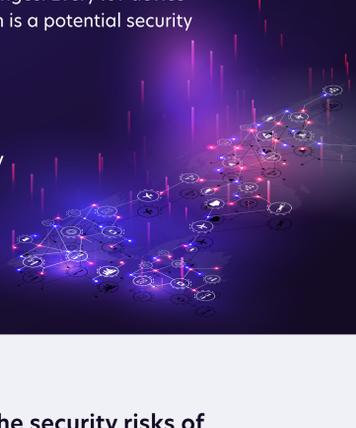


# IoT Device Security in 2022

With the exploding number of connected devices, the Internet of Things (IoT) is officially here. From wearables and medical devices to connected vehicles and industrial machines, every "thing" is connected and part of our everyday lives. While the rise of the IoT has brought countless opportunities for innovation, IoT device security poses serious challenges. Every IoT device carries enormous possibilities, but each connection is a potential security vulnerability waiting to be exploited.

Pulse and Keyfactor surveyed 100 product and manufacturing leaders to discover their IoT deployments, how they rate their security strategy and approach, and what challenges they face.

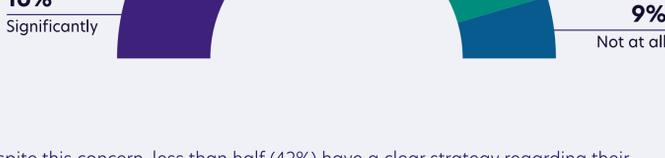
Data collection: January 5, 2022 - January 28, 2022  
 Respondents: 100 IT leaders



## Most IT leaders are concerned about the security risks of their connected IoT devices, but lack clear strategies regarding device identities and updating security.

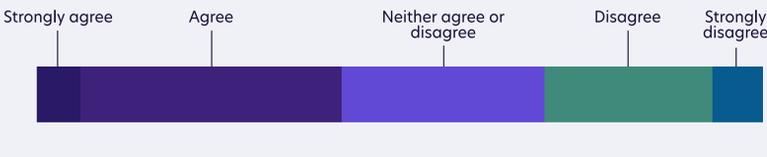
Over half (62%) of respondents are significantly or moderately concerned about the security risk of their connected IoT devices.

### How concerned are you about the security risk of connected IoT devices?



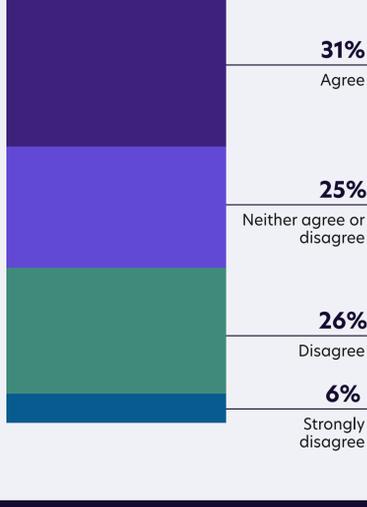
Despite this concern, less than half (42%) have a clear strategy regarding their device identities.

### To what extent do you agree or disagree with the following statement. "My organization has a clear strategy regarding the implementation and rollout of device identities?"



Further, less than half of respondents (43%) feel they have a solid strategy for updating security when algorithms or standards change.

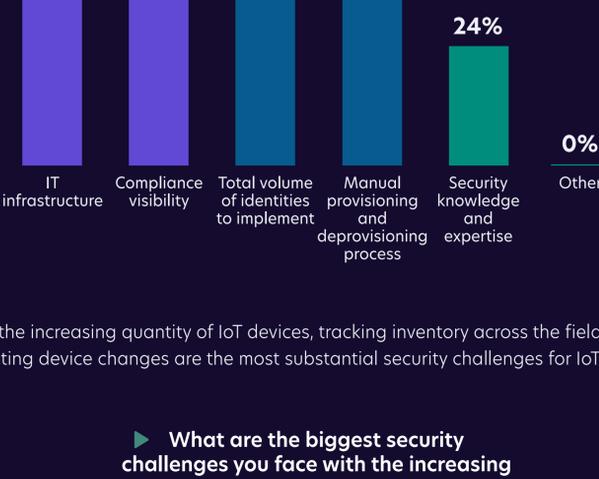
### To what extent do you agree or disagree with the following statement: "We have a solid strategy for updating our IoT device security when algorithms and standards change."



