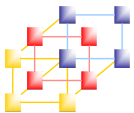


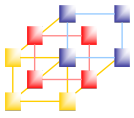
Unit 4

Application based on TCP



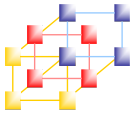
Post Office Protocol – Version 3 (POP3) (1/2)

- 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



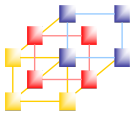
Post Office Protocol – Version 3 (POP3) (2/2)

- 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.



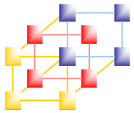
POP3 commands (1/4)

- 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



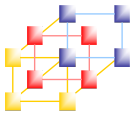
POP3 commands (2/4)

- **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