THE HUMAN FACTOR: THE WEAKEST LINK IN SECURITY

Understanding and mitigating risks associated with employee behavior



What is The Human Factor?

The Human factor is the physical, cognitive, and behavioral characteristics of humans that can affect how technology and humans interact. Some of those characteristics are:

- Fear
- Curiosity
- Urgency
- Admiration
- Loyalty

- Shame
- Guilt
- Ambition Greed
- Concern

Exploiting these human characteristics to convince people to do something, even something they know they aren't supposed to, is Social Engineering.

Threat Actors (the Bad Guys) use Social Engineering to get us to do what they want.

Next are some examples of Threat Actors using Social Engineering through email.

Understanding and mitigating risks associated with employee behavior

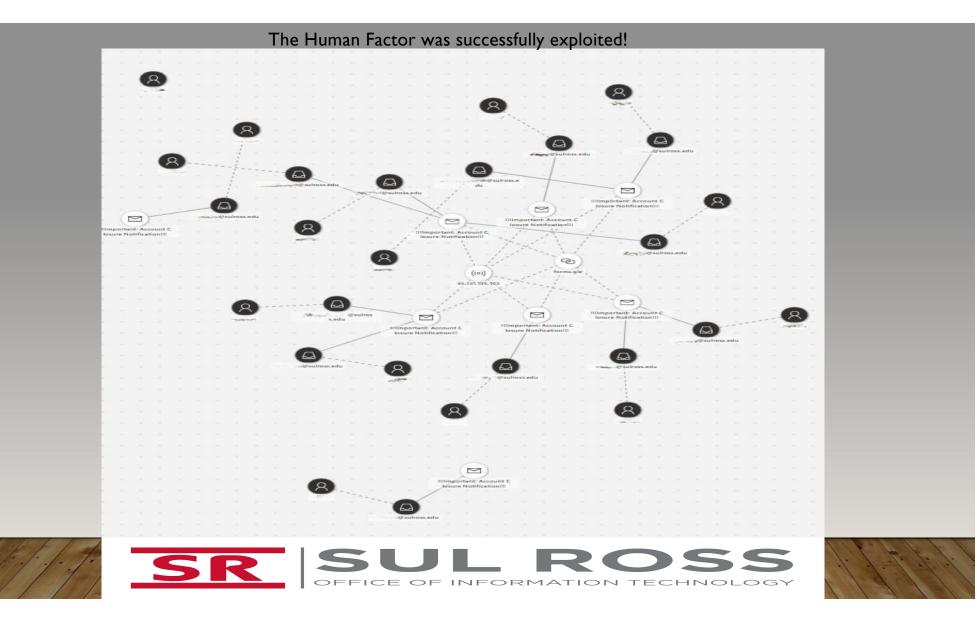




From: SharePoint Online <no-reply@sharepointonline.com> Sent: Thursday, December 12, 2024 9:01 AM</no-reply@sharepointonline.com>
Cc: Lane, Robert C <lane83@purdue.edu> Subject: Lane, Robert C shared "Document 12" with you</lane83@purdue.edu>
Attention: This message has originated from an External Source. Please use proper judgment and caution when opening attachments, clicking links, or responding to this e-mai
What happened as a result of this email?
of this email?
Lane, Robert C shared a file with you
FWD; Dr. Carlos Hernandez (President) shared a file with you
Document 12
(A) This link only works for the direct recipients of this message.
Open
This email is generated through purdue.edu's use of Microsoft 365 and may contain content that is controlled by purdue.edu.

- Do I need to open this file from the President? No.
- Threat Actors: use urgency, loyalty, and duty as a weapon to deceive and exploit the human factor.
- What is wrong with this image? Conflicting information and "Attention: External Source"





The Human Factor was successfully exploited!

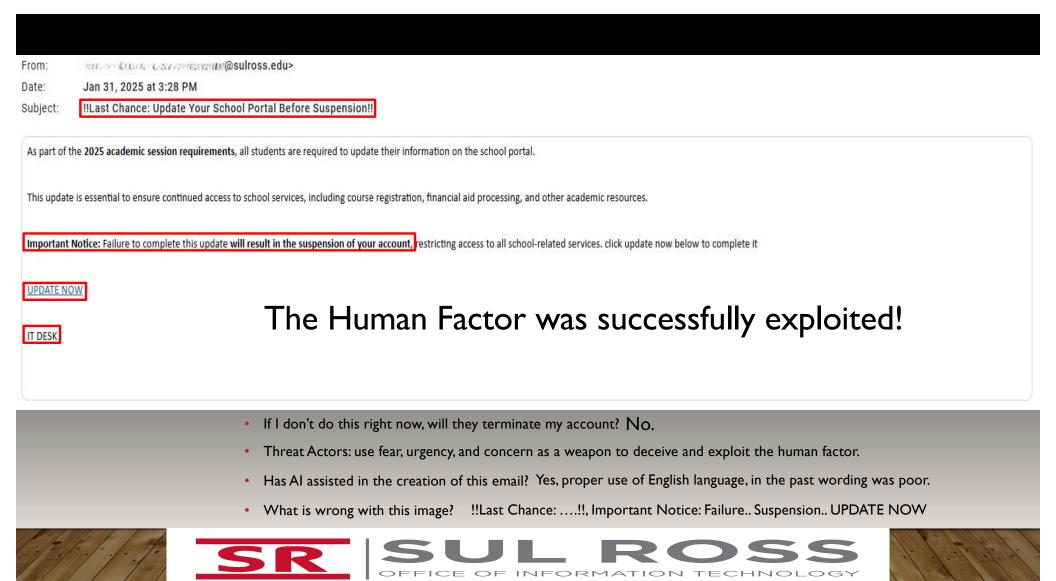
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Fri 1/24/2025 6:42 PM

