

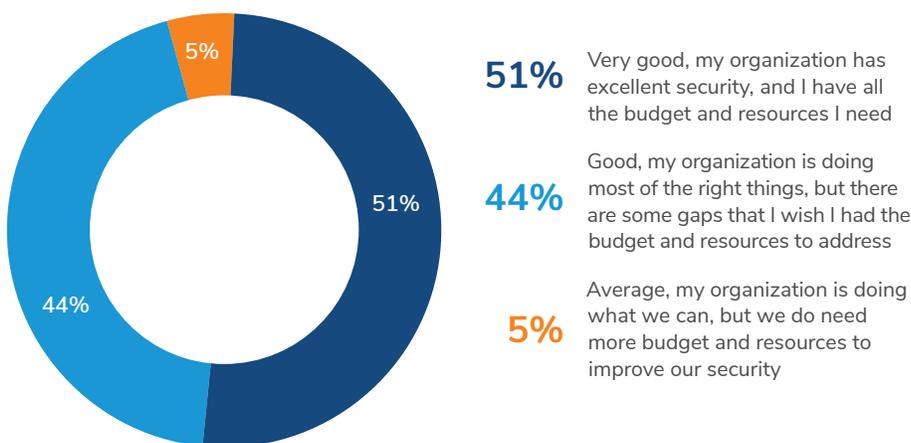
# Cybersecurity Dissonance: Gap Between Perception and Reality

50 percent of IT professionals say they don't know where to start to improve their security posture

## Perception

IT professionals are overly confident when it comes to cybersecurity. Most have invested in perimeter and endpoint security products, and they feel confident that these products can fully protect them. 95 percent of respondents believe their cybersecurity posture is above average or great, and 89 percent believe their perimeter security products can combat all cybersecurity threats.

Figure 1: How would you rate your organization's overall IT security posture?

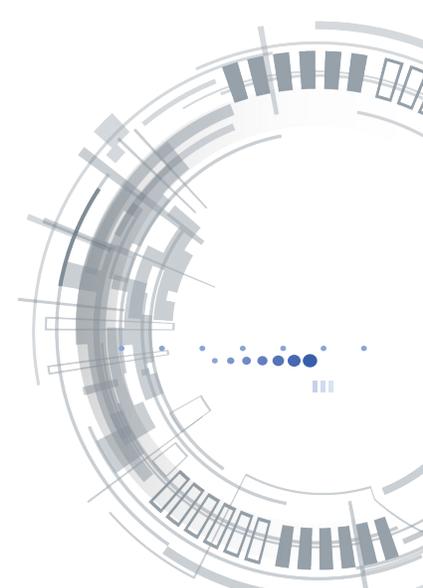


## Perception

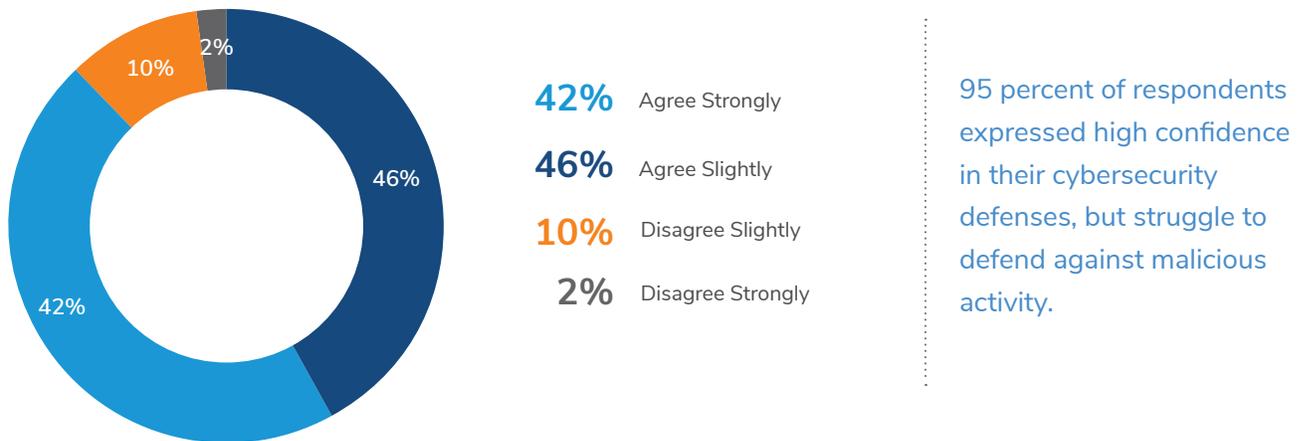
- 95% believe they have above average security posture
- 89% believe perimeter security products can combat all cybersecurity threats
- 90% say they have personnel solely dedicated to cybersecurity

