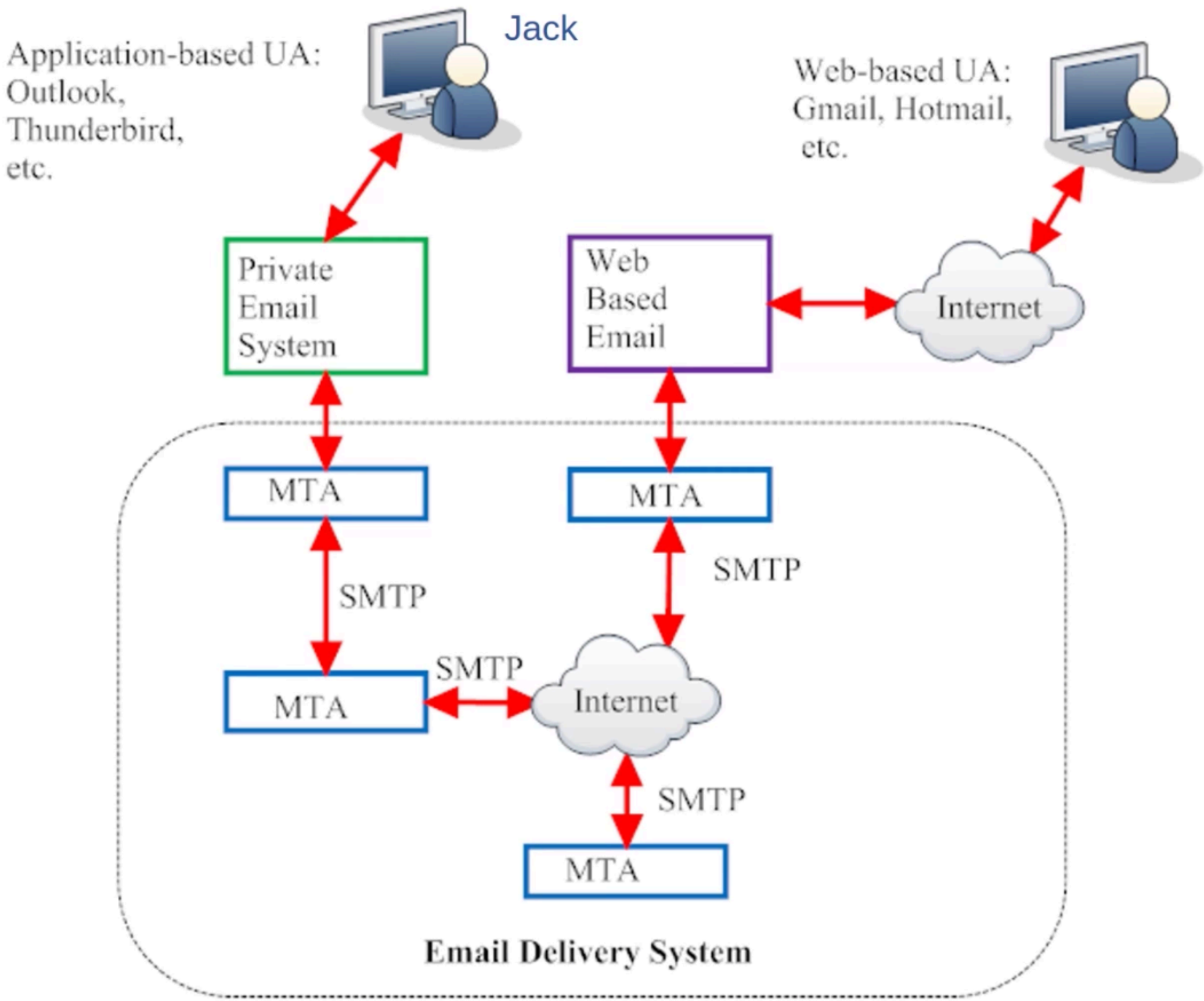
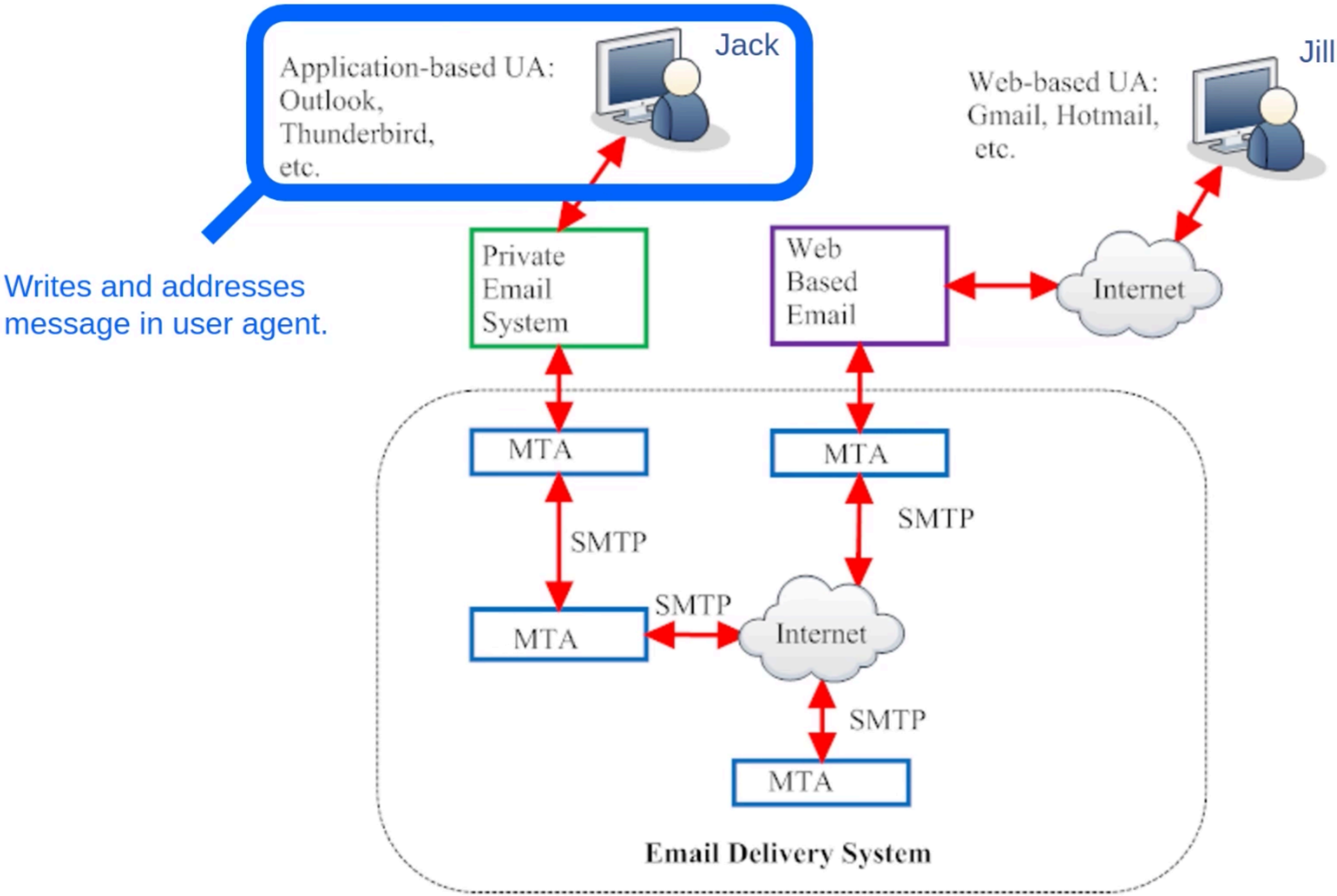
MAIL

