2B

SMTP

1.

To: 10 0.157277 192.168.1.100 128.196.40.4 SMTP 113 C: RCPT TO: <teacher@starfish.eller.arizona.edu>

From: 8 0.120825 192.168.1.100 128.196.40.4 SMTP 115 C: MAIL FROM: <student@starfish.eller.arizona.edu>

Date: Sat, 27 Nov 2010 18:00:52 -0700

Subject: Subject: Class information\r\n

Message ID Number: Message-ID: <00a801cb8e97$b41ebbb0$1c5c3310$@eller.arizona.edu>\r\n

2.

Actual Name: Pat Green

Birth Date: Feb 10, 1980

SSN: 123-44-3211

3. Some experts believe that sending an email message is like sending a postcard. Why? How secure is SMTP email? How could security be improved?

Sending an email is like sending a postcard because emails typically get sent around numerous networks before going to their destination/recipient resulting in anybody who comes across it able to read it, also making it not secure at all. SMTP typically sends emails in an unsecure manner such as it being unencrypted and has no form of actual authentication. It is possible to improve its security by encrypting the SMTP message before it is even sent so no one can see it, and then the receiver decrypting it. It is also possible to use authentication such as username/password to do so. It is possible to also secure the email message with TLS alone.

POP

1. Packets 5 through 11 are the log-in process. Can you read the user id and passwords? Why or why not?

Yes, I am able to read the user id’s and passwords.

On packet 8 I am able to see the username is ‘teacher’ demonstrated with image Packet8\_POP, also shown with the data here: 8 0.011188 128.196.239.91 128.196.40.4 POP 80 C: USER teacher

And the entered in password was ‘just4teacher’ demonstrated with image Packet10\_POP as well with the data here: 10 0.014757 128.196.239.91 128.196.40.4 POP 85 C: PASS just4teacher

This is because their login was not fully secure.

2.

User’s message: Packet 20

0040 7f 8f 0d 0a 0d 0a 4d 79 20 6e 61 6d 65 20 69 73 ......My name is

0050 20 50 61 74 20 47 72 65 65 6e 20 61 6e 64 20 49 Pat Green and I

0060 20 61 6d 20 61 20 73 74 75 64 65 6e 74 20 69 6e am a student in

0070 20 79 6f 75 72 20 4e 65 74 77 6f 72 6b 69 6e 67 your Networking

0080 20 63 6c 61 73 73 2e 20 0d 0a 0d 0a 20 0d 0a 0d class. .... ...

0090 0a 49 20 62 65 6c 69 65 76 65 20 74 68 65 72 65 .I believe there

00a0 20 69 73 20 61 6e 6f 74 68 65 72 20 50 61 74 20 is another Pat

00b0 47 72 65 65 6e 20 69 6e 20 74 68 65 20 63 6c 61 Green in the cla

00c0 73 73 20 61 6e 64 20 6d 69 67 68 74 20 68 61 76 ss and might hav

00d0 65 20 6d 69 73 74 61 6b 65 6e 6c 79 0d 0a 65 6e e mistakenly..en

00e0 74 65 72 65 64 20 68 69 73 2f 68 65 72 20 67 72 tered his/her gr

00f0 61 64 65 20 61 73 20 6d 79 20 67 72 61 64 65 2e ade as my grade.

0100 20 49 20 73 63 6f 72 65 64 20 39 35 2f 31 30 30 I scored 95/100

0110 20 6f 6e 20 74 68 65 20 65 78 61 6d 20 62 75 74 on the exam but

0120 20 6d 79 20 73 63 6f 72 65 0d 0a 73 68 6f 77 73 my score..shows

0130 20 74 6f 20 62 65 20 6f 6e 6c 79 20 36 35 2f 31 to be only 65/1

0140 30 30 2e 20 50 6c 65 61 73 65 20 63 68 65 63 6b 00. Please check

0150 20 6d 79 20 73 63 6f 72 65 2e 20 54 6f 20 68 65 my score. To he

0160 6c 70 20 79 6f 75 20 77 69 74 68 20 74 68 65 20 lp you with the

0170 70 72 6f 63 65 73 73 0d 0a 68 65 72 65 20 69 73 process..here is

0180 20 6d 79 20 53 53 4e 3a 20 31 32 33 2d 34 34 2d my SSN: 123-44-

0190 33 32 31 31 20 61 6e 64 20 6d 79 20 44 4f 42 3a 3211 and my DOB:

01a0 20 46 65 62 20 31 30 20 31 39 38 30 2e 20 50 6c Feb 10 1980. Pl

01b0 65 61 73 65 20 6b 65 65 70 20 74 68 69 73 0d 0a ease keep this..

01c0 69 6e 66 6f 72 6d 61 74 69 6f 6e 20 63 6f 6e 66 information conf

01d0 69 64 65 6e 74 69 61 6c 2e 20 0d 0a 0d 0a 20 0d idential. .... .

01e0 0a 0d 0a 54 68 61 6e 6b 20 79 6f 75 20 66 6f 72 ...Thank you for

01f0 20 79 6f 75 72 20 63 6f 6e 73 69 64 65 72 61 74 your considerat

0200 69 6f 6e 2e 0d 0a 0d 0a 20 0d 0a 0d 0a 42 65 73 ion..... ....Bes

0210 74 20 72 65 67 61 72 64 73 2c 0d 0a 0d 0a 20 0d t regards,.... .

0220 0a 0d 0a 50 61 74 20 47 72 65 65 6e 0d 0a 0d 0a ...Pat Green....

0230 20 0d 0a 0d 0a 20 0d 0a 0d 0a 20 0d 0a 0d 0a 0d .... .... .....

2

User’s actual name: Pat Green

Birth date: Feb 10th, 198 0

SSN: 123-44-3211

I pledge that on all academic work that I submit, I will neither give nor receive unauthorized aid, nor will I present another person's work as my own.

Dalton Murray