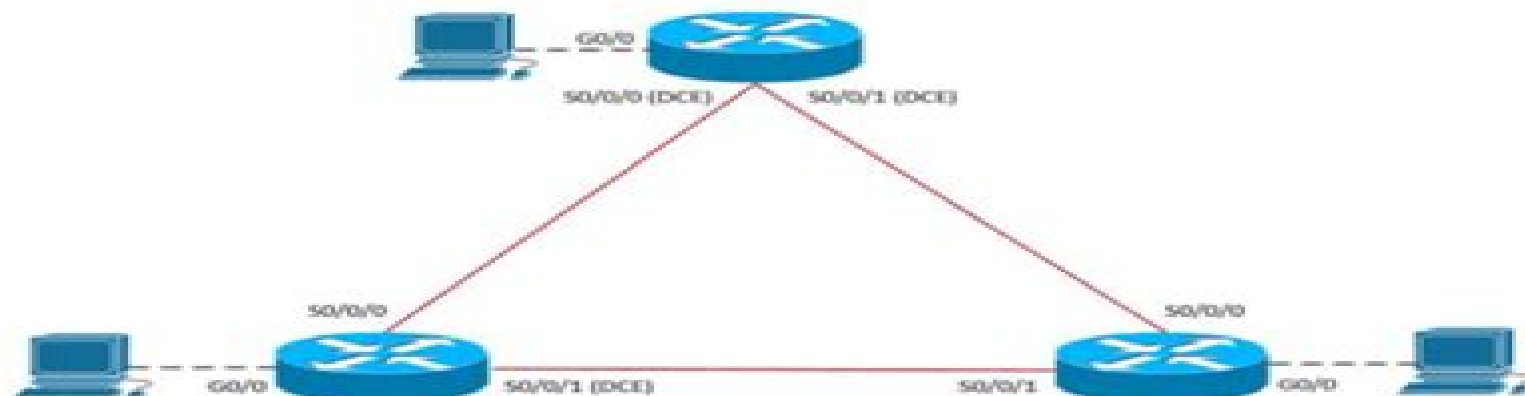


Packet Tracer – IPv6 Basic addressing, static routing, and host configuration

Topology



Scenario

NetVise Corporation has decided that their new network infrastructure will be built from the ground up using IPv6. As the network administrator you have been given instructions on how to configure the network for basic IPv6 addressing as well as static routing to allow traffic to pass between sites. Your manager has requested that the IPv6 implementation is fully documented and verified.

Prior to starting this lab, your manager provided you with some supporting training material. You are expected to review the provided material thoroughly before starting this lab.

Ipv6 Packet Tracer Lab

Shaun Hummel

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

Ipv6 Packet Tracer Lab:

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 are 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 *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 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 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 **Introduction to Networks Companion Guide** Cisco Networking Academy, 2013-11-15 Introduction to Networks Companion Guide is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum The course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes 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 195 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 Introduction to Networks Lab Manual ISBN 10 1 58713 312 1 ISBN 13 978 1 58713 312 1 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 50 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 66 course labs and Class Activities that are included in the course and published in the separate Lab Manual 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

Enterprise Networking, Security, and Automation Companion Guide (CCNAv7) Cisco Networking Academy, 2020-07-08 Enterprise Networking Security and Automation Companion Guide is the official supplemental textbook for the Enterprise Networking Security and Automation v7 course in the Cisco Networking Academy CCNA curriculum This course describes the architectures and considerations related to designing securing operating and troubleshooting enterprise networks You will implement the OSPF dynamic routing protocol identify and protect against cybersecurity threats configure access control lists ACLs implement Network Address Translation NAT and learn about WANs and IPsec VPNs You will also learn about QoS mechanisms network management tools network virtualization and network automation 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 500 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 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 and provided in the accompanying Labs Study Guide book Hands on Labs Work through all the course labs and additional Class Activities that are included in the course and published in the separate Labs Study Guide

