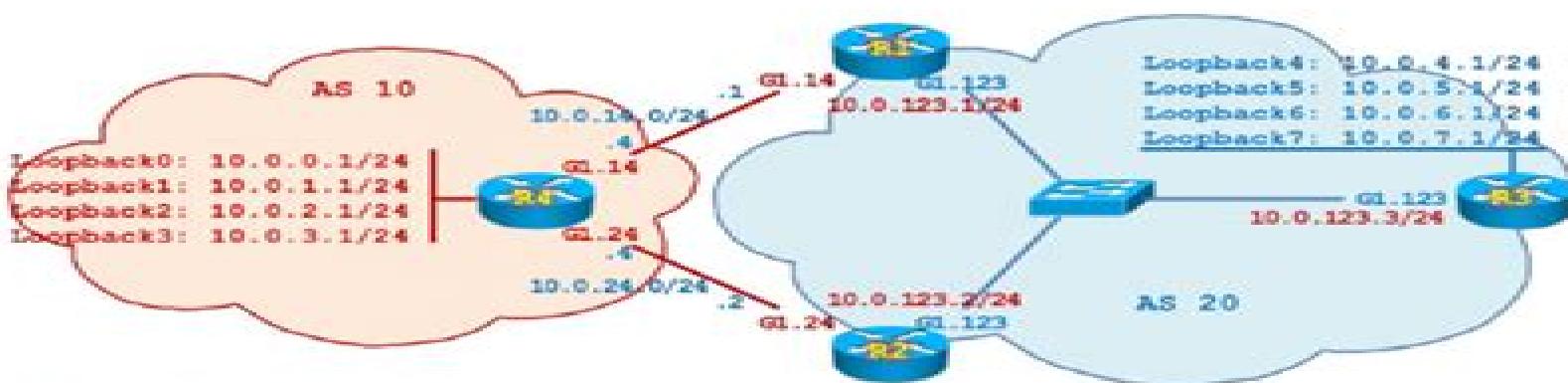


# LAB Summary



## PHẦN 1 – YÊU CẦU CƠ BẢN

- Xóa cấu hình, khởi động lại tất cả thiết bị với cấu hình trống
- Thiết lập sơ đồ như hình minh họa
- Đặt hostname, gán địa chỉ IP tương ứng cho các thiết bị
- Cấu hình telnet không password trên tất cả các thiết bị
- Cấu hình câu lệnh chống trôi dòng lệnh “logging synchronous”

## PHẦN 2 – YÊU CẦU CHÍNH

### 1. Static route:

- Cấu hình định tuyến tĩnh đảm bảo mạng hội tụ

### 2. Summary:

- Cấu hình summary trên thiết bị hợp lý để làm gọn bảng định tuyến. Đảm bảo các interface loopback có thể ping lẫn nhau.

### 3. Summary (bonus 1):

- Tại R1 tạo các interface loopback sau:
  - Interface loopback 1 có IP: 10.1.0.1/16
  - Interface loopback 2 có IP: 10.2.0.1/16
  - Interface loopback 3 có IP: 10.3.0.1/16
  - Interface loopback 4 có IP: 10.4.0.1/16
  - Interface loopback 5 có IP: 10.5.0.1/16
  - Interface loopback 6 có IP: 10.6.0.1/16
  - Interface loopback 7 có IP: 10.7.0.1/16
- Cấu hình định tuyến trên các thiết bị còn lại đảm bảo các interface loopback có thể “ping” được nhau.

### 4. Summary (bonus 2):

- Tại R2 tạo các interface loopback:

# Ccna Routing And Switching Virtual Lab

**Todd Lammle,William Tedder**

## Ccna Routing And Switching Virtual Lab:

**CCNA Routing and Switching Virtual Lab, Titanium Edition 4.0, Download Edition** William Tedder,2014-01-17

*CCNA Routing and Switching Deluxe Study Guide* Todd Lammle,William Tedder,2014-11-19 Get More with the Deluxe Edition This Deluxe Edition of our bestselling CCNA Study Guide features a ton of bonus materials including more than 1 000 practice questions author videos a network simulator that can be used to perform all of the hands on exercises and the e book in multiple formats The book contains 100% coverage the ICND1 ICND2 and CCNA Composite exams and features detailed information and examples on crucial Cisco networking topics drawn from Todd Lammle s more than 30 years of real world experience This Deluxe Study Guide contains authoritative coverage of all exam topics including Operation of IP Data Networks LAN Switching Technologies IP Addressing IPv4 IPv6 IP Routing Technologies IP Services Network Device Security Troubleshooting LAN Switching Technologies WAN Technologies With all of the bonus materials this Deluxe Edition of the Sybex CCNA Routing and Switching Study Guide gives you the tools you need to study practice and review so that you can approach the exam with confidence

