Implement Security For Cloud Superiority

An IDC Infographic, sponsored by ExtraHop

THE CLOUD IS MAINSTREAM

Based on IDC surveys:



Companies adopt public cloud to:

- Improve business agility
- Enhance IT security
- Simplify and standardize IT infrastructure and application platforms

Security divides organizations when it comes to cloud:

40.5% say security is a leading driver for public cloud adoption





cite security concerns as the top inhibitor of public cloud adoption

REALITY CHECK: CLOUD SECURITY IS UNCHARTED TERRITORY



Threats are adapting to the cloud era:



Infrastructure vulnerabilities



Unauthorized access





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"Uber leaks data for 57 million users, fined \$460,000"

"Organizations undergoing a major cloud migration at the time of a breach saw a cost increase of \$300,000, for an adjusted average cost of \$4.22 million."

Ponemon Institute, Cost of a Data Breach Report 2019



Cloud creates organizational challenges:

- Loss of centralized control/visibility of data and workloads
- Inconsistent policies and protections
- Overburdened IT staff can't keep up with security incidents

Not all data/workloads are appropriate for cloud due to privacy, security, or regulatory considerations:

of organizations report cloud

repatriation activities

cite security as the leading reason for cloud repatriation

CLOUD SECURITY: LESSONS LEARNED

Organizations' initial approach to cloud security analytics misses the mark:



47% initially extended an existing on-premises solution to the cloud or purchased a solution from a current vendor



cloud architecture

Course corrections are required:



- 34% of organizations have changed how security analytics are applied to cloud architecture at least once
- 23% have changed their approach multiple times

Only 6% are NOT considering a change

Cloud security must be practical:



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• 57% of organizations change cloud strategies to standardize on-premises and cloud security analytics tools

Top considerations for making cloud security decisions:

EASE OF USE: 33% **COST: 28%**

THREE STEPS TO CLOUD SECURITY SUCCESS

Adopt a cloud-native approach



70% of new enterprise applications will be developed cloud-native by 2021. Security tools balancing cloud-native functionality with support for multiple cloud services will be required to fully protect future computing environments.

 39% of organizations rated security analytics as the most popular new technology for cloud security. Cloud-native security analytics tools are emerging as a vital capability for SOCs.

Integrate and consolidate tools to enable automation 2



To secure the cloud, organizations favor flexible solutions that fill more than one purpose (36%) and ease of integration (32%).

- In making cloud security decisions, important considerations are access to similar information as provided on-premises (29%) and reducing the number of security tools (19%).
- Only 12% of organizations are clearing all alerts—many worry about what they may be missing.
- 18% of respondents rated automation and orchestration as one of the most important new security technologies.

Align to security frameworks



The NIST Cybersecurity Framework (CSF) helps enterprises evaluate and assess the strength of their security programs.

- IDC estimates that over half of Fortune 500 companies are adopting NIST as their primary control framework.
- The Center for Internet Security (CIS) Controls are a set of practices that align to NIST CSF and define concrete steps to mitigate cybersecurity risk.
- CIS Benchmarks provide secure configuration guidelines for over 140 platforms including

THE CLOUD SECURITY FORMULA

Comprehensive cloud security requires the combination of 3 data sources:



Network/NDR

- Offers network traffic analysis for complete visibility
- Provides inside-the-perimeter security



Endpoint/EDR

- Provides deep insights into system activities and events taking place on endpoints
- Detects incidents on the perimeter



Logs/SIEM

- Collects and analyzes log data
- Consists of very mature tools

Sources: IDC Cloudview, May 2018; IDC Cloud and AI Adoption Survey, January 2018; IDC FutureScape: Worldwide Cloud 2019 Predictions, Nov. 2018



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