# SaaS Al-Risk for Mid-Market Organizations

2025 Survey Report



© 2025 Cloud Security Alliance - All Rights Reserved. You may download, store, display on your
computer, view, print, and link to the Cloud Security Alliance at <a href="https://cloudsecurityalliance.org">https://cloudsecurityalliance.org</a> subject to the following: (a) the draft may be used solely for your personal, informational, noncommercial use; (b) the draft may not be modified or altered in any way; (c) the draft may not be redistributed; and (d) the trademark, copyright or other notices may not be removed. You may quote portions of the draft as permitted by the Fair Use provisions of the United States Copyright Act, provided that you attribute the portions to the Cloud Security Alliance.
© Copyright 2025 Cloud Security Alliance All rights reserved

# Acknowledgments

#### **Lead Author**

Hillary Baron

#### **Contributors**

Josh Buker Marina Bregkou Ryan Gifford Sean Heide Alex Kaluza John Yeoh

#### **Graphic Design**

Claire Lehnert Stephen Lumpe

### **Special Thanks**

Ran Senderovitz and Brian Fravel

#### **About the Sponsor**

Wing Security is dedicated to protecting organizations from SaaS-related threats. With comprehensive SaaS Security Posture Management (SSPM) and Identity Threat Detection and Response (ITDR), Wing's platform provides continuous visibility and control over critical apps, SaaS configurations, and app-to-app connectivity. Designed to simplify SaaS



security management, Wing equips security teams with essential context and flexible remediation capabilities to address SaaS risks effectively, ensuring smooth business operations and continuity.

https://wing.security/

# **Table of Contents**

Acknowledgments
Executive Summary
Key Findings at a Glance
Key Findings6
Key Finding 1: Security Teams Are Struggling with a Growing Attack Surface
and Tracking Application Use6
Key Finding 2: Mid-Market Organizations Prioritize Critical Apps Protection Resulting
in Security Gaps
Key Finding 3: Al-Related Risks Are a Growing Concern, but Organizations Lack a Formal Plan9
Key Finding 4: SaaS Security Strategy Is Hindered by Insufficient Tooling and Reliance on
Manual Processes10
Key Finding 5: SaaS Security Embedded and Growing Through Current Security
and IT Initiatives
Full Survey Results15
Overview
SaaS Risks
AI Risks and Concerns in SaaS
Budget and Plans for the Future2
Demographics23
Survey Methodology and Creation24
Goals of the Study24

# **Executive Summary**

Mid-market organizations are facing a growing challenge: managing an expanding Software as a Service (SaaS) environment with fewer resources than larger enterprises. This report explores how these organizations are addressing SaaS security risks, from managing misconfigurations and artificial intelligence (AI)-driven threats to overcoming budgetary constraints and limited tooling. The findings highlight the gaps in their current strategies and provide actionable insights for improving their security posture.

#### Key Findings at a Glance



#### 1. A Growing Attack Surface

Mid-market organizations are grappling with managing the large volume of SaaS applications, both sanctioned and unsanctioned, with actual numbers often exceeding expectations. Limited visibility into these applications creates significant security gaps. Specialized tools and automation are essential for securing this expanding digital footprint.



#### 2. Prioritizing "Crown Jewels" While Leaving Gaps

Many companies are concentrating their configuration management efforts on their most critical applications like Google Workspace and Identity Provider/Identity Access Management (IdP/IAM) service. Doing so is a foundational step in maintaining a strong security posture. However, while prioritizing these core systems is essential, broader SaaS environments should not be overlooked. To fully mitigate risks, organizations must expand automation and ensure comprehensive coverage across all applications, including those perceived as lower priority and application-to-application connections.



#### 3. Al Risks Without a Formal Plan

Al-related risks, particularly to data and intellectual property, are a growing concern, but only half of

organizations have dedicated teams addressing them. The absence of a unified strategy and clear accountability leaves organizations vulnerable to evolving threats and compliance challenges.



# 4. Reliance on Manual Processes and Insufficient Tooling

Smaller security teams often rely on manual processes and general-purpose tools like Cloud Access Security Broker (CASB), which are insufficient for SaaS security needs. Many organizations are planning to adopt specialized solutions like SaaS Security Posture Management (SSPM) and Data Security Posture Management (DSPM) to enhance visibility and address critical risks.



