

CCNA Lab Manual for Computer Network design in Cisco Packet Tracer

Name: Faysal Sarder

Student, Department of CSE

City University, BD

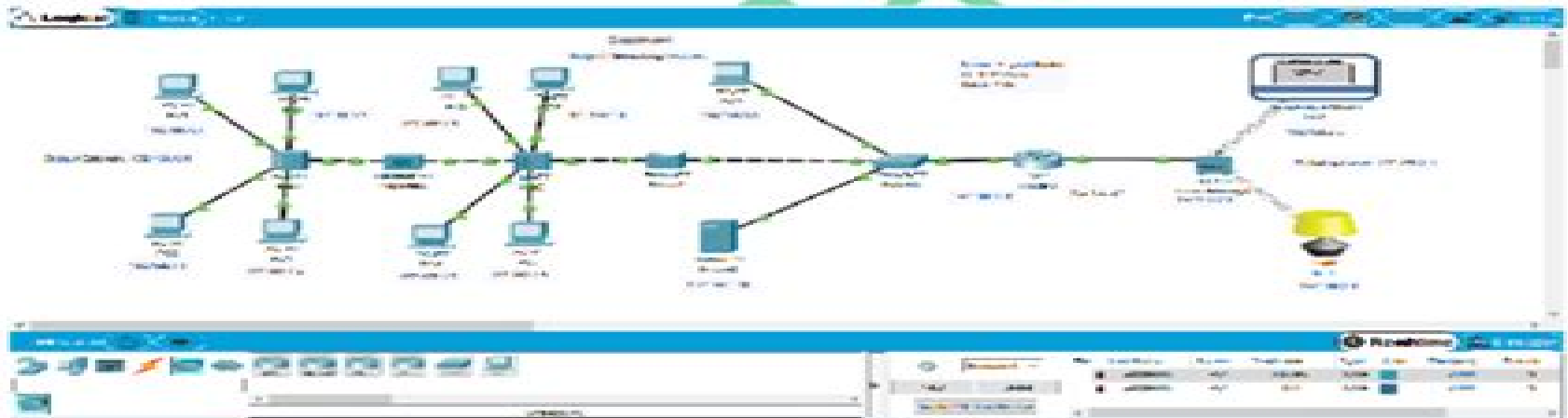
Experiment-1

• Study of different Network Devices

○ Necessary Equipment's:

1. 1 Router (1841) and 1 Switch's (2960-24PT)
2. 2 Hub's and 1 Repeater
3. 1 Gateway and 1 Bridge
4. 9 PCs and 1 Server
5. 1 Light and 1 Temperature Monitor
6. Connecting wires (Copper Straight-Through wires , Copper cross-Over)

Topology Diagram:



Experiment-2

• Topology Design

1. Bus Topology
 2. Star Topology
 3. Ring Topology
 4. Mesh Topology
 5. Fully Connected Topology
- #### ○ Necessary Equipment's:

Ccna 3 Packet Tracer Lab Manual

Oris Krianto Sulaiman



Ccna 3 Packet Tracer Lab Manual:

