

Cybersecurity Quarterly Update

SECOND QUARTER 2023

Global Cybersecurity Team

U.S. Cyber Team



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Chris Hebble

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Los Angeles

Financial Sponsors

26
Senior Bankers
Covering

~1,400

Investors



Cybersecurity Technology Expertise

Stephen Lee
Managing Director
Tech and Cyber Due Diligence
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Executive Summary: Q2 2023 in Review

- Tepid market conditions persisted into Q2 as M&A volume declined vs. the same period in both 2022 and 2021 while the financing environment saw a decline in both volume and number of deals vs. the past two vears.
- Uncertainty remains the headwind to dealmaking given ongoing macroeconomic pressures (e.g., inflationary pressures, high interest rates, recession concerns, etc.), though many are optimistic for stabilization and a rebound in activity later in 2023 or in early 2024.
- Nonetheless, the 65 M&A deals in Q2 '23 remain in line with the past two years, likely driven by lower value tuck-in deals given the decline in announced deal value (i.e., average 83% decline vs. Q2 '22 and '21).
- The cybersecurity ecosystem continues to see exciting developments and delivers high-impact solutions, which will attract buyer and investor attention.

Q2 2023 Report Themes



Integration of generative AI capabilities remains a strategic imperative as organizations look to automate processes.



Continued shortage of cybersecurity talent remains a bottleneck, driving a focus on training and upskilling.



Enterprises looking to transition to the cloud require innovative security solutions in order to ensure smooth operations.

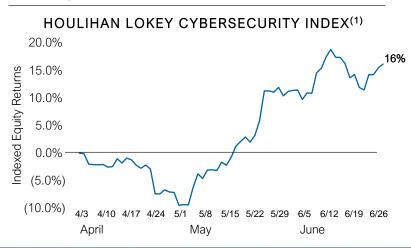


Cybercriminals exploiting new vulnerabilities as attack surface continues rapid expansion.



Security teams look to deploy more tools to combat the increasing velocity of cyberattacks.

A Strong Quarter for Public Companies



M&A Volume Substantially Drops From 2022 Levels

	Q2 '23	VS. Q2 '22	VS. Q2 '21
Volume	\$3.7B	3 (82)% ⁽³⁾	4 (84%)
# of Deals	65	7 2%	0%

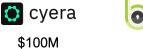


ARCHER \$1,3B

/ABSOLUTE \$870M

Financing Levels Continue to Decline

	Q2 '23	VS. Q2 '22	VS. Q2 '21
Volume	\$2.0B	3 (69%)	4 (72%)
# of Deals	201	3 (27%)	3 (30%)







Source: S&P Capital IQ as of June 30, 2023.

Houlihan Lokey

Houlihan Lokey Cybersecurity Index includes S, CRWD, ZS, PANW, FTNT, GEN, OKTA, BB, TENB, RPD, CYBR, DARK, QLYS, RSKD, ABST, MITK, WITH, FSECURE, AVGO, OTEX, SPLK, FFIV, CHKP, 4407, SWI, SCWX, CGNT, OSPN, and TLS.

Case Study: Houlihan Lokey Advises Armorblox Through High-Profile Cisco Acquisition



Sellside Advisor

Quick Facts

Headquarters: Sunnyvale, CA

Cisco

- Management:
 - CEO/Co-Founder: DJ Sampath
 - CPO/Co-Founder: Anand Raghavan
 - Chief Architect/Co-Founder: Arjun Sambamoorthy
 - Chief Data Architect/Co-Founder: Chetan Anand
- Customers: 58K+
- Total Funds Raised: \$60M

Profile

- Armorblox, founded in 2017, secures enterprise communications over email and other cloud office applications and protects critical business workflows from compromise.
- Armorblox leverages deep learning algorithms, ML models, data science approaches, computer vision, and LLMs like GPT to understand the context of communications.
- Cisco delivers innovative software-defined networking, cloud, collaboration, and security solutions.
- The Security Business Group continues to grow and is focused on cloud-based security,
 Al-driven threat detection, and end-to-end security architectures.



Rationale

- This transaction will allow Cisco to leverage Armorblox's use of predictive and generative AI across its portfolio, unlocking broad security use cases beyond email and changing the way its customers understand and interact with its security control points.
- The Armorblox team will join the Security Business Group, where they will work closely to bring generative Al-powered experiences to Cisco's Security Portfolio.
- Raj Chopra, SVP and Chief Product Officer of the Security Business Group, highlighted how Cisco is taking an exciting step forward in executing its plans for an AI-first security cloud with its acquisition of Armorblox, a company that has pioneered the use of LLMs and natural language understanding in cybersecurity.

Our Role

- Houlihan Lokey served as the exclusive sellside advisor to Armorblox.
- This transaction underscores the team's deep domain expertise and continued success advising clients in the cybersecurity sector.
- Houlihan Lokey worked collaboratively with management to strategically position the business, including developing materials on the expansive potential of Armorblox's technology within the Cisco security portfolio in support of Cisco's internal business case, which was instrumental in securing the requisite buy-in.



Table of Contents Perspectives From the Front Capital Markets and Trends Update Conferences and Events About Houlihan Lokey Appendix

Perspectives From the Front



Anvilogic: Generative Al Innovation in Detection Engineering Enables Modern Security Data Lake Adoption

Cyber Research Summary

2023 Prediction Tracking

Data Breaches



Create a Bridge for Legacy SIEM and Security Data Lakes

Anvilogic is a detection engineering and threat hunting platform that helps facilitate modern security data lake adoption by lowering the barrier to entry for data engineering skills, allowing SOC teams to adopt a flexible, scalable data lake strategy, and eliminating language barriers to rapidly detect threats across disparate data sources.

Improve Detection Coverage and Efficacy

Generative AI models are trained on normal behavioral patterns and mapped to MITRE ATT&CK, enabling SOC teams to better identify anomalies and potential threats in large-scale data more efficiently, leading to faster incident response and reduced false positives.

Reduce Cost and Time to Detect

Rebalance legacy SIEM and data monoliths to reduce costs and achieve more effective security operations by leveraging a security data lake that enables teams to more efficiently collect, normalize, enrich, and deploy quality detections across modern cloud and hybrid data lake architectures for enhanced security operations.

Increase Efficiency and Scale

Reduce detection development times and enhance response efficiency by leveraging an AI co-pilot that helps teams develop and deploy accurate, complex pattern-based detections in minutes across data platforms without requiring extensive software engineering or tool expertise, freeing up SOC teams for critical tasks.

snowflake

ChatGPT is already helping security data lake adoption. While security data lakes are known to be up to 90% more cost-effective than legacy SIEMs as a data platform, they require data skills that are still rare in security orgs.

I've been particularly impressed with how Anvilogic created a detection engineering Al assistant that takes a question in plain English ("Where do we have PowerShell events that connect with a remote IP?") and converts it to SQL for use in threat detection. This is the kind of product innovation that takes the raw potential of Snowflake for cybersecurity and democratizes it in a way that any size team can benefit.

Omer Singer, Head of Cybersecurity Strategy, Snowflake



77%

Of surveyed security decisionmakers desire **new ways to engineer detection rules**.



60%

Of security professionals surveyed feel the time spent on detection engineering is more valuable than nearly any other activity that time could be used on.



57%

Of surveyed security decision-makers feel their organization needs a transformational or moderate amount of change in its SOC to mitigate business threats (over the next 12–24 months).

Scale Venture Partners: Cybersecurity Perspectives 2023

Cyber Research Summary

2023 Prediction Tracking

Data Breaches

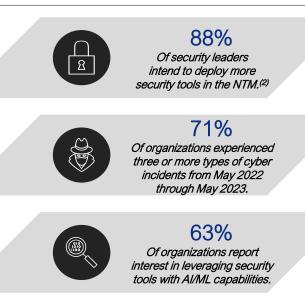
Critical Takeaways

- Identity and access management (IAM) has become increasingly important to enterprises, especially as they navigate the transition to the cloud.
- Enterprises are experiencing a greater velocity of security incidents as adversaries develop new attack mechanisms, reducing the efficacy of cybersecurity defenses.
- Al/ML applications present both opportunities and threats for security teams as automation of security processes becomes an organizational priority.
- Persistent shortages of cybersecurity talent contribute to concern regarding the organizational ability to prevent and respond to cyberattacks and threats.

