

## PREFACE

This lab manual has been prepared to facilitate the students of computer science in studying, analyzing and simulating various functions of operating system concepts. The students will have to work with CLI and GUI of various OS, study how to monitor OS, create process and simulate several algorithms using high level/visual programming language. The lab sessions are designed to improve the abilities of the students by giving hands on experience. After completing the laboratory exercises, the students will be familiar with the practical aspects of the various concepts explained in the course, as well as with a simple OS development.

## PREPARED BY

Lab manual is prepared by Mr. Shahid Abid under the supervision of the Director BIIT, Dr. Jamil Sawar.

## GENERAL INSTRUCTIONS

- a. Students are required to maintain the lab manual with them till the end of the semester.
- b. All readings, answers to questions and illustrations must be solved on the place provided. If more space is required then additional sheets may be attached. You may add screen shots to the report by using the "Print Screen" command on your keyboard to get a snapshot of the output.
- c. It is the responsibility of the student to have the lab manual graded as soon as he/she has completed a task.
- d. Loss of manual will result in resubmission of the complete manual.
- e. Students are required to go through the experiment before attending a lab session.
- f. Students must bring the manual during lab session.
- g. Keep the manual neat, clean and presentable.
- h. Plagiarism is strictly forbidden. No credit will be given if a lab session is plagiarised and no resubmission will be entertained.
- i. Marks will be deducted for late submission.
- j. You need to submit the report even if you have demonstrated the exercises to the lab instructor or shown them the lab report during the lab session.

## VERSION HISTORY

Date	Updated by	Details
September 2019	Mr. Shahid Abid	Version 1.0. Initial draft prepared and experiments outlined.

# Network Operating System Lab Manual

**Cisco Networking Academy**

## **Network Operating System Lab Manual:**

**Network+ All-in-One Lab Manual** Catherine Creary,2002-03-13 This guide prepares readers for the real world by applying networking concepts to solve real networking problems Contains step by step not click by click lab scenarios that require students to think critically    *Mike Meyers' A+ Guide to Operating Systems Lab Manual* Michael Meyers,Lloyd Jeffries,2004 This textbook is intended for students of AS degrees in computing information systems or information technology who are studying to become PC technicians or desktop support specialists It contains over 40 labs to challenge students to solve real world problems with learned concepts    IT Essentials Companion Guide v6 Cisco Networking Academy,2016-10-28 IT Essentials v6 Companion Guide supports the Cisco Networking Academy IT Essentials version 6 course The course is designed for Cisco Networking Academy students who want to pursue careers in IT and learn how computers work how to assemble computers and how to safely and securely troubleshoot hardware and software issues As CompTIA Approved Quality Content the course also helps you prepare for the CompTIA A certification exams 220 901 and 220 902 Students must pass both exams to earn the CompTIA A certification The features of the Companion Guide are designed to help you study and 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 updated lists of networking vocabulary introduced and turn to the highlighted terms in context Course section numbering Follow along with the course heading numbers to easily jump online to complete labs activities and quizzes referred to within the text 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 This icon in the Companion Guide indicates when there is a hands on Lab to do All the Labs from the course are compiled and published in the separate book IT Essentials v6 Lab Manual Practicing and performing all these tasks will reinforce the concepts and help you become a successful PC technician    **IT Essentials** Cisco Networking Academy,2010-10-13 IT Essentials PC Hardware and Software Companion Guide Fourth Edition supports the Cisco Networking Academy IT Essentials PC Hardware and Software version 4 1 course The course provides an introduction to computer components laptops and portable devices wireless connectivity security and safety environmental concerns and diagnostic tools As a CompTIA Authorized Quality Curriculum the course helps you prepare for the CompTIA A certification The fundamentals part of the course covered in Chapters 1 10 helps you prepare for the CompTIA A Essentials exam 220 701 You learn the fundamentals of computer technology networking and security and validate the communication skills and professionalism required of all entry level IT professionals The advanced part of the course covered in Chapters 11 16 helps you prepare for the CompTIA A Practical Application exam 220 702 providing more of a hands on orientation and scenarios in which troubleshooting and tools must be applied to resolve problems Students must pass both exams to earn the CompTIA A certification The features of the Companion Guide are designed to help you study and succeed in this course n Chapter

