

## State of Enterprise IoT Security in 2020

While the internet of things (IoT) opens the door for innovative new approaches and services in all industries, it also presents new cybersecurity risks. Today an increasing number of newly developed IoT and operational technology (OT) devices are either connected to the network or to the internet, leaving organizations vulnerable to new IoT-targeted malware as well as legacy attack techniques that are finding new life.



### **IoT Adoption is Soaring in the Enterprise**

Today >30% of all network-connected endpoints are IoT devices (excluding mobile devices) at the average enterprise.



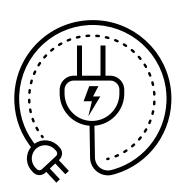
# **5.8B**

IoT endpoints in
2020, up from **4.8B** in 2019<sup>1</sup>

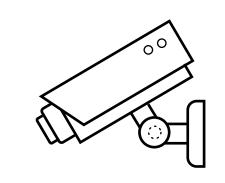
21%

Increase from 2019<sup>2</sup>

#### ENTERPRISE SEGMENTS WITH HIGHEST USE IN 2020

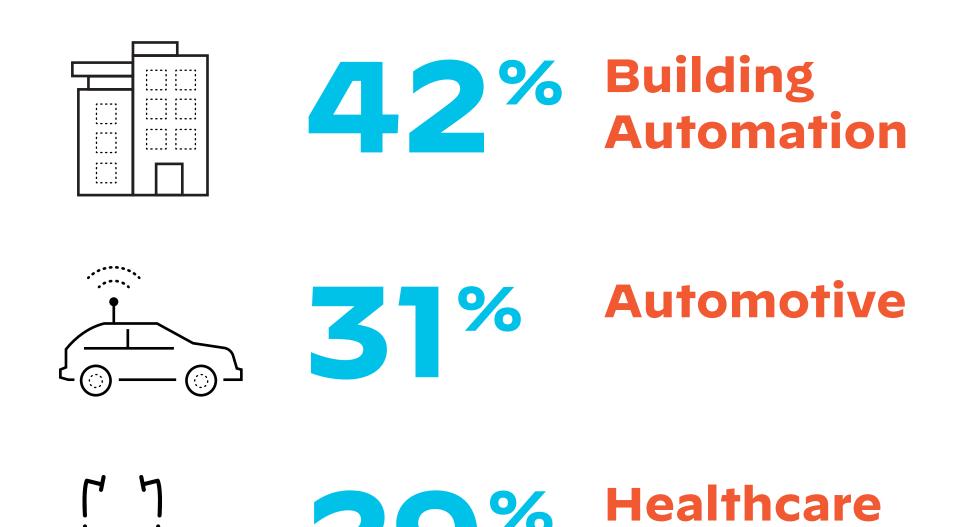








#### **ENTERPRISE SEGMENTS WITH LARGEST GROWTH IN 2020**





#### Security is a Cause for Concern



of all IoT traffic is unencrypted,

exposing personal and confidential data on the network.

## 57%

of IoT devices are vulnerable to medium- or high-severity attacks, making IoT the low-hanging fruit for attackers.

