Cybersecurity Awareness Month





60me jerk unlocked my door, turned my TV on

OCTOBER 2016 WEEK 4

The Internet of Things

Each year, manufacturers think up new ways to connect mundane, physical objects to the digital world. From toys to thermostats, toasters to TVs, and even toothbrushes to toilets, we're connecting, monitoring, and managing everday tasks online.

The Internet of Things (IoT) is a growing phenomenon forcing major changes in the way we operate in our daily lives. With our expanding footprint of interconnectivity comes an expanding surface area of vulnerabilities for hackers to exploit. Why would a hacker exploit your toothbrush, and why should you care?

Halloween Cyber Tricks?

Hacking IoT devices like toothbrushes or coffee makers may seem like a benign prank, but these vulnerabilities can put your and your loved ones' personal information and safety at risk!

- IoT devices have been hijacked in order to send spam or host illicit pornography.
- Personal information has been compromised by IoT devices like: the Samsung smart fridge that exposed email credentials; climatecontrol systems that resulted in the 2013 Target credit card breach; and even barbie dolls that were connected to smart phones.
- Hackers have demonstrated the deadly potential to take over IoT products like: automobile engine and break systems; medical devices like Wi-Fi enabled pacemakers and druginfusion pumps; and Wi-Fi enabled sniper rifles.
- Information about daily lives gained from Internet connected thermostats and door locks can provide burglars valuable information about your habits.





My goodness, Sally! What's wrong???





NCSAM Tips of the Week!

- Consider first whether your toothbrush or toaster needs to be "smart." If it does, make sure to purchase the ones with built-in security, and let the other companies know why you won't buy their unsecured products.
- Change the default passwords and give each device a unique password. Look for encryption options, enable security features, and apply patches or "firmware" updates when recommended.
- Never connect IoT devices at work without IT approval, and limit the number of devices that connect to the Internet
 at home. Software is available to enable a group of smart devices within the home (like light bulbs and door locks) to
 communicate with each other rather than the Internet.