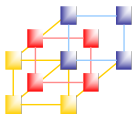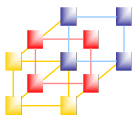# Unit 3
Application based on TCP

Post Office Protocol – Version 3 (POP3) (1/2)

- RFC 1225, May 1991
- TCP port 110
- Commands in the POP3
  - USER name
  - PASS string
  - QUIT
  - STAT
  - LIST [msg]
  - RETR msg
  - DELE msg
  - NOOP
  - LAST
  - RSET
  - TOP msg n
- POP3 Replies
  - +OK
  - -ERR

Post Office Protocol – Version 3 (POP3) (2/2)

- Once the TCP connection has been opened by a POP3 client, the POP3 server issues a one line greeting. This can be any string terminated by CRLF.
  - Example :
    - +OK dewey POP3 server
- Note that this greeting is a POP3 reply
  - The POP3 server should always give a positive response as the greeting.
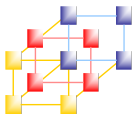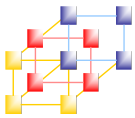
POP3 commands (1/4)

- USER name   使用者名稱
  - Possible Responses
    - +OK name is welcome here
    - -ERR never heard of name
- PASS string   密碼
  - Possible Responses:
    - +OK maildrop locked and ready
    - -ERR invalid password
    - -ERR unable to lock maildrop
- QUIT   離開
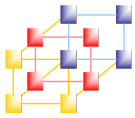 - Possible Responses:
    - +OK
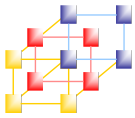
POP3 commands (2/4)

- STAT　　　　　　　信箱狀態
    - Possible Responses:
        - +OK nn mm (nn: mail number, mm total size)
- LIST [msg]　　　每封郵件的狀態
    - Possible Responses:
        - +OK scan listing follows
        - -ERR no such message
- RETR msg　　　讀取第 msg 封郵件
    - Possible Responses:
        - +OK message follows
        - -ERR no such message

POP3 commands (3/4)

- DELE msg　　　刪除第 msg 封郵件
    - Possible Responses:
        - +OK message deleted
        - -ERR no such message
- NOOP　　　　　　　　　do nothing
    - Possible Responses:
        - +OK

POP3 commands (4/4)

- LAST   詢問已讀取的郵件編號
  - Possible Response:
    - +OK nn   nn 為已讀取郵件的最高編號
- RSET   取消標示已刪除之郵件
  - Possible Responses:
    - +OK
- TOP msg n 讀取郵件 msg 的檔頭及前n行
  - Possible Responses:
    - +OK top of message follows
    - -ERR no such message

Network Programming