# 5. Growing SaaS Security Through Current Initiatives

Nearly 90% of organizations plan to expand IT budgets or enhance existing security initiatives—such as risk management, configuration management, and risk detection and response—to address SaaS security. However, only 3% have a dedicated line-item budget specifically for SaaS security. Dedicated funding and aligned priorities across teams remain critical for building an effective SaaS security strategy.

#### **Conclusion**

Mid-market organizations are making progress in recognizing and addressing SaaS security risks, but significant gaps remain. To build a robust security posture, these organizations should prioritize adopting specialized technologies that enhance visibility, automate processes to improve the posture and SaaS misconfiguration and address critical security gaps like Identity, Access, and Data leaks to 3rd parties and AI applications that may train on the company data. Relying on manual processes not only increases costs but also fails to provide comprehensive risk coverage. Aligning priorities across IT, security, and business units will also be critical to achieving a unified and proactive approach to SaaS security. By addressing these challenges, mid-market organizations can better safeguard their assets and navigate the evolving SaaS landscape.

# **Key Findings**

Mid-market organizations face a unique balancing act: defending a growing digital footprint without the deep pockets and vast resources of larger enterprises. This survey dives into the strategies these companies are using to protect their high-value assets, from navigating SaaS security gaps to tackling Al-related risks—often with leaner budgets and manual processes. By highlighting real-world challenges and priorities in risk management, the report uncovers critical insights for mid-sized security teams striving to stay resilient in an increasingly complex threat landscape.



#### **Key Finding 1:**

# Security Teams Are Struggling with a Growing Attack Surface and Tracking Application Use

For many mid-market organizations, managing the sheer volume of both sanctioned and unsanctioned SaaS applications has become a major challenge. While 69% of companies report having 50 or fewer sanctioned applications, 68% estimate a similar number of unsanctioned ones, with 14% unsure of the exact figure. However, research from Wing Security paints a more concerning picture:

Perceived number of sanctioned and unsanctioned SaaS application in organizations' environments

Sanctioned

69% 50 or fewer

Unsanctioned

68% 50 or fewer

14% Unsure

organizations with around 1,000 employees actually average close to 700 SaaS applications in total (both sanctioned and unsanctioned)—far exceeding the perceived 100. This disparity underscores a significant visibility issue that could lead to potential security gaps. As the saying goes, you can't secure what you can't see.

The survey further found that only 44% of organizations prioritize protecting all their sanctioned applications, while a mere 17% include unsanctioned ones in this priority. This points to an urgent need for stronger application management across the board. Although nearly half of respondents rely on Cloud Access Security Brokers (CASBs) to manage app security, CASBs alone are often insufficient for managing app-to-app interactions, leaked credentials, identity risks, access permissions,

Organization's approach when protecting SaaS applications

Prioritize protecting all sanctioned apps

44%

Prioritize protecting both sanctioned and unsanctioned apps

17%

misconfigurations, and unsanctioned applications. Mid-market organizations may need greater support through automated configuration management and SaaS-specific security tools to gain the visibility and control essential for managing application security risks. By bridging the gap between IT resources and security priorities, these companies can better secure their expanding digital footprint.



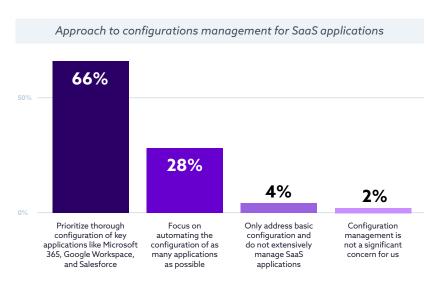
# Key Finding 2: Mid-Market Organizations Prioritize Critical Apps Protection Resulting in Security Gaps

Mid-market organizations recognize the critical role of configuration management in securing their SaaS environments, with 43% identifying misconfigurations as their biggest SaaS security risk. However, constraints in resources and tooling mean that efforts to address these risks are often limited to the most critical applications, leaving less critical apps at risk.