Les 2 27/09/2018

M.DIMA


Jack
Application-based UA:
Outlook,
Thunderbird,
etc.
Web-based UA:
Gmail, Hotmail,
etc.
Private
Email
System
Web
Based
Email
Internet
MTA
MTA
SMTP
SMTP
SMTP
MTA
Internet
SMTP
MTA
Email Delivery System


Jack
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Thunderbird,
etc.
Jill
Web-based UA:
Gmail, Hotmail,
etc.
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message in user agent.
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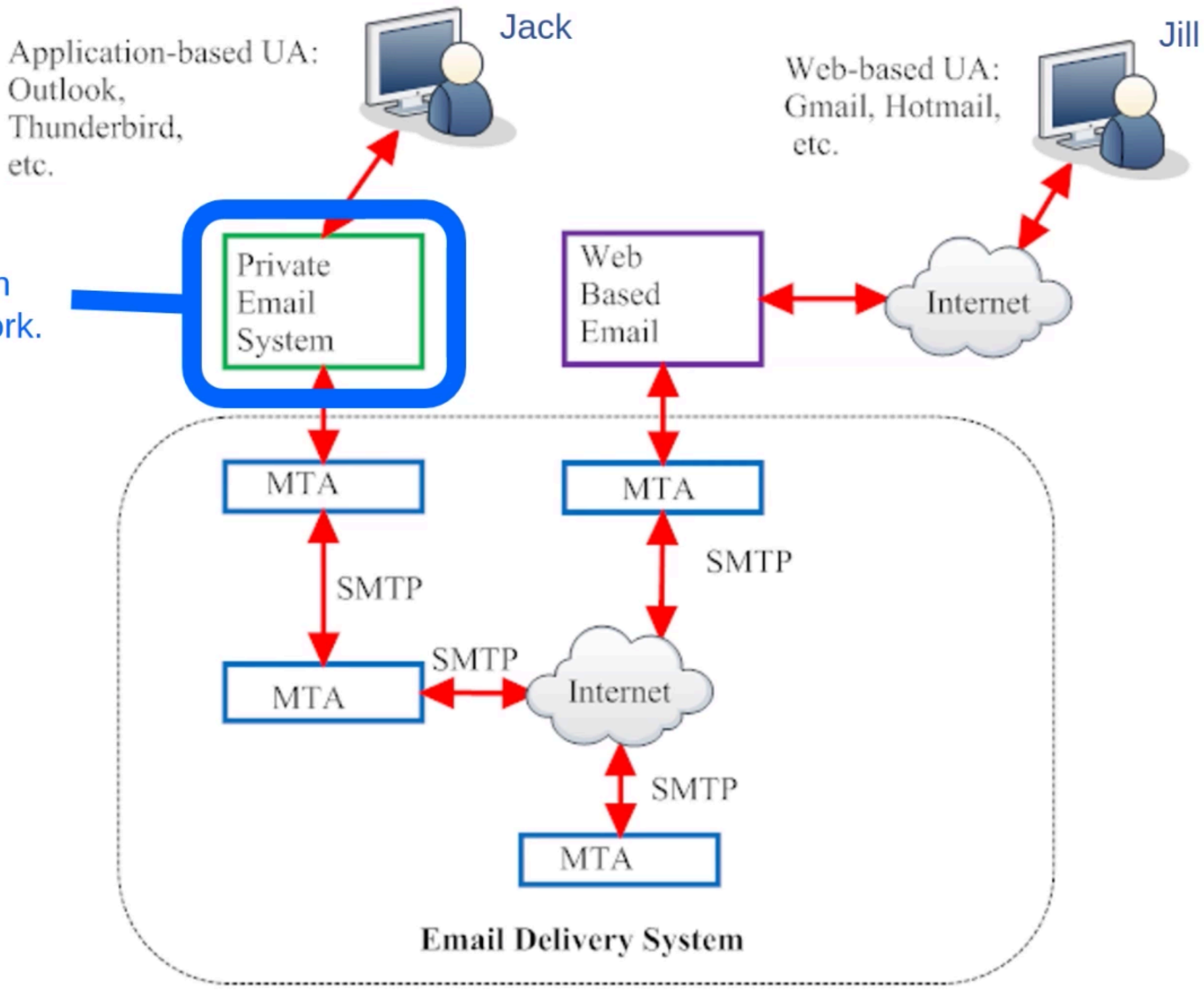
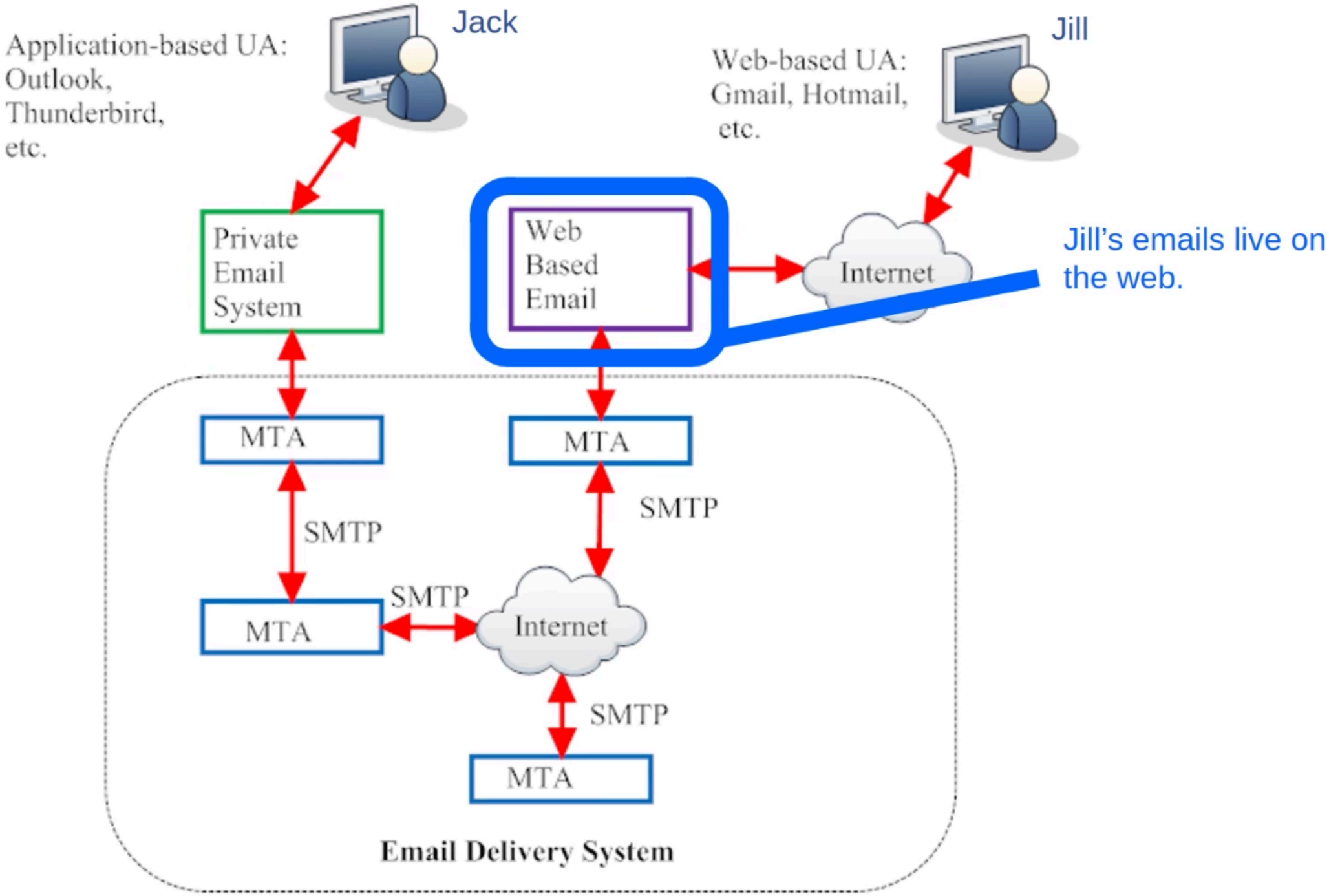
Emails are stored on Jack's private network.