Perceived Security Solution Gaps⁽¹⁾

"Importance" vs. "Satisfaction" for Commercially Available Cybersecurity Tools Network Security 52% 73% IAM 53% Cloud Infrastructure Security 44% 68% Cloud Application Security 36% 64% CI/CD Security 35% ■ Importance Satisfaction

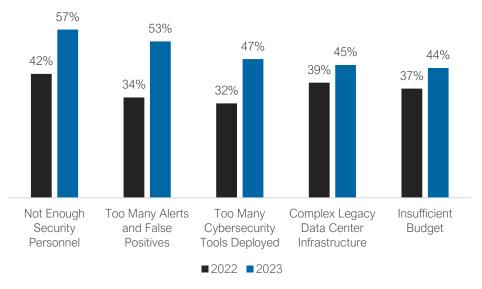
Key Stats



Resource Gaps

- The market for cybersecurity talent remains scarce—enterprise security leaders indicate an inability to attract, hire, and retain enough skilled cybersecurity professionals to fill their security needs.
- Security leaders report an erosion of cybersecurity efficacy, identifying a widening technological gap between threat actors and cyber defenses: only 48% of security leaders indicated their cybersecurity defenses were effective against common security threats.
- Midsized enterprises see a significant drop in budget growth, raising concerns about their ability to address current and emerging cybersecurity threats.

Security Posture Challenges Increasing vs. Prior Year



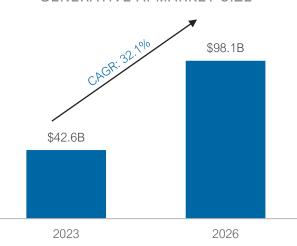
Generative AI in Cybersecurity

Cyber Research Summary

Generative Al Represents Massive Potential

- Already a large market opportunity, the generative AI market is expected to grow at a 32.1% CAGR between 2023 and 2026 based on current enterprise use cases.
- Generative Al-relevant use cases already present a significant enterprise opportunity—estimated to reach \$42.6 billion in 2023—with natural language interfaces offering the largest market due to customer service and sales automation use cases.
- The potential of generative AI to expand the total addressable market of AI software to consumers and new user personas in the enterprise represents an additional upside to current forecasts.

GENERATIVE AI MARKET SIZE



2023 Prediction Tracking

Selected Current Use Cases



Threat Intelligence and Prediction

 Models can analyze massive amounts of historical data and generate insights that aid in predicting and understanding emerging threats.



Detecting Generative AI Text in Attacks

 Identifying Al-generated text in attacks can help to detect phishing emails, polymorphic code, and atypical email address senders, checking if underlying links in text lead to known malicious websites.

0101010 1010101 01(AI)0

Anomaly Detection

 LLMs aid in anomaly detection by modeling normal system behavior and identifying deviations from established patterns.

Industry-Wide Adopters of Generative Al



Generative AI in Cybersecurity Report



Data Breaches

For detailed information please see Houlihan Lokey's recent report:

Generative AI: The Next Frontier in Cybersecurity

Cyber Research Summary

2023 Prediction Tracking

Data Breaches

OUR PREDICTIONS

Hackers-for-Hire



- With the expectation of a global recession, there is a risk of an increasing supply of hackers-for-hire in search of pay.
- The proliferation of cybercrime worldwide and the use of software-as-a-service models permit criminals to share tactics easily, lowering the barrier to entry for less experienced hackers.

Supply Chain Risks



- Nearly 40% of organizations worldwide are expected to experience cybersecurity incidents within their supply chains.
- Application programming interfaces (APIs) are expected to continue to be tested, as organizations rely heavily on thirdparty partners.

WHAT HAPPENED

- Losses from cybercrime are expected to surge in the next five years, rising from approximately \$8 trillion in 2022 to approximately \$11 trillion in 2023 and potentially reaching approximately \$24 trillion by 2027.(1)
- 81% of cybersecurity experts believe that sophisticated ransomware attacks are on the rise, accompanied by an average cost of \$1.9 million per ransomware attack in 2023.(2)

- By 2025, 45% of enterprises across the globe will have suffered a software supply chain attack a threefold rise from 2021.(3)
- Organizations that closely align their cybersecurity programs to business objectives are 18% more likely to achieve target revenue growth and market share and improve customer satisfaction as well as 26% more likely to lower the cost of cybersecurity breaches/incidents. (4)

WHAT WE DID NOT PREDICT

Identity Fabric Infrastructure Will Be Critical for a Cloud Transition

The prevalence of remote work has prompted issues of user and endpoint tracking, demonstrating a need for identity orchestration software.



Packetlabs, "239 Cybersecurity Statistics (2023)."

What the market wants, what the buyers want, [and] what the customers want is...one integrated access management platform that will do access management across all the resources, apps, on-premise apps, cloud apps, [and] servers.

Todd McKinnon, CEO and Co-Founder, Okta

- Identity fabric is aligned with cybersecurity mesh architecture, which is perceived to be the enterprise security gold standard.
- Integrating identity fabric can mitigate cybersecurity risk, unify siloed applications, and simplify the user experience without sacrificing compliance or security posture.
- By 2027, identity fabric immunity principles will prevent 85% of new attacks and thereby reduce the financial impact of breaches by 80%. (5)

Sources: Gartner, "Top Strategic Cybersecurity Trends for 2023"; IBM, "Cost of a Data Breach Report 2022"; Grip Security,

- Accenture, "State of Cybersecurity Resilience 2023."

Infosecurity Magazine, "Reviewing the UK Government Call for Views on Supply Chain Threats."

"Identity Fabric: Why it's Important for Identity Security." World Economic Forum, "Here's what your organization needs to know about cyber insurance."

Gartner, "Gartner Identifies the Top Cybersecurity Trends for 2023."

Data Breaches: Intellihartx

Cyber Research Summary

2023 Prediction Tracking

Data Breaches

Breach Overview

Company Description:	Healthcare payments management
Date of Breach:	February 2023
What Happened:	Russian hacking group Clop exploited a zero-day vulnerability in a third-party MFT file transfer tool, affecting Intellihartx (ITx) and more than 130 other organizations, exposing sensitive information such as names, addresses, diagnoses, medications, and demographic information
Months Since Last	More than four months

Attack Methodology and Rationale



Clop exploited a pre-authentication remote code execution vulnerability in Fortra's GoAnywhere MFT, which ITx uses for patient file transfer, to gain access to a variety of sensitive data that could be used to extort the target using the threat of a public data release.



The data that was leaked is highly sensitive—beyond causing a loss of consumer trust for ITx, the nature of the compromised data could lead to future crimes, including identity theft.

The Outcome

The breach led to potential financial losses, reputational damage, and legal implications for ITx as well as necessitating the notification of all affected parties and the offering of credit monitoring services.



A patient has filed a class action lawsuit that seeks monetary damages for alleged violations of federal regulations, including the Health Insurance Portability and Accountability Act's security standards.⁽¹⁾



ITx learned of the Fortra problem on February 2 and started notifying those potentially affected on April 11.



ITx stated that is has implemented additional measures to harden security for its use of the GoAnywhere platform.

Key Stats(1)(2)

Breach at ITx:

Expert Opinions and Commentary



~490K

Total users affected



"Clop has been active since February 2019... Its characteristic ransomware-as-a-service (RaaS) TTP makes it one of the most successful ransomware groups in the past few years. Unlike other RaaS groups, Clop unabashedly and almost exclusively targets the healthcare sector. In 2021 alone, 77% (959) of its attack attempts were on this critical infrastructure industry."