		Biggest perceived SaaS risks				
43%	Misconfigurations	24%	Data breaches	15%	Supply chain attacks	
<b>42</b> %	Unauthorized access	24%	Data leakage	9%	Insider risks (malicious or negligent)	
<b>27</b> %	Compliance and regulatory concerns					

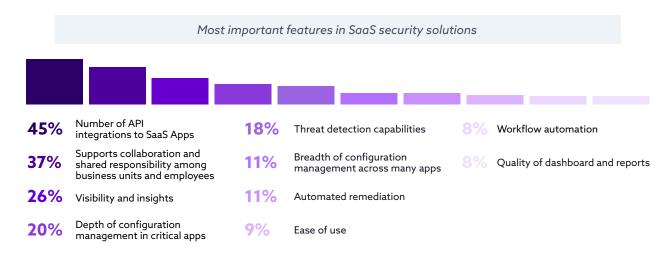
While only 2% of respondents believe configuration management isn't a concern, most focus on high-priority apps rather than achieving full coverage across their SaaS environments. In fact, 66% of organizations plan to prioritize configuration management for critical applications like Microsoft

365, Google Workspace, and Salesforce—a practical and impactful starting point for strengthening their SaaS security strategy. By focusing on these "crown jewels," organizations can ensure their most essential systems are safeguarded with minimal operational disruption. At the same time, unsanctioned applications require attention to prevent potential risks. These applications should



be monitored to confirm they do not store sensitive data, access critical systems through tokens or application programming interfaces (APIs), or inadvertently expose employee credentials. While only 28% of organizations currently plan to automate configuration management across all applications, balancing the protection of critical apps with better visibility into unsanctioned applications will help organizations build a more secure and resilient SaaS environment. Even these lower risk applications can potentially be a high risk decision.

The survey also revealed that API integrations (45%) and cross-department collaboration (37%) are among top priorities when it comes to SaaS security, with visibility and insights (26%) following closely. However, only 20% of organizations focus on in-depth configuration management for key apps. This is consistent with the prioritization of configuration management for just the most critical applications.



In fact, a mere 11% extend these efforts broadly across their app ecosystem. This limited scope suggests that mid-market organizations may be prioritizing their resources and attention to the applications deemed most critical to their work. However, this could lead to overlooking the risks associated with less critical but still vulnerable applications. They're also often working with fewer resources than large organizations which may force them to make difficult decisions; however, this could leave them vulnerable.

Additionally, the rise of shadow IT, with unsanctioned applications operating outside of IT's control, often goes unaddressed. This oversight further weakens their security posture. These applications hold the identities and credentials of organizational entities. Furthermore, they may be connected through APIs to other, more critical SaaS platforms without proper vetting of their security, and accounts take over risks. To mitigate these risks, organizations should consider expanding their configuration management to include all critical SaaS applications, ideally through automated solutions, and enhance visibility into shadow IT. By broadening their approach, mid-market organizations can create a more resilient security framework that addresses vulnerabilities beyond their core applications.

#### Key Finding 3:



27%

4%

23%

# Al-Related Risks Are a Growing Concern, but Organizations Lack a Formal Plan

As AI features become increasingly embedded within SaaS applications, organizations are expressing growing concerns over the risks these features bring, particularly regarding data and intellectual property (IP) protection. The majority of organizations show a moderate to high level of concern about AI-related risks in SaaS, with 55% moderately and 20% highly concerned about potential AI risks. More specifically, data risks (41%) and IP risks (45%) are identified as top priorities, signaling that organizations are acutely aware of AI's potential threats to their critical assets. In contrast, only 6% see compliance as a pressing issue, reflecting an imbalance in risk prioritization that could lead to long-term challenges as AI regulations evolve.

Al risk management is further complicated by a fragmented distribution of responsibilities across departments. SaaS management, especially configuration management, is handled



Biggest concern with AI use in SaaS stack



**45%** 

IP risk



41%

Data risk



**7**%

Application access to company resources



6%

Maintaining regulatory compliance

by IT (51%), legal teams (27%), business units (24%), and risk management (52%), with emerging AI threats being overseen by a mix of security (52%), IT (45%), and legal teams (29%). This division of responsibility makes it difficult for organizations to establish consistent Al security practices, as different teams may have conflicting priorities or insufficient expertise to address AIspecific risks effectively. Moreover, while 51% of organizations rely on their security teams to manage Al risks, 33% either lack a dedicated role or are unsure who holds responsibility for Al risk management. This

lack of clear accountability introduces significant vulnerabilities, as AI risks remain unchecked and unmanaged without a structured plan.