objectives Review core concepts by answering the focus questions listed at the beginning of each chapter n Key terms Refer to the updated lists of networking vocabulary introduced and turn to the highlighted terms in context n 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 Virtual Desktop Virtual Laptop and Packet Tracer Activities on the CD that accompanies this book are virtual learning tools to help you develop critical thinking and complex problem solving skills New for this edition Cisco Packet Tracer simulation based learning activities promote the exploration of networking and network security concepts and allow you to experiment with network behavior All the Labs Worksheets and Class Discussion Exercises from the course are available in the separate book IT Essentials PC Hardware and Software Lab Manual Fourth Edition More than 120 activities emphasize the practical application of skills and procedures needed for hardware and software installations upgrades and troubleshooting systems IT Essentials PC Hardware and Software Lab Manual Fourth Edition ISBN 10 1 58713 262 1 ISBN 13 978 1 58713 262 9 Related Title IT Essentials PC Hardware and Software Course Booklet Version 4 1 ISBN 10 1 58713 261 3 ISBN 13 978 1 58713 261 2 Companion CD ROM The CD ROM contains all of the Virtual Desktop Activities Virtual Laptop Activities and Packet Tracer Activities referenced throughout the book Designed and developed by the Cisco Networking Academy these standalone tools supplement classroom learning by providing hands on experience where real equipment is limited Note the Packet Tracer software is not included with this CD Ask your instructor for access to Packet Tracer

### **Network Basics Companion Guide** Cisco Networking Academy, 2013-10-28

Network Basics Companion Guide is the official supplemental textbook for the Network Basics course in the Cisco Networking Academy CCNA Routing and Switching curriculum Using a top down OSI model approach 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 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 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 68 course labs and Class Activities that are included in the course and published in the separate Lab Manual **A+ Certification Operating System Technologies Lab Guide** Charles J. Brooks,2004

**Mike Meyers' A+ Guide to PC Hardware Lab Manual** Michael Meyers,Lloyd Jeffries,2004 Written by an experienced computer and network skills trainer this manual features 40 labs that challenge the reader to solve real world problems by applying the concepts learned **Network+ Guide to Networks** Michael Grice,2005-04 The Lab Manual for NETWORK GUIDE TO NETWORKS 4th Edition is a valuable tool designed to enhance your classroom experience Lab activities objectives materials lists step by step procedures illustrations review questions and more are all included **Lab Manual for A+ Guide to Software** Jean Andrews,2003-03 Designed to accompany the A Guide to Software this Lab Manual provides additional hands on practice need to succeed in industry and is an excellent resource to prepare for CompTIA s 2003 A OS Technologies certification exam **Network+ Lab Manual** Tami Evanson,2000 Candidates for the Network certification can find all the help they need in this student workbook which provides a full set of lab exercises to accompany the Network Study Guide and covers every objective defined by CompTIA for the exam

**Mike Meyers' A+ Guide: Essentials Lab Manual (Exam 220-601)** Mike Meyers,2007-04-22 There are currently more than 500 000 A technicians all of them will have to take the new exams to keep their certifications current CompTIA is revising the A exam into two new sections the A Essentials Exam and the A Technician Exam More than 100 companies including CompUSA and IBM have made A certification mandatory for their service technicians **Mike Meyers' A+ Guide to Managing and Troubleshooting PCs Lab Manual** Michael Meyers,Lloyd Jeffries,2003-12 Features 40 labs that challenge readers to solve problems by applying the concepts taught **CASP: CompTIA Advanced Security Practitioner Study Guide Authorized Courseware**

Michael Gregg,Billy Haines,2012-02-16 Get Prepared for CompTIA Advanced Security Practitioner CASP Exam Targeting security professionals who either have their CompTIA Security certification or are looking to achieve a more advanced security certification this CompTIA Authorized study guide is focused on the new CompTIA Advanced Security Practitioner CASP Exam CAS 001 Veteran IT security expert and author Michael Gregg details the technical knowledge and skills you need to conceptualize design and engineer secure solutions across complex enterprise environments He prepares you for aspects of the certification test that assess how well you apply critical thinking and judgment across a broad spectrum of security disciplines Featuring clear and concise information on crucial security topics this study guide includes examples and insights drawn from real world experience to help you not only prepare for the exam but also your career You will get complete coverage of exam objectives for all topic areas including Securing Enterprise level Infrastructures Conducting Risk Management Assessment Implementing Security Policies and Procedures Researching and Analyzing

Industry Trends Integrating Computing Communications and Business Disciplines Additionally you can download a suite of study tools to help you prepare including an assessment test two practice exams electronic flashcards and a glossary of key terms Go to [www.sybex.com/go/casp](http://www.sybex.com/go/casp) and download the full set of electronic test prep tools **A+ Complete Lab Manual** Donald R. Evans, Scott Johnson, 2003-10-03 This is an updated edition of Sybex's lab manual for the A certification sponsored by CompTIA Computing Technology Industry Association A certifies the competency of service technicians in the computer industry Revised exams are due out Q4 of this year A candidates must pass two exams Core Hardware and Operating System Technologies The new hardware exam will cover latest memory bus peripheral wireless technology and the new OS exam will include added coverage of Windows Me XP **Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fifth Edition (Exam N10-007)** Mike Meyers, Jonathan S. Weissman, 2018-07-13