## Reality

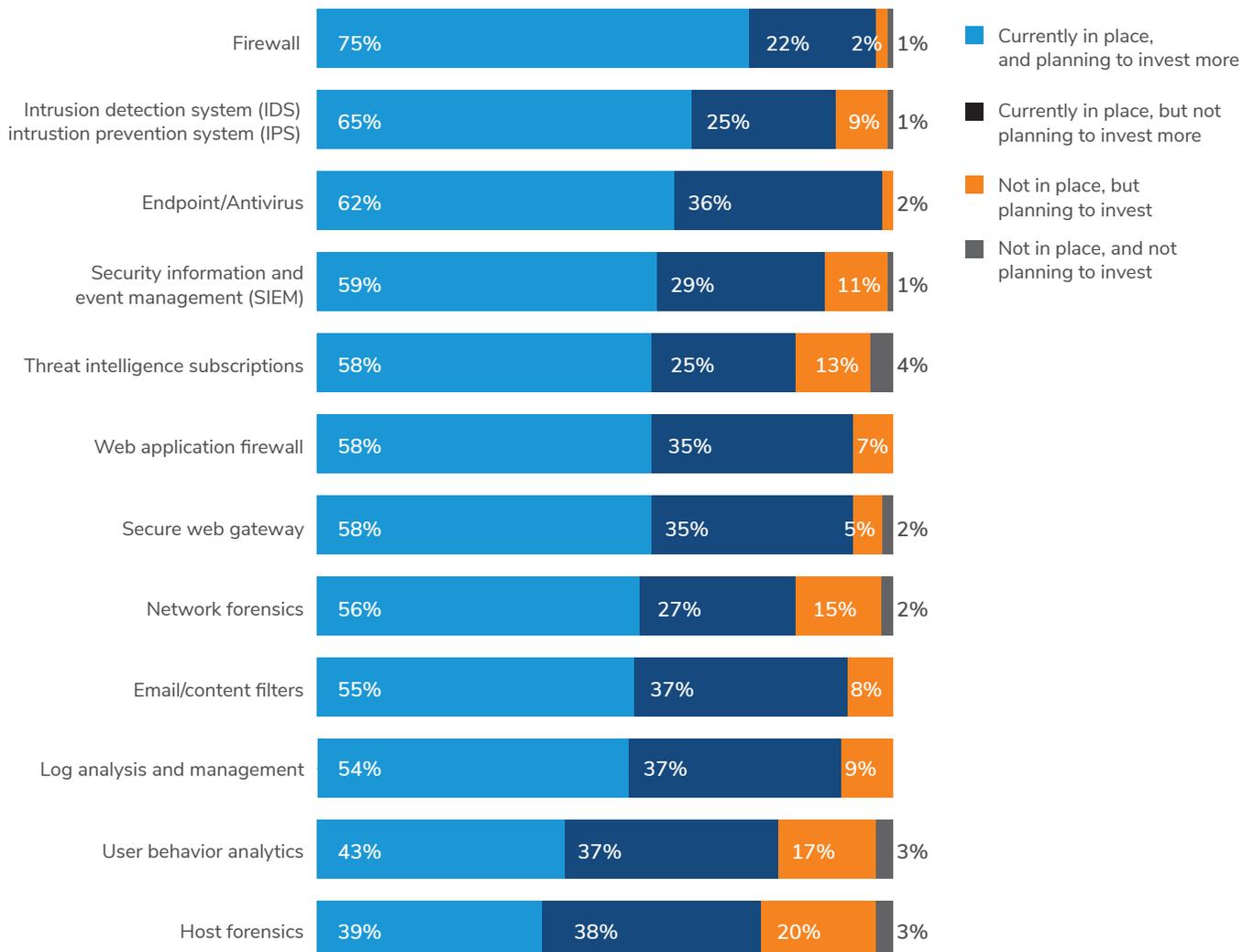
- 72% report that their role is so broad it's difficult to focus on IT security as much as they should
- 63% say they may not be able to stop zero-day threats
- 77% of security alerts are investigated after more than one hour



**Figure 2:** To what extent do you agree with—The perimeter security products used by my organization can combat all cybersecurity threats?