Introducing Routing and Switching in the Enterprise, CCNA Discovery Learning Guide Allan Reid, Jim Lorenz, Cheryl A. Schmidt, 2008-04-25 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 **Introducing Routing and Switching in the Enterprise CCNA Discovery Learning Guide** is the official supplemental textbook for the **Introducing Routing and Switching in the Enterprise** course in the Cisco Networking Academy CCNA Discovery curriculum version 4 The course the third of four in the new curriculum familiarizes you with the equipment applications and protocols installed in enterprise networks with a focus on switched networks IP Telephony requirements and security It also introduces advanced routing protocols such as Enhanced Interior Gateway Routing Protocol EIGRP and Open Shortest Path First OSPF Protocol Hands on exercises include configuration installation and troubleshooting The Learning Guide 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 The Glossary defines each key term Summary of Activities and Labs Maximize your study time with this complete list of all associated 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 Challenge Questions and Activities Apply a deeper understanding of the concepts with these challenging end of chapter questions and activities The answer key explains each answer Hands on Labs Master the practical hands on skills of the course by performing all the tasks in the course labs and additional challenge labs included in Part II of the Learning Guide This book is part of the Cisco Networking Academy Series from Cisco Press Books in this series support and complement the Cisco Networking Academy curriculum **Network Basics Companion Guide** Cisco Networking Academy Program, 2014 This is the only Cisco authorized companion guide to the official Cisco Networking Academy course in the new CCNA Routing and Switching curriculum An invaluable resource for hundreds of thousands of Cisco Networking Academy students worldwide this portable desk reference is ideal for anytime anywhere take home study and reference Fully aligned to the online course chapters it offers additional book based pedagogy to reinforce key concepts enhance student comprehension and promote retention Using it students can focus scarce study time organize review for quizzes and exams and get the day to day reference answers they re looking for The Companion Guide also offers instructors additional opportunities to assign take home reading or vocabulary homework helping students prepare more for in class lab work and discussions **CCNA Cybersecurity Operations Companion Guide** Allan Johnson, Cisco Networking Academy, 2018-06-17 CCNA Cybersecurity Operations Companion Guide is the official supplemental textbook for the Cisco Networking Academy CCNA Cybersecurity Operations course The course emphasizes real world practical application while providing opportunities for you to gain the

skills needed to successfully handle the tasks duties and responsibilities of an associate level security analyst working in a security operations center SOC 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 360 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 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 with dozens of exercises from the online course identified throughout the book with this icon Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer There are exercises interspersed throughout the chapters and provided in the accompanying Lab Manual book Videos Watch the videos embedded within the online course Hands on Labs Develop critical thinking and complex problem solving skills by completing the labs and activities included in the course and published in the separate Lab Manual

[CCNA V3 Lab Guide](#) Shaun Hummel,2017-02-27 CCNA v3 Lab Guide Routing and Switching 200 125 provides the configuration skills necessary to pass the CCNA v3 exam The CCNA 200 125 candidate must answer technical questions and have the skills required to configure verify and troubleshoot network connectivity There are 44 labs that start from basic global configuration to more complex network troubleshooting of routers and switches There is coverage of IPv6 addressing WAN connectivity ACLs and NAT that are all based on CCNA v3 exam guidelines The troubleshooting questions are a key aspect of the CCNA exam You will learn a standard troubleshooting methodology required for CCNA v3 style questions The step by step format includes analysis and resolution of errors In addition there is an extended lab with multiple routing and switching errors The lab guide is based on the book CCNA v3 Routing and Switching 200 125 Official Cisco CCNA v3 Routing and Switching Download Packet Tracer and 44 Ready Labs Initial Global Configuration System Management Device Security VLANs Access Ports Port Security Static Trunking EtherChannel Rapid STP PortFast IPv4 Addressing Subnetting Static and Default Routes Multi Area OSPF EIGRP for IPv4 RIPv2 ACLs NAT Inter VLAN Routing Default Gateway DHCP eBGP IPv6 Addressing Link Local SLAAC Global Unicast Network Troubleshooting Traceroute Ping IOS Tools

CCNA Routing and Switching Practice and Study Guide Allan Johnson,2014-04-10 CCNA Routing and Switching Practice and Study Guide is designed with dozens of exercises to help you learn the concepts and configurations crucial to your success with the Interconnecting Cisco Networking Devices Part 2 ICND2 200 101 exam The author has mapped the chapters of this book to the last two Cisco Networking Academy courses in the CCNA Routing and Switching curricula Scaling Networks and

