Cyber Security

- What ?
- Why ?
- How ?

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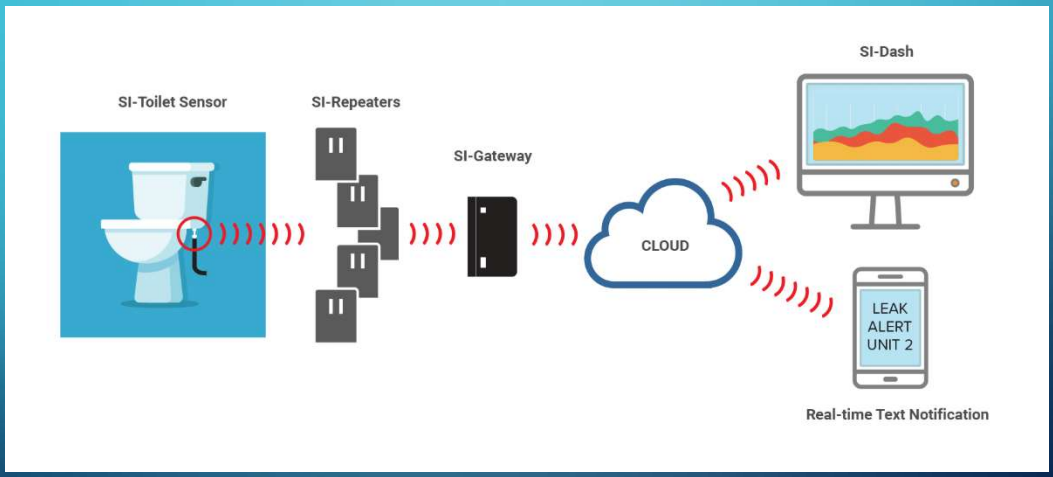


What is Cyber Security ?

Not a simple definition, just a complex combination of resources to protect and secure your cyber assets and critical data

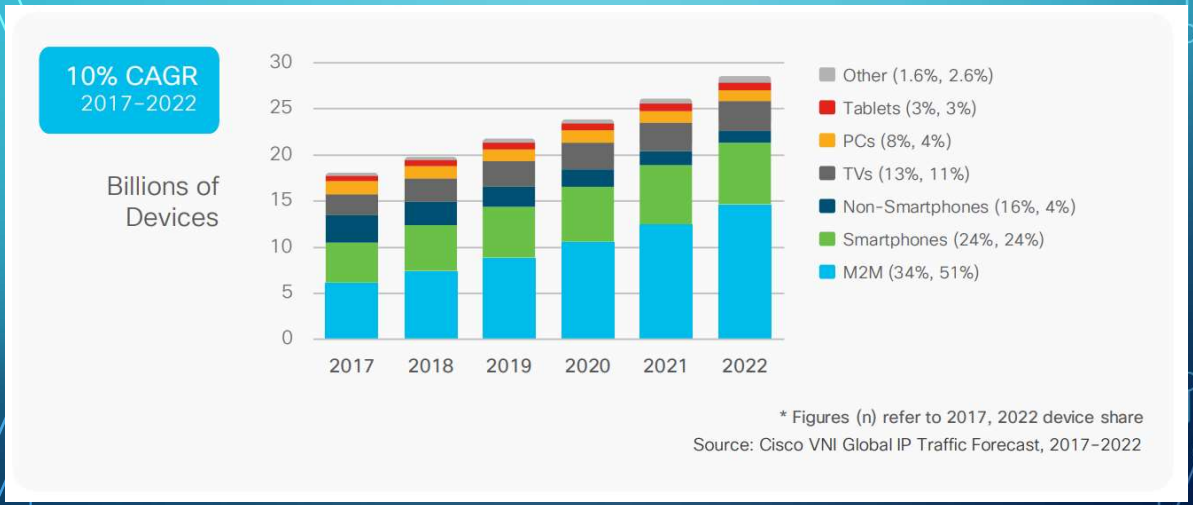
- Connected world
- 4+ billion Internet users
- 2+ billion websites
- 22+ billion connected devices
  (even toilets !!)

Not a joke, it is a real thing !



https://www.sensorindustries.com/toilet-sensor/

How many devices ?



Why we need Cyber Security ?