— U.S. Department of Health and Human Services



 Healthcare is particularly vulnerable to cyberattacks, owing to their high propensity to pay a ransom, the value of patient records, and often inadequate security.⁽³⁾

Key Takeaways



Healthcare Organizations Continue to Be Targeted

Due to sensitive customer data, cybercriminals breach healthcare organizations with more frequency than targets in any other industry, recording 340+ breaches in 2022. (2)



130+

Organizations using the MFT file transfer tool targeted by the attack

Don't Be a Victim



Professionals recommend that cybersecurity teams in healthcare educate and train staff to reduce the risk of social engineering attacks, reassess enterprise risk against potential vulnerabilities, develop a cybersecurity roadmap, and implement a security plan.

- Sources: Bloomberg Law, "Health-Care Payment Firm ITx Sued Over File-Transfer Data Breach"; The HIPAA Journal, "Intellihartx Victim of Fortra GoAnywhere Hack: 490,000 Individuals Affected"; American Health Association, "HC3: Sector Alert."

 (1) Bloomberg Law, "Health-Care Payment Firm ITx Sued Over File-Transfer Data Breach."
- (2) Identity Theft Resource Center, "2022 Data Breach Report."
- (3) Department of Health and Human Services, "HC3: Sector Alert."

Data Breaches: MOVEit

Cyber Research Summary

2023 Prediction Tracking

Data Breaches

Breach Overview

Company Managed file transfer software Description: Date of Breach: May 2023 Ransomware group exposed vulnerability in file What Happened: transfer tool and stole sensitive user data Software $1.700^{(1)}$ Enterprise Users:

3.5 million⁽¹⁾

Attack Methodology and Rationale



The Russian-based Clop ransomware group claims responsibility for the data breaches, exploiting a zero-day vulnerability in the MOVEit software, allowing the group to access and extract sensitive user information.

The Outcome



- Progress Software, the provider of the MOVEit tool, issued a patch for the zero-day vulnerability and encouraged all customers to disable all HTTP traffic to MOVEit domains.
- NIST gave the incident a severity rating of 9.8 out of 10.



As typical with ransomware attacks, Clop stole sensitive information, seeking payment for its return or would otherwise release it.



- A subsequent series of SQL vulnerabilities were discovered in MOVEit, which Progress Software claims had not been exploited.
- Enterprises remain on alert, as the number of victims continues to increase, and the long-term ramifications are yet to be fully felt.

Key Stats⁽²⁾

Developer Users:

200+

Organizations impacted by the vulnerability

17.5M+ Potential customer data exposures

Expert Opinions and Commentary



"Nobody knows the full extent of this, and that's the way these cyber compromises work...Once you're compromised, there begins an arduous process of 'How far in did they get in?' and 'What did they take?' That's typically weeks, and sometimes months.'

- Robert Cattanach, Partner at Dorsey & Whitney
- Cyber experts believe that the ransomware group had been aware of the MOVEit file vulnerability for at least two years, meticulously planning a sophisticated approach that would inflict the most damage possible.

Key Takeaways



More Adoption of Active Defense Solutions Required Companies will increasingly adopt active defense solutions

that can quickly identify a malicious actor, disable access, and quickly identify and restore compromised data.



Routine Maintenance and Increased Visibility

Organizations need to engage more proactively in security assessments and invest in applications that provide a greater level of visibility into security posture.

33 Data breach disclosures

Capital Markets and Trends Update



Cybersecurity Dashboard

Public Market Environment

Strong Q2 performance from the sector, especially lowergrowth businesses with strong profitability profiles, demonstrates a public market focus on efficient growth.



High-Growth Index Performance(1) **7** 15.9% | **3** (9.7%) Q2 '23 | LTM



Medium-Growth Index Performance⁽²⁾ **7** 9.6% | **7** 12.8% Q2 '23 | LTM



Low-Growth Index Performance(3) **7** 20.6% | **7** 40.3% Q2 '23 | LTM

Selected Cybersecurity Performance Q2 2023

/ABSOLUTE®

7 39.9%

BROADCOM

35.0%

paloalto

7 30.1%

Szscaler 7 29.6%

DARKTRACE 7 21.1%

solarwinds **7** 20.4%

*** BlackBerry

7 20.1%

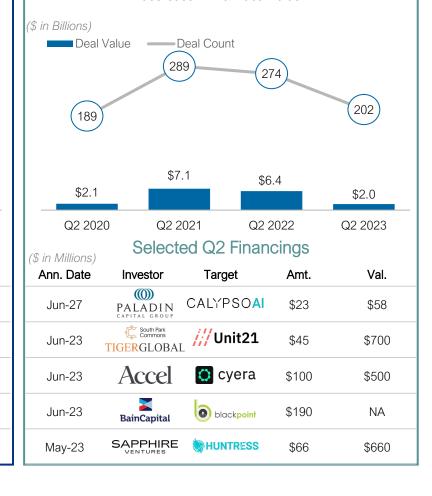
Mitek

7 17.2%

M&A Environment Drastic pullback in large transactions with consistent volumes highlights strategic dealmaking in a difficult funding environment. (\$ in Billions) Deal Value ----Deal Count \$89.3 65 65 64 41 \$23.1 \$3.7 \$20.1 \$1.5 Q2 2021 Q2 2020 Q2 2022 Q2 2023 Selected Q2 Transactions (\$ in Millions) ΕV EV/Rev Ann. Date Acquirer Target **⊕** BLUBRACK∃T **H**HashiCorp Jun-27 NA NA allalla **Armorblox** May-31 Conf. Conf. CISCO Houlihan Lokey May-11 (4) CROSSPOINT ... /ABSOLUTE \$870 NA May-16 \$60 NA

Private Funding Environment

A more constrained private funding environment necessitates capital efficiency, especially in the context of the simultaneous decrease in M&A deal value.



Medium-growth cybersecurity includes PANW, FTNT, QLYS, CYBR, TENB, GEN, OKTA, RPD, DARK, ABST, MITK, BB,

NA

\$223

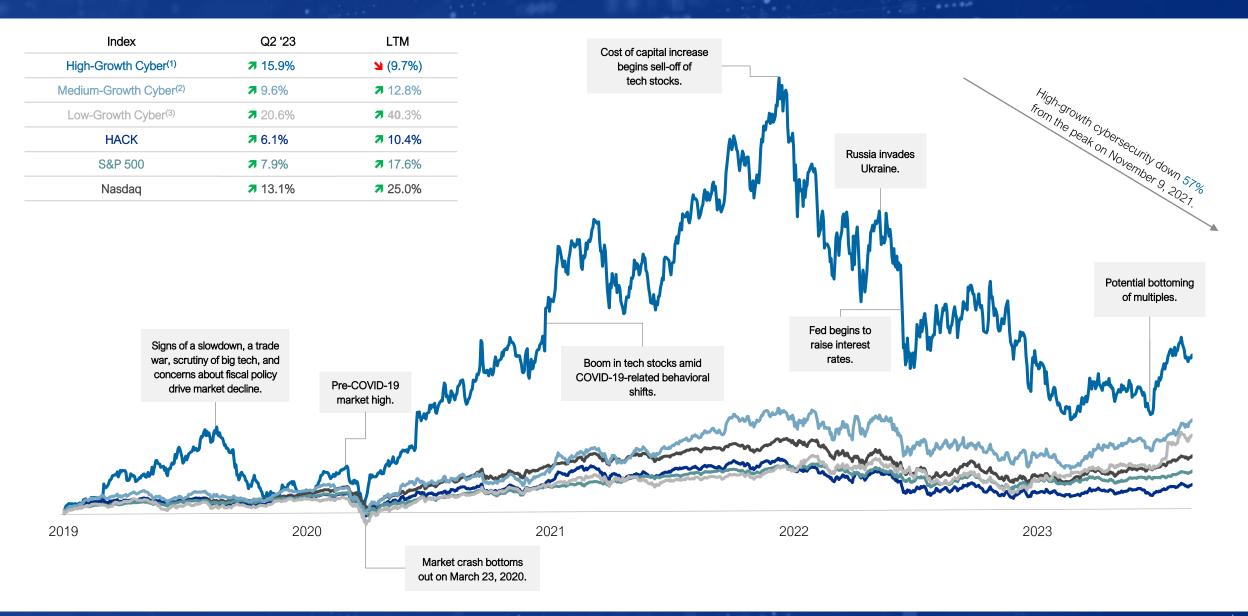
F-Secure.

