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the only authorized lab manual for the cisco networking academy ccna cybersecurity operations course curriculum objectives ccna cybersecurity operations 1 0 covers knowledge and skills needed to successfully handle the tasks duties and responsibilities of an associate level security analyst working in a security operations center soc upon completion of the ccna cybersecurity operations 1 0 course students will be able to perform the following tasks

practice the it skills essential for your success 70 lab exercises challenge you to solve problems based on realistic case studies step by step scenarios require you to think critically lab analyses tests measure your understanding of lab results key term quizzes help build your vocabulary practice working with operational procedures cpus and ram cmos and bios settings the expansion bus motherboards power supplies hard drives removable media input output ports windows 2000 windows xp and windows vista video cards portable pcs pdas and wireless technologies printers networks security troubleshooting techniques

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practice the it skills essential for your success 115 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 in this lab manual you ll practice working with cpus ram

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this course teaches students the fundamentals of cisco routing and switching and will prepare students for the ccna exam students will work with the cisco router and switch interface to manage and troubleshoot a cisco internetwork they ll then learn about tcp ip addressing and subnetting as well as ip routing finally students will learn how to make a cisco internetwork more secure

the only authorized lab manual for the cisco networking academy networking essentials course curriculum objectives networking is at the heart of the digital transformation the network is essential to many business functions today including business critical data and operations cybersecurity and so much more this is a great course for developers data scientists cybersecurity specialists and other professionals looking to broaden their networking domain knowledge it s also an excellent launching point for students pursuing a wide range of career pathways from cybersecurity to software development to business and more no prerequisites required

features 40 labs that challenge readers to solve problems by applying the concepts taught

the only authorized lab manual for the cisco networking academy ccna cybersecurity operations course curriculum objectives ccna cybersecurity operations 1 0 covers knowledge and skills needed to successfully handle the tasks duties and responsibilities of an associate level security analyst working in a security operations center soc upon completion of the ccna cybersecurity operations 1 0 course students will be able to perform the following tasks install virtual machines to create a safe environment for implementing and analyzing cybersecurity threat events explain the role of the

cybersecurity operations analyst in the enterprise explain the windows operating system features and characteristics needed to support cybersecurity analyses explain the features and characteristics of the linux operating system analyze the operation of network protocols and services explain the operation of the network infrastructure classify the various types of network attacks use network monitoring tools to identify attacks against network protocols and services use various methods to prevent malicious access to computer networks hosts and data explain the impacts of cryptography on network security monitoring explain how to investigate endpoint vulnerabilities and attacks analyze network intrusion data to verify potential exploits apply incident response models to manage network security incidents

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

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