

IOT Security Training



Security in IoT is the act of securing Internet devices and the networks they're connected to from threats and breaches by protecting, identifying, and monitoring risks all while helping fix vulnerabilities from a range of devices that can pose security risks to your business.

Introduction to Internet of things

- What is IOT?
- Sensors
- Actuators
- Sensor to Actuator Flow
- IOT Use Cases
- IOT Fundamentals

IOT Basic Concepts

- IOT System Architecture
- Typical IOT Device
- IOT Cloud Architecture
- IOT Gateway
- OS for Internet of things
- IOT Protocols
- IOT Communication Models
- Challenges of IOT
- Further Concepts

IOT Vulnerabilities and Risks

- Notable IOT Attacks
- Notable IOT Attacks Continued
- Vulnerabilities
- OWASP Top 10
- Attack Surface Part 3
- IT Security vs IOT Security

IOT Attack Types

- Blueborne Attack
- DDOS Attack
- Jam and Replay Attack
- Jamming Attack
- Smart Grid Attack
- Other Attack Types
- Virtualization

Steps for IOT Hacking

- Reconnaissance and Scanning

- IOT Reconnaissance Demo - Shodan
- IOT Reconnaissance Demo - Nmap
- Foren6 Tool
- RFCrack Tool
- Gaining Remote Access to IOT Devices
- Further IOT Exploit
- JTAG Debugging

More Hacking Tools

- Reconnaissance Tools - Censys
- Reconnaissance Tools - Thingful
- Sniffing Tool - Wireshark
- Vulnerability Scanning Tool - IOTSeeker
- Exploit Tools