Connecting Networks These courses cover the objectives of the Cisco Certified Networking Associate CCNA Routing and Switching certification Getting your CCNA Routing and Switching certification means that you have the knowledge and skills required to successfully install configure operate and troubleshoot a medium sized routed and switched networks As a Cisco Networking Academy student or someone taking CCNA related classes from professional training organizations or college and university level networking courses you will gain a detailed understanding of routing by successfully completing all the exercises in this book Each chapter is designed with a variety of exercises activities and scenarios to help you Review vocabulary Strengthen troubleshooting skills Boost configuration skills Reinforce concepts Research and analyze topics

Working at a Small-to-Medium Business or ISP, CCNA Discovery Learning Guide Allan Reid, Jim

Lorenz, 2008-04-28 Working at a Small to Medium Business or ISP CCNA Discovery Learning Guide Working at a Small to Medium Business or ISP CCNA Discovery Learning Guide is the official supplemental textbook for the Working at a Small to Medium Business or ISP course in the Cisco Networking Academy CCNA Discovery curriculum version 4.1 The course the second of four in the new curriculum teaches networking concepts by applying them to a type of network you might encounter on the job in a small to medium business or ISP After successfully completing the first two courses in the CCNA Discovery curriculum you can choose to complete the CCENT Cisco Certified Entry Network Technician certification exam which would certify that you have developed the practical skills required for entry level networking support positions and have an aptitude and competence for working with Cisco routers switches and Cisco IOS Software The Learning Guide written and edited by instructors is designed as a portable desk reference to use anytime anywhere to reinforce the material from the course and organize your time In addition the book includes expanded coverage of CCENT CCNA exam topics 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 The Glossary defines each key term Summary of Activities and Labs Maximize your study time with this complete list of all associated 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 Challenge Questions and Activities Apply a deeper understanding of the concepts with these challenging end of chapter questions and activities The answer key explains each answer Hands on Labs Master the practical hands on skills of the course by performing all the tasks in the course labs and additional challenge labs included in Part II of the Learning Guide Allan Reid is the curriculum lead for CCNA and a CCNA and CCNP instructor at the Centennial College CATC in Toronto Canada Jim Lorenz is an instructor and curriculum developer for the Cisco Networking Academy 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 with more than 30 different exercises from the online course

identified through out the book with this icon The files for these activities are on the accompanying CD ROM Packet Tracer Activities Explore and visualize networking concepts using Packet Tracer exercises interspersed throughout most chapters The files for these activities are on the accompanying CD ROM Packet Tracer v4 1 software developed by Cisco is available separately Hands on Labs Master the practical hands on skills of the course by working through all 42 course labs and 3 additional labs included in this book The labs are an integral part of the CCNA Discovery curriculum review the core text and the lab material to prepare for all your exams 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 includes Interactive Activities Packet Tracer Activity Files CCENT Study Guides IT Career Information Taking Notes Lifelong Learning

Cisco Networking Academy Program Cisco Systems, Inc, Cisco Networking Academy Program, 2003 bull Content maps to new CCNA 3 0 curriculum bull Additional chapters on difficult topics bull Expanded CD ROM includes 500 CCNA test preparation questions instructional videos PhotoZooms and more e Labs than previous edition

Networking Essentials Lab Manual V3 Cisco Networking Academy, 2023-11-29 The only authorized Lab Manual for the Cisco Networking Academy Networking Essentials Version 3 Course The Cisco Certified Support Technician CCST Networking certification validates an individual s skills and knowledge of entry level networking concepts and topics The certification demonstrates foundational knowledge and skills needed to show how networks operate including the devices media and protocols that enable network communications You ll Learn These Core Skills Plan and install a home or small business network using wireless technology and then connect it to the Internet Develop critical thinking and problem solving skills using Cisco Packet Tracer Practice verifying and troubleshooting network and Internet connectivity Recognize and mitigate security threats to a home network The 45 comprehensive labs in this manual emphasize hands on learning and practice to reinforce configuration skills The Networking Essentials Lab Manual provides you with all the labs and packet tracer activity instructions from the course designed as hands on practice develop critical thinking and complex problem solving skills Related titles Networking Essentials Companion Guide v3 Cisco Certified Support Technician CCST Networking 100 150 Book 978 0 13 832133 8 0 13 832133 7