While organizations recognize the potential risks AI poses to data and IP within SaaS applications, the absence of a unified AI risk management strategy leaves critical gaps in security and compliance. To address these vulnerabilities, organizations should work toward formalizing their AI risk strategies, clearly designating accountability, and enhancing focus on regulatory compliance. Without addressing these gaps, mid-market organizations will remain exposed to emerging AI risks and evolving regulatory requirements, jeopardizing their security posture in the long run.

#### Key Finding 4:



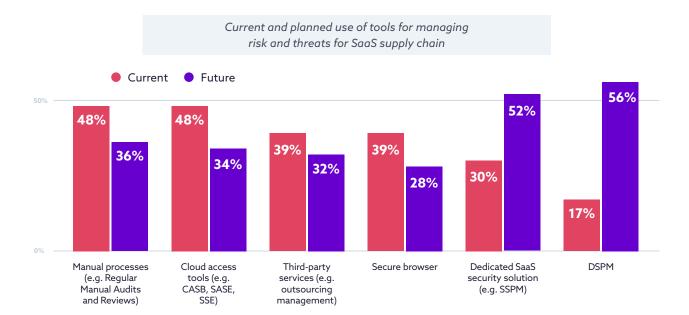
## SaaS Security Strategy Is Hindered by Insufficient Tooling and Reliance on Manual Processes

Mid-sized organizations are increasingly aware that their current security tools and manual processes are not keeping pace with the complexity and risks posed by SaaS applications. While security teams are often smaller than IT teams-55% of security teams have only 6-10 members compared to IT teams with 44% with 6-10 members and 25% with 11-15 members—these teams are tasked with managing a growing number of both sanctioned and unsanctioned SaaS applications. This



imbalance leaves security teams stretched thin, facing challenges in maintaining visibility and control, which increases the risk of misconfigurations and unauthorized access.

Security teams in many of these organizations are performing dual roles, often handling both security and IT responsibilities. This overlap may blur the lines between functions, but it doesn't reduce the growing demands of SaaS security. Currently, 48% of organizations rely on manual processes to manage SaaS risks, and another 48% utilize Cloud Access Security Brokers (CASB) for oversight. However, fewer organizations use more specialized tools like SaaS Security Posture Management (SSPM) or Data Security Posture Management (DSPM), with only 30% and 17% adoption, respectively.



This reliance on manual oversight and general-purpose tools like CASB reflects a gap in the SaaS security strategy for most organizations. Recognizing these limitations, many organizations plan to utilize SSPM (52%) and DSPM (56%) solutions to enhance visibility, automate critical processes, and address high-priority risks, such as data protection and misconfigurations some time in the future. The planned shift toward specialized tools underscores an understanding that SSPM and DSPM solutions are better suited to meet the specific demands of SaaS security.

Additionally, many organizations struggle with basic SaaS security management functions due to a lack of centralized tracking (36%), notifications for app updates (30%), control over update frequency (27%), and the sheer volume of applications (22%). These pain points illustrate that, while organizations desire more robust SaaS security tools, their current tooling falls short, and manual processes only provide reactive security measures rather than proactive risk management.

		3 3	aspects of tracking terms s for SaaS applications		
36%	Lack of tools to centralize tracking	22%	Number of applications	15%	Tracking third-party data sharing
30%	Notification of updates in timely manner	20%	Resource contraints	13%	Difficulty understanding complex legal language
<b>28</b> %	Frequency of updates	<b>17</b> %	Diversity of data use policies	12%	Vendor transparency

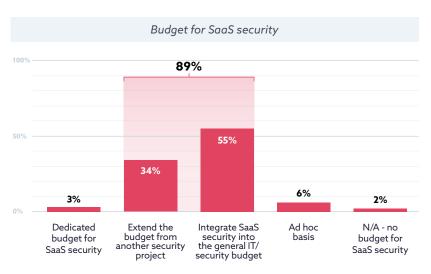
As mid-sized organizations move toward adopting SSPM and DSPM tools, they will be better positioned to protect critical assets, minimize risks, and build a more comprehensive security posture. However, until these specialized tools are fully in place, organizations will continue to face challenges in keeping up with the evolving SaaS landscape, impacting their ability to stay agile and innovate securely to avoid falling into a reactive security posture.