Apr-26

Low-growth cybersecurity includes AVGO, SPLK, SCWX, TLS, CGNT, CHKP, 4704, SWI, FFIV, OTEX, and OSPN.

⁽⁴⁾ Transaction pending.

High-, Medium-, and Low-Growth Cybersecurity Post Strong Quarter, Outpacing S&P 500 Returns



Source: S&P Capital IQ as of June 30, 2023.

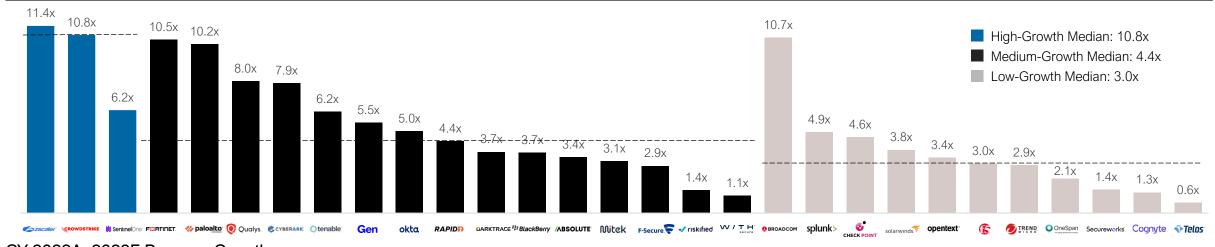
(3) Low-growth cybersecurity includes AVGO, SPLK, SCWX, TLS, CGNT, CHKP, 4704, SWI, FFIV, OTEX, and OSPN.

⁽¹⁾ High-growth cybersecurity includes S, CRWD, and ZS.

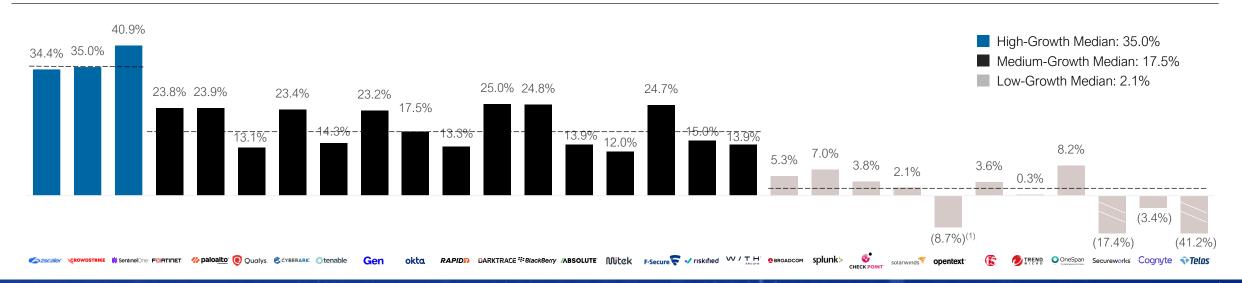
⁽²⁾ Medium-growth cybersecurity includes PANW, FTNT, QLYS, CYBR, TENB, GEN, OKTA, RPD, DARK, ABST, MITK, BB, FESURE, WITH, and RSKD.

Public Company Benchmarking: Cybersecurity Software

EV/2023E Revenue



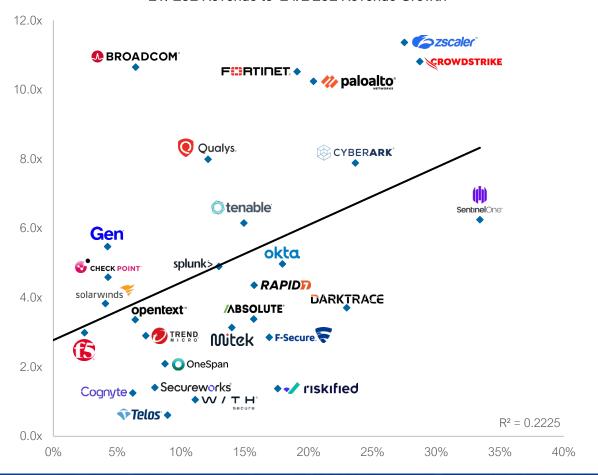
CY 2022A-2023E Revenue Growth



Public Investors Remain Focused on Growth and Profitability

Low-Revenue Growth Medium-Revenue Growth High-Revenue Growth Mean: 7% | 3.5x Mean: 14% | 5.1x Mean: 30% | 9.5x Median: 6% | 3.0x Median: 16% | 4.4x Median: 29% | 10.8x

EV/'23E Revenue to '24/E'23E Revenue Growth

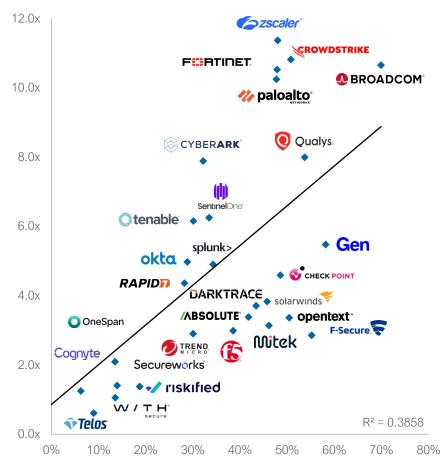




 Mean:
 12% | 3.5x
 Mean:
 15% | 6.6x

 Median:
 11% | 3.0x
 Median:
 15% | 5.0x

EV/'23E Revenue to Rule of 40

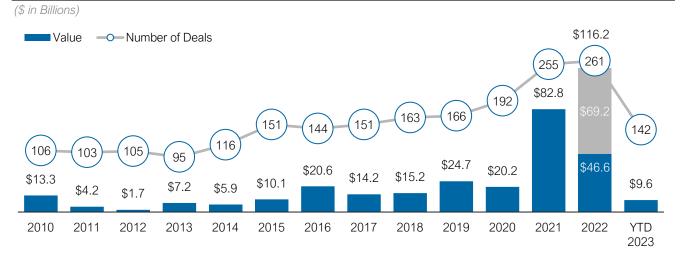


Cybersecurity M&A Activity

Historical Q2 M&A Summary



Annual M&A Summary



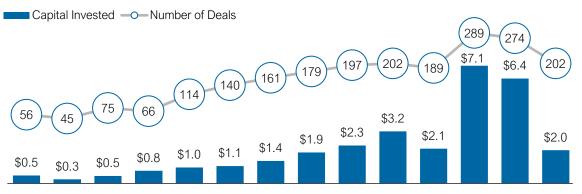
Selected M&A Transactions

(\$ in Millions)				
Ann. Date	Acquirer	Target	EV	EV/Rev
Jun-23	◆ REVEALD	EPIPHANY SYSTEMS	NA	NA
Jun-23	HashiCorp	BLUBRACKET	NA	NA
May-23	cisco	Armorblox Moulinan Lokey	Conf.	Conf.
May-23	emudhra Trust Dollvorod	i Ikon Tech	\$12	1.8x
May-23	♣ ripple	METACO	\$250	NA
May-23 ⁽¹⁾	CROSSPOINT	/ABSOLUTE°	\$870	3.9x
May-23	IBM	P ♥ L A R	\$60	NA
May-23	Boecore a	LA JOLLA LOGIC Coldenting (1) (Speer of Continue	NA	NA
Apr-23	F-Secure.	Lookout	\$223	5.7x
Apr-23	SMILE IDENTITY	•appruve	NA	NA
Apr-23	(Akamai	neosec	NA	NA
Apr-23	⊚ ZER ○ FOX	LOOKINGGLASS	\$26	NA

Cybersecurity Financing Activity

Historical Q2 Financing Summary

(\$ in Billions)