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presentation on IPv6 Fundamentals and Routing drew a standing audience and the largest virtual audience for any session at the event He previously worked for companies including Santa Cruz Operation Tandem Computers and Lockheed Understand how IPv6 overcomes IPv4's key limitations Compare IPv6 with IPv4 to see what has changed and what hasn't Represent IPv6 addresses including subnet addresses Enable IPv6 on router interfaces using static dynamic EUI-64 unnumbered SLAAC and DHCPv6 approaches Improve network operations with ICMPv6 and Neighbor Discovery Protocol Configure IPv6 addressing and Access Control Lists using a common topology Work with IPv6 routing tables and configure IPv6 static routes Compare configure and verify each IPv6 IGP routing protocol Implement stateful and stateless DHCPv6 services Integrate IPv6 with other upper level protocols including DNS TCP and UDP Use dual stack techniques to run IPv4 and IPv6 on the same device Establish coexistence between IPv4 and IPv6 through manual 6to4 or ISATAP tunneling Promote a smooth transition with NAT64 Network Address Translation IPv6 to IPv4 This book is part of the Cisco Press Fundamentals Series Books in this series introduce networking professionals to new networking technologies covering network topologies sample deployment concepts protocols and management techniques

Scaling Networks v6 Course Booklet Cisco Networking Academy, 2017-08-17 Scaling Networks v6 Companion Guide is the official supplemental textbook for the Scaling Networks v6 course in the Cisco Networking Academy CCNA Routing and Switching curriculum 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 250 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 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 and provided in the accompanying Labs Study Guide book Hands on Labs Work through all the course labs and additional Class Activities that are included in the course and published in the separate Labs Study Guide

[Scaling Networks Companion Guide](#) Cisco Networking Academy, Cisco Networking Academy Program, 2014 This is the only Cisco authorized companion guide to the official Cisco Networking Academy Scaling Networks course for the CCNA Routing and Switching curriculum An indispensable 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 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 **IPv6 for Enterprise Networks** Shannon McFarland,Muninder Sambi,Nikhil Sharma,Sanjay Hooda,2011-04-01 IPv6 for Enterprise Networks The practical guide to deploying IPv6 in campus WAN branch data center and virtualized environments Shannon McFarland CCIE No 5245 Muninder Sambi CCIE No 13915 Nikhil Sharma CCIE No 21273 Sanjay Hooda CCIE No 11737 IPv6 for Enterprise Networks brings together all the information you need to successfully deploy IPv6 in any campus WAN branch data center or virtualized environment Four leading Cisco IPv6 experts present a practical approach to organizing and executing your large scale IPv6 implementation They show how IPv6 affects existing network designs describe common IPv4 IPv6 coexistence mechanisms guide you in planning and present validated configuration examples for building labs pilots and production networks The authors first review some of the drivers behind the acceleration of IPv6 deployment in the enterprise Next they introduce powerful new IPv6 services for routing QoS multicast and management comparing them with familiar IPv4 features and behavior Finally they translate IPv6 concepts into usable configurations Up to date and practical IPv6 for Enterprise Networks is an indispensable resource for every network engineer architect manager and consultant who must evaluate plan migrate to or manage IPv6 networks Shannon McFarland CCIE No 5245 is a Corporate Consulting Engineer for Cisco serving as a technical consultant for enterprise IPv6 deployment and data center design with a focus on application deployment and virtual desktop infrastructure For more than 16 years he has worked on large scale enterprise campus WAN branch and data center network design and optimization For more than a decade he has spoken at IPv6 events worldwide including Cisco Live

Muninder Sambi CCIE No 13915 is a Product Line Manager for Cisco Catalyst 4500 4900 series platform is a core member of the Cisco IPv6 development council and a key participant in IETF's IPv6 areas of focus Nikhil Sharma CCIE No 21273 is a Technical Marketing Engineer at Cisco Systems where he is responsible for defining new features for both hardware and software for the Catalyst 4500 product line Sanjay Hooda CCIE No 11737 a Technical Leader at Cisco works with embedded systems and helps to define new product architectures His current areas of focus include high availability and messaging in large scale distributed switching systems

