

Introduction to IA – Class Notes

Impersonation

questions

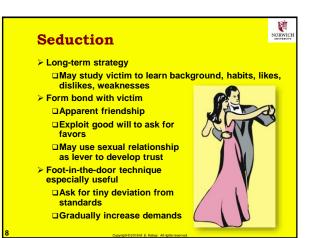
(BAD)

- > Criminals wear uniforms, badges, use right terms
- > Adopt confident air of entitlement
- Pretending to be HelpDesk employees Employees conditioned to cooperate
 - Technical knowledge reduces □Some HelpDesks violate standards by habitually asking for passwords

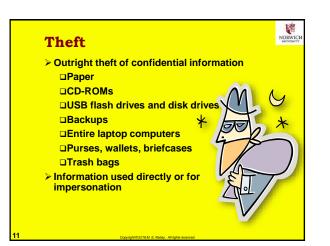


NORWIC

- HelpDesk employees can be victims
 - □Criminals pretend to be employees Often assume identity of high-ranking executives □Sometimes bully HelpDesk staff into violating standard operating procedures

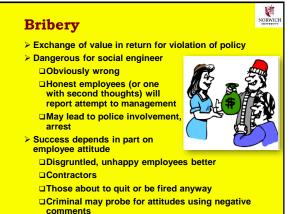


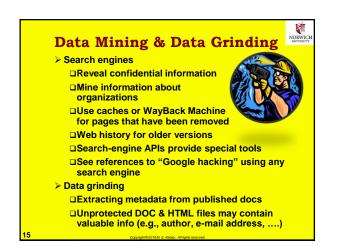




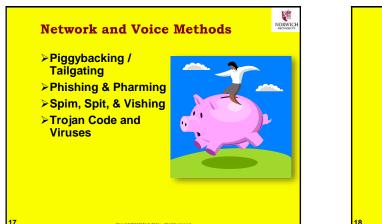




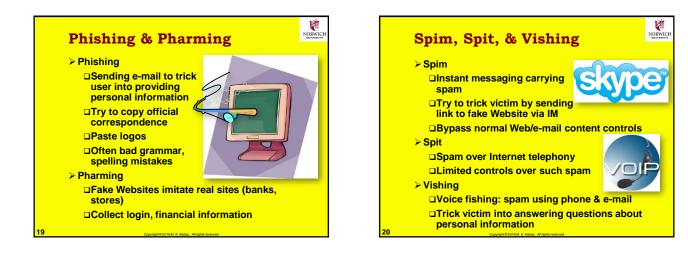


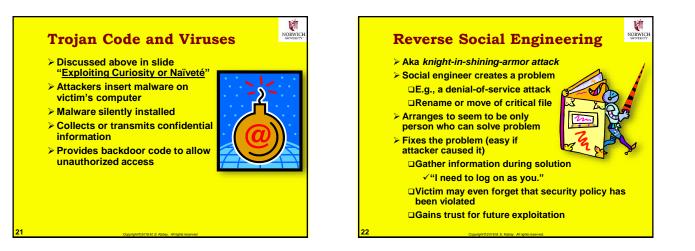
















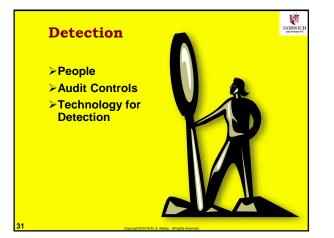
Social Psychology NORWIC **Social Engineer Profile** Schema is picture of reality > Not as in movies: may be Defines normal ways of making □Outaoina judgements and decisions □Confident > Many cognitive errors □Well educated □Fundamental attribution error: assuming that **Blend into environment** behavior indicates stable, internal attributes (clothing, style, speech) ✓ Therefore a pleasant, friendly social engineer □Good actor cannot possibly be a criminal Quick reactions to changing □Salience: people notice outliers circumstances ✓ So social engineers try to blend in > Dark side □Conformity, compliance & obedience **Exploits relationships** Especially bad stereotypes ✓ Social engineers exert (false) authority Little or no empathy for victims (instrumental) There's an entire lecture on social psychology and security □Increasingly, they are involved in criminal gangs in IS342 with a chapter in CSH6.

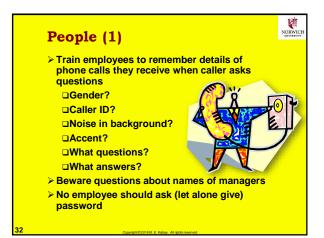


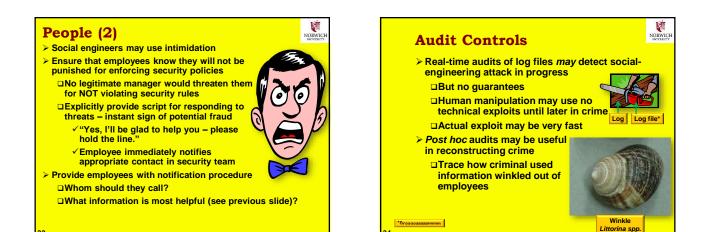




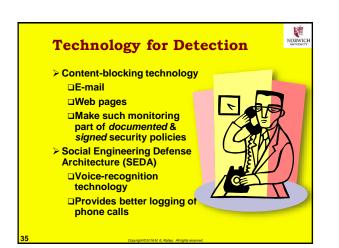




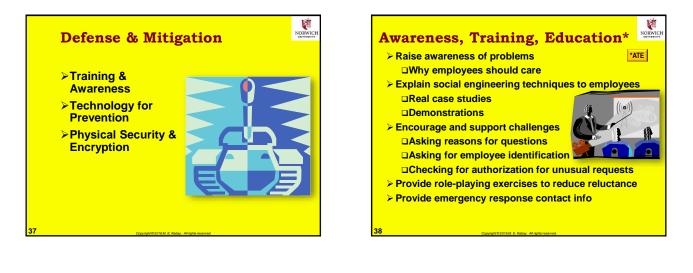




6





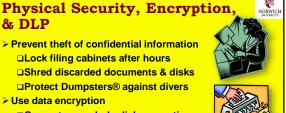


に

NORWIC

Technology for Prevention

- Effective antimalware tools Block viruses, Trojans
 - □Block dangerous Web sites
 - □Block dangerous phishing spam □Block popups, ActiveX controls
 - □Restrict types of cookies
 - Use digital certificates to authenticate internal e-mail
- Control over software installation
- Cleanse documents of hidden metadata
- Check Web for unauthorized posting of confidential documents or information



- □Computers whole-disk encryption
 □Peripherals such as USB drives
 □Virtual private networks (VPNs) for remote access
- Data-loss prevention (DLP) Prevent unauthorized devices from connecting to organization's networks