**CCNA Virtual Lab, Titanium Edition 2.0** William Tedder,2009-02-03

This virtual network simulator is ideal for candidates studying for the new CCNA exam 640 802 who cannot afford thousands of dollars to set up their own Cisco home lab Offering hands on practice with routers and switches is critical for success on the CCNA exam and this simulator uses drag and drop technology to create a simulated lab using an unlimited number of routers and switches Also included are lab exercises and guidance to help students experiment with hundreds of configuration commands built into the simulator Plus 250 hands on labs zero in on skills that are critical for exam success and an extensive Help menu is available to guide you through complex tasks

[CCNA Routing and Switching Certification Kit](#)

Todd Lammle,William Tedder,2014-01-28 Everything You Need to Prepare for the CCNA Routing and Switching Exams This value priced bundle contains everything certification candidates need to prepare for CCNA exams ICND1 100 101 ICND2 200 101 and the CCNA Composite exam 200 120 well as build the foundation for a career as a networking administrator Featuring the bestselling CCNA Study Guide from Cisco Networking Authority Todd Lammle this kit is a complete prep package that will enable you to study practice and review so that you can approach the exam with confidence The Certification Kit includes CCNA Routing and Switching Study Guide Provides in depth coverage of every exam objective access to over an hour of useful video and audio files a network simulator to help you complete the hands on labs without additional hardware and a practice test environment with hundreds of questions flashcards and more CCNA Routing and Switching Virtual Lab Titanium Edition 4 0 Allows you to create simulated networks using an unlimited number of routers and switches Exam candidates can either follow the prepared lab exercises or experiment with the hundreds of configuration commands built into the simulator CCNA Routing and Switching Review Guide Organized by exam objectives this focused concise guide provides you with that last minute prep to hammer home concepts Content in this book maps directly to the main exam

objectives so you can focus your study and make the most of your time The CCNA Routing and Switching Certification Kit is your one stop complete resource for CCNA Routing and Switching exam prep **CCNA Routing and Switching Study Guide** Todd Lammle,2013-10-07 Prepare for the new CCNA exams with this Todd Lammle study guide Cisco author speaker and trainer Todd Lammle is considered the authority on all things networking and his books have sold almost a million copies worldwide This all purpose CCNA study guide methodically covers all the objectives of the ICND1 100 101 and ICND2 200 101 exams as well as providing additional insight for those taking CCNA Composite 200 120 exam It thoroughly examines operation of IP data networks LAN switching technologies IP addressing IPv4 IPv6 IP routing technologies IP services network device security troubleshooting and WAN technologies Valuable study tools such as a companion test engine that includes hundreds of sample questions a pre assessment test and multiple practice exams Plus you ll also get access to hundreds of electronic flashcards author files and a network simulator CCNA candidates may choose to take either the ICND1 100 101 and ICND2 200 101 exams or the CCNA Composite exam 200 120 this study guide covers the full objectives of all three Written by bestselling Sybex study guide author Todd Lammle an acknowledged authority on all things Cisco Covers essential Cisco networking topics such as operating an IP data network IP addressing switching and routing technologies troubleshooting network device security and much more Includes a comprehensive set of study tools including practice exams electronic flashcards comprehensive glossary of key terms videos and a network simulator that can be used with the book s hands on labs Bonus Content Access to over 40 MicroNugget videos from CBT Nuggets CCNA Routing and Switching Study Guide prepares you for CCNA certification success **CCNA Routing and Switching Deluxe Study**

