REPORT

Organizations Require a New Approach to Handle Investigation and Response in the Cloud





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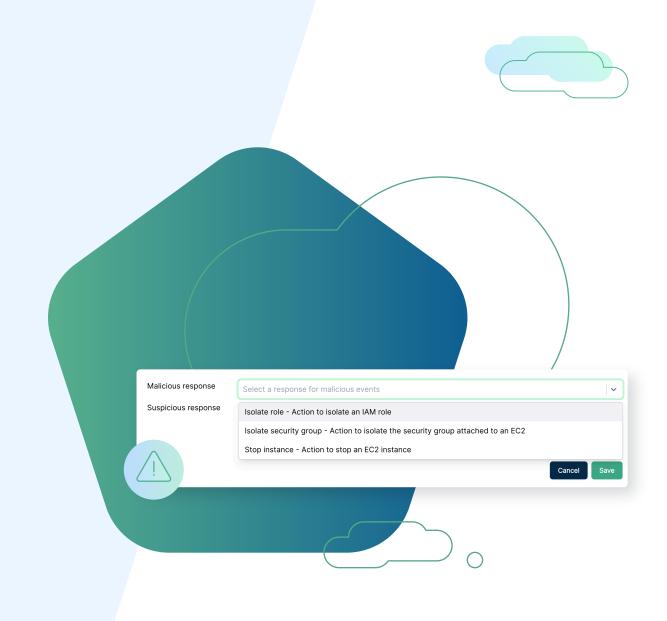
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Introduction

Incident response today is too time consuming and manual, leaving organizations vulnerable to damage due to their inability to efficiently investigate and respond to identified threats. The incident response challenge is further complicated as enterprises rapidly deploy cloud and container-based technologies and embrace a multi-cloud strategy.

Organizations have come to realize a new approach is required to handle investigation and response, especially amidst the growing number and scope of incident reporting mandates across the globe and to navigate the intricacies of cloud and container-based environments.





Delays in Investigation Result in Damage

When it comes to incident response, time is of the essence. Yet today, using traditional approaches, investigations are far too complex, time consuming, and reliant on expert talent. This has resulted in a gap between event detection and investigation and response. Consequently, nearly 90% of organizations have suffered some level of damage before they were able to investigate and contain incidents in the cloud. Further, nearly half of that damage was reported as significant. This underscores the urgent need for more streamlined and efficient incident response strategies specifically for cloud environments.



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of organizations have experienced significant damage from a cloud incident alert that didn't get investigated



Top Factors Contributing to Investigation Delays

One of the primary contributing factors to investigation delays was reported as a lack of visibility and control over cloud environments. Digging deeper, the lack of visibility and control was fueled by the need to leverage multiple tools and platforms for cloud-based investigations, especially in scenarios where resources are deployed across multiple cloud service provider platforms.

Furthermore, a lack of cloud-specific knowledge also contributed to this, as traditional incident response approaches when applied to the cloud require a deep level of cloud expertise. Unfortunately, hiring top security talent is already extremely challenging, but finding security experts with in-depth knowledge of cloud infrastructure is an even more daunting task.

36%

of organizations report lack of visibility and control over cloud environments was the biggest challenge faced when it comes to timely investigation and response to cloud-based threats

82% of organizations use multiple platforms and/or tools to perform forensics investigations in the cloud



Other operational challenges when responding to cloud-based threats:



45% of organizations report lack of integration of security tools across multiple cloud platforms



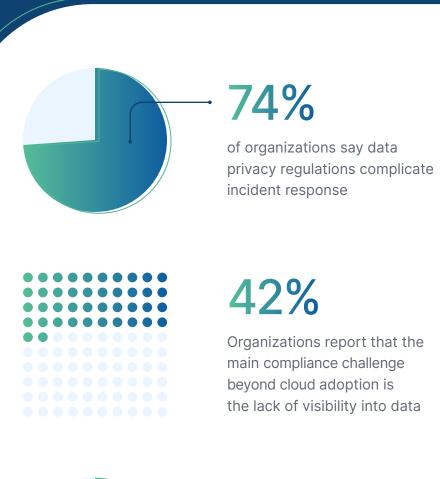
34% of organizations report limited cybersecurity skills specific to cloud technologies

Biggest Compliance Challenges

Security teams are facing escalating pressure due to the increasing scope and number of regulatory reporting requirements worldwide, as non-compliance can result in substantial fines and significant damage to a company's reputation and revenue.

The lack of visibility into data was reported by respondents as the number one challenge when it comes to an organizations ability to meet regulatory demands. While over 70% of cybersecurity leaders say data privacy regulations complicate incident response, just over one third of respondents reported actually being fined for failing to meet regulatory requirements.

As more organizations adopt modern strategies for incident response, especially for cloud-based environments, and regulators increase their focus on cloud security, it will be interesting to see how these numbers change in the future.

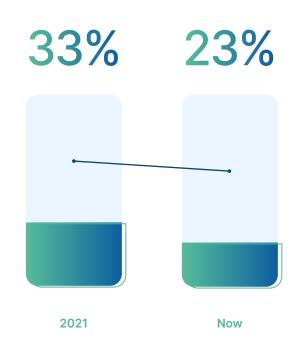




Organizations are Enhancing Their Cloud Investigation Capabilities

While businesses have rapidly migrated to the cloud, threat actors have developed specific tools and techniques to exploit cloud environments. With an uptick in cloud-based threats, it has become clear that organizations require new techniques to better secure against evolving threats.