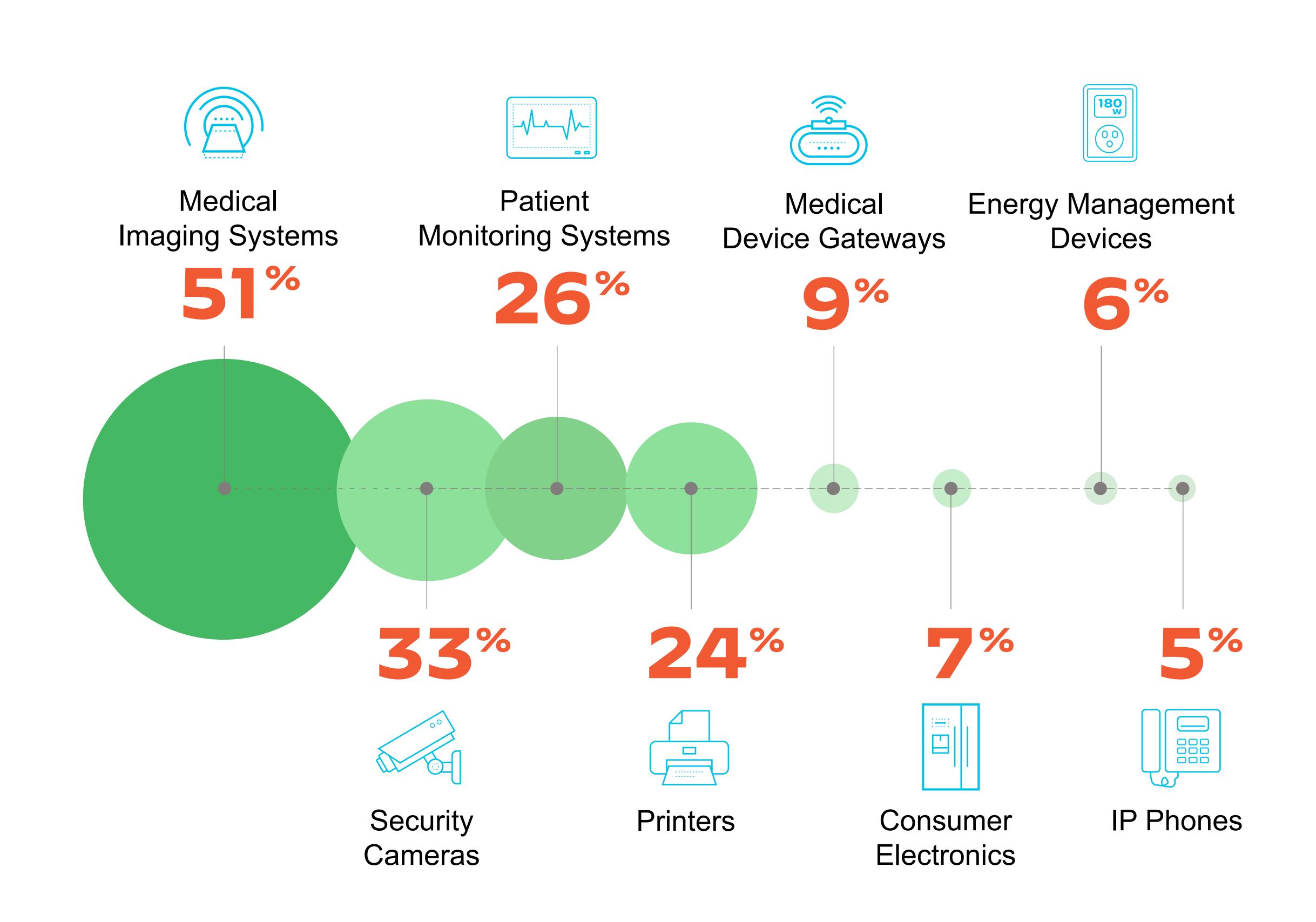


of medical imaging devices run on unsupported operating systems—a 56% jump from 2018