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Jill's emails live on
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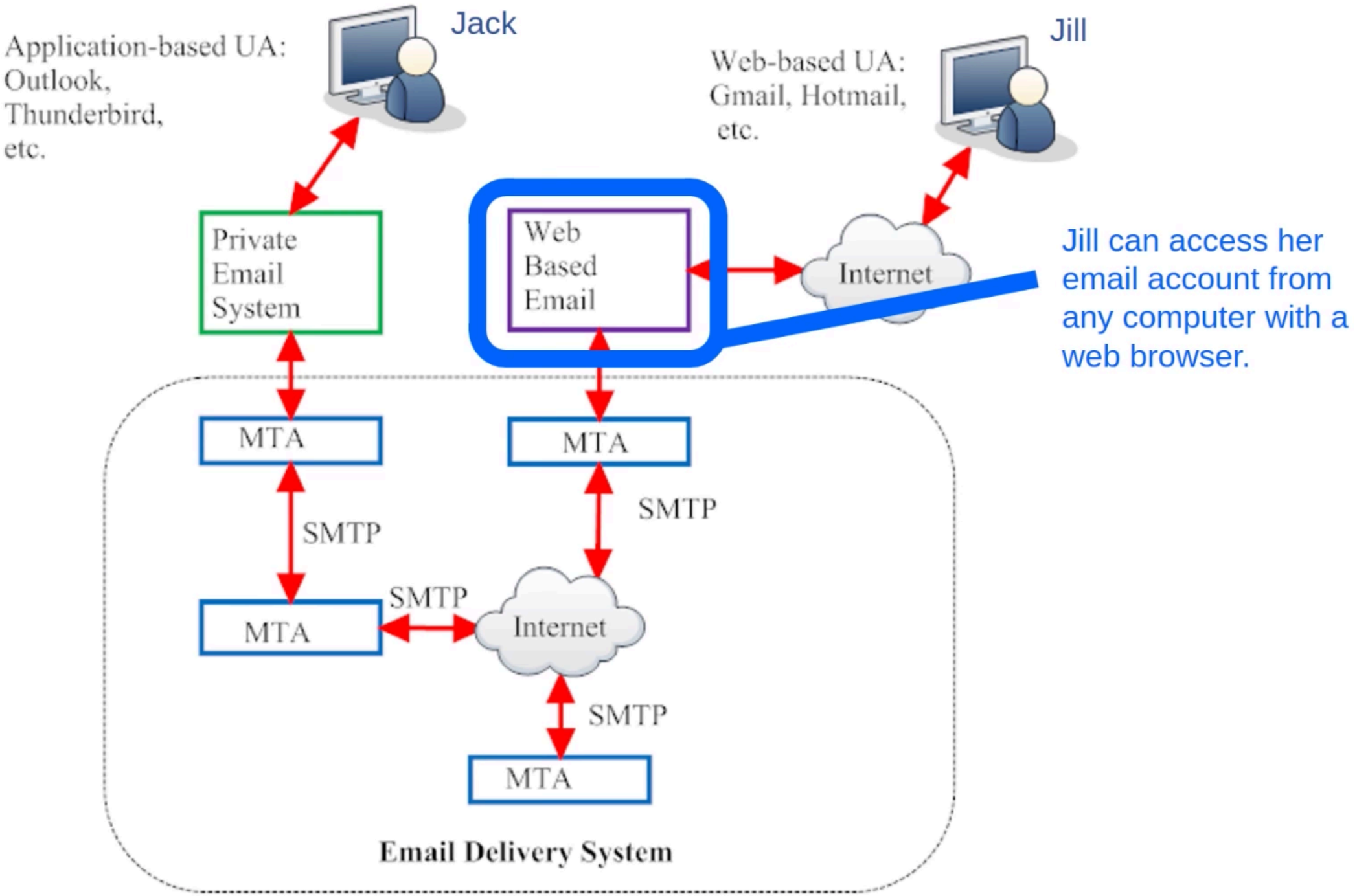
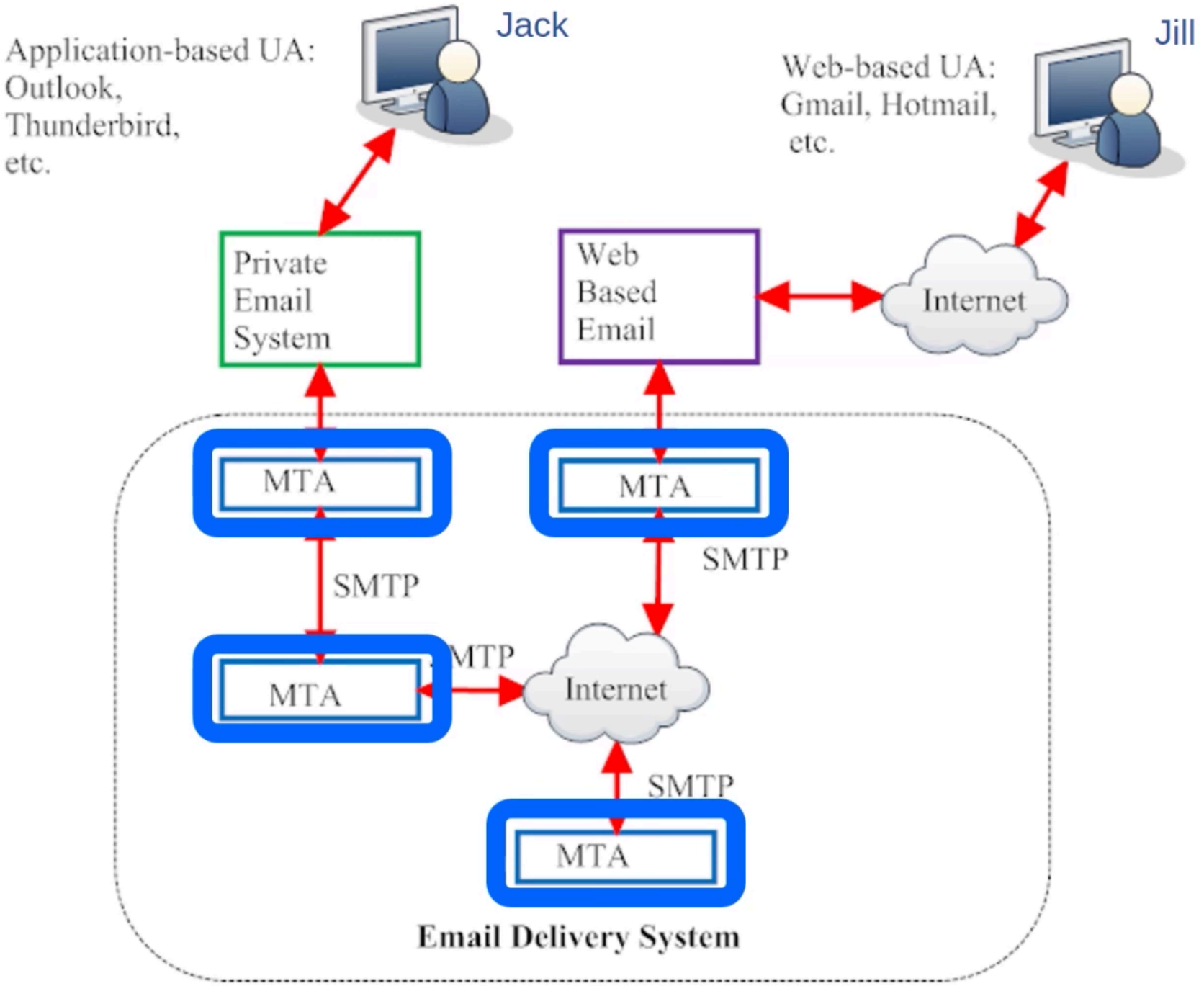
Ondertiteling