## IT infrastructure and device inventory tracking are the top challenges companies face as the IoT expands.

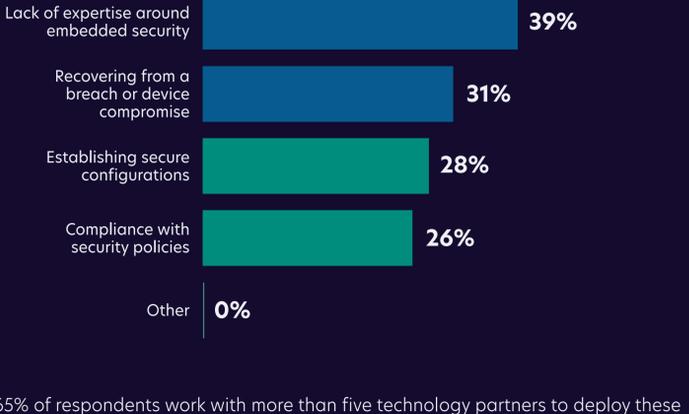
The biggest challenge in implementing and rolling out device identities is IT infrastructure, closely followed by compliance visibility.

### What are the biggest challenges in implementing and rolling out device identities?



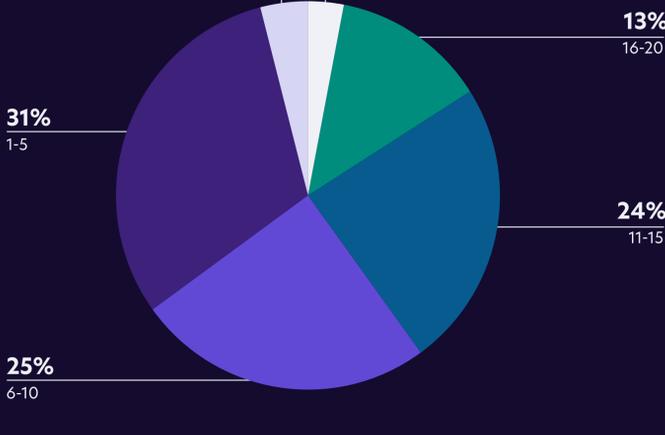
With the increasing quantity of IoT devices, tracking inventory across the field and detecting device changes are the most substantial security challenges for IoT leaders.

### What are the biggest security challenges you face with the increasing quantity of connected IoT devices?



65% of respondents work with more than five technology partners to deploy these devices, further compounding complexity.

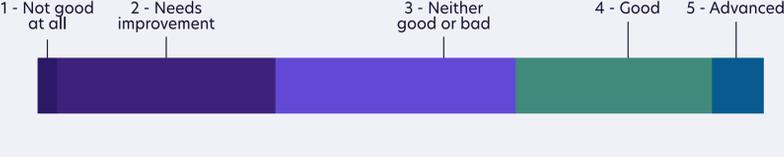
### How many technology partners (i.e., Microsoft Azure IoT Hub) do you use when deploying connected devices?



## Security approaches need improvement, with risk factors requiring further management.

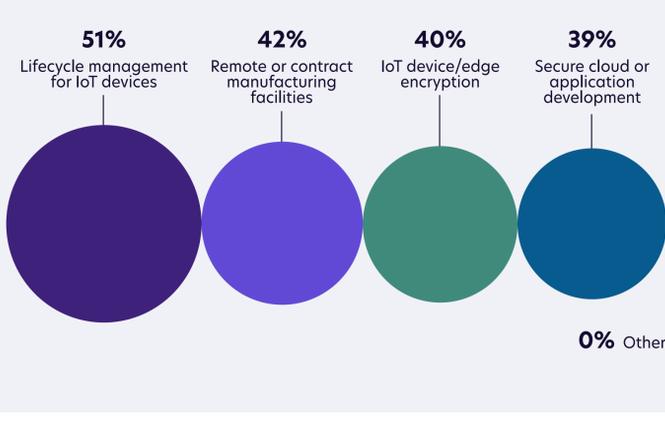
Just 34% of IoT leaders rate their approach to security implementation as good or advanced, with 30% saying it needs improvement.

### How would you rate your approach to security implementation?



Even while navigating these ambiguous security strategies and approaches, most IoT leaders (51%) cite lifecycle management for IoT devices among the risk factors they must manage to ensure IoT product security.

### Which of the following risk factors do you need to manage when it comes to IoT product security?

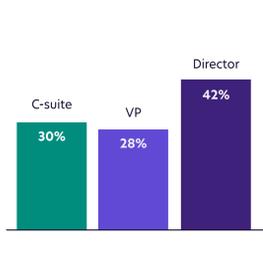


## RESPONDENT BREAKDOWN

### Region



### C-Suite Title



### Company Size