Elizabeth.HR@engineer.com

Part-Time Customer Service Representative Job Opening – Flexible Hours & Competitive Pay

Dear Blan Grant Kip Thing,

I hope this message finds you well. I am reaching out to inform you of an exciting new job opening for the position of Part-Time Customer Service Representative. We would greatly appreciate it if you could share this opportunity with your students.

Job Title: Part-Time Customer Service Representative Location: Remote Pay: \$25.00 per hour / \$500 weekly Work Schedule: Flexible hours

This position offers the flexibility that many students may find ideal, with competitive compensation. Interested applicants can send their resumes to Elizabeth Huffington at <u>Elizabeth.HR@engineer.com</u>. We encourage your students to apply as soon as possible, as we are eager to find the right candidate to join our team.

Thank you for your support in spreading the word, and we look forward to reviewing your students' applications.

Best regards, Elizabeth Huffington HR Coordinator

The Human Factor was successfully exploited!

SCS Technologies LLC 3423 I-20 Frontage Rd, Big Spring, TX 79720

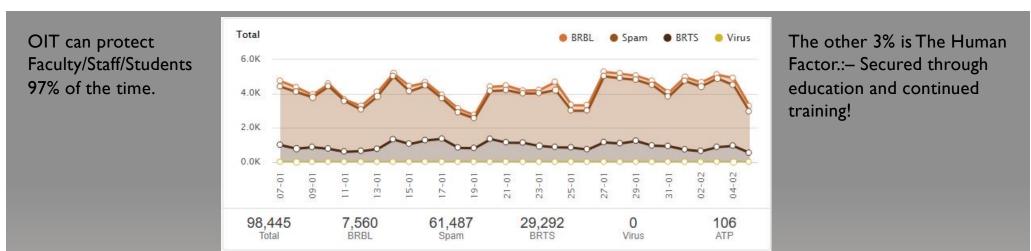
361-289-5273

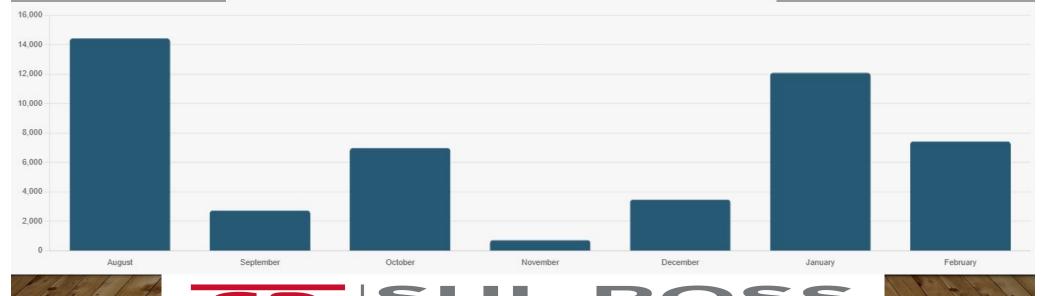
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"I can do all things through Christ who strengthens me." Philippians 4:13

- Oh wow \$25.00 per hour, Flexible hours. This could really help!
- Threat Actors: use loyalty, ambition, and curiosity as a weapon to deceive and exploit the human factor.
- Has Al assisted in the creation of this email? Yes, there was even a real website, and person to answer the phone.
- What is wrong with this image? The area code for Big Spring, Texas is 432, and there is an active link.







OFFICE OF INFORMA

TION

TECHNOLOGY

OIT would like each Faculty/Staff member to read each email until a threat is identified or suspected.

If a threat is suspected: email abuse@sulross.edu and attach the suspected email.

If a threat is confirmed: On the web browser version outlook.office.com right click email and report. Otherwise attach email and send to abuse@sulross.edu



SPECIAL NOTE: OIT helpdesk has moved from ACR 105 to ACR 107 We do accept walk-ins or Call 432-837-8888 or email: ltac@sulross.edu

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SECURING THE HUMAN

Created By: Paedric Rayburn & Sarah Sheffield -- OIT

