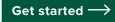


Identity Controls Are Central To Enterprise Plans For Cloud Security

To Scale Cloud, Companies Are Looking At CIG/CIEM, Al Monitoring And Investigation, Automation, Access Reviews, And Remediation



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Cloud Is Accelerating, Can Security Keep Up?

Modern enterprises in highly competitive markets can no longer ignore the cloud's significant benefits for operations, staffing, and security. However, as cloud migration of business-critical applications and workloads continues to increase, so too do security threats to increasingly complex public cloud environments. IT decision-makers (ITDMs) facing breaches and security incidents are also struggling with access control policies, manual processes, and challenges managing cloud identities. To keep up with cloud acceleration, firms are looking to Al-powered solutions, smarter cloud identity governance (CIG), and cloud infrastructure entitlements management (CIEM) tools.

In January of 2022, Sonrai Security and Amazon Web Services (AWS) commissioned Forrester Consulting to explore the current state of cloud security, surveying 154 North American IT and security decision-makers about their current solutions and future expectations.

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Key Findings



ITDMs recognize the need to implement security solutions that scale alongside cloud acceleration but struggle to keep up, especially in identity and permissions management.



Running several separate security solutions in the cloud is not getting the job done; firms are still experiencing security incidents and breaches.

Security solutions that incorporate CIG/CIEM, utilize AI to automate processes, and integrate into all major cloud platforms will enable firms to continue scaling in the cloud safely and securely.

IDENTITY CONTROLS ARE CENTRAL TO ENTERPRISE PLANS FOR CLOUD SECURITY

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Cloud Is Continuing to Grow In Importance

Cloud is increasingly important to business-critical workloads and applications. From customer-facing web and mobile applications to internal software creation platforms and tools, firms are currently running an average of six diverse applications and/or workloads on cloud platforms.

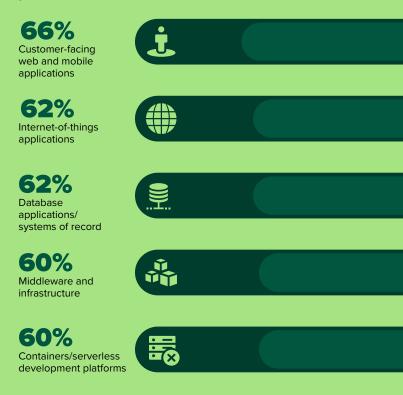
More than three-quarters of ITDMs surveyed agree that rightsizing and scaling in the cloud are critical drivers of success. The cloud is only continuing to grow in importance, as nearly a quarter of respondents note that they are accelerating the execution of their cloud migrations.

76% of respondents agree that rightsizing and scaling in the cloud are critical to success.



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"Which of the following applications or workloads is your organization currently running in a cloud platform?"



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Uncontrollable Cloud Identities Are Causing IT Headaches

Nearly 80% of decision-makers surveyed note that the increase in cloud migrations is requiring a new set of security solutions. As the cloud's presence grows across workloads, the complexity of cloud workload configurations grows as well. This results in firms being more susceptible to security incidents. Over half of all surveyed decision-makers note that they are struggling with machine and nonpeople identities running rampant in the cloud. Decision-makers are also keenly aware that keeping cloud environments secure and permissions up to date requires integrating new identity and access management (IAM) tools.

"Please state your level of agreement with the following statements."

(Showing "Agree"/"Strongly agree")

79%

Increased cloud migrations are requiring a new set of security solutions

74%

Λ

Increased cloud migrations are requiring new IAM solutions

56%

Machines and nonpeople identities are out of control in the cloud

Security Solutions Are Not Unified

ITDMs are running an average of six different tools or features to secure their public cloud environments. Forrester expects that this large variety of tools indicates that no single solution can cover all security, functional, and multi-cloud coverage requirements. This variety of security tools and features signifies that firms are struggling to keep up with the evolving security needs of public cloud environments, adding new solutions as concerns arise and attempting to manually integrate tools together to form an ad hoc security suite. Over half of respondents' firms are currently using CIG/CIEM solutions as part of their security strategy, indicating that governance and identity entitlement management, mapping permission paths, and access control are known solutions for securing public cloud environments.

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"What tools/features do you currently use to keep your public cloud environment secure?"

53%





55%

Key management, encryption, and tokenization of data Cloud threat monitoring and management with Al-driven response

52%

Cloud platform service provider's native security controls

51%

Cloud access security broker (CASB)

50%

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More Security Tools Do Not Equal A More Secure Cloud

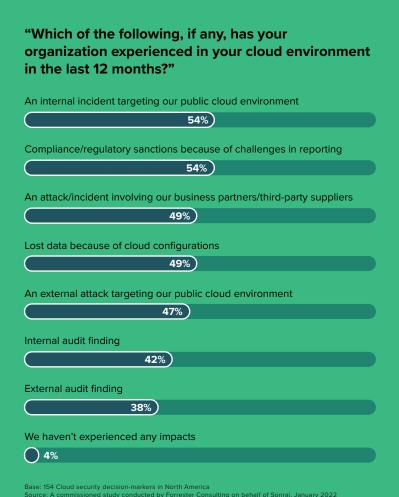
Despite the multiple tools currently in use to secure their public cloud environments, 96% of decision-makers report that their organizations faced security incidents in the last 12 months. Compliance and regulatory sanctions due to reporting challenges and internal incidents are the most common issues reported by survey respondents, but they also note experiencing data loss, external attacks, and third-party incidents. Incidents across so many diverse types of cloud-hosted workloads and applications indicates that something is missing from firms' current data security operations. Stacking one tool on top of the other can only get security so far, with incidents slipping through the cracks in the pile.