CCNA Security Course Booklet Version 1. 2 Cisco Networking Academy, 2014 CCNA Security Course Booklet Version 1 2 Your Cisco Networking Academy Course Booklet is designed as a study resource you can easily read highlight and review on the go wherever the Internet is not available or practical The text is extracted directly word for word from the online course so you can highlight important points and take notes in the Your Chapter Notes section Headings with the exact page correlations provide a quick reference to the online course for your classroom discussions and exam preparation An icon system directs you to the online curriculum to take full advantage of the images embedded within the Networking Academy online course interface and reminds you to perform the labs and Packet Tracer activities The Course Booklet is a basic economical paper based resource to help you succeed with the Cisco Networking Academy online course Related Titles CCNA Security Lab Manual Version 1 2

ISBN 13 978 1 58713 347 3 ISBN 10 1 58713 347 4 CCNA Security 640 554 Portable Command Guide ISBN 13 978 1 58720 448 7 ISBN 10 1 58720 448 7 Implementing Cisco IOS Network Security IINS 640 554 Foundation Learning Guide Second Edition ISBN 13 978 1 58714 272 7 ISBN 10 1 58714 272 4 CCNA Security 640 554 Official Cert Guide ISBN 13 978 1 58720 446 3 ISBN 10 1 58720 446 0 *Scaling Networks Companion Guide* Cisco Networking Academy, 2014-03-06 *Scaling Networks Companion Guide* is the official supplemental textbook for the *Scaling Networks* course in the Cisco CCNA Academy. This course describes the architecture components and operations of routers and switches in a large and complex network. You will learn how to configure routers and switches for advanced functionality. By the end of this course, you will be able to configure and troubleshoot routers and switches and resolve common issues with OSPF, EIGRP, STP, and VTP in both IPv4 and IPv6 networks. You will also develop the knowledge and skills needed to implement DHCP and DNS operations in a network. 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 over 180 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 *Scaling Networks Lab Manual* ISBN 13 978 1 58713 325 1 ISBN 10 1 58713 325 3 Interactive Activities Reinforce your understanding of topics with all the different 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 Class Activities that are included in the course and published in the separate Lab Manual

CCNA 200-301 Hands-on Mastery with Packet Tracer Anthony J. Sequeira, Ronald Wong, 2024-11-22 The CCNA 200 301 exam will challenge you to not only focus on the theory of a technology but the ability to demonstrate mastery of configuration, verification, and troubleshooting. In *CCNA 200 301 Hands on Mastery with Packet Tracer*, you will be guided by expert authors in writing about and more importantly training candidates in all aspects of the CCNA exam. This is the only text focused on just those topics needed for success in getting a passing score. Through quizzes, review questions, practice exams, and labs, *CCNA 200 301 Hands on Mastery with Packet Tracer* will give you access to the experience from experts who have taken every revision of the exam since the certification's inception, becoming familiar not only with the exam but Cisco's testing techniques as well. This complete study package includes a test preparation routine proven to help you pass the exam Practice Exams. In addition to including exam preparation questions at the end of each chapter, this book provides two full

