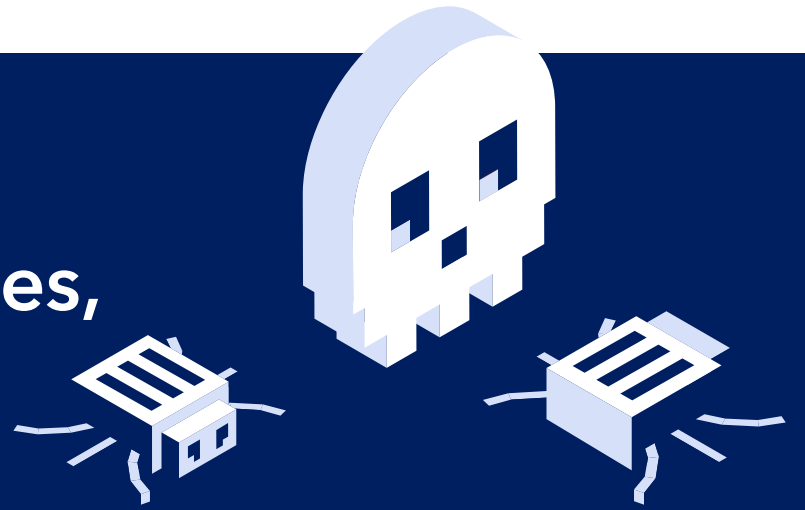


# Top 5 IoT data security "gotchas" to avoid



In 2020, IoT devices made up roughly 33% of infected devices, up from about 16% in 2019.<sup>1</sup>



## Are your devices at risk from:

1

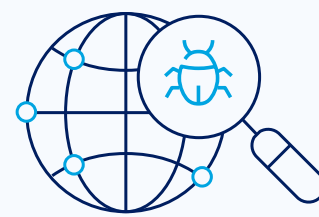


### Insecure authentication protocols?

Don't let attackers fake or bypass authentication, leaving you vulnerable to network attacks.

**23%** of organizations surveyed were using an outdated, unsafe protocol<sup>2</sup>

2



### Man-in-the-middle attacks?

Ensure that the communication between your users and your applications isn't intercepted or spoofed in transit.

**98%** of IoT device traffic is insecure<sup>3</sup>

3

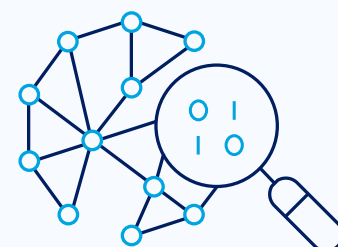


### Device hijacking?

Know what devices are in your ecosystem and who can access them.

**75%** of IoT security experts view unauthorized devices as a "significant security risk"<sup>4</sup>

4

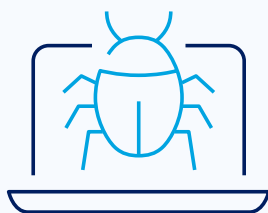


### Weak encryption?

Address common vulnerabilities that can lead to cryptographic keys being compromised.

Insufficient encryption protocols resulted in **3.8** million attacks in 2020<sup>5</sup>

5



### Malware?

Without built-in security, IoT devices are vulnerable to malware.

Malware attacks on IoT devices worldwide surged by **66%** to over 50 million in 2020<sup>6</sup>

There will be 43 billion IoT-connected devices by 2023.<sup>7</sup>



How can you make sure your IoT data stays safe?

1 <https://www.nokia.com/about-us/news/releases/2020/10/22/nokia-threat-intelligence-report-warns-of-rising-cyberattacks-on-internet-connected-devices>

2 <https://tinyurl.com/2p8jz5tr>

3 <https://start.paloaltonetworks.com/unit-42-iot-threat-report>

4 <https://www.proofpoint.com/us/resources/analyst-reports/cost-of-cloud-compromise-and-shadow-it>

5 <https://www.globalsecuritymag.com/iot-malware-attacks-worldwide,20210324,109671.html>

6 <https://www.globalsecuritymag.com/iot-malware-attacks-worldwide,20210324,109671.html>

7 <https://www.mckinsey.com/industries/private-equity-and-principal-investors/our-insights/growing-opportunities-in-the-internet-of-things>

## Secure your IoT device data

Protect your IoT devices with trusted identities that can interact within secure ecosystems. Enable IoT data security from edge to cloud with Intertrust PKI.



Learn more