#### **Key Finding 5:**

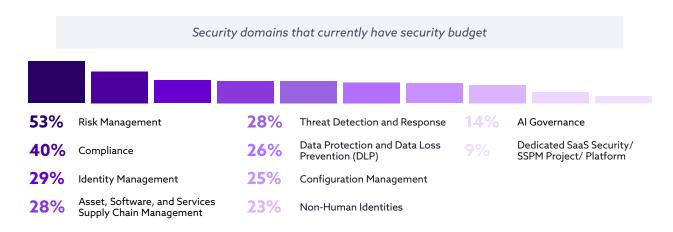
# SaaS Security Embedded and Growing Through Current Security and IT Initiatives

While organizations recognize the importance of securing their SaaS environments, and 52% plan to utilize SSPM tools in the future, due to budget constraints and a lack of dedicated funding, this creates significant barriers to implementing effective SaaS security strategies. Only 3% of

organizations report having a dedicated budget for SaaS security, reflecting that very few view it as a standalone priority. Instead, most organizations (89%) integrate SaaS security into broader initiatives like risk management, compliance, and Identity posture. This approach extends existing priorities into the SaaS domain, reflecting an increasing focus on addressing SaaS-specific risks



within the context of overall security efforts. However, relying on general IT or security budgets (55%) or reallocating funds from other projects (34%) can lead to reactive, patchwork investments that fail to fully address the unique risks SaaS applications pose. As SaaS security becomes more integrated into organizational priorities, extending these efforts thoughtfully will be key to building a comprehensive and effective strategy.



Risk management (53%) and compliance (40%) dominate funding priorities, both of which are critical for SaaS security. However, bundling SaaS security into these broader initiatives can dilute focus and prevent targeted investments in specialized tools like SaaS Security Posture Management (SSPM) or

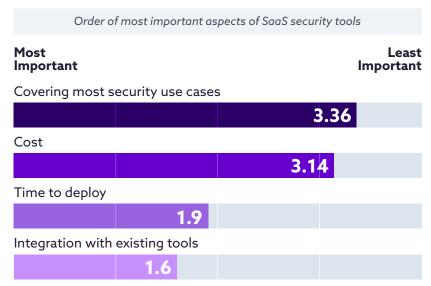
Data Security Posture Management (DSPM). This lack of specificity leaves critical gaps in the security posture, particularly in areas like configuration management and data protection, where SaaS-specific risks require tailored solutions.

Additionally, SaaS security responsibilities are fragmented across departments. IT teams are heavily involved in phases like approval, access control (56%), and configuration management (51%), while security teams lead risk management (52%) and access approvals (32%). Business units are also involved in critical tasks like configuration management (23%). This distributed responsibility makes it difficult to consolidate resources and prioritize security investments, further contributing to the reliance on general IT funds and the challenges of orchestrating efforts across teams.

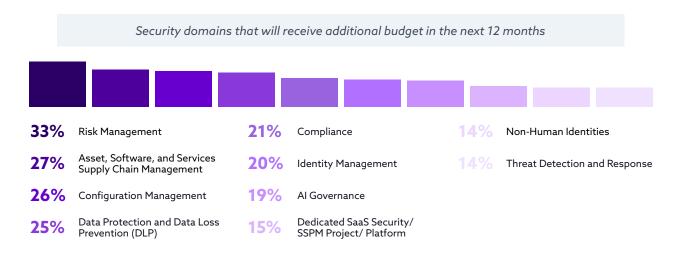


Cost is the second most important consideration when selecting SaaS security tools, rated at 3.14 on a scale of 1-4 (where a higher average ranking indicates more important), just behind coverage of security use cases

(3.36). This cost-conscious mindset explains why many organizations lean on general-purpose tools or manual processes, which are often insufficient for addressing the specific challenges of SaaS environments. While cost considerations are necessary, overreliance on low-cost or less-specialized solutions can leave organizations vulnerable to risks like data breaches, misconfigurations, and compliance violations.



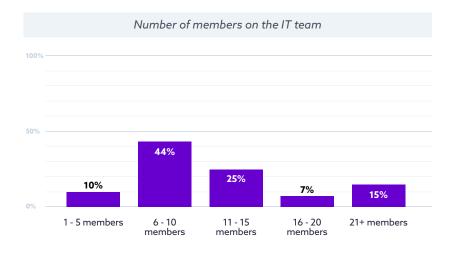
Organizations are beginning to extend their budgets in targeted areas, including risk management (33%), asset, software, and services supply chain management (27%), configuration management (26%), and data protection and loss prevention (25%). These planned investments suggest that while SaaS security may currently lack dedicated funding, organizations are starting to acknowledge its importance within their broader security strategy.