Practice Exams Answers and explanations for practice exams An Answer Key follows each practice exam providing answers to and explanations for the questions in the exams Chapter ending exercises which help you drill on key concepts you must know thoroughly Study plan suggestions and templates to help you organize and optimize your study time Packet Tracer Hands On Labs available for download from the companion website for this book Content Update Program This book includes the latest topics and information covering the latest updated CCNA 200 301 exam Visit ciscopress.com for information on annual digital updates for this book that align to Cisco exam blueprint version changes This study guide helps you master all the topics on the CCNA 200 301 exam including Network Fundamentals Advanced Network Configurations Building and Using Labs Troubleshooting and Testing *Switching Basics and Intermediate Routing* Allan Johnson, 2006-07 The completely revised and only authorized Labs and Study Guide for the Cisco Networking Academy Program CCNA 3 curriculum A portable classroom resource that supports the topics in the CCNA 3 curriculum aligning 1:1 with course modules Includes all the labs in the online curriculum as well as additional instructor created challenge labs for extended learning and classroom exercises Written by leading Academy instructor Allan Johnson who brings a fresh voice to the course material The all new Labs and Study Guide titles combine the best of the former Lab Companions and Engineering Journal and Workbooks with new features to improve the student's hands on skills and reinforce the topics for each CCNA course Switching Basics and Intermediate Routing CCNA 3 Labs and Study Guide is a complete collection of the lab exercises specifically written for the CCNA 3 course in the Cisco Networking Academy Program designed to give students hands on experience in a particular concept or technology Each lab contains an introductory overview a preparation tools required section explanations of commands and step by step instructions to reinforce the concepts introduced in the online course and covered in the Companion Guide NEW Challenge labs written by Academy instructors tested in their classrooms will be included as additional or alternative labs The Study Guide section is designed to provide additional exercises and activities to reinforce students understanding of the course topics preparing them for the course assessments As a study guide it will also continue to provide ample writing opportunities to guide students into the habit of keeping notes on networking topics

Routing Protocols Companion Guide Cisco Networking Academy, Cisco Networking Academy Program, 2014 This course describes the architecture components and operations of routers and explains the principles of routing and routing protocols You learn how to configure a router for basic and advanced functionality By the end of this course you will be able to configure and troubleshoot routers and resolve common issues with RIPv1 RIPv2 EIGRP and OSPF 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 organise 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 150 terms Summary of Activities and Labs Maximise 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 How To Look for this icon to study the steps you need to learn to perform certain tasks **CCNA 200-301 Lab Guide** Shaun Hummel,2020-03-09 CCNA 200 301 Certification Lab Guide CCNA certification has become increasingly difficult and requires proper preparation to pass the exam This lab guide is designed to prepare you 100% for the new exam Learn all CCNA topics with a configuration oriented learn by doing approach Practice and verify your CLI technical skills with simulation labs that include configuration and operational commands Cisco is aligning the new CCNA 200 301 certification exam with a shift to internet based connectivity model and IP only routing The new exam removes all routing protocols except OSPFv2 There is a significant amount of wireless automation and cyber security topics That is attributed to the popularity of mobility services cloud computing and SDN The management of network infrastructure has radically changed with open source architecture Cisco has programmable network devices and virtualization of physical equipment CCNA engineers now support private and cloud data center connections CCNA 200 301 Certification Lab Guide Learn Cisco CLI configuration skills Setup Your Own Virtual Lab Network Access IP Connectivity Wireless Security IP Services Simulation Practice Labs CCNA Configuration Tool CCNA IOS Show Commands Shaun Hummel is author of certification books video courses and recipient of Cisco spotlight awards 15 years of experience with Fortune 100 companies large data centers certification training and globally connected infrastructure www.cisconetsolutions.com **CCNA 1 V7 Labs and Study Guide** Allan Johnson,2020-04-13 The only authorized Labs Study Guide for the Cisco Networking Academy Introduction to Networks v7 0 ITN course in the CCNA Routing and Switching curriculum This book provides an introduction to IT and Networking and is suitable for learners with an interest in IT Each chapter of this book is divided into a Study Guide section followed by a Lab section The Study Guide sections offer exercises that help you learn the concepts configurations and troubleshooting skills crucial to your success as a CCNA exam candidate Each chapter is slightly different and includes some or all of the following types of exercises Vocabulary Matching Exercises Concept Questions Exercises Skill Building Activities and Scenarios Configuration Scenarios Packet Tracer Exercises Troubleshooting Scenarios The Labs Activities sections include all the labs and Packet Tracer activities from the online curriculum If applicable this section begins with a Command Reference an exercise where the reader matches commands **CCNA Labs: Routing and Switching** Shaun Hummel,2019-02-28 CCNA Labs Routing and Switching is a configuration workbook designed to provide lab skills necessary for the CCNA certification exam Learn how to configure and verify network connectivity for all exam topics There is coverage for ICND1 100 105 exam ICND2 200 105 exam and 200 125 exam Packet tracer ready labs start from basic global configuration to more complex routing and switching topics CCNA break fix simulation lab is included with various