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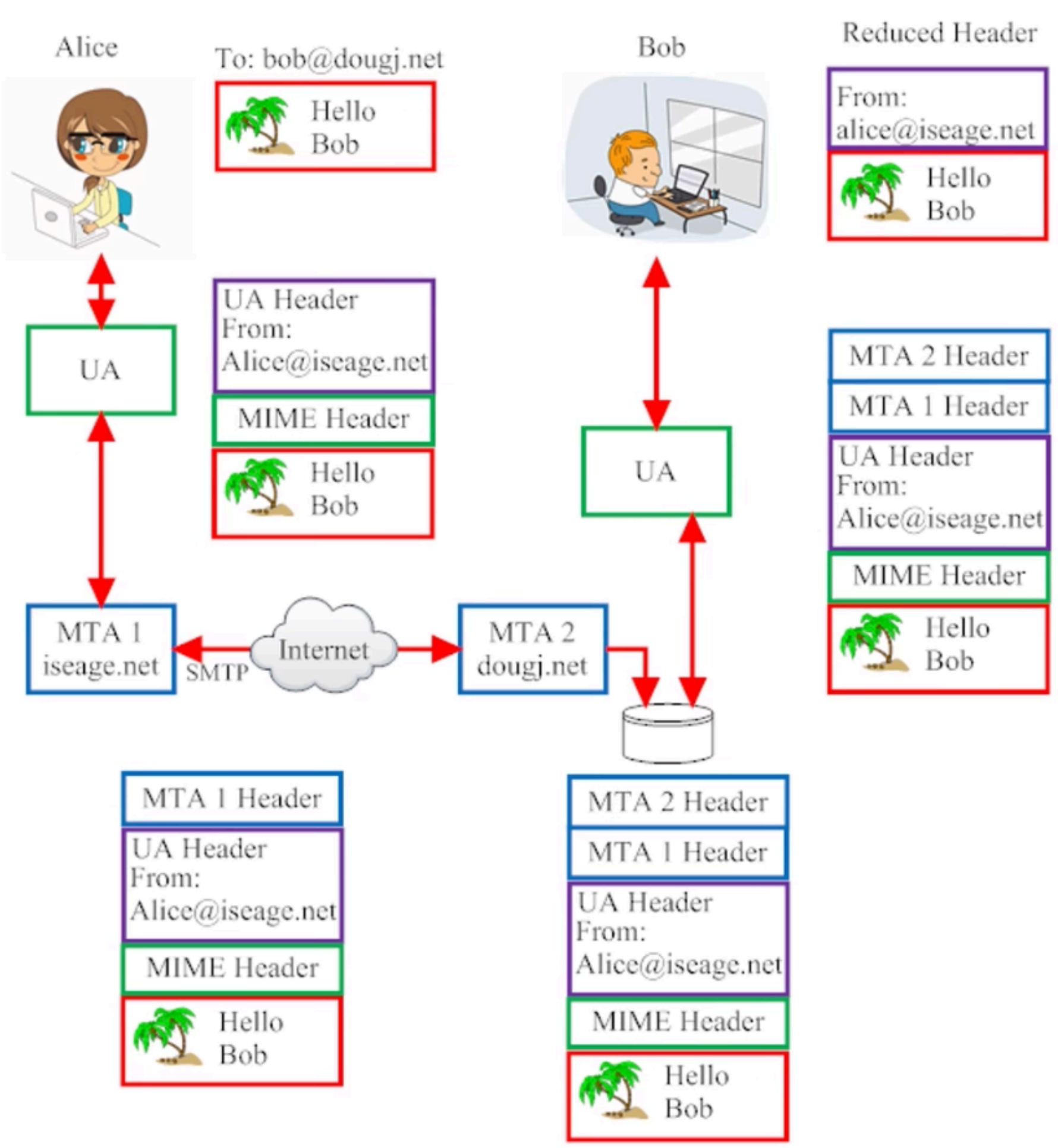
Alice
To: bob@dougj.net
Hello
Bob
Bob
Reduced Header
From:
alice@iseage.net
Hello
Bob
UA
UA Header
From:
Alice@iseage.net
MIME Header
Hello
Bob
UA
MTA 2 Header
MTA 1 Header
UA Header
From:
Alice@iseage.net
MIME Header
Hello
Bob
MTA 1
iseage.net
SMTP
Internet
MTA 2
dougj.net
MTA 1 Header
UA Header
From:
Alice@iseage.net
MIME Header
Hello
Bob
MTA 2 Header
MTA 1 Header
UA Header
From:
Alice@iseage.net
MIME Header
Hello
Bob

