

Lab - Design and Build a Small Network (Instructor Version)

Instructor Note: Red font color or gray highlights indicate text that appears in the instructor copy only.

Objectives

Explain how a small network of directly connected segments is created, configured, and verified.

Background /Scenario

Note: This activity is best completed individually.

Design and build a network from scratch.

- Your design must include a minimum of one Cisco 4321 router, two Cisco 2960 switches, and two PCs.
- Fully configure the network and use IPv4 or IPv6 (subnetting must be included as a part of your addressing scheme).
- Verify the network using at least five show commands.
- Secure the network using SSH, secure passwords and console passwords (minimum).

Create a rubric to use for informal peer grading. Present your Capstone Project to the class and be able to answer questions from your peers and instructor!

Instructor Note: This optional Modeling Activity is suggested to be a graded assignment after completing all the chapters. Students should be able to show how small networks are designed, configured, verified, and secured. Documentation is a large factor of this project and students must be able to explain their network design and verification using show commands.

Required Resources

- Real Equipment
- Student/group-created rubric for assessment of the assignment

Reflection Questions

1. What was the most difficult portion of this activity?

Answers will vary.

2. Why do you think network documentation is so important to this activity and in the real world?

Documentation is imperative to good network management and without it, network administrators have to recreate topologies, physically check addressing, etc. This takes time, which could be used elsewhere.

A suggested rubric and documentation examples are provided below:

Note: This rubric includes a total of 100 points for the points earned category (if minimum standards are met). Instructors may wish to consider adding bonus points for additional/advanced work in any requirement category.

Pearsons Lab Manual Answered For Networking

Robert L. Boylestad



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The Pearson CSAT Manual 2011 Edgar Thorpe, Showick Thorpe, Mobile Radio Communications and 5G Networks Nikhil Marriwala, C.C Tripathi, Shruti Jain, Dinesh Kumar, 2022-03-03 This book features selected high quality papers from the second International Conference on Mobile Radio Communications and 5G Networks MRCN 2021 held at University Institute of Engineering and Technology Kurukshetra University Kurukshetra India during 10 12 June 2021 The book features original papers by active researchers presented at the International Conference on Mobile Radio Communications and 5G Networks It includes recent advances and upcoming technologies in the field of cellular systems 2G 2 5G 3G 4G 5G and beyond LTE WiMAX WMAN and other emerging broadband wireless networks WLAN WPAN and various home personal networking technologies pervasive and wearable computing and networking small cells and femtocell networks wireless mesh networks vehicular wireless networks cognitive radio networks and their applications wireless multimedia networks green wireless networks standardization of emerging wireless technologies power management and energy conservation techniques

Mike Meyers' CompTIA Network+ Guide to Managing and Troubleshooting Networks Lab Manual, Fourth Edition (Exam N10-006) Mike Meyers, Jonathan S. Weissman, 2015-06-05 Practice the Skills Essential for a Successful IT Career Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Lab Manual Fourth Edition features 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 Get complete coverage of key skills and concepts including Network architectures Cabling and topology Ethernet basics Network installation TCP IP applications and network protocols Routing Network naming Advanced networking devices IPv6 Remote connectivity Wireless networking Virtualization and cloud computing Network operations Managing risk Network security Network monitoring and troubleshooting Instructor resources available This lab manual supplements the textbook Mike Meyers CompTIA Network Guide to Managing and Troubleshooting Networks Fourth Edition Exam N10 006 which is available separately Solutions to the labs are not printed in the book and are only available to adopting instructors **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

Anatomy & Physiology Elaine Nicpon Marieb, 2002 KEY MESSAGE Anatomy Physiology Third Edition answers the demand for a leaner version of Elaine Marieb and Katja Hoehn's Human Anatomy Physiology with less in depth coverage of pregnancy heredity and the developmental aspects of various body systems while keeping basic themes such as homeostatic imbalances strategically in place This revised edition includes major updates to the content and figures based on current research findings Organization of the Body The Human Body An Orientation Chemistry Comes Alive Cells The Living Units Tissues The Living Fabric For all readers interested in Human Anatomy Physiology **Subject Guide to Books in Print**, 2001 **The British National Bibliography** Arthur James Wells, 2009 *Technical Abstract Bulletin*, **Principles of Pathophysiology** Shane Bullock, Majella Hales, 2012-09-20 TAKING IT TO THE WARD Principles of Pathophysiology has been specifically written for local nursing and Allied Health students with the aim of clearly integrating the science of Pathophysiology with clinical practice within Australia and New Zealand Taking a systems approach to help facilitate stronger understanding this new Australian text is the perfect learning resource for Nursing and Allied Health students

Whitaker's Books in Print, 1998 **Boylestad's Circuit Analysis** Robert L. Boylestad, 2004 Calculus Robert Alexander Adams, 2006 The Publishers' Trade List Annual, 1979 Excellence in Business Communication Courtland L. Bovée, John V. Thill, Ava Cross, 2005 This full colour text provides a dynamic way of bringing the real world into the classroom It is the only textbook to combine all the basic principles with real world simulations featuring actual companies simulations which provide students with on the job experience in ways that no other textbook can match **American Book Publishing Record**, 2004 **Forthcoming Books** Rose Arny, 2003 Books in Print Supplement, 2002 **Dr. Dobb's Journal**, 2003 El-Hi Textbooks & Serials in Print, 2003, 2003 **Paperbound Books in Print**, 1970

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