Sun City Computer Club

Cyber Topics for Safer Holiday Shopping

Recent and evolving changes in cyber landscape require better practices for holiday shopping
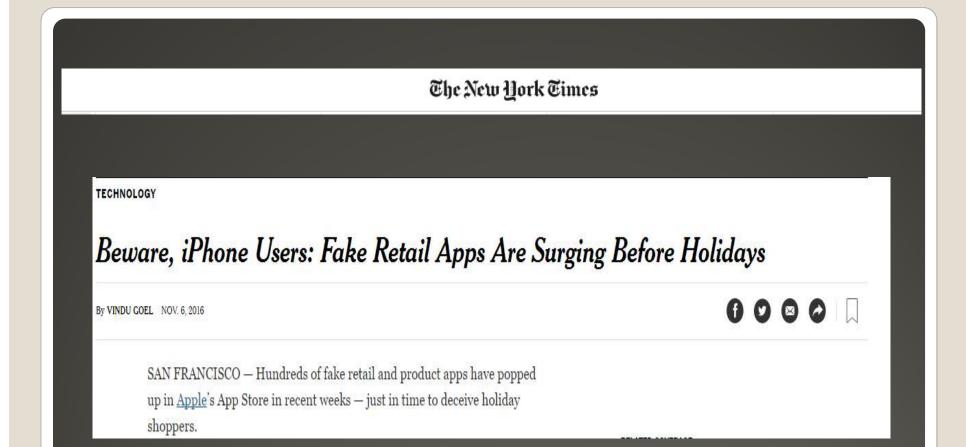
Overview

- Safer not Safe
- E-postcard not e-mail
- Passphrases not passwords
- Radio not wireless

Vocabulary

- Strong Passphrase(s)
- Multiple Passphrases
- Secret Passphrases
- Lie on security questions
- Multi-factor Authentication
- Separate Administrator account
- Security Suites
- Paranoia
- Wireless

Common Advice

The New York Times

TECHNOLOGY

Beware, iPhone Users: Fake Retail Apps Are Surging Before Holidays

By VINDU GOEL   NOV. 6, 2016

SAN FRANCISCO — Hundreds of fake retail and product apps have popped up in Apple's App Store in recent weeks — just in time to deceive holiday shoppers.

Recent News

- Near exponential growth as a threat
- MANY vectors for exploit
- Digital Currency
- 3-2-1 backup
- Avoid Lures

Ransomware

- Internet of Things
      Cameras, DVR,
- Distributed Denial of Service
- Recent use   Censorship
- Future use   Catastrophe - Internal?
- Secure your IoT devices

- Forensic Assessment Computer Equipment and Test

IoT DDOS

Skimmer

Hacker's Demo Shows How Easily Credit Cards Can Be Read Through Clothes And Wallets

Andy Greenberg, FORBES STAFF ✔

Covering the worlds of data security, privacy and hacker culture. **FULL BIO** ⌄

Will you be a victim of digital pickpockets? Hacker reveals how easy it is to steal credit card numbers in seconds while you still have them in your hand

- Criminals use RFID and NFC wireless communication to steal numbers
- The readers can be brought online or downloaded to phone via an app
- They have to stand six inches away while a transaction is being made
- Within a matter of seconds, the technology can pick up and store data
- A $300 machine can then replicate the card so it can be used elsewhere
- It is estimated 70% cards will soon be vulnerable to digital pick pocketing
- Cards can be protected from RFID skimmers by being wrapped in tin foil

- Embossed
- Magnetic stripe
- Chip
- NFC

- Software attacks   Target
- Hardware attacks

POS Terminals

EVM & NFC POS Terminals

- Steganography
- Goose bridles

Server side WEB exploit

- Assume you and everyone else has been hacked
- The safer you are, the safer we all are
- Don't stop your current protection methods
- Be aware
- Links - Think, Hover, Research
- E-postcard readers in plain text mode
- Browser Add-ons
- If you do everything possible …

Summary

- Become informed
- Be more vigilant
- Non-Admin
- 3-2-1 backup
- Defense in depth
- NAT firewall
- Patch
- Security suites
- UAC, EMET
- Be suspicious
- Security tune browsers
- Information gives no indication of being stolen

- Monitor

- Safer Holiday Shopping

Questions