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6.1 Introduction to the Link Layer - 6.1 Introduction to the Link Layer by JimKurose 44,413 views 2 years ago 11 minutes, 13 seconds - 6.1 Introduction to the Link Layer Video presentation: **Computer Networks**, and the Internet. Chapter overview, link layer: services ...

Introduction

Goals

Link Layer Terminology

EndtoEnd Context

Services

Implementation

2.6 Video Streaming and Content Distribution Networks - 2.6 Video Streaming and Content Distribution Networks by JimKurose 45,562 views 2 years ago 16 minutes - Video presentation: **Computer Networks**, and the Internet. 2.6 Video Streaming and Content Distribution Networks. video ...

Introduction

Video Structure

Technical Challenges

Video Streaming

Content Distribution Networks

6.2 Error detection and correction - 6.2 Error detection and correction by JimKurose 35,706 views 2 years ago 8 minutes, 48 seconds - 6.2 Error detection and correction Video presentation: **Computer Networks**, and the InternetError detection and correction. Forward ...

Error detection and correction • simple error correction

Error detection EDC: error detection and correction bits e.g., redundancyl D: data protected by error checking, may include header fields

Parity checking single bit parity: detect single bit errors

Internet checksum (review, see section 3.3) Goal: detect errors (.e., flipped bits) in transmitted

segment sender

Cyclic Redundancy Check (CRC): example Sender wants to compute R such that

Error detection and correction simple error correction

Introduction to Networking | Network Fundamentals Part 1 - Introduction to Networking | Network Fundamentals Part 1 by Network Direction 2,141,812 views 5 years ago 11 minutes, 54 seconds - Interested in learning about **networking**,? Let **Network**, Direction help you get started. This video is for people that are first starting ...

Introduction

What is a network

Networks

What is a Content Delivery Network (CDN)? - What is a Content Delivery Network (CDN)? by IBM Technology 278,476 views 4 years ago 4 minutes, 36 seconds - A content delivery **network**, (CDN) is a distributed server **network**, that accelerates internet content delivery to users based on their ...

Introduction

Challenges

Speed

Distribution

Summary

Networking basics (2024) | What is a switch, router, gateway, subnet, gateway, firewall & DMZ - Networking basics (2024) | What is a switch, router, gateway, subnet, gateway, firewall & DMZ by IT k Funde 4,809,558 views 3 years ago 14 minutes, 58 seconds - Networking, basics (2023) | What is a switch, router, gateway, subnet, gateway, firewall & DMZ #networkingbasics #switch #router ...

1.6 Networks Under Attack - 1.6 Networks Under Attack by JimKurose 38,615 views 2 years ago 6 minutes, 31 seconds - Video presentation: **Computer Networks**, and the Internet. 1.6 Networks under attack. What can bad actors do? What defenses ...

Network Security - Internet not originally designed with (much) security in mind original vision: a group of mutually trusting users attached to a

Bad guys: fake identity IP spoofing: injection of packet with false source address

Bad guys: denial of service Denial of Service (DoS): attackers make resources (server, bandwidth) unavailable to legitimate traffic by overwhelming resource with bogus traffic

authentication proving you are who you say you are . cellular networks provides hardware identity via SIM card; no such hardware assist in traditional Internet

3.5-2 TCP Reliability, Flow Control, and Congestion Control (part 2/2) - 3.5-2 TCP Reliability, Flow Control, and Congestion Control (part 2/2) by JimKurose 49,247 views 2 years ago 11 minutes, 47 seconds - Video presentation: Transport layer: Part 2/2 of "TCP Reliability, Flow Control, and Connection Management." TCP Flow control.

Introduction

General context

Video

Flow Control

Connectionoriented

Shared State

TwoWay Handshake

TwoWay Handshake Example

TwoWay Handshake Problem

ThreeWay Handshake

Human Protocol Analogy

TCP Connection Closing

Conclusion

1.5 Layering, encapsulation - 1.5 Layering, encapsulation by JimKurose 64,012 views 2 years ago 10 minutes, 50 seconds - Video presentation: **Computer Networks**, and the Internet. 1.5 Layering and encapsulation. Layered architectures. The layered ...

