**Program 6**

**Output of the POP packets** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Destination Hardware Address: 00:15:f2:7c:77:e0

Source MAC Address: 00:0d:65:d2:4a:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 10

Length of the packet: 60

Packet Id: 19918

TTL is 61

Protocol Number is 6

Packet Type: TCP

Source Port: 58531

Destination Port: 110

Sequence # : 2883731344418534963

ACK # : 2883731346788050841

Offset: 32792

Payload POP:

xRETR 1

The Source IP: 192.188.162.61

The Destination IP: 129.186.215.40

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Destination Hardware Address: 00:0d:65:d2:4a:e0

Source MAC Address: 00:15:f2:7c:77:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 0

Length of the packet: 68

Packet Id: 64464

TTL is 64

Protocol Number is 6

Packet Type: TCP

Source Port: 110

Destination Port: 58531

Sequence # : 2883731346788050841

ACK # : 2883731344418534971

Offset: 32792

Payload POP:

x+OK 532 octets

The Source IP: 129.186.215.40

The Destination IP: 192.188.162.61

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Destination Hardware Address: 00:15:f2:7c:77:e0

Source MAC Address: 00:0d:65:d2:4a:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 10

Length of the packet: 52

Packet Id: 22498

TTL is 61

Protocol Number is 6

Packet Type: TCP

Source Port: 58531

Destination Port: 110

Sequence # : 2883731344418534971

ACK # : 2883731346788050857

Offset: 32784

Payload POP:

x

The Source IP: 192.188.162.61

The Destination IP: 129.186.215.40

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Destination Hardware Address: 00:0d:65:d2:4a:e0

Source MAC Address: 00:15:f2:7c:77:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 0

Length of the packet: 585

Packet Id: 64465

TTL is 64

Protocol Number is 6

Packet Type: TCP

Source Port: 110

Destination Port: 58531

Sequence # : 2883731346788050857

ACK # : 2883731344418534971

Offset: 32792

Payload POP:

xReturn-Path: sguru@bones.ee.iastate.eduReceived: from

sguru.bones.ee.iastate.edu (bones.ee.iastate.edu [129.186.215.41])by

spock.ee.iastate.edu (8.13.4/8.13.4) with SMTP id mA6NgOhb048572for sguru; Mon, 3

Dec 2012 17:49:44 -0600 (CST)(envelope-from sguru@bones.ee.iastate.edu)Date:

Mon, 3 Dec 2012 17:42:24 -0600 (CST)From: sguru@bones.ee.iastate.eduMessage-

Id: <200811062349.mA6NgOhb048572@spock.ee.iastate.edu>To: undisclosedrecipients:;

X-UIDL: b987d93d271a3d6fbcfe7391eb9ba5d7Hi there".".

The Source IP: 129.186.215.40

The Destination IP: 192.188.162.61

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Destination Hardware Address: 00:15:f2:7c:77:e0

Source MAC Address: 00:0d:65:d2:4a:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 10

Length of the packet: 52

Packet Id: 59371

TTL is 61

Protocol Number is 6

Packet Type: TCP

Source Port: 58531

Destination Port: 110

Sequence # : 2883731344418534971

ACK # : 2883731346788051390

Offset: 32784

Payload POP:

x

The Source IP: 192.188.162.61

The Destination IP: 129.186.215.40

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227 packets received by filter

0 packets dropped by kernel

ARP packets: 0

IP packets: 185

Broadcast packets: 16

ICMP packets: 71

No of TCP packets: 114

No of DNS packets: 0

No of SMTP packets: 0

No of POP packets: 10

No of IMAP packets: 0

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**Output of the IMAP packets** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Destination Hardware Address: 00:15:f2:7c:77:e0

Source MAC Address: 00:0d:65:d2:4a:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 10

Length of the packet: 69

Packet Id: 53706

TTL is 61

Protocol Number is 6

Packet Type: TCP

Source Port: 58660

Destination Port: 143

Sequence # : 2883731346739807369

ACK # : 2883731348398086248

Offset: 32792

Payload IMAP:

y,?a001 CAPABILITY

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The Source IP: 192.188.162.61