Q2'10 Q2'11 Q2'12 Q2'13 Q2'14 Q2'15 Q2'16 Q2'17 Q2'18 Q2'19 Q2'20 Q2'21 Q2'22 Q2'23 **Annual Financing Summary**

(\$ in Billions)

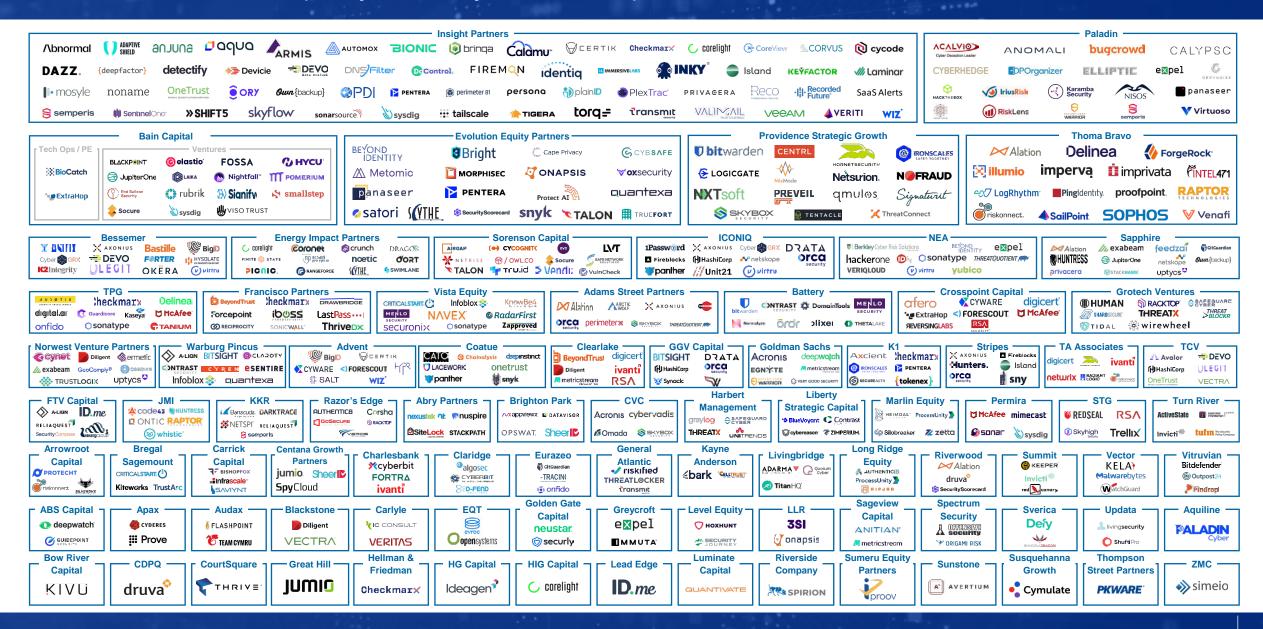


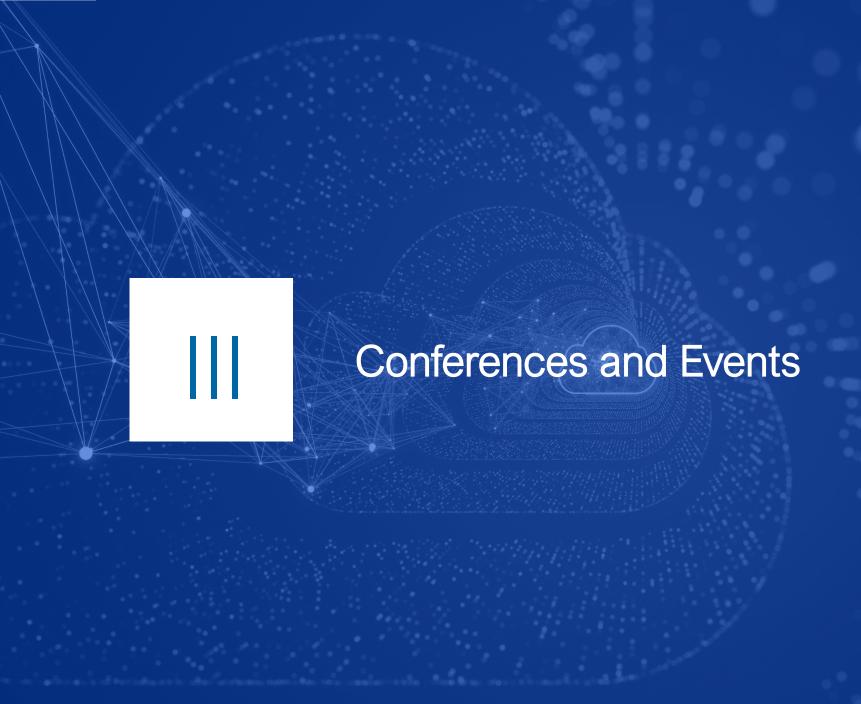
Selected Minority Transactions

(\$ in Millions)

Ann. Date	Lead Investor	Target	Amount	Valuation	Total Raised
Jun-23	South Park Commons TIGERGLOBAL	///Unit21	\$45	\$700	\$92
Jun-23	Accel	🗘 cyera	\$100	\$500	\$160
Jun-23	INSIGHT Moore Strategic Ventures, LLC	SHIFT 5	\$83	NA	\$106
Jun-23	BainCapital	o black point	\$190	NA	\$214
May-23	PayPal Ventures	Magic	\$52	NA	\$83
May-23	SAPPHIRE	HUNTRESS	\$60	\$660	\$160
May-23	METROPOLITAN	SOURCEPASS	\$65	NA	\$65
Apr-23	SYN:	halcyon	\$50	NA	\$69
Apr-23	energy impact partners'	@ORONET	\$75	\$575	\$178
Apr-23	SORENSON C A P I T A L	 ✓ S∧FE	\$50	\$180	\$96
Apr-23	Viking	ID.me	\$132	\$1,632	\$373
Apr-23	SoftBank	cybereason	\$100	NA	\$845

FINANCIAL SPONSORscape: Cybersecurity Portfolio Companies







London: June 20-22



Recent Conferences and Events

Infosecurity Europe

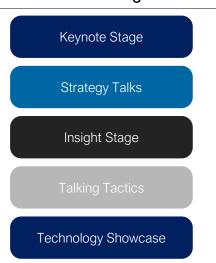
- Infosecurity Europe is the biggest gathering of the information security industry in Europe.
- Each year, the community comes together to share innovation, learn from each other, test and benchmark solutions, build relationships to drive new business, and connect with colleagues.

258 **Exhibitors**

23 Strategy talk sessions

250+ Speakers across three days

Conference Offerings





Upcoming Conferences and Events

Selected Keynote Speakers



Andrew Rose Resident CISO, EMEA **Proofpoint**

Nadir Izrael

CTO, Co-Founder

Armis



Ilona Simpson CIO, EMEA Netskope



Yuval Wollman President CyberProof

Bentsi Benatar Sepio



Brad Freeman CMO, Co-Founder Director of Technology SenseOn







Dr. Niklas Hellemann Henning Christiansen CEO CISO SoSafe



Ottobock

Stephen Boyer CTO, Co-Founder BitSight

Angoka Wins U.K.'s Most Innovative Cyber SME

- The competition, held by the U.K. Department of Science, Information, and Technology, demonstrates the rapid pace of innovation in cybersecurity.
- Angoka offers IoT security solutions that safeguard machine-to-machine communication across smart air mobility, smart land mobility, and critical national infrastructure.
- These solutions facilitate the adoption of IoT solutions, such as autonomous driving and drone control, that will become highly relevant going forward.

ANGOKA

PREVIOUS WINNERS













Las Vegas: August 5–10



Recent Conferences and Events

Upcoming Conferences and Events

- Black Hat is an internationally recognized cybersecurity event series providing the most technical and relevant security research.
- These multi-day events provide the security community with the latest cutting-edge research, developments, and trends.
- Attendees can gain hands-on experience and deepen their knowledge through a variety of training opportunities, including beginner- and advanced-level courses.



