

41092 Network Fundamentals

Lecture 1

Chapter 1: Roadmap

- 1.1 What is the Internet
- 1.2 Network edge (end systems, access network, links)
- 1.3 Network core (packet switching, circuit switching, network structure)
- 1.4 Delay, loss, throughput in networks
- 1.5 Protocol layers, service models
- 1.6 History

WHAT IS THE INTERNET

Billions of connected computing devices

Hosts = are end systems

Running network apps

Communication links

- Include fiber, copper, radio, satellite
- Transmission rate: is called **bandwidth**

Packet Switches

Forward packets (chunks of data)

- Via routers and switches

INTERNET – is the network of networks

- Mobile networks
- Home networks
- Institution networks
- Interconnected ISPs

All connected via ISP Access networks

Protocols – control sending, receiving of messages

Eg. TCP, IP, HTTP, Skype

Internet Standards

RFC: Request for comments

IETF: Internet Engineering Task Force

Protocol

They define format, order messages sent and received among network entities, and actions taken on message transmission, receipt

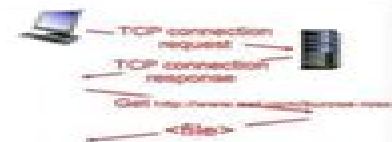
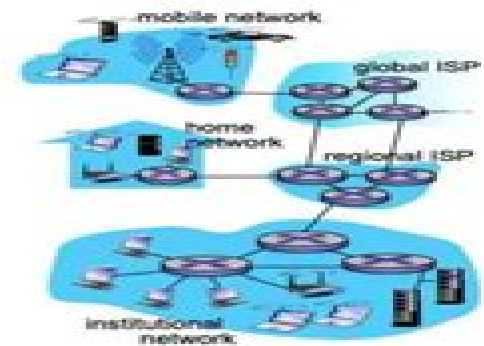
Human protocols include

Hello → ← Hi

What time is it? → ← 4:20 pm

Specific messages are sent then specific actions taken when messages received, or other events

Network Protocols
Machines rather than humans
All communication activity in Internet governed by protocols



Network Fundamentals Study Guide

Todd Lammle, Donald Robb



Network Fundamentals Study Guide:

Network Fundamentals, CCNA Exploration Companion Guide Mark Dye, Richard McDonald, Antoon Rufi, 2007-10-29
Network Fundamentals CCNA Exploration Companion Guide is the official supplemental textbook for the Network Fundamentals course in the Cisco Networking Academy CCNA Exploration curriculum version 4. The course, the first of four in the new curriculum, is based on a top-down approach to networking. The Companion Guide, written and edited by Networking Academy instructors, is designed as a portable desk reference to use anytime anywhere. The book's features reinforce the material in the course to help you focus on important concepts and organize your study time for exams. New and improved features 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 highlighted in context in each chapter. Glossary: Consult the comprehensive glossary with more than 250 terms. 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. The answer key explains each answer. Challenge questions and activities: Strive to ace more challenging review questions and activities designed to prepare you for the complex styles of questions you might see on the CCNA exam. The answer key explains each answer. How To Look for this icon to study the steps you need to learn to perform certain tasks. Packet Tracer Activities: Explore networking concepts in activities interspersed throughout some chapters using Packet Tracer v4.1 developed by Cisco. The files for these activities are on the accompanying CD-ROM. Also available for the Network Fundamentals Course: Network Fundamentals CCNA Exploration Labs and Study Guide ISBN 10 1 58713 203 6 ISBN 13 978 1 58713 203 2 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 provides many useful tools and information to support your education: Packet Tracer Activity exercise files v4.1 VLSM Subnetting Chart Structured Cabling Exploration Supplement Taking Notes a txt file of the chapter objectives A Guide to Using a Networker's Journal booklet IT Career Information Tips on Lifelong Learning in Networking. This book is part of the Cisco Networking Academy Series from Cisco Press. The products in this series support and complement the Cisco Networking Academy online curriculum. Network Fundamentals Study Guide JoAnne Keltner, 2005-01-01 Teaches the basic concepts and terminology of networking and is designed to prepare students for the Network Certification Exam. Network Fundamentals Antoon W. Rufi, 2008 Network Fundamentals is a complete collection of the exercises specifically written for the CCNA Exploration course in the Cisco Networking Academy Program. The book is designed to give students practice exercises and hands-on labs to study the course concepts in depth. Network Fundamentals, Ccna Exploration Companion Guide. Per Gli Ist. Tecnici E Professionali. Con CD-ROM Mark A. Dye, Rick McDonald, Antoon W. Rufi, 2007-10-01 The all new and only authorized textbook for the new Cisco Networking Academy Program CCNA Exploration Network Fundamentals

curriculum **AWS Certified Advanced Networking Official Study Guide** Sidhartha Chauhan,James Devine,Alan Halachmi,Matt Lehwess,Nick Matthews,Steve Morad,Steve Seymour,2018-02-13 The official study guide for the AWS certification specialty exam The AWS Certified Advanced Networking Official Study Guide Specialty Exam helps to ensure your preparation for the AWS Certified Advanced Networking Specialty Exam Expert review of AWS fundamentals align with the exam objectives and detailed explanations of key exam topics merge with real world scenarios to help you build the robust knowledge base you need to succeed on the exam and in the field as an AWS Certified Networking specialist Coverage includes the design implementation and deployment of cloud based solutions core AWS services implementation and knowledge of architectural best practices AWS service architecture design and maintenance networking automation and more You also get one year of free access to Sybex s online interactive learning environment and study tools which features flashcards a glossary chapter tests practice exams and a test bank to help you track your progress and gauge your readiness as exam day grows near The AWS credential validates your skills surrounding AWS and hybrid IT network architectures at scale The exam assumes existing competency with advanced networking tasks and assesses your ability to apply deep technical knowledge to the design and implementation of AWS services This book provides comprehensive review and extensive opportunities for practice so you can polish your skills and approach exam day with confidence Study key exam essentials with expert insight Understand how AWS skills translate to real world solutions Test your knowledge with challenging review questions Access online study tools chapter tests practice exams and more Technical expertise in cloud computing using AWS is in high demand and the AWS certification shows employers that you have the knowledge and skills needed to deliver practical forward looking cloud based solutions The AWS Certified Advanced Networking Official Study Guide Specialty Exam helps you learn what you need to take this next big step for your career **Study Guide [for] Networking Fundamentals** JoAnne Keltner,2012 **Network+ Study Guide** David Groth,Toby Skandier,Todd Lammle,William Tedder,2005-05-16 If you re serious about getting your Network certification and advancing your career in the field of networking this is the book you need Revised for the new version of the Network exam N10 003 this Deluxe Edition of the best selling Network Study Guide was developed to meet the exacting requirements of today s IT certification candidates In addition to the engaging and accessible instructional style that has made author David Groth a reader favorite for years this updated edition provides In depth coverage of every Network exam objective Practical instruction and insights drawn from real world experience Leading edge exam preparation software including the Network Virtual Lab as well as Sybex s custom test engine electronic flashcards and the entire book in PDF In addition you ll find authoritative coverage of all exam objectives including Media and Topologies Protocols and Standards Network Implementation Network Support Order your copy today **CompTIA A+ Complete Study Guide** Quentin Docter,Emmett Dulaney,Toby Skandier,2007-02-03 All in one guide prepares you for CompTIA s new A Certification Candidates aiming for CompTIA s

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Designing for Cisco Internetwork Solutions (DESGN) Foundation Learning Guide Sean Wilkins, 2011-07-25

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