# 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
- POP3 Replies
  - +OK
  - -ERR

- DELE msg
- NOOP
- LAST
- RSET
- TOP msg n



## 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.

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3



#### 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

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5



### 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

**RSET** 

- 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

· · OIX

- 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

7