Navigation is:

A. Following a series of links to locate specific information on the Web.
B. Finding your uncle's mountain cabin in dense fog.
C. Avoiding rush-hour traffic during the World Series.
Test Your Tech

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Announcements

• Due by today
  * Chapters 1-5 in Fluency

• For Monday
  * Read Chapter 6
A little bit more

NETWORKING WRAP-UP
Activity

• Dissecting URLs….
  * [http://224.127.199.8](http://224.127.199.8)
  • Physical IP address
Networks

• Servers
  * Your own home computer
    • If you’re sharing files with someone else
  * A single computer in a UW department
  * A cluster of many computers (Dante)
    • Server software distributes the “load” among the servers
    • Server “farm” is across campus
SSH Secure File Transfer (SFTP)

- Copy files between two computers
- Use it at home or anywhere
Why use SFTP?

Advantages:

• Secure, encrypted transfers
• Remote access from anywhere
• Network space (storage/backup)
  * Dante = 300MB

  1 CD-ROM ≈ 700MB

  1 DVD ≈

  Single-sided: 4700GB (4.6GB)
  Double-sided: 9400GB (9.2GB)
What can I connect to?

- UW SFTP Servers
  - dante.u.washington.edu for students
  - homer.u.washington.edu for faculty & staff
- Maybe your own ISP?
SFTP Client/Server Model

Copy files to a server and access them from

» Any computer!
» Anywhere!
SFTP Client/Server Model

Local CPU

Keyboard

Mouse

Input

Output

Monitor

Local storage

Local storage

Hard Drive

Remote CPU
dante.u.washington.edu

SFTP

UPLOAD

SFTP

DOWNLOAD

Your UW account directory

UW NetID: __________

Password: __________

Hard Drive

Hard Drive
SFTP Interface

Local Computer

Remote Server

Connected to homer.u.washington.edu - Jnfs/aesop10/lrc35/c78/fit100
SSH2 - blowfish-cbc - hmac-md5 - none 6 items (20.2 kb)
• **Warriors of the Net**
One Liner

• One sentence
  * Most interesting part of the video
Quick Write

• Two paragraphs
• Five minutes
• Topic:
  * How does the World Wide Web use the Internet and the http protocol?
Announcements

• Chapter 6 for Monday
• Due before Noon
  * Labs 3 and 4
  * HW2