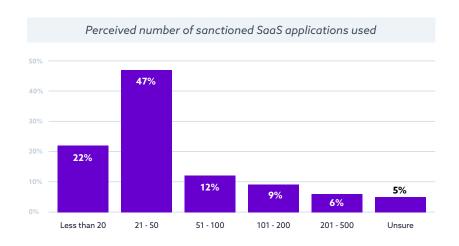
Mid-sized organizations face significant challenges in balancing cost, ownership, and coverage of use cases while addressing the unique demands of SaaS security. To strengthen their security posture, organizations must prioritize dedicated investments in specialized tools like SSPM and DSPM. Equally critical is aligning teams across IT, security, and business units to consolidate efforts and resources, ensuring a more cohesive and proactive approach to SaaS security. By addressing these barriers, organizations can build a more robust and cost-effective security strategy tailored to the complexities of SaaS environments.

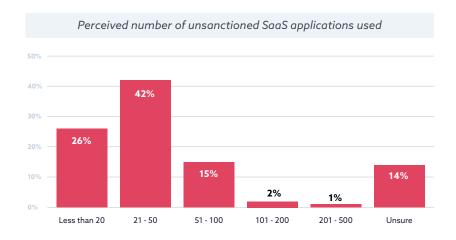
# **Full Survey Results**

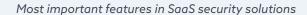
# **Overview**

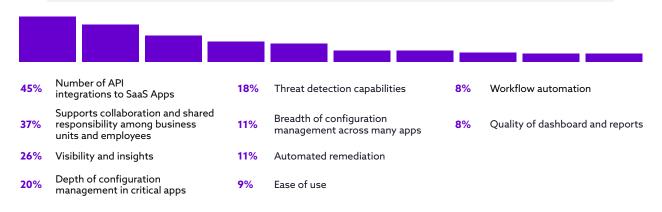




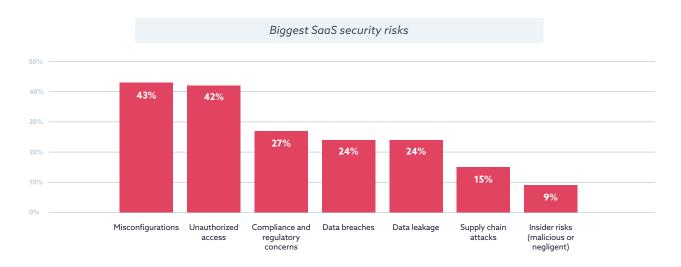


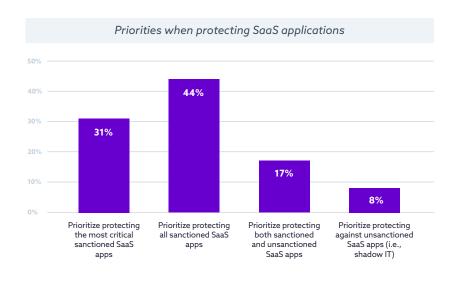


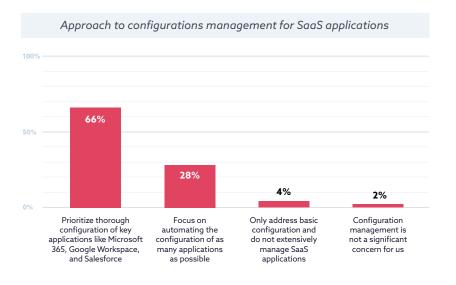


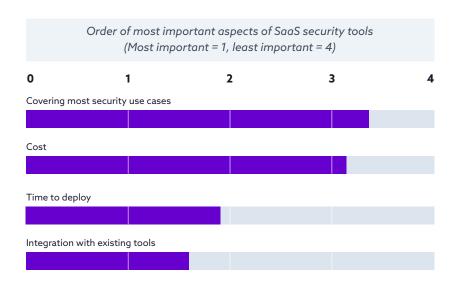


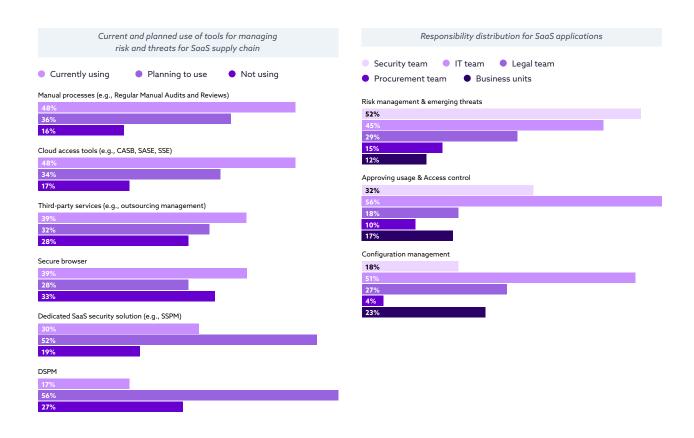
#### SaaS Risks

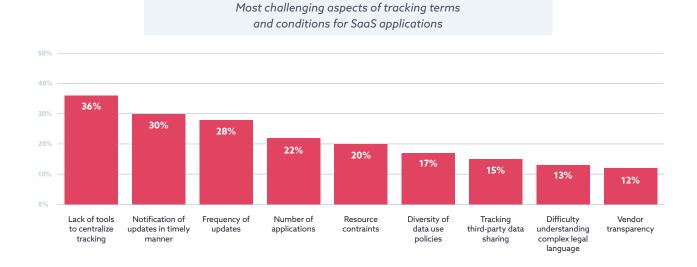








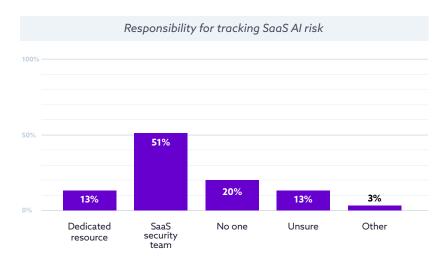




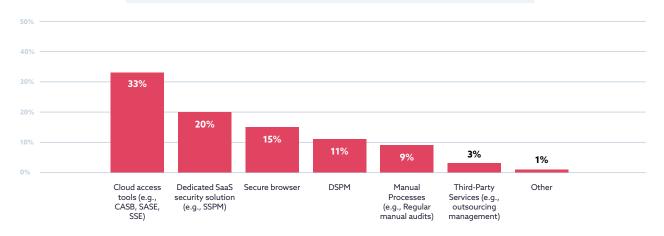
## Al Risks and Concerns in SaaS

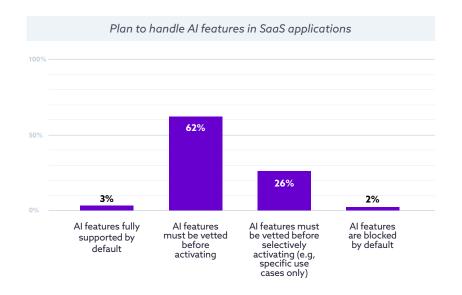






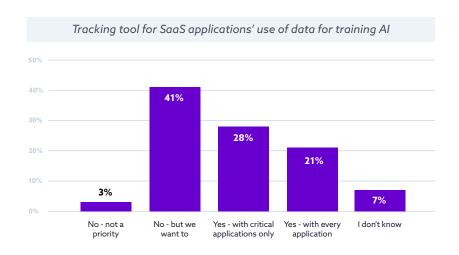






Does your organization prioritize productivity or data protection when it comes to Al-based apps?

