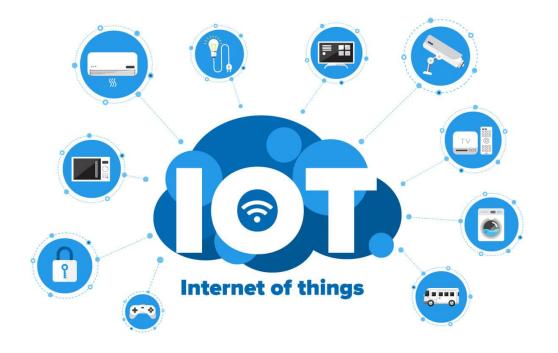
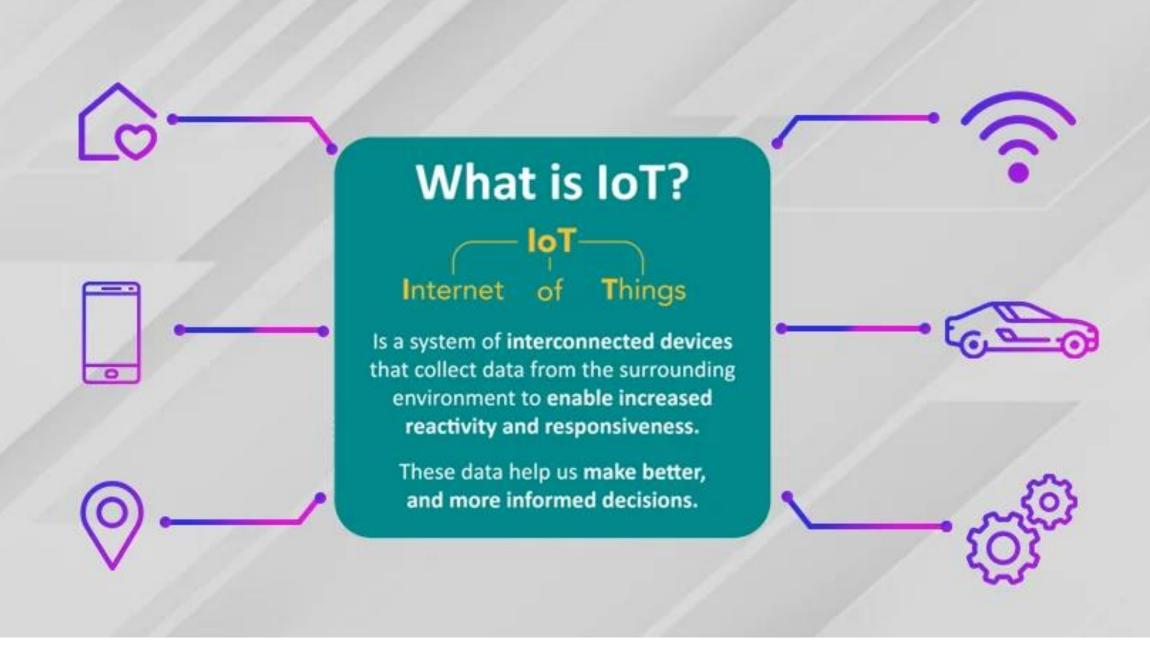


WHATISIOT

IoT is a network of physical objects that are embedded with sensors, software, and network connectivity to enable them to collect and exchange data.





THE INTERNET OF EVERYTHING

I TOLD YOU TO PICK UP MILK ON THE WAY HOME. DON'T YOU LISTEN TO ANYTHING I SAY?!!





"Bad news - the scale is threatening to cut off our access to the fridge..."

SECURING THE INTERNET OF THINGS

• The Internet of Things (IoT) is a rapidly growing network of physical objects that are embedded with sensors, software, and network connectivity to enable them to collect and exchange data. This data can be used to improve efficiency, automate tasks, and make better decisions.

• However, the IoT also has some security challenges. These challenges need to be addressed in order to ensure the security of IoT devices and data.

