

Class Activity - Top Hacker Shows Us How It is Done

Objectives

Understand vulnerabilities of wireless and other common technologies

Part 1: View the TEDx Video "Top Hacker Shows Us How It's Done; Pablos Holman at TEDxMidwests"

Part 2: Answer the following questions

Background / Scenario

Nearly every "secure" system that is used today can be vulnerable to some type of cyberattack.

Required Resources

PC or mobile device with internet access

Instructions

Part 1: View the TEDx Video "Top Hacker Shows Us How It's Done; Pablos Holman at TEDxMidwests"

- a. Locate the video on the internet and watch it.
- b. Choose one of the hacks discussed by Mr. Holman in the video and use your favorite search engine to conduct some additional research on the hack.
- c. For the hack chosen in Step 1b, answer the questions below. Be prepared to share your work in a full class discussion.

Part 2: Answer the following questions.

a. What is the vulnerability being exploited?

The vulnerability being exploited is <u>credit cards</u>.

- b. What information, data, or control can be gained by a hacker exploiting this vulnerability?
 - Name

-Credit card expiration date

- Credit card number
- c. How is the hack performed?

The hack was executed by establishing direct contact between a credit card and a reader, exploiting the card's RFID tags.

d. What about this particular hack interested you specifically?

What caught my attention the most in this hack was how vulnerable credit cards were.

e. How do you think this particular hack could be mitigated?

Encrypting the information stored in the RFID tags and implementing stronger authentication protocols.