configuration errors for you to troubleshoot and resolve There is new coverage of IPv6 addressing and WAN protocols as well based on CCNA v3 exam guidelines The workbook is portable to labs based on Cisco physical equipment or GNS3

Introduction Packet Tracer Lab Conventions Initial Global Configuration Lab 1 1 Global Commands Lab 1 2 System Management LAN Switching Technologies Lab 2 1 Create VLANs Lab 2 2 Access Ports Lab 2 3 Static Trunking Lab 2 4 EtherChannel Lab 2 5 Rapid STP Lab 2 6 PortFast Lab 2 7 Root Bridge Selection Lab 2 8 VLAN Trunking Protocol Routing Technologies Lab 3 1 IPv4 Addressing Lab 3 2 Static Route Lab 3 3 Default Route Lab 3 4 Floating Static Route Lab 3 5 Subnetting Lab 3 6 Multi Area OSPFv2 Lab 3 7 Multi Area OSPFv3 Lab 3 8 EIGRP for IPv4 Lab 3 9 EIGRP for IPv6 Lab 3 10 RIPv2 Lab 3 11 Inter VLAN Routing Lab 3 12 External BGP eBGP IPv6 Addressing Lab 4 1 Link Local Lab 4 2 Autoconfiguration Lab 4 3 Global Unicast Lab 4 4 IPv6 Default Route Infrastructure Security Lab 5 1 Device Passwords Lab 5 2 Port Security Lab 5 3 Named ACL Lab 5 4 Extended ACL 1 Lab 5 5 Extended ACL 2 Lab 5 6 DHCP Snooping Infrastructure Services Lab 6 1 Port Address Translation Lab 6 2 Static NAT Lab 6 3 Hot Standby Router Protocol Infrastructure Maintenance Lab 7 1 Managing Switches Lab 7 2 Managing Routers Lab 7 3 Password Recovery Lab 7 4 IOS Upgrade Supplemental Tools CCNA SIM Routing and Switching IOS Show Command Reference CCNA Configuration Reference

Switching Basics and Intermediate Routing Wayne Lewis, 2006 This book is the official supplemental textbook for v3 1 1 of the CCNA 3 course in the Cisco Networking Academy Program The author has rewritten the companion guide to provide a fresh complementary perspective on the online course content The book covers all the topics in the course yet provides additional examples and alternative approaches to individual topics all to aid the learning process and lock in your understanding of basic networking concepts and technologies back cover

Switching Basics & Intermediate Routing: Ccna 3 La Johnson, 2007-02 **13 Lab Cisco Packet Tracer** Oris Krianto Sulaiman, 2017-10-27 Cisco Packet Tracer merupakan program simulasi dari Cisco Systems sebagai sarana pembelajaran jaringan secara mudah Anda hanya perlu laptop dengan spesifikasi yang mencukupi dan anda sudah dapat membuat jaringan sendiri secara simulasi yang akan mempermudah pemahaman anda nantinya di lapangan Buku ini membahas tentang dasar dasar jaringan hingga basic router dengan menggunakan Cisco Packet Tracer Adapun isi dari buku ini dapat di uraikan sebagai berikut Cisco Packet Tracer Install Cisco Packet Tracer Mengenal Cisco Packet Tracer Menggunakan Cisco Packet Tracer LABx01 Copper Cable Peer to Peer LABx02 Wireless LABx03 DHCP Server CLIENT SERVER LABx04 WEB Server dan DNS server LABx05 FTP server to PC LABx06 Router Basic Configuration LABx07 Router Basic Configuration Lanjutan LABx08 TFTP Server dan FTP server to Router LABx09 Basic Subnetting VLSM LABx10 Remote via SSH LABx11 Backup and Restore Flash IOS LABx12 Switch Layer 2 Basic Configuration LABx13 VLAN