THE MIRAI

The Mirai botnet: In 2016, a group of hackers created a botnet called Mirai that infected millions of IoT devices, such as security cameras and DVRs. The botnet was then used to launch a series of DDoS attacks against major websites, including Twitter, GitHub, and Netflix. The Mirai attack showed how vulnerable IoT devices can be to cyberattacks.

THE PERSON BEHIND MIRAI: PARAS JHA



RUTGERS UNIVERSITY



DIFFERENCE BETWEEN SECURITY AND SAFETY

Security is about protecting from intentional harm, while safety is about preventing accidents.

SAFETY

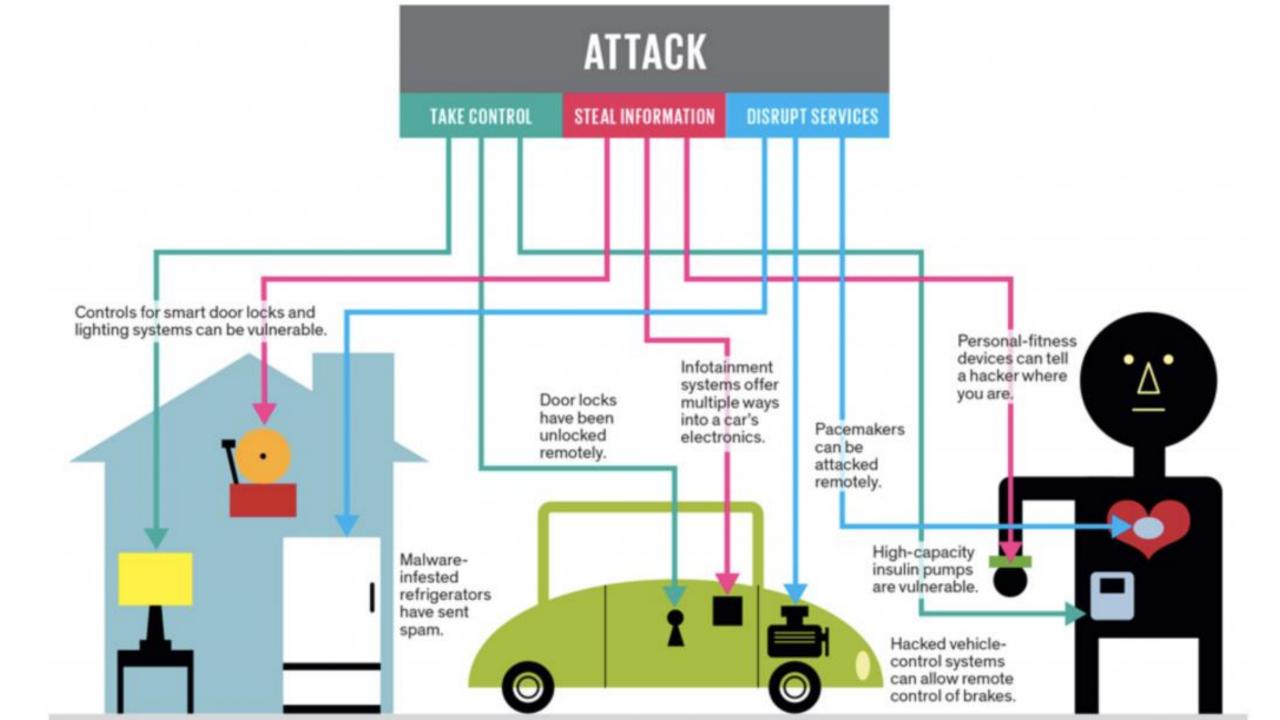
GOALS:

- Prevent accidents and incidents
- Improve work conditions
- Reduce impact on health

SECURITY

GOALS:

- Prevent misuse
- Prevent terrorism
- Protect equipment



"Securing the Internet of Things" refers to the process of implementing measures and strategies to protect IoT devices, networks, and data from potential threats, vulnerabilities, and unauthorized access.

IOT Device Security

