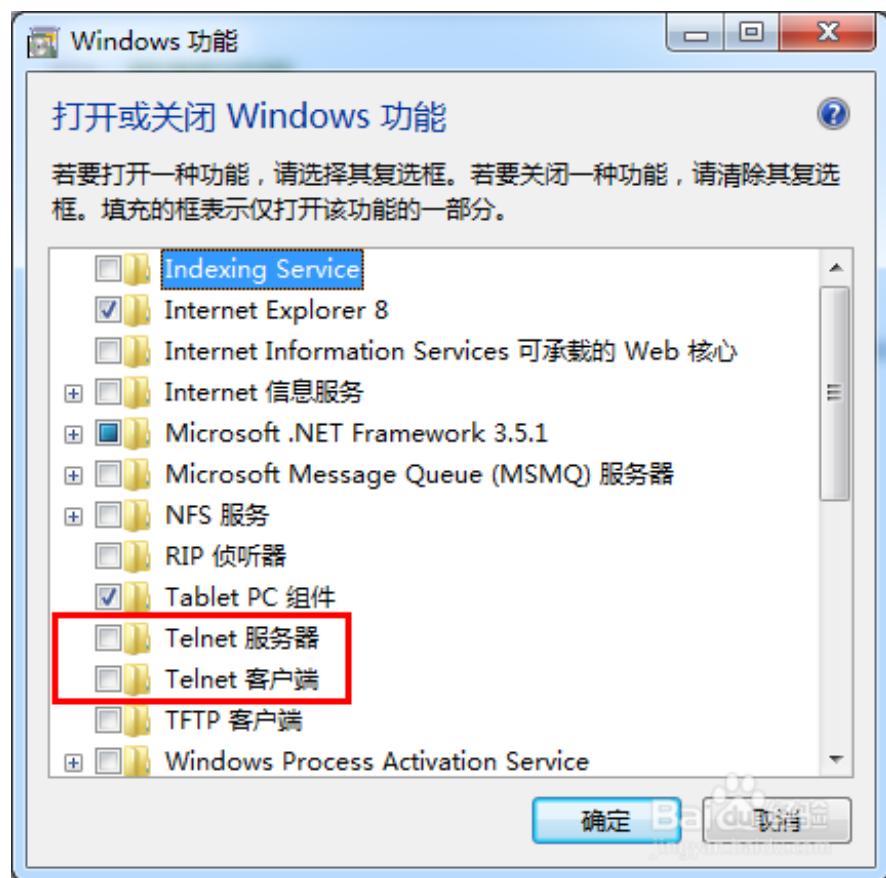


# 计算机网络第二次作业

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1.talnet whu.edu.cn 25

首先要开启windows功能中的talnet客户端和服务端，确保可以连接远程服务器



然后即可在命令行中进行操作，并尝试发送一封邮件，要经过账号和密码的byte64加密认证

```
220 whu.edu.cn Anti-spam GT for Coremail System (whu[20171226])
ehlo.edu.cn
250-mail
250-PIPELINING
250-AUTH LOGIN PLAIN
250-AUTH=LOGIN PLAIN
250-coremail 1Uxr2xKj7kG0xkI17xGrUDI0s8FY2U3Uj8Cz28x1UUUUU7Ic2I0Y2Ur6mQLNUCa0xDrUUUj
250-STARTTLS
250-SMTPUTF8
250 8BITMIME
auth login
334 dXNlcm5hbWU6
MjAxNjMwMjU4MDEzOA==
334 UGFzc3dvcmQ6
eWp0MTIzNDU=
235 Authentication successful
mail from:<2016302580138@whu.edu.cn>
250 Mail OK
rcpt to:<2016302580138@whu.edu.cn>
250 Mail OK
data
502 Error: command not implemented
data
354 End data with <CR><LF>. <CR><LF>
from:<coffee@163.com>
subject: a email from yourself

Hi, this is an email!

.
250 Mail OK queued as AQBjCgCnrycWon9c0kqKAA--.31155S2
```

成功发送邮件的效果如下

The screenshot shows the WHU-Email web interface. At the top, there's a navigation bar with '武大 | WHU-Email'. Below it is a toolbar with icons for '写信' (Compose), '收件箱' (Inbox), and a search bar containing 'a email fro...'. The main area is the inbox, which displays the following information:

- 收件箱 (共 6 封 3 封 未读, 全部设为已读)**: This section header indicates there are 6 messages in total, 3 of which are unread.
- 今天 (3)**: This section header indicates there are 3 messages received today.
- a email from yourself**: The subject of the first message. To its left is an unchecked checkbox. Below the subject, the message preview reads: '<>[D mo <<,, : Hi , thi this is an m email!]

On the left side of the inbox, there's a sidebar with links: '收件箱' (Inbox) with a blue '3' badge, '待办邮件', '草稿箱', '已发送', and '其他文件夹'.

## 2.课后习题



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3. 应用层协议 (Application layer protocols)  $\rightarrow$  DNS、HTTP  
传输层协议 (Transport layer protocols)  $\rightarrow$  UDP (DNS)  
TCP (HTTP)

7. Total time  $\rightarrow$  IP address

$$T = RTT_1 + RTT_2 + \dots + RTT_n = \sum_{i=1}^n RTT_i$$

Given IP address,  $\Delta t = RTT_0$  to build connection

Also need  $\Delta t$  to request and receive object

$$\text{Total response duration } T + 2\Delta t = \sum_{i=1}^n RTT_i + 2RTT_0$$

8. (a) according to the problem 7 we can simply conclude that

$$\sum_{i=1}^n RTT_i + 2RTT_0 + 8 \times 2RTT_0 = \sum_{i=1}^n RTT_i + 18RTT_0$$

(b) Similarly we can get

$$\sum_{i=1}^n RTT_i + 2RTT_0 + 2 \times 2RTT_0 = \sum_{i=1}^n RTT_i + 6RTT_0$$

(c)

$$\sum_{i=1}^n RTT_i + RTT_0 + 2RTT_0 = \sum_{i=1}^n RTT_i + 3RTT_0$$

while without pipelining

$$\sum_{i=1}^n RTT_i + 2RTT_0 + 8RTT_0 = \sum_{i=1}^n RTT_i + 10RTT_0$$



SHOT ON MI MIX 2S  
AI DUAL CAMERA



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11 (a) Right, since Bob are provided with more connections, he will have a larger link bandwidth

(b) Right, He needs to download in parallel ways, or he can only occupy less bandwidth.

### 13. MAIL FROM:

A part of SMTP handshake protocol, represented as a message from SMTP client to the SMTP server.

From:

a part of the specific message contents.



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