

# Announcements

- Start your project and don't wait until the day before is due
- Next in-class discussion will be next Wednesday

# Remote Connection Protocols

- Different ways in which we can connect to a remote machine over the internet
- Protocols
  - telnet (typically for Unix systems, not encrypted)
  - ssh (typically for unix system, with information being encrypted)
  - rdc (to connect to Win 2000/2003 server or Win XP machine)
- All the above application work using the client/server model

# What happens in a remote connection

- Client and server machines communicate using the same protocol
- Client will
  - Create TCP connection
  - Accept your input
  - Reorganize data into a transmission format
  - Send data to remote computer (host)
  - Receive data from remote computer
  - Reformat and display information to you

# What happens in a remote connection

- Server will
  - Wait for a request to set a connection
  - Help establish the TCP connection
  - Process client input and process request
  - Send results back to the client
  - Go back to wait for a connection request

# Default Mode for Servers

- Most telnet/ssh servers and rdc servers set up by default to service remote login
- Other servers provide a specific service (e.g. a library service)
- We no longer can use telnet to login to Campus

# CGI-BIN directories

- You can trigger the execution of programs present on the remote machine running the web server.
- Most of these programs are known as Common Gateway Interface (CGI) scripts.
- CGI script – simple program that performs a specific task.
- The script usually resides in a cgi-bin folder
- URL provides the location of the cgi-bin
- Example
- <http://www.m-w.com/cgi-bin/dictionary?clown>

# Remote Login Intro

- How to run F-Secure
- How to open a login window
- How to transfer file
- Basic commands
  - ls
  - ls -al