The Destination IP: 129.186.215.40

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Destination Hardware Address: 00:0d:65:d2:4a:e0

Source MAC Address: 00:15:f2:7c:77:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 0

Length of the packet: 273

Packet Id: 1897

TTL is 64

Protocol Number is 6

Packet Type: TCP

Source Port: 143

Destination Port: 58660

Sequence # : 2883731348398086248

ACK # : 2883731346739807386

Offset: 32792

Payload IMAP:

,y\* CAPABILITY IMAP4REV1 LITERAL+ IDLE NAMESPACE MAILBOX-REFERRALS

BINARY UNSELECT SCAN SORT THREAD=REFERENCES

THREAD=ORDEREDSUBJECT MULTIAPPEND SASL-IR LOGIN-REFERRALS

STARTTLS LOGINDISABLEDa001 OK CAPABILITY completed

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The Source IP: 129.186.215.40

The Destination IP: 192.188.162.61

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Destination Hardware Address: 00:15:f2:7c:77:e0

Source MAC Address: 00:0d:65:d2:4a:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 10

Length of the packet: 52

Packet Id: 9355

TTL is 61

Protocol Number is 6

Packet Type: TCP

Source Port: 58660

Destination Port: 143

Sequence # : 2883731346739807386

ACK # : 2883731348398086469

Offset: 32784

Payload IMAP:

y,

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The Source IP: 192.188.162.61

The Destination IP: 129.186.215.40

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214 packets received by filter

0 packets dropped by kernel

ARP packets: 0

IP packets: 170

Broadcast packets: 16

ICMP packets: 70

No of TCP packets: 100

No of DNS packets: 0

No of SMTP packets: 0

No of POP packets: 0

No of IMAP packets: 3

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**Output of the SMTP packets:**

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Destination Hardware Address: 00:15:f2:7c:77:e0

Source MAC Address: 00:0d:65:d2:4a:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 10

Length of the packet: 58

Packet Id: 27644

TTL is 61

Protocol Number is 6

Packet Type: TCP

Source Port: 58510

Destination Port: 25

Sequence # : 2883731347683879014

ACK # : 2883731346322465022

Offset: 32792

Payload SMTP:

xHelo

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The Source IP: 192.188.162.61

The Destination IP: 129.186.215.40

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Destination Hardware Address: 00:0d:65:d2:4a:e0

Source MAC Address: 00:15:f2:7c:77:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 0

Length of the packet: 92

Packet Id: 62404

TTL is 64

Protocol Number is 6

Packet Type: TCP

Source Port: 25

Destination Port: 58510

Sequence # : 2883731346322465022

ACK # : 2883731347683879020

Offset: 32792

Payload SMTP:

:x501 5.0.0 Helo requires domain address

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The Source IP: 129.186.215.40

The Destination IP: 192.188.162.61

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Destination Hardware Address: 00:15:f2:7c:77:e0

Source MAC Address: 00:0d:65:d2:4a:e0

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 10

Length of the packet: 52

Packet Id: 32505

TTL is 61

Protocol Number is 6

Packet Type: TCP

Source Port: 58510

Destination Port: 25

Sequence # : 2883731347683879020

ACK # : 2883731346322465062

Offset: 32784

Payload SMTP:

x:

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The Source IP: 192.188.162.61

The Destination IP: 129.186.215.40

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Destination Hardware Address: 00:0d:65:d2:4a:e0

Source MAC Address: 00:08:74:f9:04:ab

The Header Length: 5

Packet Type: IP

IP version: 4

Header Length: 5

Type of Service: 0

Length of the packet: 48

Packet Id: 22632

TTL is 64

Protocol Number is 6

Packet Type: TCP

Source Port: 49215

Destination Port: 25

Sequence # : 2883731346314660162

ACK # : 2883731344221798400

Offset: 28674

Payload SMTP:

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The Source IP: 129.186.215.41

The Destination IP: 209.85.237.25

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287 packets received by filter

0 packets dropped by kernel

ARP packets: 0

IP packets: 246

Broadcast packets: 13

ICMP packets: 59

No of TCP packets: 155

No of DNS packets: 0

No of SMTP packets: 8

No of POP packets: 0

No of IMAP packets: 0

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