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, throughout 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

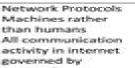
Internet Standards RFC: Request for comments. IETF: Internet Engineering Task Force

Protocoli

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 eventsNetwork Protocols Machines rather than humans All communication activity in internet. poverned by protocols







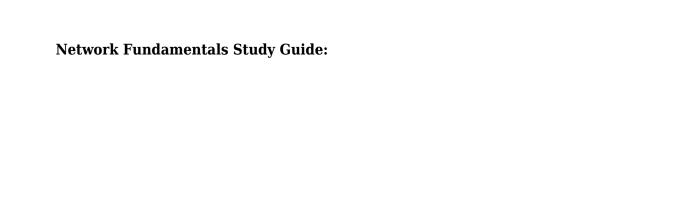






Network Fundamentals Study Guide

Sean Wilkins



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