

Cyber Security

Chantal Cranny

Home Office Digital, Data and Technology

An overhead, top-down view of four people sitting around a round table in a study or office environment. They are all focused on their laptops. The scene is dimly lit, with a purple and blue color cast. Several backpacks are scattered on the floor around the table. The overall atmosphere is one of collaborative work and technology use.

Social Media and Social Engineering



Is this security?

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Social Engineering

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- Social engineering is the term used for a broad range of malicious activities accomplished through human interactions. It uses psychological manipulation to trick users into making security mistakes or giving away sensitive information.
- Social engineering attacks happen in one or more steps. A perpetrator first investigates the intended victim to gather necessary background information, such as potential points of entry and weak security protocols, needed to proceed with the attack. Then, the attacker moves to gain the victim's trust and provide stimuli for subsequent actions that break security practices, such as revealing sensitive information or granting access to critical resources.

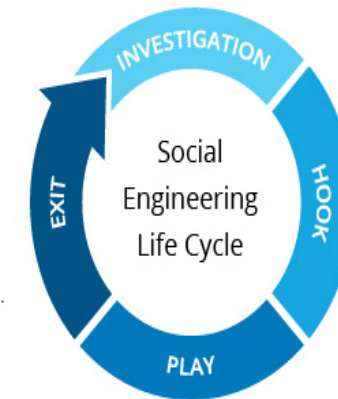


Preparing the ground for the attack:

- Identifying the victim(s).
- Gathering background information.
- Selecting attack method(s).

Closing the interaction, ideally without arousing suspicion:

- Removing all traces of malware.
- Covering tracks.
- Bringing the charade to a natural end.



Deceiving the victim(s) to gain a foothold:

- Engaging the target.
- Spinning a story.
- Taking control of the interaction.

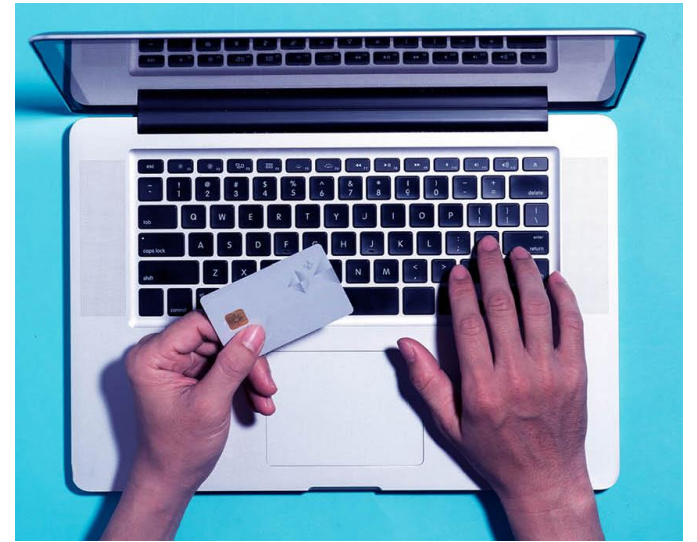
Obtaining the information over a period of time:

- Expanding foothold.
- Executing the attack.
- Disrupting business or/and siphoning data.

Social Engineering Attack Lifecycle

What makes social engineering especially dangerous is that it relies on human error, rather than vulnerabilities in software and operating systems. Mistakes made by legitimate users are much less predictable, making them harder to identify and thwart than a malware-based intrusion.

Who should you trust?

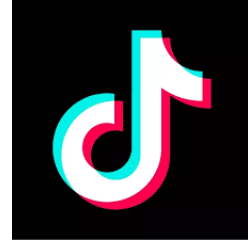


An overhead, top-down view of four people sitting around a circular table in a meeting. The image is monochromatic with a purple tint. The people are engaged in a group discussion, with some looking at laptops and others at each other. The table is cluttered with various items including laptops, smartphones, and bags. The background is a plain, light-colored wall.

Group Discussion

What do you post online?

- What types of Social Media do you use and what types of things do you post?
- What are the dangers of posting online and on Social Media?
- How do you think we can reduce the dangers of posting on Social Media?



An overhead, top-down view of four students sitting around a circular table in a classroom or library setting. They are all focused on their laptops. The student at the top left is a woman with her hair in a bun, wearing a patterned top. The student at the top right is a man in a light-colored t-shirt. The student at the bottom left is a man in a light-colored t-shirt. The student at the bottom right is a man in a light-colored t-shirt. The table is cluttered with laptops, backpacks, and other items. The background is a plain, light-colored wall. The entire image has a purple tint, and a dark purple horizontal band runs across the middle, containing the word 'Activity' in white text.

