

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

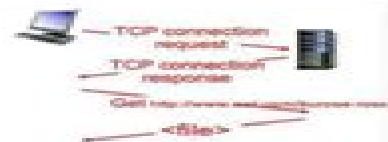
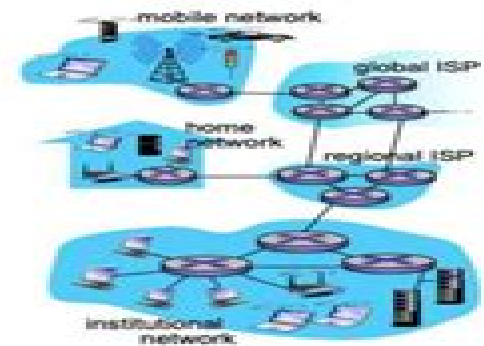
Human protocols include

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



Microsoft Network Fundamentals Study Guide Answers

Dr. Logan Song



Microsoft Network Fundamentals Study Guide Answers:

This book delves into Microsoft Network Fundamentals Study Guide Answers. Microsoft Network Fundamentals Study Guide Answers is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Microsoft Network Fundamentals Study Guide Answers, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Microsoft Network Fundamentals Study Guide Answers
 - Chapter 2: Essential Elements of Microsoft Network Fundamentals Study Guide Answers
 - Chapter 3: Microsoft Network Fundamentals Study Guide Answers in Everyday Life
 - Chapter 4: Microsoft Network Fundamentals Study Guide Answers in Specific Contexts
 - Chapter 5: Conclusion
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