E-mail Headers

From: Media Temple user (mt.kb.user@gmail.com)
Subject: article: How to Trace a Email
Date: January 25, 2011 3:30:58 PM PDT
To: user@example.com
Return-Path: <mt.kb.user@gmail.com>
Envelope-To: user@example.com
Delivery-Date: Tue, 25 Jan 2011 15:31:01 -0700
Received: from po-out-1718.google.com ([72.14.252.155]:54907) by cl35.gs01.gridserver.com with esmtp (Exim 4.63) (envelope-from <mt.kb.user@gmail.com>) id 1KDoNH-0000f0-RL for user@example.com; Tue, 25 Jan 2011 15:31:01 -0700
Received: by po-out-1718.google.com with SMTP id y22so795146pof.4 for <user@example.com>; Tue, 25 Jan 2011 15:30:58 -0700 (PDT)
Received: by 10.141.116.17 with SMTP id t17mr3929916rvm.251.1214951458741; Tue, 25 Jan 2011 15:30:58 -0700 (PDT)
Received: by **10.140.188.3** with HTTP; Tue, 25 Jan 2011 15:30:58 -0700 (PDT)
Dkim-Signature: v=1; a=rsa-sha256; c=relaxed/relaxed; d=gmail.com; s=gamma; h=domainkey-signature:received:received:message-id:date:from:to :subject:mime-version:content-type; bh=+JqkmVt+sHDFIGX5jKp3oP18LQf10VQjAmZAKl1lspY=;
b=F87jySDZnMayyitVxLdHcQNL073DytKRyrRh84GNsI24IRNakn0oOfrC2luliNvdea LGTk3adIrzt+N96GyMseWz8T9xE6O/
sAI16db48q4Iqkd7uOiDvFsvS3CUQlNhybNw8m CH/o8eELTN0zbSbn5Trp0dkRYXhMX8FTAwrH0=
Domainkey-Signature: a=rsa-sha1; c=nofws; d=gmail.com; s=gamma; h=message-id:date:from:to:subject:mime-version:content-type;
b=wkbBj0M8NCUlboI6idKooejg0sL2ms7fDPe1tHUkR9Ht0qr5lAJX4q9PMVJeyjWalH
36n4qGLtC2euBJY070bVra8IBB9FeDEW9C35BC1vuPT5XyucCm0hulbE86+uiUTXCkaB
6ykquzQGCer7xPAcMJqVfXDkHo3H61HM9oCQM=
Message-Id: <c8f49cec0807011530k11196ad4p7cb4b9420f2ae752@mail.gmail.com>
Mime-Version: 1.0
Content-Type: multipart/alternative; boundary="----=_Part_3927_12044027.1214951458678"
X-Spam-Status: score=3.7 tests=DNS_FROM_RFC_POST, HTML_00_10, HTML_MESSAGE, HTML_SHORT_LENGTH version=3.1.7
X-Spam-Level: ***
Message Body: This is a KnowledgeBase article that provides information on how to find email headers and use the data to trace a email.