- Identify how IPv6 affects enterprises
- Understand IPv6 services and the IPv6 features that make them possible
- Review the most common transition mechanisms including dual stack IPv4 IPv6 networks IPv6 over IPv4 tunnels and IPv6 over MPLS
- Create IPv6 network designs that reflect proven principles of modularity hierarchy and resiliency
- Select the best implementation options for your organization
- Build IPv6 lab environments
- Configure IPv6 step by step in campus WAN branch and data center networks
- Integrate production quality IPv6 services into IPv4 networks
- Implement virtualized IPv6 networks
- Deploy IPv6 for remote access
- Manage IPv6 networks efficiently and cost effectively

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

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 *Connecting Networks v6 Companion Guide* Cisco Networking Academy, 2017-09-11 *Connecting Networks v6 Companion Guide* is the official supplemental textbook for the *Connecting Networks* version 6 course in the Cisco Networking Academy CCNA Routing and Switching curriculum. 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.

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[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.

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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

CCNA LAB Master in Networking Mohammad Asim Ansari, 2020-09-24 ABOUT THE BOOK It is difficult to configure a Router or a Switch or any device for a newbie in the networking industry even experts face problems while configuring complex networks Some people have a lack of knowledge some have limited devices and for some explanation are not clear I will try to explain from scratch is this e book I solved vlsm on my client requirements so you will know how to deal with your clients You can design a network for your company as well as for your clients This e book shows you a step by step configuration e book s main goal Design your own network for your company and on the other hand design networks for your clients and clients of clients Bonus IPv6 Basic Configuration IPv6 RIP Configuration IPv6 EIGRP Configuration IPv6 OSPF Configuration IPv6 ACL Configuration IPv6 DHCP Configuration

Switched Networks Companion Guide Cisco Networking Academy, 2014-04-18 Switched Networks Companion Guide is the official supplemental textbook for the Switched Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum This course describes the architecture

components and operations of a converged switched network You will learn about the hierarchical network design model and how to configure a switch for basic and advanced functionality By the end of this course you will be able to troubleshoot and resolve common issues with Virtual LANs and inter VLAN routing in a converged network You will also develop the knowledge and skills needed to implement a WLAN in a small to medium 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 more than 300 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 Switched Networks Lab Manual ISBN 10 1 58713 327 X ISBN 13 978 1 58713 327 5 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 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

Running IPv6 Iljitsch van Beijnum, 2006-11-07 Running IPv6 explains how to install and operate the IPv6 protocol for Windows XP Mac OS X FreeBSD Red Hat Linux and Cisco routers The book also covers DNS and BIND Zebra Apache 2 and Sendmail While IPv4 uses 32 bit addresses IPv6 addresses are 128 bits long and allow for more unique addresses While the adoption of IPv6 won't be immediate it is necessary Running IPv6 compares and contrasts IPv6 to IPv4 and discusses the advantages and disadvantages of each Because most major software and hardware vendors have adopted IPv6 the focus of this book is to leverage your existing knowledge of IPv4 and to help you apply that knowledge to the newer protocol

Introduction to Networks v6 Companion Guide Cisco Networking Academy, 2016-12-10 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 Introduction to Networks Companion Guide v6 is the official supplemental textbook for the Introduction to Networks course in the Cisco Networking Academy CCNA Routing and Switching curriculum The course introduces the architecture structure functions components and models of the Internet and computer networks The principles of IP addressing and fundamentals of Ethernet concepts media and operations are introduced to provide a foundation for the curriculum By the end of the course you will be able to build simple LANs perform basic configurations for routers and switches and implement IP addressing schemes The Companion Guide is designed as a portable desk reference

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The Enigmatic Realm of **Ipv6 Packet Tracer Lab**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing in short supply of extraordinary. Within the captivating pages of **Ipv6 Packet Tracer Lab** a literary masterpiece penned by a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting effect on the hearts and minds of those who partake in its reading experience.

<http://www.technicalcoatingsystems.ca/files/scholarship/index.jsp/A%20Practical%20Handbook%20For%20The%20Boyfriend.pdf>

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