

## The BIG Picture, planting seeds and Lexicon: the language of networking

## Goal of networking:

1. Access control
  - a. Who can
    - i. Read
    - ii. Write
    - iii. Execute
    - iv. Create
    - v. Modify
    - vi. Delete
    - vii. List files
  - b. Access given to"
    - i. Individual User(owner of file)
    - ii. Group of users
    - iii. Others
2. Resources Control
  - a. Files
  - b. Printers
  - c. Etc.
3. Timeline
  - a. Set up network
    - i. Topologies
      1. bus
      2. star
      3. ring
      4. hybrid
    - ii. Connectivity
      1. bridges
        - a. hubs, routers, switches
      2. gateway devices
    - iii. protocols
      1. IEEE
        - a. 802.3 Ethernet
          - i. 10/100 Mb
        - b. 802.11 b-g
          - i. 4-11-54 Mb
  - b. Set up server
    - i. Services
      1. Domain Name Controller
      2. Dynamic Host Configuration Protocol
      3. Web
      4. Mail
      5. PDC vs. BDCetc.
  - c. Set up groups
  - d. Set up users
    - i. When can they use resources
    - ii. What can they see and use
    - iii. Where can they access network
    - iv. How much storage and bandwidth should be allocated
  - e. Maintenance
  - f. Security
  - g. Limitations