Networked Life: 20 Questions and Answers

by Mung Chiang

Chapter 13: How does traffic get through the Internet?

Problems

13.1 Packet switching *

(a) Statistical multiplexing

Suppose you have a 10 Mbps link shared by many users. Each user of the link generates 1 Mbps of data 10% of the time, and is idle 90% of the time.

If we use a circuit switched network, and the bandwidth allocation is equal, how many users can the link support? Call this number N. Now consider a packet switched network. Say we have M users in total, and we want the probability of a user being denied service to be less 1%. Write down the expression that must be solved in the form of $f(M, N) \leq 0.01$. Solve this numerically for M. (Hint: Use the binomial CDF.)

(b) Resource pooling

We will consider modeling a shared resource and see what happens when both the demand for the resource and ability to fulfill requests increases. Suppose we have *m* servers. When a request comes in, a sever answers the request. If all

Networked Life 20 Questions And Answers Solution Manual

R Sandford

Networked Life 20 Questions And Answers Solution Manual:

The book delves into Networked Life 20 Questions And Answers Solution Manual. Networked Life 20 Questions And Answers Solution Manual is a vital topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Networked Life 20 Questions And Answers Solution Manual, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Networked Life 20 Questions And Answers Solution Manual
 - o Chapter 2: Essential Elements of Networked Life 20 Questions And Answers Solution Manual
 - o Chapter 3: Networked Life 20 Questions And Answers Solution Manual in Everyday Life
 - Chapter 4: Networked Life 20 Questions And Answers Solution Manual in Specific Contexts
 - ∘ Chapter 5: Conclusion
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- 6. In chapter 5, the author will draw a conclusion about Networked Life 20 Questions And Answers Solution Manual. The final chapter will summarize the key points that have been discussed throughout the book.
 - The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Networked Life 20 Questions And Answers Solution Manual.

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