

2.3.2 Social Engineering Overview Facts

Social engineering refers to an attacker enticing or manipulating people to perform tasks or relay information. Social engineering tries to get a person to do something the person wouldn't do under normal circumstances.

This lesson covers the following topics:

- Manipulation tactics
- Social engineering process

Manipulation Tactics

Social engineers are master manipulators. The following table describes some of the most popular tactics they use on targets.

Manipulation Type	Description
Moral obligation	An attacker uses moral obligation and a sense of responsibility to exploit the target's willingness to be helpful.
Innate human trust	Attackers often exploit a target's natural tendency to trust others. The attacker wears the right clothes, has the right demeanor, and speaks words and terms the target is familiar with so that the target will comply with requests out of trust.
Threatening	An attacker may try to intimidate a target with threats to make the target comply with a request. This is especially the case when moral obligation and innate human trust tactics are not effective.
Offering something for very little to nothing	Offering something for very little to nothing refers to an attacker promising huge rewards if the target is willing to do a very small favor. The small favor can include sharing what the target thinks is a very trivial piece of information for something the attacker offers.
Ignorance	Ignorance means the target is not educated in social engineering tactics and prevention, so the target doesn't recognize social engineering when it is happening. The attacker knows this and exploits the ignorance.

Social Engineering Process

The social engineering process can be divided into three main phases: research, development, and exploitation. The following table describes each phase.

Phase	Description
Research	In the research phase, the attacker gathers information about the target organization. Attackers use a process called <i>footprinting</i> , which takes advantage of all resources available to gain information. Footprinting includes going through the target organization's official websites and social media; performing dumpster diving; searching sources for employees' names, email addresses, and IDs; going through a tour of the organization; and other kinds of onsite observation.

	<p>Research may provide information for <i>pretexting</i>. Pretexting is using a fictitious scenario to persuade someone to perform an unauthorized action such as providing server names and login information. Pretexting usually requires the attacker to perform research to create a believable scenario. The more the attacker knows about the organization and the target, the more believable a scenario the attacker can come up with.</p>
Development	<p>The development phase involves two parts: selecting individual targets within the organization being attacked and forming a relationship with the selected targets. Usually, attackers select people who not only will have access to the desired information or object, but who also show signs of being frustrated, overconfident, arrogant, or somehow easy to extract information from. Once a target is selected, the attacker will start forming a relationship with the target through conversations, emails, shared interests, and so on. The relationship helps build the target's trust in the attacker, allowing the targets to be comfortable, relaxed, and more willing to help.</p>
Exploitation	<p>In the exploitation phase, the attacker takes advantage of the relationship with the target and uses the target to extract information, obtain access, or accomplish the attacker's purposes in some way. Some examples include disclosing password and username; introducing the attacker to other personnel, thus providing social credibility for the attacker; inserting a USB flash drive with a malicious payload into a organization's computer; opening an infected email attachment; and exposing trade secrets in a discussion.</p> <p>If the exploitation is successful, the only thing left to do is to wrap things up without raising suspicion. Most attackers tie up loose ends, such as erasing digital footprints and ensuring no items or information are left behind for the target to determine that an attack has taken place or identify the attacker. A well-planned and smooth exit strategy is the attacker's goal and final act in the exploitation phase.</p>

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