- 51.8% Internet traffic comes from bots
- 90,000+ websites are hacked every day
- Average data breach cost $3.68 million
- Cyber crime 2019 estimate cost $2 trillion (four-fold increase from 2015)
- Cyber crime industry hit $1.5 trillion in profits in 2018
- Bad actors are constantly innovating

How we ?

Prevent

Detect

Respond

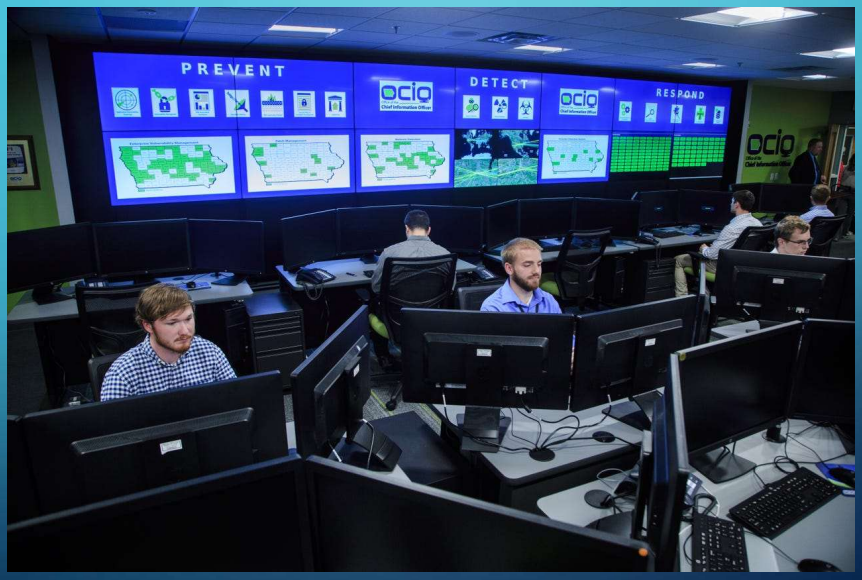


Hmmmm… Not really ☺

Security Operations Center (SOC)