Activity

Activity

*Worksheets have been provided. Please refer to these to complete the activity

Use Jade's Social Media Profile to answer the questions on your worksheets and work out the password to her Online Banking App.

iSOCIAL

Posts
Media
Pages
Comments

Jade Sheriff
Followers 341 Following 477

About Me

Name: Jade Elizabeth Sheriff
Birthday: 16th May 1988
Home Town: Crosby, Liverpool
Father: Dave Sheriff
Mother: Janice Mitchell
Engaged to: Olivier Foster
Education: Leeds University
Interests: Running, Photography, Brooklyn 99 Tv Show
Occupation: Travel Journalist

My Messages

- Olivier Foster 19:40
"Hey, where you at? Going to the gym now"
- Denis Stanton 18:44
"Send your work to be sent to my email, pls."
- Alby Jones 17:52
"Going there now."
- Ray/Raymond HR (17) 13:30
"Andy: Mahahaha, ok."
- Lynn Baldwin Yesterday
"Do you remember what the project requires..."
- Ebony Sanderson Yesterday
"The with Lisa here"
- Cleo Mora Yesterday
"Are you still planning on the Island trip?"

Jade Sheriff in Sefton Park, Liverpool
Today 08:17
Park Run completed! I have done the park run every Saturday morning here for the past two years and am pleased to say that I achieved my fastest time yet!
#parkrun, #seftonpark, #SweatyBetty,
27 Likes 4 Comments

Jade Sheriff in Moose Coffee Shop, Liverpool
Yesterday 14:50
Working from my favourite coffee shop today
#Caffeinerush, #WFH, #Moose
18 Likes 1 Comment

Jade Sheriff is Feeling sad with Dave Sheriff and Janice Mitchell
17th December 17:37
Can't believe my first ever pet and trusty best friend Shadow is 10 today! 😞
42 Likes 7 Comments

Activity

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KEYBOARD1988

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An overhead, top-down view of four people sitting around a round table, working on laptops. The scene is dimly lit with a purple tint. The people are seen from behind, focused on their work. Several backpacks are placed on the floor around the table. The overall atmosphere is one of collaborative work and technology use.

Real world applications

How to defend yourself



Stay aware of your online surroundings

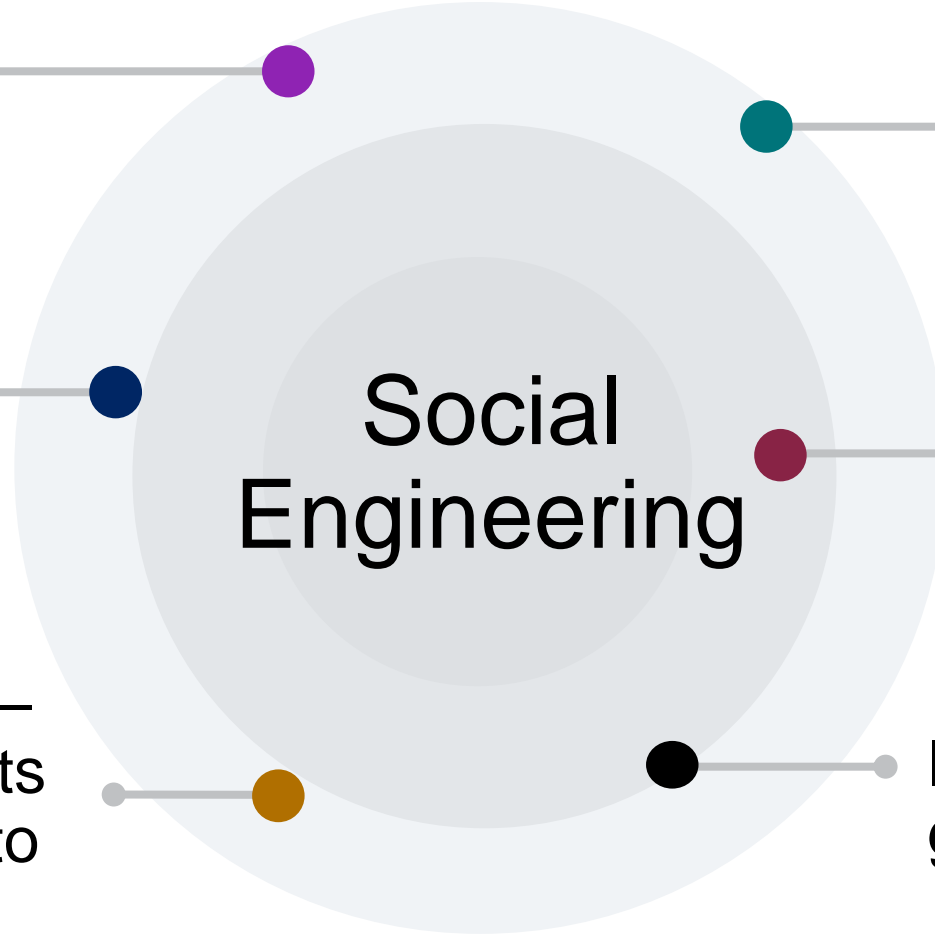
Think before you act

Keep your accounts and devices private

Don't accept friend requests of anyone you don't know

Don't constantly post your location – This may reveal lots about your habits to potential criminals

If an offer or deal seems too good to be true, it usually is!



Thank You

Home Office Digital, Data and Technology