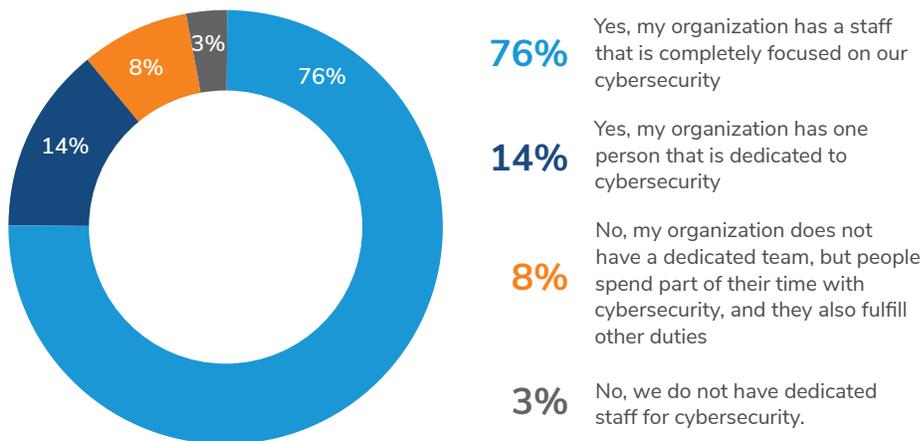


**Figure 3:** Which of the following cybersecurity elements does your organization have in place, and which is your organization planning to invest more in



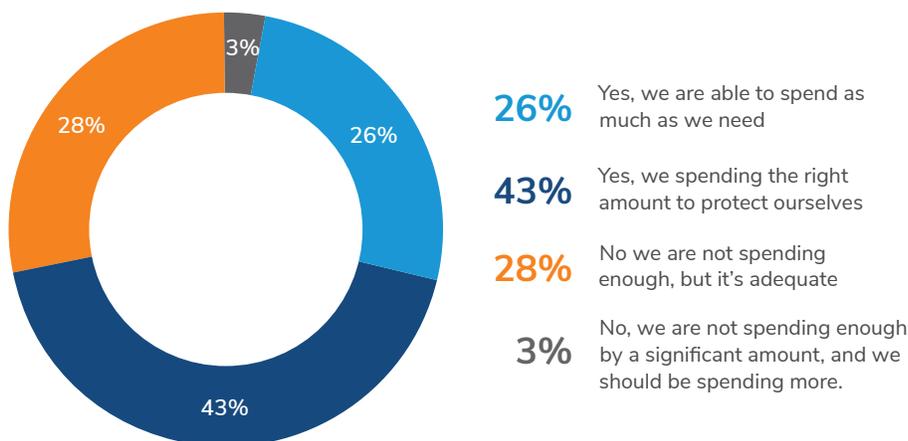
Enterprises appear to be taking cybersecurity seriously by assigning dedicated personnel. On average, 90 percent of survey respondents indicated they had one or more people completely focused on cybersecurity.

**Figure 4:** Does your organization have a specific internal role or internal team that is dedicated solely to cybersecurity?



The Arctic Wolf survey also found that IT and security professionals felt that they had sufficient budget for cybersecurity. 97 percent said the spending was adequate.

**Figure 5:** Do you think you are spending enough on security?



The survey found that, overall, IT and security professionals appear to be very confident that they have the resources to do their job and protect their company from malicious threats. They have a breadth of security products that protect both the perimeter and endpoints. Dedicated cybersecurity staff are available to focus on security, and they have the necessary budget.

“Smaller enterprises face all the same security challenges as large enterprises with only a fraction of the budget and less skilled personnel.”