Introduction

Analogy

Advantages

Application Layer

End End View

The Data Link Layer, MAC Addressing, and the Ethernet Frame - The Data Link Layer, MAC Addressing, and the Ethernet Frame by danscourses 92,624 views 4 years ago 15 minutes - A short

presentation on the Data Link Layer, the LLC and MAC sublayers, the structure of MAC addressing, and the structure of an ...

CSMA/CD - Carrier Sense Multiple Access with Collision Detection

MAC Address - 12 hexadecimal characters

EtherType Field Protocol Numbers

3.5-1 TCP Reliability, Flow Control, and Connection Management - 3.5-1 TCP Reliability, Flow Control, and Connection Management by JimKurose 79,412 views 2 years ago 14 minutes, 20 seconds

- Video presentation: Transport layer: Part 1/2 of "TCP Reliability, Flow Control, and Connection Management." TCP reliability ...

Tcp Segment Structure

Meaning of Tcp Sequence Number and Acknowledgement Number of Fields

Example of Tcp in Action

How Should the Timeout Values Be Set

Estimate the Rtt

Exponentially Weighted Moving Average

Tcp Receiver

Retransmission Scenarios

Tcp Fast Retransmit

4.3 The Internet Protocol, part 1 - 4.3 The Internet Protocol, part 1 by JimKurose 70,502 views 2 years ago 30 minutes - Video presentation: **Network**, Layer: The Internet Protocol, part 1. Introduction, IP datagram format, addressing, DHCP. **Computer**, ...

IP Datagram format

IP addressing: introduction

Computer Networks and Internet Protocol Week 6 Assignment Solutions |@OPEducore - Computer Networks and Internet Protocol Week 6 Assignment Solutions |@OPEducore by OP Educore 450 views 2 weeks ago 2 minutes, 5 seconds - NPTEL **Computer Network**, and Internet Protocol **6**, Assignment **Solutions**, 2024 || Jan- Apr 2024 Duration : 12 weeks Start Date : 22 ...

3.6 Principles of Congestion Control - 3.6 Principles of Congestion Control by JimKurose 61,263 views 2 years ago 15 minutes - Video presentation: Transport layer: Principles of Congestion Control. **Computer networks**, class. Jim **Kurose**, Textbook reading: ...

Introduction

What is congestion

Simple idealized scenario

Known Loss

Summary

Conclusion

6.3 Multiple Access links and protocols - 6.3 Multiple Access links and protocols by JimKurose 44,742 views 2 years ago 28 minutes - 6.3 Multiple Access links and protocols Video presentation: **Computer Networks**, and the Internet the multiple access link; multiple ...

Intro

Multiple access links, protocols two types of "links"

An ideal multiple access protocol

MAC protocols: taxonomy three broad classes

Channel partitioning MAC protocols: FDMA

Random access protocols

Slotted ALOHA: efficiency

CSMA: collisions

Ethernet CSMA/CD algorithm

"Taking turns" MAC protocols

Cable access network: FDM, TDM and random access!

Link Layer

Computer Networking Course - Network Engineering [CompTIA Network+ Exam Prep] - Computer Networking Course - Network Engineering [CompTIA Network+ Exam Prep] by freeCodeCamp.org 3,462,868 views 3 years ago 9 hours, 24 minutes - This full college-level **computer networking**, course will prepare you to configure, manage, and troubleshoot **computer networks**,.

Intro to Network Devices (part 1)

Intro to Network Devices (part 2)

Networking Services and Applications (part 1)

Networking Services and Applications (part 2)