CCNA Domination, Volume 1 Mohamed Ouamer, 2020-11-12 Do you want to pass the CCNA certification exam Do you want to master the subjects in the exam blueprint Do you want to become a successful Cisco network engineer Then this book is your companion helping you to make your hands on skills perfect and

pass the CCNA 200 301 exam This lab manual was developed to help you Understand subjects and Cisco IOS commands in the exam syllabus Develop and improve your hands on configuration and troubleshooting skills Pass the Cisco CCNA 200 301 exam This book is not that type of document teaching you Cisco IOS commands only However using this book you increase your configuring testing and troubleshooting skills In this way you deepen your knowledge and build up the hands on experience to pass the 200 301 exam and succeed as a network engineer CCNA Domination Volume 1 covers the following exam topics

Part I Networking Fundamentals Convert Binary and Hexadecimal to Decimal Convert Decimal to Binary and Hexadecimal Convert between Binary and Hexadecimal Decimal and Binary Form of IP Addresses IPv4 Addressing Subnetting a Class A Network Subnetting a Class B Network Subnetting a Class C Network Connecting to a Cisco switch The Command Line Interface Configuring IPv4 Addressing Configuring Cisco HDLC Analyzing HDLC Configuring PPP Analyzing PPP PPP Authentication Using PAP and CHAP Address Resolution Protocol DNS Resolution Troubleshooting IPv4 Addressing

Part II Ethernet LANs Understanding LAN Switching Securing Access to Cisco Switch with Simple Passwords Configuring Telnet and SSH Enabling IPv4 on a Cisco Switch Configuring Switch Interfaces Configuring Cisco Access Point In Packet Tracer

Part III VLANs and STP Understanding VLANs Configuring VLANs Configuring Extended VLANs Configuring VLAN Trunking VLAN Reverse Engineering Configuring Voice VLANs Troubleshooting VLAN Trunks STP algorithm Configuring STP Protecting STP Rapid STP Configuring EtherChannels EtherChannel Load Balancing

Part IV IPv4 Routing Configuring Cisco Routers Understanding IP Routing Configuring Static IP Routing Router on a Stick ROAS IP Routing With Switch VLAN Interfaces VLAN Routing using Routed Interfaces Checking IP Connectivity Troubleshooting IPv4 Routing

Part V OSPF IP Routing RIP Metric Calculation EIGRP Metric Calculation Understanding OSPF Routing Protocol OSPF Metric Calculation LSDB Reverse Engineering OSPF Areas and LSAs Type 3 OSPF Neighbors Using Wildcard Masks Single OSPFv2 Area Multi area OSPFv2 Domain Configuring OSPFv2 Features Configuring RIPv2 Configuring EIGRP DR And BDR Election Tuning DR And BDR Election Tuning OSPFv2 Neighbors Troubleshooting OSPFv2

Part VI IP Version 6 Abbreviating IPv6 Addresses IPv6 Prefixes and Types Routing IPv6 Packets Configuring IPv6 On Serial Interfaces Configuring IPv6 On Cisco Switches Configuring Link Local IPv6 Addresses Configuring Global And Unique Local IPv6 Addresses SLAAC Floating IPv6 Static Routes Inter VLAN IPv6 Routing VLAN IPv6 Routing With Switch VLAN Interfaces VLAN IPv6 Routing Using Routed Interfaces Configuring RIPng Configuring OSPFv3 Configuring EIGRPv6 Troubleshooting IPv6 Protocol

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Ccna 3 Packet Tracer Lab Manual Introduction

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