Brian NeSmith  
CEO, Arctic Wolf

## Reality

Despite the positive self-assessments of survey respondents, a closer look at the security operations and processes show that IT and security professionals struggle to defend against malicious activity that has become more sophisticated, more targeted, and severe. The reality is that IT and security professionals have broader responsibilities and do not have the luxury of focusing on cybersecurity. In addition, their expertise tends to be broad versus deep, so they may not have the necessary specialized skills.

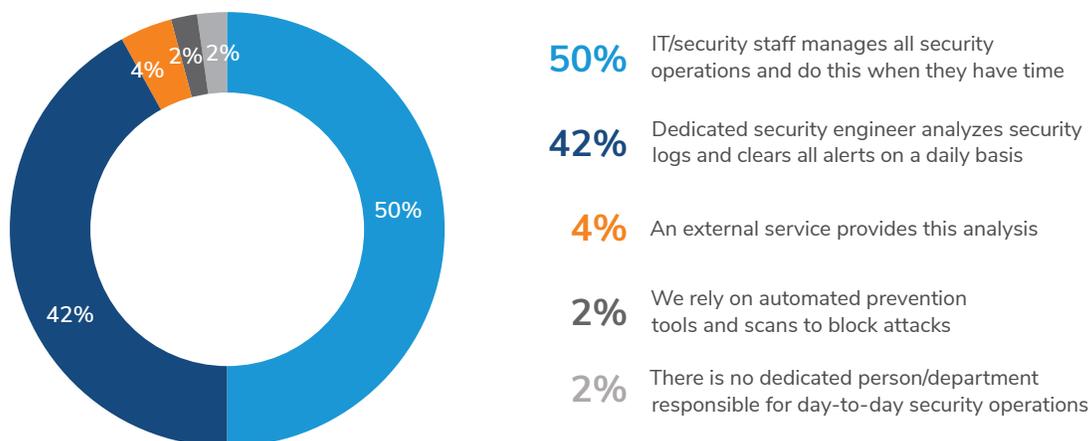
Though IT and security professionals feel confident in their security posture, the reality is that they have significant gaps in security and are often unable to adequately deal with the complex threat environment. In fact, 72 percent of respondents report that their role covers so many different areas that it is difficult to focus on IT security as much as they should. 50 percent of the respondents said that security is so complex, they don't know where to start to improve their organization's security posture. 51 percent also said they would like their organization to assign more budget and/or resources to IT security.

**Figure 6:** Percentage of respondents that agree with the above statements.



The disparity between perception and reality is also reinforced by survey responses to how security alerts are investigated. Though most respondents indicated they had dedicated security personnel, 50 percent said that security alerts were only investigated by IT/security staff when they had time.

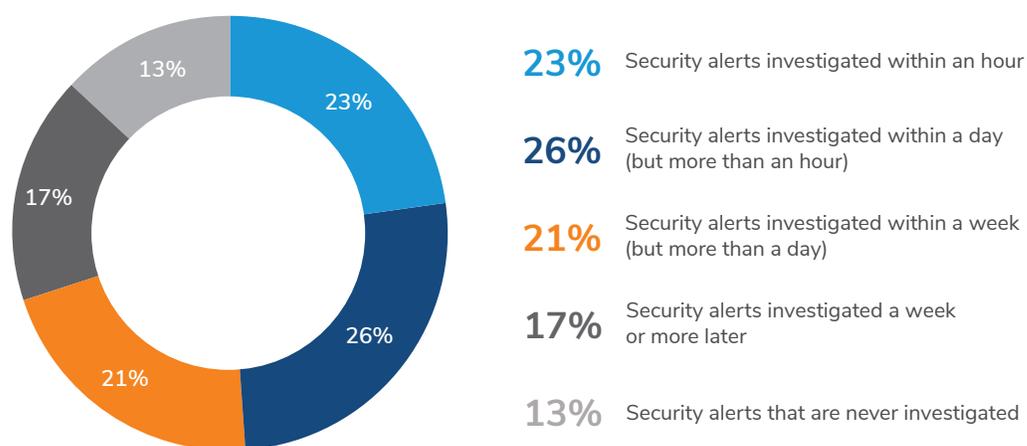
**Figure 7:** How does your organization usually analyze security alerts and events?