DHCP in the Network
Introduction to the DNS Service
Introducing Network Address Translation
WAN Technologies (part 1)
WAN Technologies (part 2)
WAN Technologies (part 3)
WAN Technologies (part 4)
Network Cabling (part 1)
Network Cabling (part 2)
Network Cabling (part 3)
Network Topologies
Network Infrastructure Implementations
Introduction to IPv4 (part 1)
Introduction to IPv4 (part 2)
Introduction to IPv6
Special IP Networking Concepts
Introduction to Routing Concepts (part 1)
Introduction to Routing Concepts (part 2)
Introduction to Routing Protocols
Basic Elements of Unified Communications
Virtualization Technologies
Storage Area Networks
Basic Cloud Concepts
Implementing a Basic Network
Analyzing Monitoring Reports
Network Monitoring (part 1)
Network Monitoring (part 2)
Supporting Configuration Management (part 1)
Supporting Configuration Management (part 2)
The Importance of Network Segmentation
Applying Patches and Updates
Configuring Switches (part 1)
Configuring Switches (part 2)
Wireless LAN Infrastructure (part 1)
Wireless LAN Infrastructure (part 2)
Risk and Security Related Concepts
Common Network Vulnerabilities
Common Network Threats (part 1)
Common Network Threats (part 2)
Network Hardening Techniques (part 1)
Network Hardening Techniques (part 2)
Network Hardening Techniques (part 3)
Physical Network Security Control
Firewall Basics
Network Access Control
Basic Forensic Concepts
Network Troubleshooting Methodology
Troubleshooting Connectivity with Utilities
Troubleshooting Connectivity with Hardware
Troubleshooting Wireless Networks (part 1)
Troubleshooting Wireless Networks (part 2)
Troubleshooting Copper Wire Networks (part 1)
Troubleshooting Copper Wire Networks (part 2)
Troubleshooting Fiber Cable Networks
Network Troubleshooting Common Network Issues
Common Network Security Issues
Common WAN Components and Issues
The OSI Networking Reference Model
The Transport Layer Plus ICMP

Basic Network Concepts (part 1)
 Basic Network Concepts (part 2)
 Basic Network Concepts (part 3)
 Introduction to Wireless Network Standards
 Introduction to Wired Network Standards
 Security Policies and other Documents
 Introduction to Safety Practices (part 1)
 Introduction to Safety Practices (part 2)
 Rack and Power Management
 Cable Management
 Basics of Change Management
 Common Networking Protocols (part 1)
 Common Networking Protocols (part 2)
 Computer Networking Notes for Tech Placements - Computer Networking Notes for Tech Placements by Apna College 289,027 views 2 years ago 3 minutes, 47 seconds - Computer Networking, Notes : https://drive.google.com/drive/folders/1wfNTKinBAV6CCxaI5lfSnnRFAYpy0uEI?usp=share_link ...
 MAC Addresses, ARP, and Ethernet - Network Link Layer | Computer Networks Ep. 6.4.1 | Kurose & Ross - MAC Addresses, ARP, and Ethernet - Network Link Layer | Computer Networks Ep. 6.4.1 | Kurose & Ross by Epic Networks Lab 20,211 views 3 years ago 12 minutes, 48 seconds - Answering the question: "How does Ethernet work?" Discusses MAC addressing, the address-resolution protocol, and the ...
 Intro
 Link layer, LANs: roadmap
 MAC addresses
 ARP: address resolution protocol Question: how to determine interface's MAC address, knowing its IP address?
 ARP protocol in action example: A wants to send datagram to B
 Routing to another subnet: addressing
 Ethernet frame structure sending interface encapsulates IP datagram or other network layer
 Ethernet frame structure (more)
 Ethernet: unreliable, connectionless
 802.3 Ethernet standards: link & physical layers
 Search filters
 Keyboard shortcuts
 Playback
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 Subtitles and closed captions
 Spherical videos

RCODEs. Retrieved 14 June 2019. James F. Kurose and Keith W. Ross, Computer Networking: A Top-Down Approach, 6th ed. Essex, England: Pearson Educ. Limited... 70 KB (9,091 words) - 06:10, 9 March 2024
 systems or books from unauthorized access, damage, theft, or destruction (Kurose and Ross, 2010). At the core of information security is information assurance... 191 KB (22,124 words) - 22:47, 7 March 2024
 susceptible to this subterfuge. Kurose, James F. (2013). Computer Networking: A Top-down Approach. Ross, Keith W., 1956- (6th ed.). Boston: Pearson. p. 338... 20 KB (2,599 words) - 20:05, 4 April 2023
 296] Anan Kurose (Òkoro Anan) / Thirteen (13+) Jksan-gM Voiced by: Inuko Inuyama (Japanese); Morgan Berry (English) Anan Kurose is a Pro Hero... 296 KB (39,151 words) - 02:01, 11 March 2024
 Administration and History 51.3 (2019): 213–238. online Baum, Sandy, Charles Kurose, and Michael McPherson. "An overview of American higher education." in The... 133 KB (12,468 words) - 21:38, 3 February 2024