Practice the Skills Essential for a Successful IT Career 80 lab exercises challenge you to solve problems based on realistic case studies Lab analysis tests measure your understanding of lab results Step by step scenarios require you to think critically Key term quizzes help build your vocabulary Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual Fifth Edition covers Network models Cabling and topology Ethernet basics and modern Ethernet Installing a physical network TCP IP Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Mobile networking Building a real world network Managing risk Protecting your network Network monitoring and troubleshooting **Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs Lab Manual, Fourth Edition (Exams 220-801 & 220-802)** Michael Meyers, 2012-08-01 Bestselling CompTIA A author Mike Meyers provides 130 hands on step by step labs updated for the 2012 exams so you can practice the IT skills essential for your success With coverage of CompTIA A certification exams 220-801 and 220-802 Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs Lab Manual Fourth Edition contains more than 130 labs that challenge you to solve real world problems with key concepts Clear measurable lab objectives map to certification exam objectives ensuring direct correspondence to Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs Fourth Edition Lab solutions are only available to instructors and are not printed inside the book The Lab Manual also includes materials lists and lab set up instructions Step by step not click by click lab scenarios require you to think critically and Hint and Warning icons guide you through potentially tricky situations Post lab observation questions measure your understanding of lab results and the key term quiz helps to build your vocabulary **Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs Lab Manual, Fifth Edition (Exams 220-901 & 220-902)** Mike Meyers, Faithe Wempen, 2016-04-29 130 Hands On Step By Step Labs Fully Updated for the 2015 Exams This practical workbook contains more than 130 labs that challenge you to solve real world problems by applying key concepts Thoroughly revised for 2015 exam objectives the book maps directly to Mike Meyers' CompTIA A+ Guide to Managing and Troubleshooting PCs Fifth

Edition You will get complete materials lists setup instructions and start to finish lab scenarios Hint and Warning icons guide you through tricky situations and post lab questions measure your knowledge Mike Meyers CompTIA A Guide to Managing and Troubleshooting PCs Lab Manual Fifth Edition covers Microprocessors and Motherboards BIOS and RAM Power Supplies and Hard Drives PC Assembly Users Groups and Permissions Windows Vista 7 8 Virtualization OS Troubleshooting Display Technologies Local Area and WiFi Networking The Internet Mobile Device Configuration and Management Printers and Peripherals Computer Security ABOUT THE AUTHORS Mike Meyers CompTIA A CompTIA Network CompTIA Security MCP is the industry's leading authority on CompTIA certification and training He is the author of eight editions of CompTIA A Certification All in One Exam Guide the bestselling CompTIA A exam prep guide on the market Faithe Wempen M A CompTIA A has been teaching PC hardware and software architecture at Purdue University for more than a decade She has written over 140 retail trade and academic books on computer applications and technologies and her online courses for corporate clients such as CNET Sony and HP have educated more than a quarter of a million students **Guide to TCP/IP** Laura A. Chappell,Ed Tittel,2004 This text provides a comprehensive hands on look at TCP IP It includes coverage of the latest TCP IP stack implementations in Windows XP 2003 and 2000 as well as coverage of Ipv6 and SMTP Practice skills as they are learned with extensive hands on projects in depth case projects and review questions in each chapter Accompanying CD ROM contains a trial version of EtherPeek protocol analyzer software and sample protocol traces giving users direct hands on practice diagnosing protocol traces **Server+** Mike Schultz,Shawn Porter,2001-09 This Lab Manual contains over 65 hands on labs that provide in depth objective focused skills to help the user prepare for CompTIA's Server certification exam and for a job in the IT industry The text covers many advanced hardware topics featured on the Server certification exam including configuration troubleshooting and disaster recovery [Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Sixth Edition \(Exam N10-008\)](#) Jonathan S. Weissman,2022-01-28 Practice the Skills Essential for a Successful IT Career 80 lab exercises challenge you to solve problems based on realistic case studies Step by step scenarios require you to think critically Lab Analysis tests measure your understanding of lab results Key Term Quizzes help build your vocabulary Mike Meyers CompTIA Network TM Guide to Managing and Troubleshooting Networks Lab Manual Sixth Edition covers Network models Cabling and topology Ethernet basics Ethernet standards Installing a physical network TCP IP basics Routing TCP IP applications Network naming Securing TCP IP Switch features IPv6 WAN connectivity Wireless networking Virtualization and cloud computing Data centers Integrating network devices Network operations Protecting your network Network monitoring Network troubleshooting

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