The time-permitting approach is dangerous since every minute counts when a company’s defenses are compromised. In the event of a breach, it needs to be contained as quickly as possible, and this is not happening at most enterprises.

Consistent with this fact, 77 percent of security alerts are investigated after more than one hour. Containing a breach within minutes versus hours can make all the difference. For example, in the case of ransomware, once the malware begins the encryption process, it becomes a race against time to contain the damage. It only takes 16 minutes to encrypt one-thousand Microsoft Word documents, so every second matters.

**Figure 8:** What percentage of your organization’s security alerts within the last three months have been investigated, and within what timeframe?

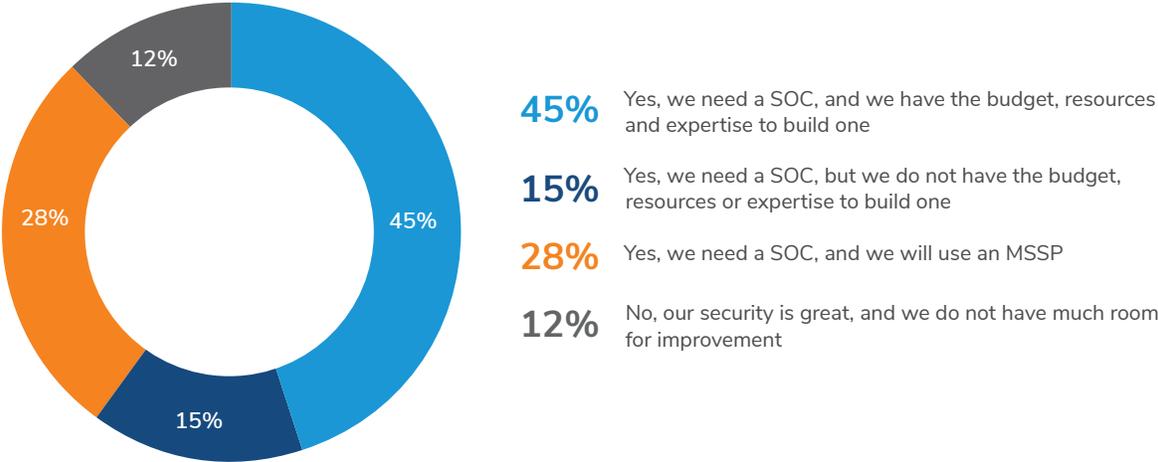


A more detailed look at the survey respondents’ security operations show there is a significant gap between how IT and security professionals perceive their security posture and the reality of how secure they really are.

### Security Operations Center Improves Cybersecurity

A security operations center (SOC) is the most essential element of modern security, but they are often viewed as very expensive and complicated. The Arctic Wolf survey found that a SOC was highly desired by survey respondents, but largely seen as being outside their budget. While 88 percent of respondents believed that a SOC would be beneficial for their business, 59 percent reported that a SOC was too expensive. The data showed that a SOC on average costs \$1.4 million to establish, and the ongoing operational costs are also significant.

**Figure 9:** Would having a security operations center (SOC) with SIEM, threat feed subscriptions, three to four security engineers, log collection, machine learning, user behavior analytics, vulnerability scanning, and data security improve your organization's security?



**About the survey**

Arctic Wolf conducted a study on “The State of Cybersecurity: 2017” in partnership with Vanson Bourne. The study revealed major gaps between the perception and reality of cybersecurity challenges. The survey found that companies had very high confidence in their cybersecurity defenses, but struggled to effectively defend against malicious activity that has become more sophisticated, targeted and severe.

The survey spoke with 200 cybersecurity IT decision makers from enterprises with 500–3000 employees across financial, healthcare, manufacturing, and IT service verticals. The data revealed a cybersecurity dissonance among enterprises, highlighting the disparity between what IT professionals believe versus the reality of their actual security posture.

**About Arctic Wolf**

Arctic Wolf Networks provides SOC-as-a-service that is redefining the economics of security. AWN CyberSOC is anchored by Concierge Security Engineers and includes 24x7 monitoring, custom alerting, and incident investigation and response. There is no hardware or software to purchase, and the end-to-end service includes a proprietary cloud-based SIEM, threat intelligence subscriptions, and all the expertise and tools required.