Black Hat USA 2023



The event includes four days of training and a two-day main conference featuring more than 100 selected Briefings, dozens of open-source tool demos in Black Hat Arsenal, Dark Reading, and more.



Black Hat CISO Summit is an approval-only event that brings together top security executives from global corporations and government agencies for a full day of unique discussions.



Key topics in the conference include AI and ML, AppSec, cloud security, cryptography, human factors, malware, mobile security, network security, policy, and privacy.

SUSTAINING PARTNERS





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Core Black Hat 2023 Features



Black Hat Briefings

Provides security professionals with a place to learn the very latest in information security risks, research, and trends.



Black Hat Certified Pentester

In partnership with The SecOps Group, Black Hat now has its own certification:

Black Hat Certified Pentester.



Black Hat Trainings

Offers individual technical courses with topics ranging from the latest in penetration testing to exploiting web applications and defending and building SCADA systems.



Black Hat Business Hall

Solution providers and startups showcase the latest technologies and security services.

Houlihan Lokey Global Tech Conferences

New York: October 3, 2023 | London: March 14, 2024

Recent Conferences and Events

Interested in attending the 2023 Global Tech Conference?

CLICK TO REGISTER

3 October 2023

New York | Lotte New York Palace

Upcoming Conferences and Events

WHAT TO EXPECT AT THE EVENT

- Panel Discussions From CEOs at High-Growth Companies: A wide range of speakers will share their
 insights about navigating current market conditions and positioning their companies for future
 success across a variety of technology sectors.
- Featured Speakers: The conference will feature high-profile speakers and candid panel discussions with distinguished tech thought leaders, discussing a variety of topical themes.
- Targeted One-on-One Meetings: Houlihan Lokey will arrange targeted, one-on-one meetings for
 presenting companies over the course of the conference, advising on prospects, meeting structure,
 and materials and coordinating any follow-up.
- Networking Opportunities: Join an audience of strategic, financial, and institutional investors as well
 as other capital providers for lunch and end-of-day cocktails.



London | London Hilton on Park Lane

100+

PARTICIPATING COMPANIES



TARGETED

ONE-ON-ONE MEETINGS
WITH INVESTORS AND
STRATEGIC PARTNERS



Leading Independent, Global Advisory Firm



Houlihan Lokey is the trusted advisor to more top decision-makers than any other independent global investment bank.

HLI 36 ~25% 2.595 \$6.5 Billion \$1.8 Billion No Market Cap⁽²⁾ NYSE Revenue⁽³⁾ Global Employees⁽¹⁾ **Employee-Owned** Locations Debt











Houlihan Lokey has agreed to acquire 7 Mile Advisors, an independent advisory firm that provides a range of services to clients across the IT services sector.

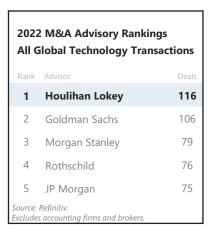
The transaction, signed on July 7, will further enhance Houlihan Lokey's deep industry expertise in IT services and expands the firm's geographic footprint.

HQ: Charlotte, NC

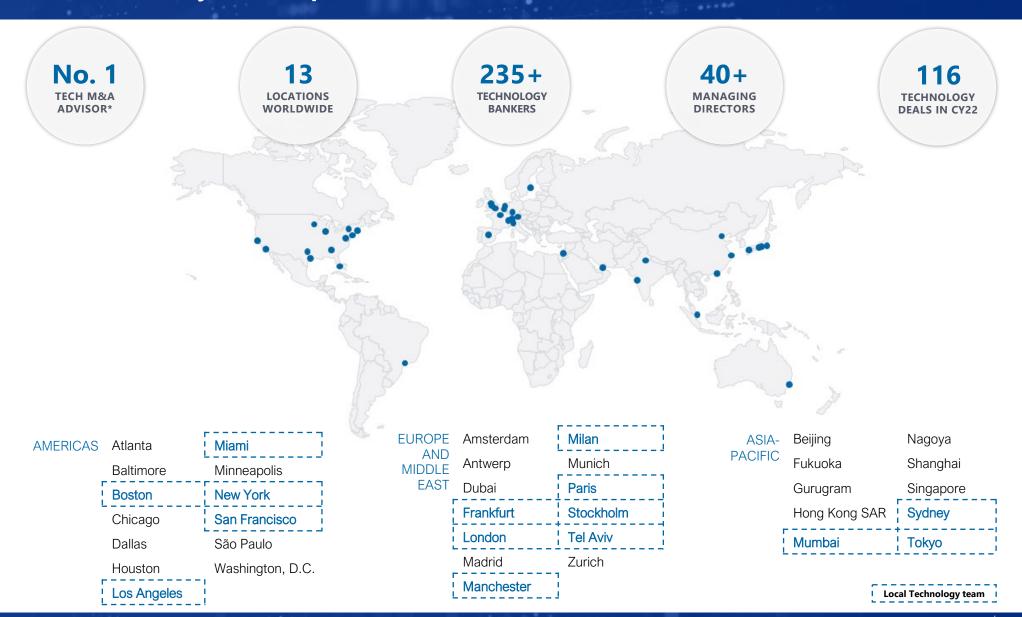
Employees: ~30

Managing Directors: 5

Our Tech M&A Team Is No. 1 Globally With Unparalleled Reach







*According to data provided by Refinitiv. Houlihan Lokey 2

Deep Cybersecurity Experience Across the Ecosystem









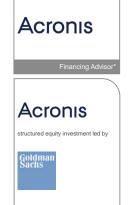








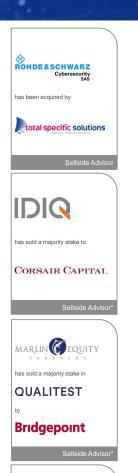
















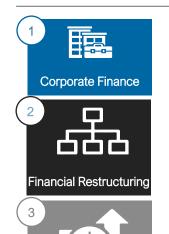
has been acquired by

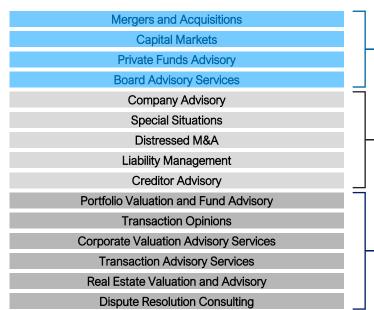


How Houlihan Lokey Can Help

Our firm is extremely well-equipped to help our clients navigate uncertain times. We respond quickly to challenging situations and are constantly helping clients to analyze, structure, negotiate, and execute the best possible solutions from both a strategic and a financial perspective.

What We Offer





We are widely recognized as a leading M&A advisor to the mid-cap and have long-standing relationships with capital providers, including commercial banks and other senior credit providers, insurance funds, asset managers, and mezzanine fund investors. Few other investment banks maintain the breadth of relationships and capital markets intelligence that we do.

We have the largest restructuring practice of any global investment bank. Since 1988, we have advised on more than 1,500 restructuring transactions (with aggregate debt claims in excess of \$3.0 trillion). We served as an advisor in 12 of the 15 largest bankruptcies from 2000 to 2022.

Over five decades, we have established ourselves as one of the largest financial and valuation advisory firms. Our transaction expertise and leadership in the field of valuation help inspire confidence in the financial executives, boards of directors, special committees, investors, and business owners we serve.

