

Bài 1
Date

No

1) Time Minimum time to distributed file using client-server model:

$$D_{cs} = \max \left\{ \frac{NF}{u_s}, \frac{F}{d_{min}} \right\}$$
$$= \max \left\{ \frac{9 \cdot 9 \cdot 10^9}{96 \cdot 10^6}, \frac{9 \cdot 10^9}{14 \cdot 10^6} \right\}$$

$$= \max \{ 843,75; 642,857 \} = 843,75 \text{ second}$$

2) The root cause of specific minimum time is s

3) Minimum time to distribute file using P2P model:

$$D_{p2p} = \max \left\{ \frac{F}{u_s}, \frac{F}{d_{min}}, \frac{NF}{(u_s + \sum u_i)} \right\}$$
$$= \max \left\{ \frac{9 \cdot 9 \cdot 10^9}{96 \cdot 10^6}, \frac{9 \cdot 10^9}{14 \cdot 10^6}, \frac{9 \cdot 9 \cdot 10^9}{(96 + 13 + 20 + 16 + 10 + 13 + 17 + 28 + 29)} \cdot 10^6 \right\}$$

$$= \max \{ 93,75; 642,857; 289,29 \} = 642,857 \text{ second}$$

4) The root cause of specific minimum time is d_7

Bài 2

1) At point 2, SMTP protocol is used

2) At point 4, SMTP protocol is used

3) At point 6, HTTP protocol is used

4) SMTP use TCP protocol

5) SMTP is a "push" protocol

6) HTTP is a "pull" protocol

7) SMTP use port 25

8) HTTP use port 80

NOTEBOOK