**Guide** Todd Lammle,William Tedder,2013-12-23 Get More with the Deluxe Edition This Deluxe Edition of our bestselling CCNA Study Guide features a ton of bonus materials including more than 1 000 practice questions author videos a network simulator that can be used to perform all of the hands on exercises and the e book in multiple formats The book contains 100% coverage the ICND1 ICND2 and CCNA Composite exams and features detailed information and examples on crucial Cisco networking topics drawn from Todd Lammle s more than 30 years of real world experience This Deluxe Study Guide contains authoritative coverage of all exam topics including Operation of IP Data Networks LAN Switching Technologies IP Addressing IPv4 IPv6 IP Routing Technologies IP Services Network Device Security Troubleshooting LAN Switching Technologies WAN Technologies With all of the bonus materials this Deluxe Edition of the Sybex CCNA Routing and Switching Study Guide gives you the tools you need to study practice and review so that you can approach the exam with confidence *LAN Switching and Wireless, CCNA Exploration Companion Guide* Wayne Lewis,2008-04-28 LAN Switching and Wireless CCNA Exploration Companion Guide Wayne Lewis Ph D LAN Switching and Wireless CCNA Exploration Companion Guide is the official supplemental textbook for the LAN Switching and Wireless course in the Cisco Networking Academy CCNA Exploration curriculum version 4 This course provides a comprehensive approach to learning the

technologies and protocols needed to design and implement a converged switched network The Companion Guide written and edited by a Networking Academy instructor is designed as a portable desk reference to use anytime anywhere The book s features reinforce the material in the course to help you focus on important concepts and organize your study time for exams New and improved features help you study and succeed in this course Chapter objectives Review core concepts by answering the questions listed at the beginning of each chapter Key terms Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context in each chapter Glossary Consult the all new comprehensive glossary with more than 190 terms Check Your Understanding questions and answer key Evaluate your readiness with the updated end of chapter questions that match the style of questions you see on the online course quizzes The answer key explains each answer Challenge questions and activities Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam The answer key explains each answer Wayne Lewis is the Cisco Academy Manager for the Pacific Center for Advanced Technology Training PCATT based at Honolulu Community College How To Look for this icon to study the steps that you need to learn to perform certain tasks Packet Tracer Activities Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4 1 developed by Cisco The files for these activities are on the accompanying CD ROM Also available for the LAN Switching and Wireless course LAN Switching and Wireless CCNA Exploration Labs and Study Guide ISBN 10 1 58713 202 8 ISBN 13 978 1 58713 202 5 Companion CD ROM See instructions within the ebook on how to get access to the files from the CD ROM that accompanies this print book The CD ROM provides many useful tools and information to support your education Packet Tracer Activity exercise files A Guide to Using a Networker s Journal booklet Taking Notes A txt file of the chapter objectives More IT Career Information Tips on Lifelong Learning in Networking This book is part of the Cisco Networking Academy Series from Cisco Press Books in this series support and complement the Cisco Networking online curriculum

*CCSP: Secure Intrusion Detection and SAFE Implementation Study Guide* Justin Menga, Carl Timm, 2006-02-20 Here s the book you need to prepare for Cisco s Secure Intrusion Detection CSIDS and SAFE Implementation CSI exams This Study Guide was developed to meet the exacting requirements of today s certification candidates In addition to the focused and accessible instructional approach that has earned Sybex the Best Study Guide designation in the 2003 CertCities Readers Choice Awards this two in one Study Guide provides Focused coverage on working with a Cisco Intrusion Detection System and SAFE Implementation Practical examples and insights drawn from real world experience Leading edge exam preparation software including the Sybex testing engine and electronic flashcards for your Palm Authoritative coverage of all exam objectives including Secure Intrusion Detection Designing a Cisco IDS protection solution Installing and configuring a Cisco IDS Sensor Tuning and customizing signatures to work optimally in specific environments Performing device management of supported blocking devices Performing maintenance operations