https://mediatemple.net/community/products/dv/204643950/understanding-an-email-header

From

- This displays who the message is from, however, this can be easily forged and can be the least reliable.

Subject

- This is what the sender placed as a topic of the email content.

Date

- This shows the date and time the email message was composed.

To

- This shows to whom the message was addressed, but may not contain the recipient's address.

Return-Path

- The email address for return mail. This is the same as "Reply-To:".

Envelope-To

- This header shows that this email was delivered to the mailbox of a subscriber whose email address is user@example.com.

Delivery Date

- This shows the date and time at which the email was received by your (mt) service or email client.

Received

- The received is the most important part of the email header and is usually the most reliable. They form a list of all the servers/computers through which the message traveled in order to reach you.The received lines are best read from bottom to top. That is, the first "Received:" line is your own system or mail server. The last "Received:" line is where the mail originated. Each mail system has their own style of "Received:" line. A "Received:" line typically identifies the machine that received the mail and the machine from which the mail was received.
  Dkim-Signature & Domainkey-Signature
- These are related to domain keys which are currently not supported by (mt) Media Temple services. You can learn more about these by visiting: http://en.wikipedia.org/wiki/DomainKeys.

Message-id

- A unique string assigned by the mail system when the message is first created. These can easily be forged.

Mime-Version

- Multipurpose Internet Mail Extensions (MIME) is an Internet standard that extends the format of email. Please see http://en.wikipedia.org/wiki/MIME for more details.

Content-Type

- Generally, this will tell you the format of the message, such as html or plaintext.

X-Spam-Status

- Displays a spam score created by your service or mail client.

X-Spam-Level

- Displays a spam score usually created by your service or mail client.

Message Body

- This is the actual content of the email itself, written by the sender.

Enkele begrippen

Spoofing: de headers aanpassen zodat het lijkt alsof de mail van iemand anders komt

MUA: Mail user agent (programma om mail binnen te halen bv Outlook, Thunderbird)

SMTP: Simple Mail Transfer Protocol. Protocol dat gebruikt onder de MTA's om met elkaar te communiceren.

MTA: Mail transfer agent: mail server. bv. Sendmail, Postfix, Exchange, Qmail

MDA: Mail delivery agent: programma dat de mails routeert. Meestal gekoppeld aan MTA.

MIME: Multipurpose Internet Mail Extensions. Is een internet standaard dat formaat van mail uitbreidt. (niet enkel tekst)

POP3: Post Office Protocol

IMAP: Interactive Mail Access Protocol

MX-Record: Een MX-record (Mail eXchange-record) is een gegevenstype in het Domain Name System (DNS). Het bevat de naam van de computer die e-mailverkeer voor het betreffende domein afhandelt.

Ontvangen en versturen

SMTP: mail versturen -> draait op poort 25 bv **smtp.telenet.be**, **smtp.gmail.com**

POP3: mail ontvangen -> draait op poort 110 , geen encryptie, mail wordt gedownload bv **pop3.telenet.be** **pop.gmail.com**

IMAP: mail ontvangen -> draait op poort 143 , mail blijft op de server, encryptie, minder performant bv **imap.telenet.be** **imap.gmail.com**

Exchange mail server

https://www.youtube.com/watch?v=jb98hlOaeL4

Qmail commands:

http://www.qmail.org/qmail-manual-html/man8/