Why We're Different

Financial and Valuatior

Advisory



No. 1 for Global and U.S. Under \$1B Tech M&A*



Significant Experience With Financing Markets



Senior-Level Commitment and Dedication



Deep, Industry-Specific Expertise



Superior Work Product/Technical Abilities



Creativity, Imagination, Tenacity, and Positivity

Other Houlihan Lokey Cyber Sector Reports

Generative AI in Cybersecurity Report

European Cybersecurity Ideabook

Identity Sector Report

Managed Security Services Report









To gain access to these decks, please reach out to the following:

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Chris Hebble Managing Director CHebble@HL.com

Cyber Tech Expertise



Edouard Viot Cybersecurity Consultant

Yearly Conferences













High-Growth Cybersecurity Trading Metrics

in Millions, Except Price per Sha	re)							EV/Revenue				EV/EBITDA	
Company	Stock Price	52-wk High	% of 52-wk High	YTD Stock Performance	Cash and ST Inv.	Equity Mkt Cap	Enterprise Value	CY 2022A	CY 2023E	CY 2024E	CY 2022A	CY 2023E	CY 2024E
CROWDSTRIKE	\$146.87	\$205.73	71.4%	42.2%	\$2,930	\$34,642	\$32,718	14.6x	10.8x	8.4x	NM	NM	38.1x
Ezscaler	146.30	194.21	75.3%	32.8%	1,968	21,056	20,590	15.3x	11.4x	8.9x	NM	NM	43.6x
(II) SentinelOne®	15.10	30.00	50.3%	3.6%	718	4,265	3,718	8.8x	6.2x	4.7x	NM	NM	NM
					Top Quartile	\$27,759	\$26,654	14.9x	11.1x	8.7x	NM	NM	42.2x
					Mean	\$19,928	\$19,009	12.9x	9.5x	7.3x	NM	NM	40.8x
					Median	\$21,056	\$20,590	14.6x	10.8x	8.4x	NM	NM	40.8x
					1st Quartile	\$12,661	\$12,154	11.7x	8.5x	6.5x	NM	NM	39.5x

Medium-Growth Cybersecurity Trading Metrics

(\$ in Millions, Except Price per St	hare)			EV/Revenue						EV/EBITDA			
Company	Stock Price	52-wk High	% of 52-wk High	YTD Stock Performance	Cash and ST Inv.	Equity Mkt Cap	Enterprise Value	CY 2022A	CY 2023E	CY 2024E	CY 2022A	CY 2023E	CY 2024E
paloalto [®]	\$255.51	\$256.83	99.5%	84.6%	\$3,958	\$83,820	\$78,137	12.7x	10.2x	8.5x	NM	35.8x	31.2x
F#RTINET.	75.59	76.27	99.1%	55.8%	2,879	60,355	57,545	13.0x	10.5x	8.8x	NM	37.5x	30.7x
Gen	18.55	26.83	69.1%	(14.2%)	750	11,575	20,955	6.7x	5.5x	5.3x	14.4x	9.6x	9.7x
okta	69.35	110.94	62.5%	(0.3%)	2,370	11,053	10,855	5.8x	5.0x	4.2x	NM	NM	38.8x
CYBER ARK °	156.33	165.18	94.6%	23.8%	914	6,383	5,761	9.7x	7.9x	6.4x	NM	NM	NM
tenable	43.55	52.55	82.9%	14.9%	617	4,894	4,805	7.0x	6.2x	5.4x	NM	44.9x	35.3x
Qualys.	129.17	162.36	79.6%	15.8%	334	5,007	4,426	9.0x	8.0x	7.1x	26.8x	19.1x	17.1x
RAPID <mark>77</mark>	45.28	74.88	60.5%	29.5%	262	2,676	3,384	4.9x	4.4x	3.8x	NM	40.6x	30.2x
BlackBerry	5.54	6.99	79.4%	66.8%	516	3,216	3,156	4.6x	3.7x	4.1x	NM	NM	47.0x
DARKTRACE	3.92	7.13	55.0%	22.9%	380	2,570	2,243	4.6x	3.7x	3.0x	NM	21.4x	14.8x
/ABSOLUTE®	11.45	12.99	88.1%	6.3%	50	594	830	3.9x	3.4x	2.9x	NM	14.4x	11.2x
Mitek	10.84	11.95	90.7%	11.6%	90	496	528	3.5x	3.1x	2.8x	11.9x	10.1x	8.6x
F-Secure.	2.55	3.76	67.9%	(14.1%)	13	433	423	3.6x	2.9x	2.4x	10.2x	8.5x	6.4x
riskified	4.86	6.73	72.2%	5.4%	477	831	414	1.6x	1.4x	1.2x	NM	NM	NM
W / TH°	1.28	2.88	44.3%	(12.5%)	52	219	173	1.2x	1.1x	1.0x	NM	NM	39.7x
					Top Quartile	\$8,718	\$8,308	8.0x	7.0x	5.9x	17.5x	37.1x	35.3x
					Mean	\$12,941	\$12,909	6.1x	5.1x	4.5x	15.9x	24.2x	24.7x
					Median	\$3,216	\$3,384	4.9x	4.4x	4.1x	13.2x	20.2x	30.2x
					1st Quartile	\$713	\$679	3.7x	3.3x	2.8x	11.5x	11.2x	11.2x

Low-Growth Cybersecurity Trading Metrics

\$ in Millions, Except Price per Shan	e)								EV/Revenue			EV/EBITDA	
Company	Stock Price	52-wk High	% of 52-wk High	YTD Stock Performance	Cash and ST Inv.	Equity Mkt Cap	Enterprise Value	CY 2022A	CY 2023E	CY 2024E	CY 2022A	CY 2023E	CY 2024E
№ BROADCOM®	\$867.43	\$921.78	94.1%	56.7%	\$11,553	\$367,790	\$385,854	11.2x	10.7x	10.0x	19.3x	16.8x	15.8x
splunk>	106.09	116.84	90.8%	22.2%	2,463	17,350	19,175	5.2x	4.9x	4.3x	NM	24.2x	20.4x
opentext*	41.55	43.25	96.1%	38.1%	1,400	11,228	19,163	3.1x	3.4x	3.2x	10.3x	8.4x	7.2x
CHECK POINT	125.62	135.93	92.4%	(1.0%)	1,686	15,597	11,098	4.8x	4.6x	4.4x	12.2x	10.6x	9.9x
(E)	146.26	174.38	83.9%	1.0%	755	8,854	8,392	3.1x	3.0x	2.9x	16.7x	8.8x	8.1x
TREND.	48.03	63.28	75.9%	2.3%	1,738	6,717	4,946	2.9x	2.9x	2.7x	11.5x	12.6x	11.9x
solarwinds	10.26	11.37	90.3%	8.9%	141	1,658	2,815	3.9x	3.8x	3.7x	14.6x	9.4x	8.8x
Secureworks	7.23	11.38	63.5%	15.1%	95	613	539	1.2x	1.4x	1.3x	NM	NM	21.9x
OneSpan The Digital Agreements Company	14.84	19.25	77.1%	27.9%	107	598	497	2.3x	2.1x	1.9x	NM	NM	40.8x
Cognyte	6.09	6.23	97.8%	90.9%	68	433	377	1.2x	1.3x	1.2x	NM	NM	NA
₹ Telos	2.56	12.51	20.5%	(50.7%)	112	173	78	0.4x	0.6x	0.6x	NM	NM	NM
					Top Quartile	\$13,413	\$15,131	4.3x	4.2x	4.0x	16.2x	14.7x	20.4x
					Mean	\$39,183	\$41,176	3.6x	3.5x	3.3x	14.1x	13.0x	16.1x
					Median	\$6,717	\$4,946	3.1x	3.0x	2.9x	13.4x	10.6x	11.9x
					1st Quartile	\$605	\$518	1.7x	1.8x	1.6x	11.7x	9.1x	8.8x