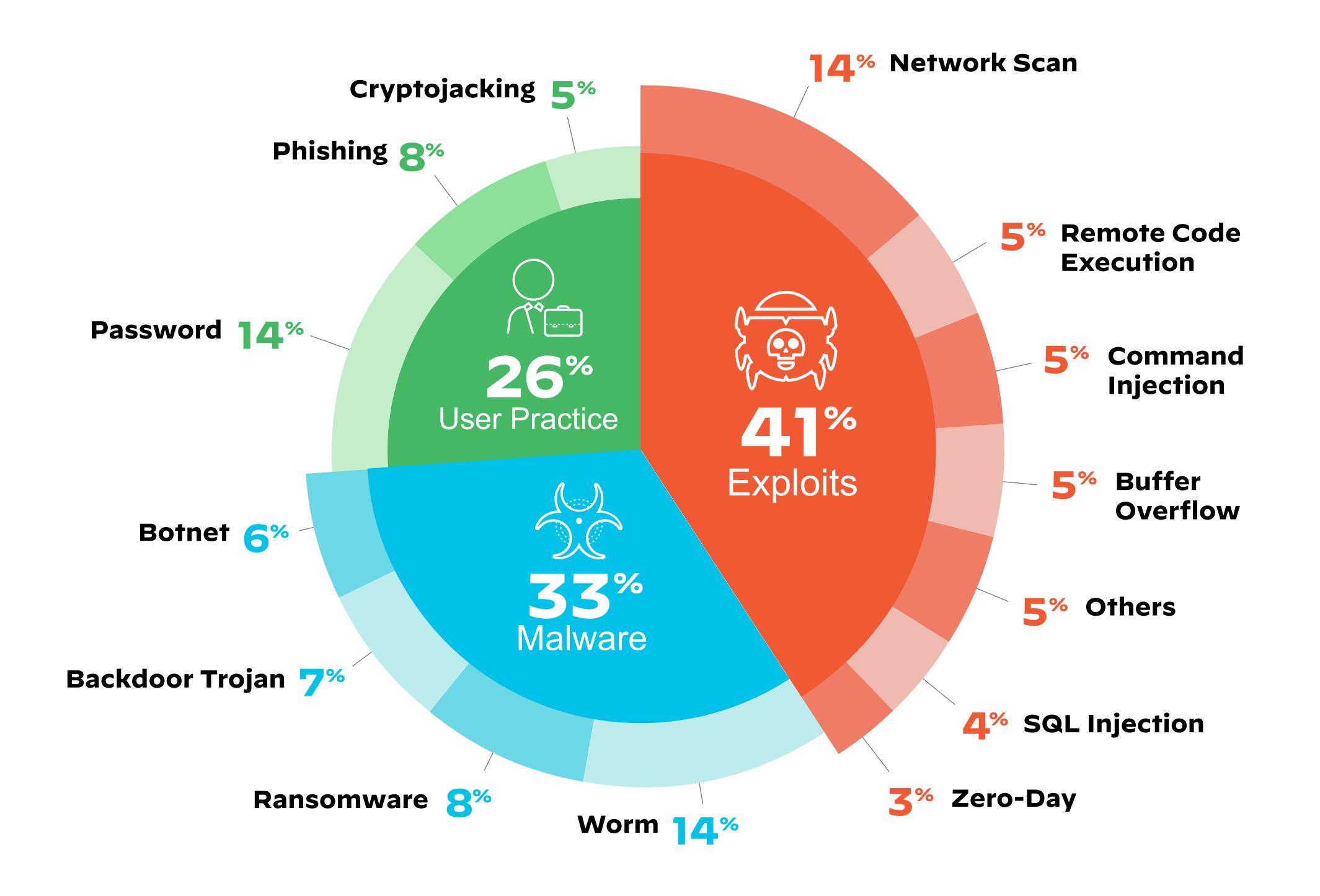
# What is an loT Device?

A network connected electronic device that senses or interacts with an internal state or the external environment, including operational technology (OT) devices that monitor and control equipment or their processes. These devices are all targets for attackers, and often aren't maintained by IT, unlike computers and phones that are managed by agents.

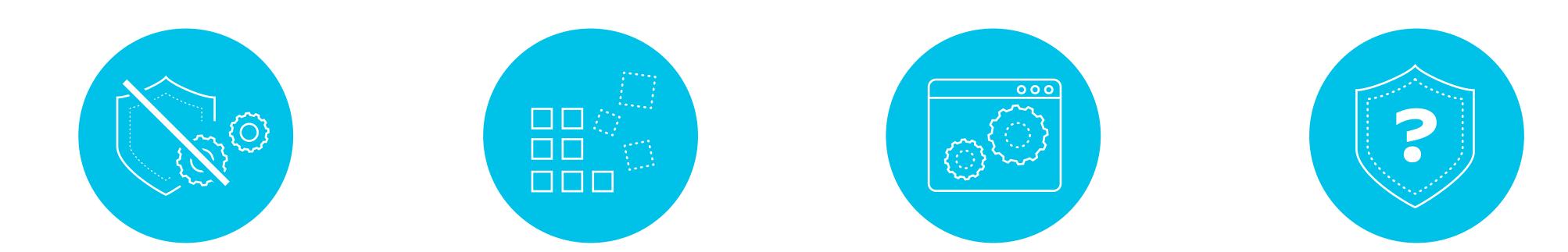
#### IoT Devices with Highest Share of Security Issues



### Breakdown of Top 3 IoT Cyber Threats



### Why are IoT Devices Ideal Entry Points for Attacks



Zero to Minimum Built-In Security

Browser Interface Vulnerabilities

Outdated Operating Systems

Failure to Adhere to Security Best Practices

### What Should You Do Next?



1,2. Gartner Press Release on Scenarios for the IoT Marketplace, 2019 https://www.gartner.com/en/newsroom/press-releases/2019-08-29-gartner-says-5-8-billion-enterprise-and-automotive-io 2020 Unit 42 IoT Threat Report, Palo Alto Networks https://start.paloaltonetworks.com/unit-42-iot-threat-report



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