Monitoring a protection solution for small and medium networks Managing a large scale deployment of Cisco IDS Sensors  
SAFE Implementation Security Fundamentals Architectural Overview Cisco Security Portfolio SAFE Small Network Design  
SAFE Medium Network Design SAFE Remote User Network Implementation Note CD ROM DVD and other supplementary  
materials are not included as part of eBook file **CCSP Complete Study Guide** Todd Lammle,Wade Edwards,Tom  
Lancaster,Justin Menga,Eric Quinn,Jason Rohm,Carl Timm,Bryant G. Tow,2006-07-14 The Most Comprehensive and Current  
CCSP Self Study Solution on the Market Here s the comprehensive and economical self study solution that will provide you  
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642 511 Cisco Secure VPN 642 521 Cisco Secure PIX Firewall Advanced 642 531 Cisco Secure Intrusion Detection System  
642 541 Cisco SAFE Implementation Note CD ROM DVD and other supplementary materials are not included as part of  
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**Cisco CCNA Routing and Switching 200-120 Network Simulator** Wendell Odom,Sean Wilkins,2013-12-19  
Cisco CCNA Routing and Switching 200 120 Network Simulator helps you develop and improve hands on configuration and  
troubleshooting skills without the investment in expensive lab hardware This state of the art interactive simulation software  
enables you to practice your networking skills with almost 400 structured labs designed to help you learn by doing the most  
effective method of learning Experience realistic network device response as you perform each lab which includes detailed  
instructions topology diagrams critical thinking questions hints and answers Working through the labs you will quickly  
become proficient with all the common Cisco IOS version 15 router and switch commands on the CCNA Routing and  
Switching exam Unlike other simulators on the market the lab scenarios included in the Cisco CCNA Routing and Switching  
200 120 Network Simulator are far more complex challenging you to learn how to perform real world network configuration  
and troubleshooting tasks

**Routing and Switching Essentials Companion Guide** Cisco Networking Academy,Cisco  
Networking Academy Program,2014 Routing and Switching Essentials Companion Guide is the official supplemental textbook  
for the Routing and Switching Essentials course in the Cisco Networking Academy CCNA Routing and Switching curriculum  
This course describes the architecture components and operations of routers and switches in a small network You learn how  
to configure a router and a switch for basic functionality By the end of this course you will be able to configure and  
troubleshoot routers and switches and resolve common issues with RIPv1 RIPv2 single area and multi area OSPF virtual  
LANs and inter VLAN routing in both IPv4 and IPv6 networks The Companion Guide is designed as a portable desk reference

to use anytime anywhere to reinforce the material from the course and organize your time. The book's features help you focus on important concepts to succeed in this course. Chapter objectives Review core concepts by answering the focus questions listed at the beginning of each chapter. Key terms Refer to the lists of networking vocabulary introduced and highlighted in context in each chapter. Glossary Consult the comprehensive Glossary with more than 200 terms. Summary of Activities and Labs Maximize your study time with this complete list of all associated practice exercises at the end of each chapter. Check Your Understanding Evaluate your readiness with the end of chapter questions that match the style of questions you see in the online course quizzes. The answer key explains each answer. Related Title Routing and Switching Essentials Lab Manual How To Look for this icon to study the steps you need to learn to perform certain tasks. Interactive Activities Reinforce your understanding of topics by doing all the exercises from the online course identified throughout the book with this icon. Videos Watch the videos embedded within the online course. Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout the chapters. Hands on Labs Work through all the course labs and additional Class Activities that are included in the course and published in the separate Lab Manual.

**CCNA: Cisco Certified Network Associate Study Guide** Todd Lammle, 2005-03-08

If you're serious about getting your CCNA certification and advancing your career in the field of internetworking, then here's the book you need. This Deluxe Edition of the best selling CCNA Cisco Certified Network Associate Study Guide was developed to meet the exacting requirements of today's Cisco certification candidates. In addition to the engaging and accessible instructional approach that has earned author Todd Lammle the Best Study Guide Author award in CertCities Readers Choice Awards for two consecutive years, this updated fourth edition provides In-depth coverage of every CCNA exam objective. Expanded IP addressing and subnetting coverage. More detailed information on EIGRP and OSPF. Leading edge exam preparation software including the CCNA Virtual Lab Gold Edition as well as Sybex's custom test engine electronic flashcards and the entire book in PDF. Authoritative coverage of all exam objectives including Network planning, designing, Implementation, operation, LAN and WAN troubleshooting, Communications technology.

**CCNA** Todd Lammle, 2003-11-21

If you're serious about getting your CCNA certification and advancing your career in the field of internetworking, then here's the book you need. This Deluxe Edition of the best selling CCNA Cisco Certified Network Associate Study Guide provides In-depth coverage of every exam objective. Practical information on essential network configuration tasks. Expert insight into real world implementation of Cisco internetworking technologies. Leading edge exam preparation software including the CCNA Virtual Lab Gold Edition as well as Sybex's custom test engine electronic flashcards and the entire book in PDF. Provides authoritative coverage of all exam objectives including Network planning, designing, Implementation, operation, LAN and WAN troubleshooting, Communications technology.