Based on a similar survey conducted in 2021, the amount of cloud alerts that went uninvestigated has decreased, indicating that organizations have slightly improved their ability to perform investigations in cloud-based environments.



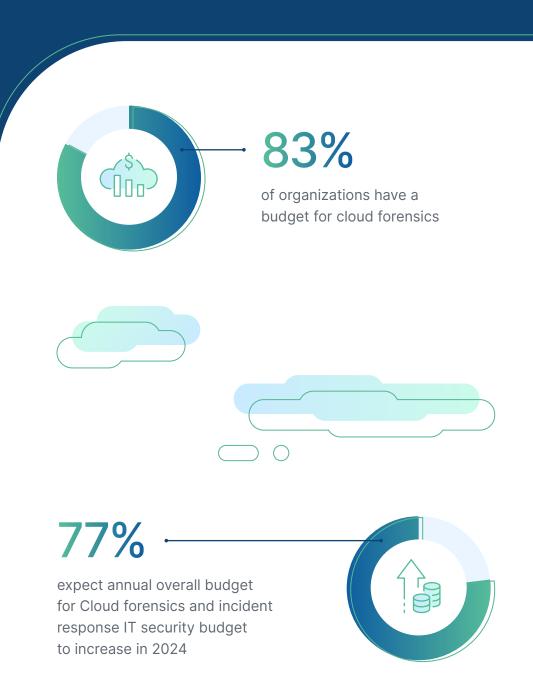
Organizations report that 23% of cloud alerts are never investigated, compared to over 33% in 2021, indicating that organizations have slightly improved their ability to handle investigations in the cloud



Organizations Have Budgeted for Cloud Forensics

The visibility challenges associated with investigation and response in the cloud has organizations increasingly turning to forensics tools. To this end, a majority of organizations (83%) have allocated budget for cloud forensics specifically.

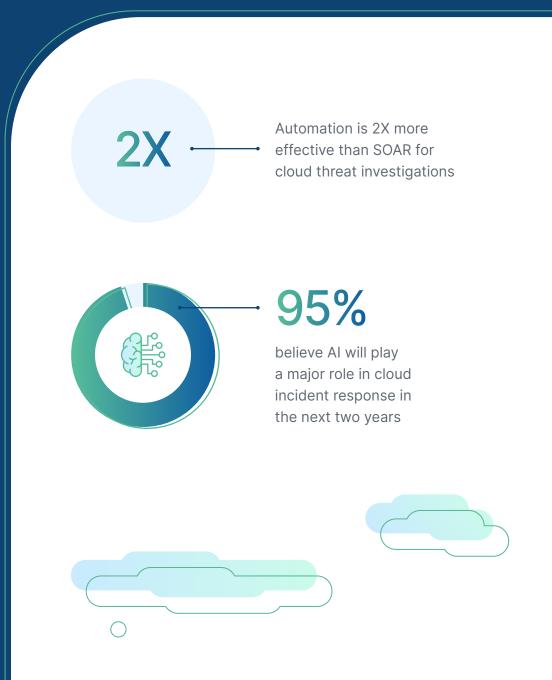
Further, 77% of organizations noted that they expect this overall budget to increase in 2024. This investment emphasizes the growing importance of forensics capabilities in managing cloud security.



Future Strategies for Cloud Investigation and Response

Organizations are exploring various strategies to perform investigation and response in cloud environments. Naturally, security teams have attempted to leverage existing tools, such as SOAR (Security Orchestration, Automation, and Response) platforms to address these challenges. However, findings indicate that incident response automation is twice as effective as SOAR for cloud investigations.

While prioritizing the implementation of automation to enhance an organization's ability to address cloud threats is crucial, this automation must be specifically customized for incident response, rather than applying general automation solutions. Additionally, a large majority of organizations (95%) believe that artificial intelligence will play a major role in cloud incident response in the near future.



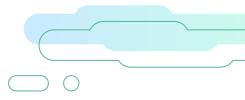
About Cado Security

Cado Security is the provider of the first investigation and response automation platform. The platform leverages the scale and speed of the cloud to automate the end-to-end incident response process – from data capture and processing to investigation and response. Cado enables security teams to gain immediate access to forensic-level data in multi-cloud, container, serverless, SaaS, and on-premises environments. The platform was built to empower security analysts of all levels by automatically highlighting the most important events related to an incident, including its root cause, scope, and impact. The Cado platform supports investigation, remediation, and incident preparedness use cases.

With Cado, security teams can investigate any system. Anywhere. Anytime.

Request a Demo





Research Methodology

This survey was conducted in collaboration with TrendCandy and surveyed 300 security decision makers working in organizations based in the United States and United Kingdom. To qualify for this survey, respondents had to be manager level and above, working within either information security or cyber security, and involved in cloud security. Further, surveyed organizations had to use public clouds (e.g. AWS, Azure, GCP) for its business operations.