96% of decision-makers' organizations have faced a security incident in the past 12 months.



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Confronting CIG/CIEM Challenges

An astounding 98% of ITDMs report that they are facing CIG/CIEM-adjacent security challenges. Some of the most reported issues stem from overly complex access control policies, which make configuring fewer privileges among cloud identities nearly impossible to accomplish. Legacy tools that cannot integrate well, or at all, in the public cloud environment enable the persistence of short-lived identities and the proliferation of unrecognized nonpeople and machine identities. At the same time, firms are experiencing difficulties seeing a single view of cloud platform identities. This is a space in need of big changes to meet the evolving needs of firms as they scale in the cloud.

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"Which of the following, if any, CIG/ CIEM challenges is your organization facing?"

Legacy tools that are unable to integrate well or understand short-lived identities in the cloud	45%
Overly complex access control policies that make configuring less privilege almost impossible	41%
Difficulties with regulatory compliance	40%
Difficulty seeing one single view of cloud platform identities	40%
Overprivileged cloud admin users	40%
STOM STUDY COMMISSIONED BY SONRAI SECURITY AND	Base: 154 Cloud security decision-markers in North America

Source: A commissioned study conducted by Forrester Consulting on behalf of Sonrai, January 2022

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Al Is Emerging As The Way Forward

As ITDMs pinpoint the objectives of their cloud security programs, Al-driven solutions are emerging as a top priority. Half of our survey respondents note the necessity of Al-driven investigation or behavioral detection programs to better their current security programs. Decision-makers also want to empower faster innovation for development teams and automate security processes. These priorities point to a similar goal: ITDMs want to get ahead of issues and respond to them quickly.

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"What are the top objectives of your organization's cloud security program?" (Ranked in top 5)

50% Employ better Aldriven investigation or



Employ better Al-
driven investigation or
behavioral detectionCreate a faster path
to innovation for
development teams



Effectively automate cloud security processes



Develop better employee experience with seamless access and sign-on



Secure container and server workload infrastructure

Create a concise ecosystem of security tools and technologies to manage our cloud

Conclusion

ITDMs Have Great Expectations for CIG/ CIEM Solutions

Over half of ITDMs' firms are already investing in a CIG/CIEM solution, and by 2023, 82% are planning to do the same. They expect a CIG/CIEM solution to help with their compliance difficulties, improve employee experience, and reduce complexities to IAM — many of the same top security goals they note earlier in the survey.

ITDMs want their ideal CIG/CIEM solution to understand and detect changes across a minimum of five different scenarios most commonly cloud-native encryption key management, cloudnative access key management, data stores deployed on top of cloud platform-as-a-service (PaaS) solutions, data stores deployed on cloud infrastructure, and infrastructure-as-a-service (IaaS) serverless functions. 9



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Integration, Automatic Right Revoking Are The Top Features ITDMs Look For In A CIG/ CIEM Solution

ITDMs expect their CIG/CIEM solutions to integrate with all the major cloud platforms and perform automatic rights revoking and monitoring tasks.

As the cloud becomes an evermore central part of their growth strategies, organizations are recognizing that consistent, automatic monitoring and revoking of rights across all the cloud platforms they use with a single-pane-of-glass tool is critical to keep their clouds secure and tamp down on sprawl. Additionally, Al-based anomaly detection and in-depth integration with all public cloud platforms are critical features of a CIG/CIEM solution. "How important are each of the following features/ functions in a CIG/CIEM solution?"



Conclusion

As organizations continue to increase their usage of the public cloud, ITDMs face increased challenges managing the security of their cloud instances, including applying the correct settings and/or configurations at scale. With the growing number of cloud services, roles, and policies written in code, there is exponential growth in potential permission controls. To better meet these needs, ITDMs are looking toward CIG/CIEM solutions, Al-powered monitoring and investigation, and better automation of time-consuming manual workflows for investigation, access reviews, and remediation. With the majority of respondents either using or planning to use CIG/CIEM solutions in the near future, it is clear that ITDMs view cloud identity management as an essential component of a cloud security program that enables firms to continue successfully and securely scaling in the cloud.

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Methodology

This Opportunity Snapshot was commissioned by Sonrai Security and Amazon Web Services (AWS). To create this profile, Forrester Consulting supplemented this research with custom survey questions asked of 154 cloud security decision-makers in North America at organizations that were using public cloud deployments at the time. The custom survey began and was completed in January 2022.

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Demographics

United States82%Canada18%RESPONDENT LEVELC-level executive5%Vice president12%Director82%	
RESPONDENT LEVEL C-level executive 5% Vice president 12%	400/
C-level executive5%Vice president12%	18%
C-level executive5%Vice president12%	
Vice president 12%	
	5%
Director 82%	12 %
	82%

COMPANY SIZE

1,000 to 4,999 employees	42 %
5,000 to 19,999 employees	55%
20,000 or more	3%

CURRENT CLOUD SECURITY STRATEGY

We have implemented various cloud security point solutions or controls, but we lack a holistic strategy	65%
We have a clear, documented, and periodically updated cloud security strategy	35%

Opportunity

Forrester