

Intrusion detection system: a system that monitors devices and keeps an eye out for malicious activity. If any suspicious activity is detected on any of the devices, it will notify someone who can respond appropriately.

Internet of Things (IoT): any device connected to the Internet that communicates data with other devices.

Smart homes are one of many examples of IoT.

Your smart home may include:

- air conditioning
- lights
- thermostats
- televisions
- doorbells
- security cameras
- stoves
- refrigerators

All of these smart home devices are connected to your phone and you can control all of them remotely. You can change the temperature on your thermostat, look out of your doorbell camera, turn the air conditioner on or off, and dim the lights ALL FROM YOUR PHONE. Isn't that so cool and convenient?!

BUT IoT devices can have bugs. Attackers can find these bugs, exploit the vulnerabilities, and gain unauthorized access to any of your IoT devices. For example, someone can spy on you through any of your house cameras, change the temperature in your house, make your lights turn on and off, and much more. Attacks like these are merely the tip of the iceberg of cyber attacks that unfold on a daily basis - attacks come in countless more forms and have humongous negative impacts on our lives. This is very real and pressing stuff that happens to thousands of people and businesses every day.

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While technology brings profit, efficiency, and convenience to people, businesses, nations, and the world, it also subjects them to the dangers of digital attacks. These attacks have resulted in huge financial losses, the compromise of millions of people's personal information, and significant real-world consequences. It is CRITICAL to ensure there are proper security measures in place to prevent these attacks from happening. Cybersecurity is not just a choice; it's a necessity in our technology-driven modern world.