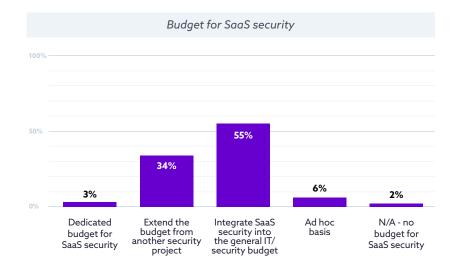
Productivity Neutral Data Protection



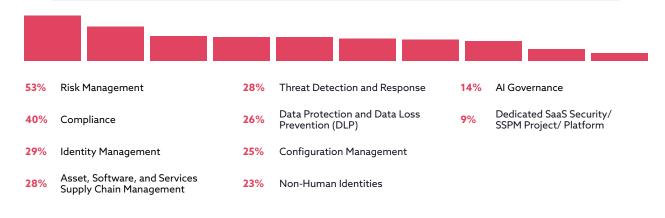




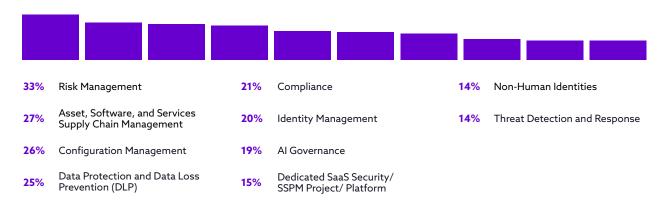
# **Budget and Plans for the Future**

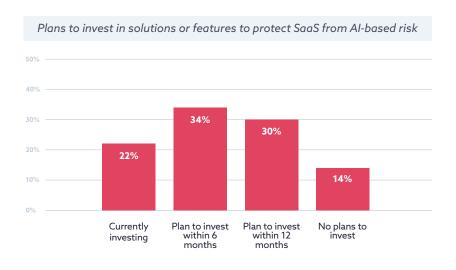


#### Security domains that currently have security budget



#### Security domains that will receive additional budget in the next 12 months

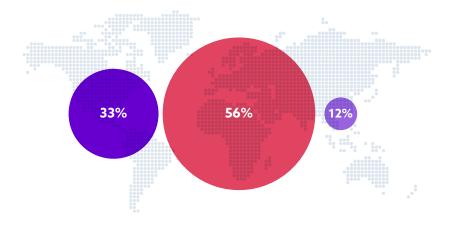




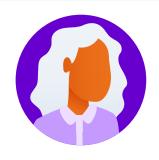
# Demographics

# What region of the world are you located in?

- Americas
- Europe, Middle East, Africa (EMEA)
- Asia Pacific (APAC)



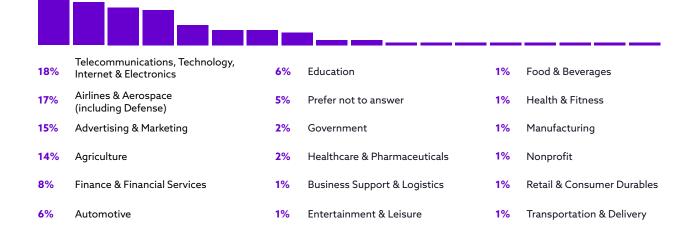
## What is the size of your organization?



**100%** 251 - 2500 employees



Which of the following best describes the principal industry of your organization?



# Survey Methodology and Creation

The Cloud Security Alliance (CSA) is a not-for-profit organization with a mission to widely promote best practices and ensure cybersecurity in cloud computing and IT technologies. CSA also educates various stakeholders within these industries about security concerns in all other forms of computing. CSA's membership is a broad coalition of industry practitioners, corporations, and professional associations. One of CSA's primary goals is to conduct surveys that assess information security trends. These surveys provide information on organizations' current maturity, opinions, interests, and intentions regarding information security and technology.

Wing Security commissioned CSA to develop a survey and report to better understand the industry's knowledge, attitudes, and opinions regarding SaaS security and its challenges with AI features within the SaaS stack. Wing Security financed the project and co-developed the questionnaire with CSA research analysts. The survey was conducted online by CSA in October 2024 and received 406 responses from IT and security professionals from organizations of various sizes and locations. CSA's research analysts performed the data analysis and interpretation for this report.

### Goals of the Study

This survey aims to provide a comprehensive understanding of the challenges and opportunities mid-market organizations face in securing their SaaS environments. The specific goals include:

#### 1. Understanding Strategies and Priorities for SaaS Security

Explore how organizations approach securing their SaaS applications, including the tools and methods they rely on, key focus areas, and the extent to which they prioritize visibility, configuration management, and automation.

#### 2. Examining Concerns Around Al Risks in SaaS

Assess the level of concern organizations have regarding the integration of AI within SaaS applications, particularly around data protection, intellectual property, compliance, and other emerging risks. Identify how these concerns influence current security practices and strategies.

#### 3. Evaluating Resources Available for SaaS Security

Analyze the resources organizations allocate to SaaS security, including the size and structure of security teams, the distribution of responsibilities across IT, security, and business units, and the extent of reliance on manual processes versus automation.

#### 4. Exploring Plans and Budgeting for SaaS and Al Security

Investigate future plans for SaaS and AI security, including budget allocation, adoption of specialized tools such as SaaS Security Posture Management (SSPM), and strategies for addressing gaps in visibility, risk management, and compliance.