High-Growth Cybersecurity Operating Metrics

(\$ in Millions, Except Price per	r Share)				Revenue			EBITDA			Revenue Growth			EBITDA Marg	gin
Company	Stock Price	Equity Mkt Cap	Enterprise Value	CY 2022A	CY 2023E	CY 2024E	CY 2022A	CY 2023E	CY 2024E	2021–2022A	2022A-2023E	2023–2024E	CY 2022	A CY 2023E	CY 2024E
CROWDSTRIKE	\$146.87	\$34,462	\$32,718	\$2,241	\$3,026	\$3,895	(\$118)	\$632	\$859	54.4%	35.0%	28.7%	NM	1 20.9%	22.1%
Ezscaler	146.30	21,056	20,590	1,348	1,812	2,310	(272)	336	473	56.8%	34.4%	27.5%	NM	1 18.5%	20.5%
(i) SentinelOne [*]	15.10	4,265	3,718	422	595	794	(374)	(154)	(27)	106.1%	40.9%	33.4%	NM	1 NM	NM
	Top Quartile	\$27,759	\$26,654	\$1,795	\$2,419	\$3,102	(\$195)	\$484	\$666	81.5%	38.0%	31.1%	NM	20.3%	21.7%
	Mean	\$19,928	\$19,009	\$1,337	\$1,811	\$2,333	(\$255)	\$271	\$435	72.5%	36.8%	29.9%	NM	19.7%	21.3%
	Median	\$21,056	\$20,590	\$1,348	\$1,812	\$2,310	(\$272)	\$336	\$473	56.8%	35.0%	28.7%	NM	19.7%	21.3%
	1st Quartile	\$12,661	\$12,154	\$885	\$1,203	\$1,552	(\$323)	\$91	\$223	55.6%	34.7%	28.1%	NM	19.1%	20.9%

Medium-Growth Cybersecurity Operating Metrics

(\$ in Millions, Except Price pe	r Share)				Revenue			EBITDA			Revenue Growth		E	EBITDA Margi	n
Company	Stock Price	Equity Mkt Cap	Enterprise Value	CY 2022A	CY 2023E	CY 2024E	CY 2022A	CY 2023E	CY 2024E	2021–2022A	2022A-2023E	2023–2024E	CY 2022A	CY 2023E	CY 2024E
paloalto °	\$255.51	\$83,820	\$78,137	\$6,156	\$7,628	\$9,183	\$245	\$2,181	\$2,507	26.7%	23.9%	20.4%	4.0%	28.6%	27.3%
F#RTINET	75.59	60,355	57,545	4,417	5,469	6,513	\$1,069	\$1,533	\$1,872	32.2%	23.8%	19.1%	24.2%	28.0%	28.7%
Gen	18.55	11,575	20,955	3,107	3,827	3,990	\$1,454	\$2,192	\$2,150	12.9%	23.2%	4.2%	46.8%	57.3%	53.9%
okta	69.35	11,053	10,855	1,858	2,183	2,574	(\$662)	\$185	\$280	37.7%	17.5%	17.9%	NM	8.5%	10.9%
CYBERARK°	156.33	6,383	5,761	592	730	903	(\$136)	\$19	\$77	17.7%	23.4%	23.7%	NM	2.6%	8.5%
() tenable	43.55	4,894	4,805	683	781	898	(\$43)	\$107	\$136	26.3%	14.3%	14.9%	NM	13.7%	15.2%
Qualys.	129.17	5,007	4,426	490	554	621	\$165	\$232	\$258	19.1%	13.1%	12.1%	33.7%	42.0%	41.6%
RAPID ₁₇	45.28	2,676	3,384	685	776	898	(\$70)	\$83	\$112	28.0%	13.3%	15.7%	NM	10.7%	12.5%
BlackBerry	5.54	3,216	3,156	690	861	771	(\$87)	\$11	\$67	(7.1%	24.8%	(10.4%)	NM	1.3%	8.7%
DARKTRACE	3.92	2,570	2,243	484	605	744	\$35	\$105	\$152	38.5%	25.0%	23.0%	7.2%	17.3%	20.4%
/ABSOLUTE	11.45	594	830	215	245	284	\$9	\$58	\$74	38.7%	13.9%	15.7%	4.0%	23.6%	26.1%
Mitek	10.84	496	528	150	168	192	\$44	\$52	\$62	18.9%	12.0%	14.0%	29.4%	31.0%	32.1%
F-Secure.	2.55	433	423	119	148	173	\$41	\$50	\$66	(1.8%	24.7%	16.9%	34.8%	33.6%	38.3%
riskified	4.86	831	414	261	301	353	(\$105)	(\$15)	\$4	14.0%	15.0%	17.6%	NM	NM	1.1%
W/TH°	1.28	219	173	144	164	182	(\$44)	(\$15)	\$4	(2.6%	13.9%	NA	NM	NM	2.4%
	Top Quartile	\$8,718	\$8,308	\$1,274	\$1,522	\$1,739	\$105	\$209	\$269	30.1%	23.9%	18.8%	34.0%	31.0%	30.4%
	Mean	\$12,941	\$12,909	\$1,337	\$1,629	\$1,885	\$128	\$452	\$521	19.9%	18.8%	14.6%	23.0%	22.9%	21.8%
	Median	\$3,216	\$3,384	\$592	\$730	\$771	\$9	\$83	\$112	19.1%	17.5%	16.3%	26.8%	23.6%	20.4%
	1st Quartile	\$713	\$679	\$238	\$273	\$319	(\$79)	\$34	\$67	13.5%	13.9%	14.2%	6.4%	10.7%	9.8%

Low-Growth Cybersecurity Operating Metrics

(\$ in Millions, Except Price per	Sharo)				Revenue			EBITDA			Revenue Growth			EBITDA Margi	in
Company	Stock Price	Equity Mkt Cap	Enterprise Value	CY 2022A	CY 2023E	CY 2024E	CY 2022A	CY 2023E	CY 2024E	2021–2022	A 2022A–2023E	2023–2024E	CY 2022A	CY 2023E	CY 2024E
 ● BROADCOM®	\$867.43	\$367,790	\$385,854	\$34,412	\$36,229	\$38,565	\$20,005	\$23,029	\$24,465	20.7	6 5.3%	6.4%	58.1%	63.6%	63.4%
splunk>	106.09	17,350	19,175	3,654	3,911	4,418	(126)	794	941	36.7	6 7.0%	13.0%	NM	20.3%	21.3%
opentext*	41.55	11,228	19,163	6,234	5,693	6,058	1,867	2,272	2,664	(0.4	(8.7%)	6.4%	30.0%	39.9%	44.0%
CHECK POINT	125.62	15,597	11,098	2,330	2,418	2,521	909	1,050	1,116	7.5	6 3.8%	4.3%	39.0%	43.4%	44.2%
(146.26	8,854	8,392	2,709	2,808	2,877	502	952	1,038	1.6	6 3.6%	2.4%	18.5%	33.9%	36.1%
TREND	48.03	6,717	4,946	1,697	1,703	1,826	429	392	416	2.6	6 0.3%	7.2%	25.3%	23.0%	22.8%
solarwinds	10.26	1,658	2,815	719	735	765	192	299	318	0.1	6 2.1%	4.1%	26.7%	40.8%	41.6%
Secureworks	7.23	613	539	463	383	413	(111)	(42)	25	(13.4	%) (17.4%)	7.9%	NM	NM	6.0%
OneSpan The Digital Agreements Company	14.84	598	497	219	237	258	(7)	4	12	2.1	8.2%	8.7%	NM	1.8%	4.7%
Cognyte	\$6.09	433	377	312	301	320	(90)	(11)	-	(34.2	(3.4%)	6.2%	NM	NM	NM
₹ Telos	\$2.56	173	78	217	128	139	(\$49)	(\$23)	(\$13)	(10.5	%) (41.2%)	8.9%	NM	NM	NM
	Top Quartile	\$13,413	\$15,131	\$3,181	\$3,359	\$3,647	\$706	\$1,001	\$1,077	5.1	6 4.5%	8.3%	36.7%	41.4%	44.0%
	Mean	\$39,183	\$41,176	\$4,815	\$4,959	\$5,287	\$2,138	\$2,611	\$2,817	1.2	(3.7%)	6.9%	32.9%	33.3%	31.6%
	Median	\$6,717	\$4,946	\$1,697	\$1,703	\$1,826	\$192	\$392	\$416	1.6	6 2.1%	6.4%	28.3%	36.9%	36.1%
	1st Quartile	\$605	\$518	\$388	\$342	\$367	(\$70)	(\$3)	\$18	(5.5	(6.0%)	5.3%	25.6%	22.3%	21.3%

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