



# Test Your Tech

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.



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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>
    - 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  $\approx$  700MB

1 DVD  $\approx$

Single-sided: 4700GB (4.6GB)

Double-sided: 9400GB (9.2GB)





## What can I connect to?

- UW SFTP Servers
  - \* [dante.u.washington.edu](http://dante.u.washington.edu) for students
  - \* [homer.u.washington.edu](http://homer.u.washington.edu) for faculty & staff
- Maybe your own ISP?



# SFTP Client/Server Model

Copy files to a server

and

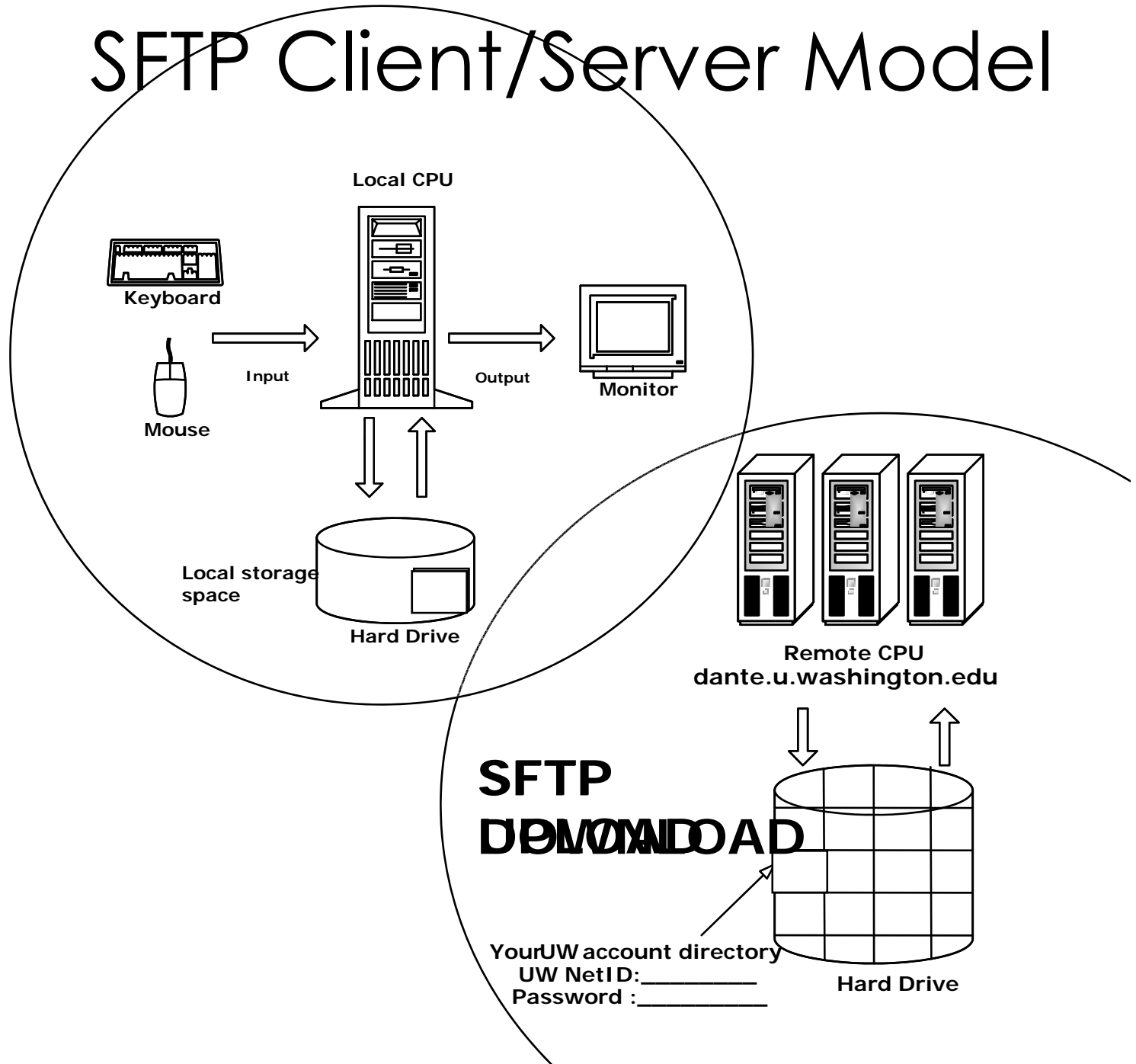
access them from

» Any computer!

» Anywhere!



# SFTP Client/Server Model





FI

# SFTP Interface

homer.u.washington.edu - fit100 - SSH Secure File Transfer

File Edit View Operation Window Help

Quick Co

**Local Computer** | {Grace}

Local Name	Size	Type	Modified
BootCamp		Folder	06/10/2003 04:50:...
DistanceCourses		Folder	05/14/2003 03:30:...
DMLISCoordination		Folder	06/04/2003 04:30:...
EDUCAUSE		Folder	02/18/2003 11:37:...
FIT100		Folder	06/10/2003 05:25:..
HollyTeachBCC		Folder	06/10/2003 03:1'
LIS540		Folder	06/10/2003 09:2
LIS541		Folder	05/08/2003 06:27:...
TASstuff		Folder	04/29/2003 03:22:...
FIT100Numbers_Majors...	28...	Microsof...	03/18/2003 11:52:...
JohnStephensNumbers....	44...	Microsof...	03/18/2003 11:55:...
KateMcDillTestDB.mdb	1,...	Microsof...	03/27/2003 05:24:...
lecture1_Melody.doc	67...	Microsof...	01/07/2003 12:36:...

**Remote Server** | fit100

Remote Name	Size	Type	Modified	Attributes
_Grace		Folder	06/04/2003 11:47:...	drwxr-xr-x
public_html		Folder	04/13/2003 08:25:...	drwxr-x---
public_media		Folder	05/25/2002 02:39:...	drwxr-x---
grades.pl	3,103	PL File	05/14/2003 05:01:...	-rw-r--r--
grades2.pl	3,153	PL File	05/14/2003 04:55:...	-rw-r--r--
...3.txt	13,967	Text ...	05/14/2003 04:51:...	-rw-r--r--

Transfer | Queue |

Connected to homer.u.washington.edu - /nfs/aesop10/rc35/d78/fit100

SSH2 - blowfish-cbc - hmac-md5 - none 6 items (20.2 KB)



## Video

- 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