**Cisco Routers 24seven** Andrew Hamilton, John Mistichelli, Bryant G. Tow, 2000

24seven is the series for experienced administrators who need to get the most out of their networks hardware and software. Starting at the point at which other

books and training courses end and the real world begins the 24seven series delivers a detailed high level approach to the information that administrators need to provide their companies with expert services 24seven books are written to build on the knowledge you already have These books don t waste time covering the basic information you already know or that you can easily figure out on your own Instead they focus on the hard to find information that will enable you to make informed choices when installing administering and troubleshooting hardware and software Get beyond Cisco certification Starting at the level at which other books end Cisco Routers 24seven provides the advanced information that experienced administrators need to configure and troubleshoot Cisco routers Written by expert network implementers this book shows you how to integrate Cisco routers into existing environments build new environments around an infrastructure of Cisco routers confi

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### **Cisco Ccna Routing and Switching 200-120**

**Network Simulator** Wendell Odom,Sean Wilkins,Piyasat Nilkaew,Jeffrey S. Beasley,2014-05-23 Note this version is for instructor led classroom use only If you are looking for the self study version the ISBN for that is 978 0 7897 5088 0 Cisco CCNA Routing and Switching 200 120 Network Simulator helps students in the classroom develop and improve hands on configuration and troubleshooting skills without the investment in expensive lab hardware This state of the art interactive simulation software enables you to practice your networking skills with almost 400 structured labs designed to help you learn by doing the most effective method of learning Topics covered include router and switch navigation and administration Ethernet LAN switches VLANs and trunking Spanning Tree Protocol STP IPv4 and IPv6 addressing and subnetting subnet design VLSM route summarization IPv4 Access Control Lists ACL Network Address Translation NAT DHCP HSRP GLBP router on a stick ROAS operating Cisco routers IPv4 and IPv6 routing OSPF configuration and troubleshooting EIGRP configuration and troubleshooting Frame Relay network management SNMP IOS licensing and network troubleshooting

Experience realistic network device responses as you perform each lab which include detailed instructions topology diagrams critical thinking questions hints and answers Working through the labs you will quickly become proficient with all the common Cisco IOS version 15 router and switch commands on the CCNA Routing and Switching exam Choose from almost 400 labs organized by lab type or by topic Track your progress with the lab status indicator and use the new search feature to search for commands and keywords Review lab objectives and step by step instructions within each lab opening hints and tips sections that help you when you get stuck Record your observations on device performance in interactive tables Enter answers to critical thinking questions and get instant feedback to verify your work Access performance reports in this easy to navigate grade history screen which store all your attempts on each lab View device configuration details lab question performance time to complete each lab and CLI activity for each device in every lab Export lab results to PDF files for easy sharing Unlike other simulators on the market the lab scenarios included in the Cisco CCNA Routing and Switching 200 120 Network Simulator are far more complex challenging you to learn how to perform real world network configuration and troubleshooting tasks Note this version is for classroom use The ISBN for the version for personal study is 978 0 7897 5088 0

**CCT/CCNA Routing and Switching All-in-One Exam Guide (Exams 100-490 & 200-301)** Glen E. Clarke, Richard Deal, 2021-01-01 This new All in One Exam Guide covers every topic on the current version of Cisco's CCT and CCNA exams Take the 2020 versions of the Cisco Certified Technician CCT and Cisco Certified Network Associate CCNA exams with complete confidence using the detailed information contained in this highly effective self study system Written by a pair of Cisco networking professionals and training experts CCT CCNA Routing and Switching All in One Exam Guide Exams 100 490 200 301 fully explains all subjects covered on both exams and contains practice questions that mirror those on the live test in tone format and content Beyond fully preparing you for the challenging exam the book also serves as a valuable on the job reference Covers all topics on both exams including Network fundamentals OSI model TCP IP protocol suite Subnetting and VLSM Cisco device and IOS basics Cisco device management Switching Static and dynamic routing IP services and IPv6 Wireless Security fundamentals Implementing security on Cisco devices Automation and programmability

## **Ccna Routing And Switching Virtual Lab** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ccna Routing And Switching Virtual Lab**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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## **Ccna Routing And Switching Virtual Lab Introduction**

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