IOWA SOC



Large Scale SOC

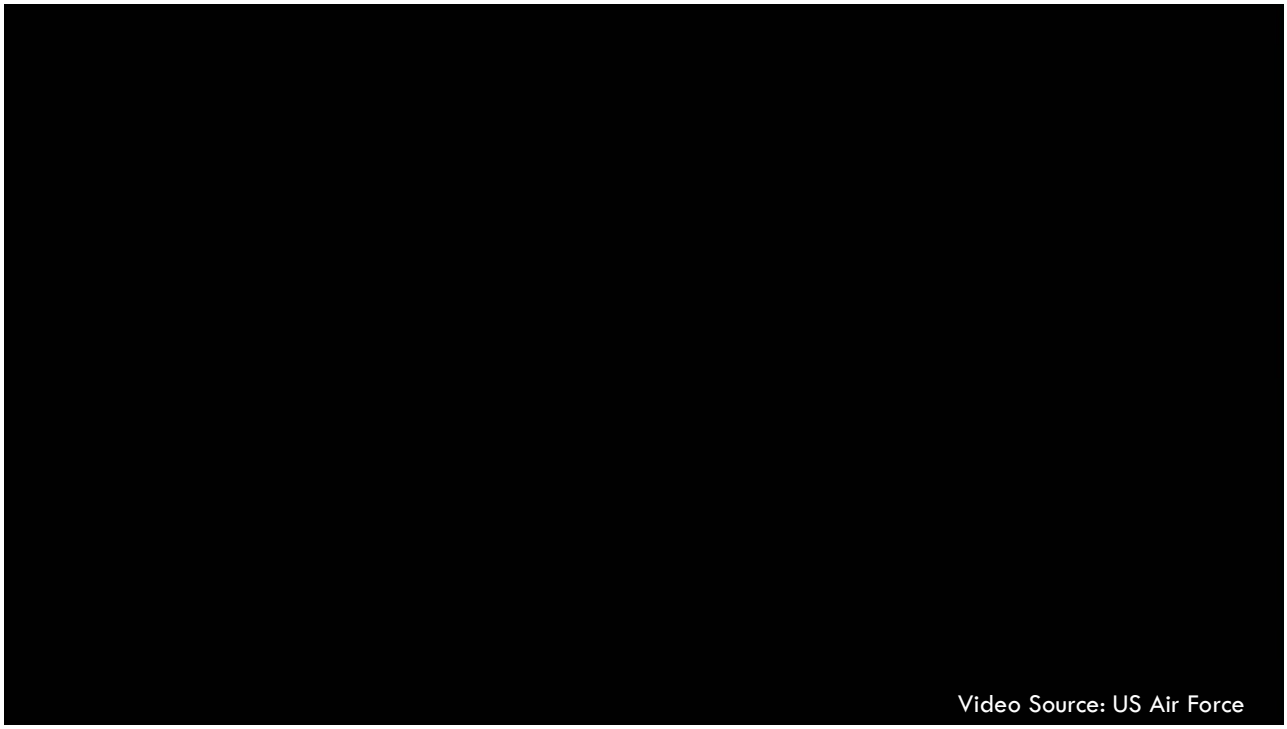


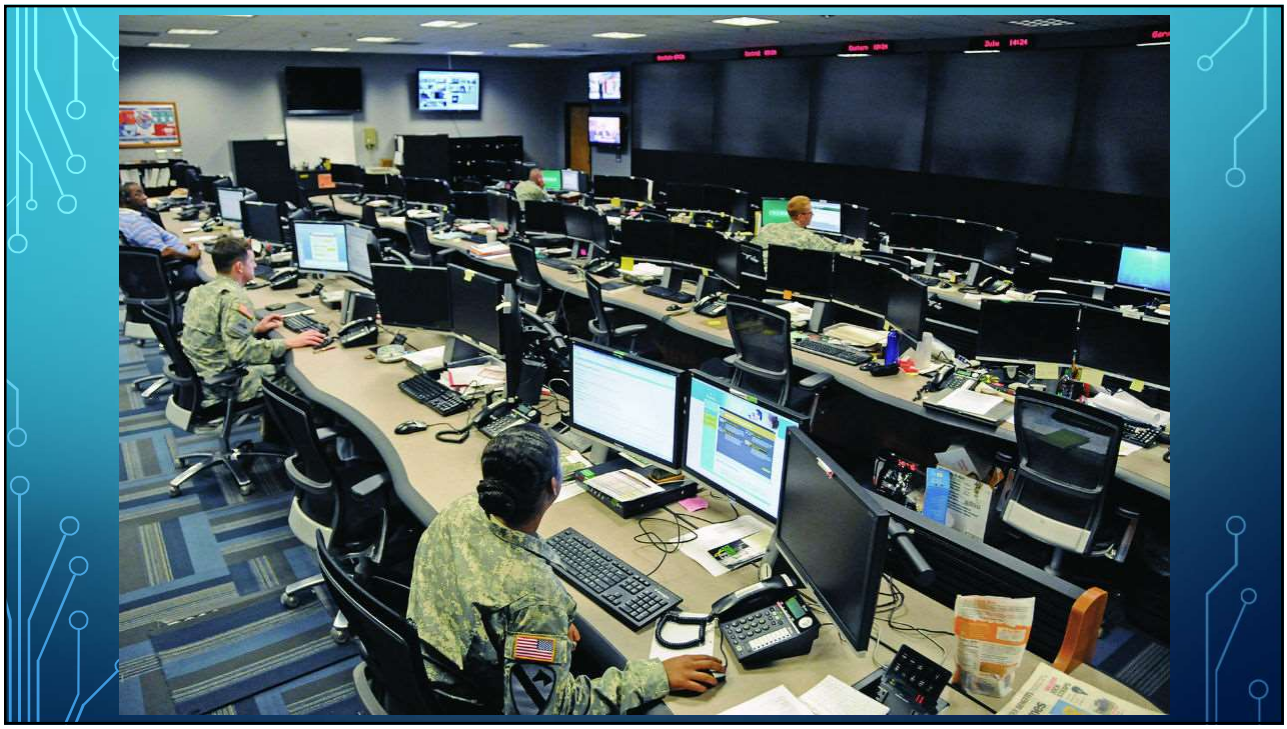
Bangladesh SOC



Video Source: IBM X-Force Command




Video Source: US Air Force




24
AIR FORCES CYBER
FOURTH AIR FORCE
HEADQUARTERS CYBER
AIR FORCE
Mission Support

What happens if I join the "Dark Side" ?



Thank You

SAMSAT CYBER COMMAND

SAMSAT

IEEE