E - MAIL



By

Dr M. Senthilkumar

Assistant Professor

Department of Computer Science

Government Arts and Science College, Avinashi - 641654

EMAIL – UA

User uses User Agent

UA to send and receive a message easier

Command-driven user agents: mail, pine, and elm

GUI-based user agents: Eudora, Outlook, and Netscape

EMAIL – MTA

Message Transfer Agents: Actual mail transfer

Client MTA: To Send a mail

Server MTA: To Receive a mail

SMTP: Defines MTA Client and Server in the Internet

Mostly, two pairs of MTA Client – Server are used

EMAIL – SMTP

First and Second stages of mail delivery use SMTP

SMTP is not involved in third stage SMTP

SMTP is a push protocol

SMTP pushes the message from the Client to the Server In other words, the direction of the bulk data (messages) is from the client to the server

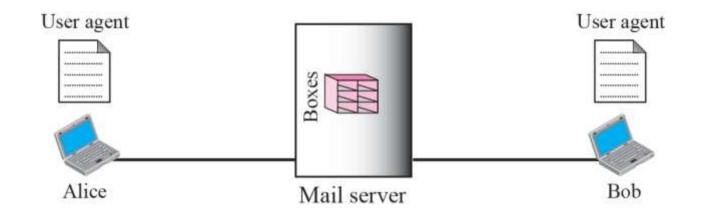
EMAIL – MAA

On the other hand, the third stage needs a pull protocol

The Client must Pull messages from the Server

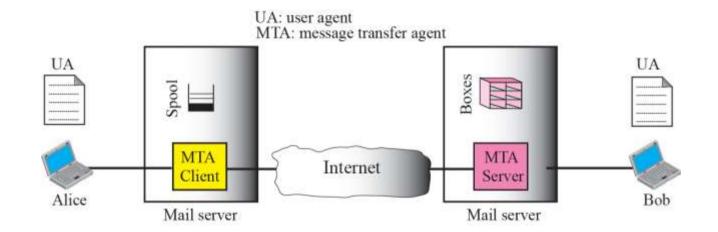
The direction of the bulk data are from the server to the client

The third stage uses a Message Access Agent



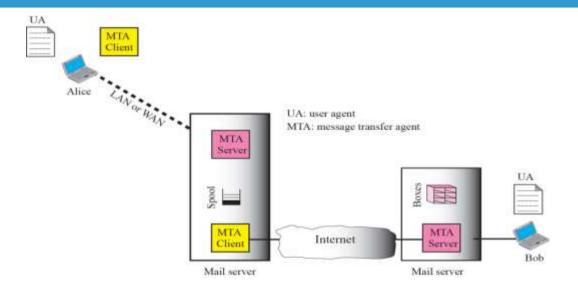
Sender and Receiver are on the Same mail server

We need only two UAs



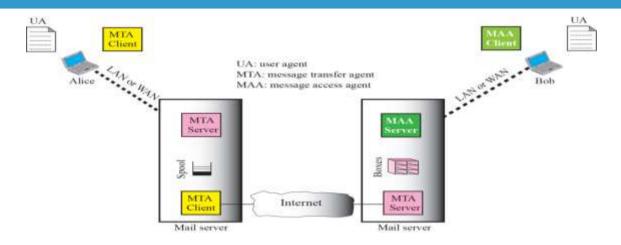
Sender and Receiver of are on Different mail servers

We need two UAs and a pair of MTAs (C/S)



Sender is connected to the mail server via a LAN/ WAN

We need two UAs and two pairs of MTAs (C/S)



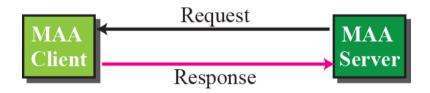
Sender and Receiver are connected to the mail server via a LAN/WAN

We need two UAs, two pairs of MTAs (C/S), and a pair of MAAs (C/S)

EMAIL – MTA C / S and MAA C/S



a. Client pushes messages



b. Client pulls messages

References

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- ✓ Computer Networks: Protocols, Standards, and Interfaces, Uyless Black, 2nd ed, PHI
- √ Various relevant websites

Thank You