information from users by masquerading as a trusted entity in an e-mail or instant Influence campaigns involve the use of message sent to a large group of often collected information and selective random users. publication of material to key individuals in an attempt to alter perceptions and Smishing change people's minds on a topic. Smishing is an attack using Short Message One can engage in an influence campaign Service (SMS) on victims' cell against a single person, but the effect is phones. It is a version of phishing via SMS. limited. **Phishing Influence Campaigns** Vishing Influence campaigns are even more powerful when used in conjunction with Vishing is a variation of phishing that uses social media to spread influence through voice communication technology influencer propagation. to obtain the information the attacker is seeking. Vishing takes advantage of the trust that some people place in the Types telephone network. It involves the infecting of a target website with malware. Spear phishing is a term created to refer to a phishing attack that targets a specific These are not simple attacks, yet they can person or group of people with something **Watering Hole Attack** be very effective at delivering malware to in common. specific groups of end users. **Spear Phishing** Higher probability of success because a targeted attack will seem more plausible An attack form that involves capitalizing than a message sent to users randomly. upon common typographical errors. If an attacker has registered the mistyped It is bulk unsolicited e-mail. URL, then the user would land on the attacker's page. the purpose of spam is to get an unsuspecting user to click malicious There are several reasons that an attacker content or links, thus initiating the attack. will pursue this avenue of attack. The most **Typosquatting** obvious is one of a phishing attack. Spam Spam over Instant Messaging (SPIM) The fake site collects credentials, passing Basically spam delivered via an instant Phishing, smishing, vishing—these are them on to the real site, and then steps messaging application. attacks against users' cognitive state. out of the conversation to avoid detection Using the principles for effectiveness, one once the credentials are obtained. can craft a message that makes falling victim to these attacks more likely. A form of social engineering in which the attacker uses a narrative (the pretext) to Credential harvesting involves the The attack is a combination of technical influence the victim into giving up some collection of credential information, such elements and psychological pressure, and item of information as user IDs, passwords, and so on, enabling together they cause the user to take the an attacker a series of access passes to bait and click the link. An example would be calling up, posing as the system. **Pretexting** a fellow student from college, or a fellow admin to a senior executive. Exam Tips The objective of a credential harvest is **Credential Harvesting** just to obtain credentials. Phishing is now the most common form of The process of going through a target's social engineering attack related to trash in hopes of finding valuable Invoice scams use a fake invoice in an computer security. The target could be a **Techniques** information. attempt to get a company to pay for computer system and access to the things it has not ordered. information found on it (as is the case **Invoice Scamming** An organization should have when the phishing attempt asks for a user policies about discarding materials. ID and password), or it could be personal information, generally financial, about **Dumpster Diving** Sensitive information should be shredded individual (in the case of phishing The use of fake credentials to achieve an attempts that ask for an individual's and the organization should consider banking information). securing the trash receptacle so that individuals can't forage through it. Physically as in pretending to be a delivery agent, show up with a box— or better yet, a server—and attempt direct delivery to High-value targets are referred to as the server room. Can be done physically or online whales. Works best when the victim is expecting **Identity Fraud** A whaling attack is thus one where the the person Whaling target is a high-value person, such as a CEO or CFO. Defense against identity fraud is the same as most other social engineering attacks: use strong policies and procedures without exceptions. The attacker directly observes the individual entering sensitive information on a form, keypad, or keyboard. Prepending is the act of supplying The attacker may simply look over the information that another will act upon, shoulder of the user at work, for example, **Shoulder Surfing** frequently before they ask for it, in an or may set up a camera or use binoculars attempt to legitimize the actual request, to view the user entering sensitive data. which comes later. Example: stating that they were sent by the target's boss, or another authority Prepending Misdirecting users to fake websites made figure, as a means to justify why the target to look official. should perform a specific action Once at the fake site, the user might **Pharming** supply personal information, believing that they are connected to the legitimate site. Calls to or from help desk and tech support units can be used to elicit information. The simple tactic of following closely Posing as an employee, an attacker can behind a person who has just used their get a password reset, information about own access card or PIN to gain physical some system, or other useful information. access to a room or building. The call can go the other direction as well, An attacker can thus gain access to the **Eliciting Information Tailgating (Piggybacking)** where the social engineer is posing as the facility without having to know the access help desk or tech support person. Then, by code or having to acquire an access card. calling employees, the attacker can get information on system status and other interesting elements that they can use

later.

A type of social engineering in which an attacker attempts to obtain sensitive