

Cybersecurity REPORT | VENTURE TRENDS

Lorenz Hartung | Elias Maier | Stine-Luise Müller | Julian Baumgärtner

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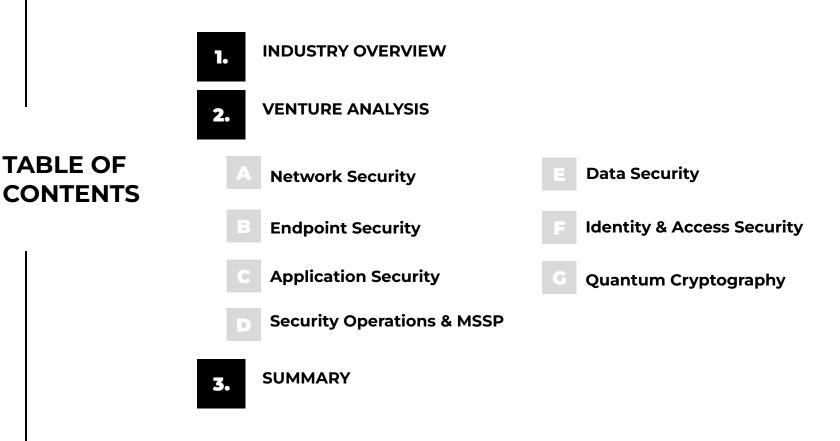
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Cybersecurity Venture Report



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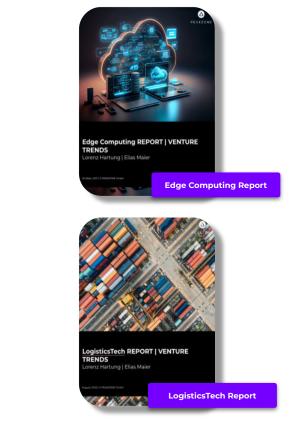
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orenz Hartung | Elias Maier



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INDUSTRY OVERVIEW

Market Size & CAGR Status Quo of Cybersecurity Cybersecurity Clusters Key Trends Corporate Leaders

INDUSTRY OVERVIEW

The global Cybersecurity market is experiencing a stable growth of 10% between 2016 - 2028

Cybersecurity generated a revenue of **\$150.00B in** 2022 worldwide The global Cybersecurity market is expected to grow at a CAGR of 10% (2016-2028).

Global Cybersecurity Revenue in \$B 300 200 Worldwide Reve 100 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028

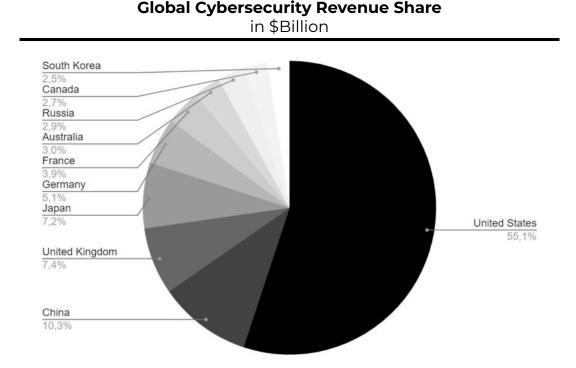
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The global cybersecurity market is experiencing significant growth due to an increasing sophistication of cyber attacks.

Cyber attacks and the cost of cybercrime worldwide have been rapidly increasing, therefore cybersecurity revenue will grow at a stable CAGR in the coming years.

In a global context, the U.S. Cybersecurity market leads in revenue generation, reaching \$65B in 2022.

- The Cybersecurity market in China is poised for substantial growth, with a predicted revenue increase of 14.2% between 2022 and 2028.
- The market is expected to experience a significant surge in the USA, reaching \$113.8B by 2028, reflecting a remarkable CAGR of 9.8%.
- This underscores the dynamic and evolving landscape of cybersecurity, emphasizing its critical role in both the Chinese and U.S. markets over the specified period.



STATUS QUO: The shift to remote work has further accelerated the shift of data storage into the cloud

- The cybersecurity industry has **rapidly evolved to address the increasing volume of sensitive information stored online,** becoming a critical aspect of global information protection.
- The COVID-19 pandemic prompted numerous organizations to experience heightened cyberattacks, driven by the security vulnerabilities associated with remote work and the transition to virtualized IT environments, including cloud computing infrastructure, data, and networks. Consequently, there is a notable shift towards embracing zero trust networks as a proactive measure to enhance cybersecurity in response to these evolving challenges.
- Developed countries lead in cybersecurity sophistication, with the market expected to reach US\$166.2 billion in 2023, driven by factors like IoT expansion and increased internet penetration.
- The Cybersecurity market is segmented into Security Services and Cyber Solution. Security Services, accounting for approximately 53% of revenues, is the largest segment, with the United States generating the highest revenue globally (US\$72 billion), followed by China (US\$14 billion) and the United Kingdom (US\$10 billion).
- The European Union is pursuing a comprehensive cybersecurity strategy, including the NIS Directive, the plans for NIS 2, digital sovereignty, the EU Cybersecurity Competence Center, a single certification framework and international cooperation to strengthen cybersecurity resilience.

INDUSTRY OVERVIEW

10 💧 Status Quo: The global cybersecurity market offers a \$1.5 to \$2.0 Tn potential* - ten times the size of the vended market

Global cybersecurity market size, 2021, \$ trillion

	1.5 - 2.0	Segment	Total addressable market*, \$ billion	Current penetration*, %
		Data Protection	50 - 100	30 - 35
		Governance, Risk, and Compliance	50 - 100	30 - 35
		Email security and awareness	50 - 100	10 - 15
		Cloud Security	50 - 100	1 - 5
		Network Security	50 - 100	15 - 20
10x		Identity and access management	50 - 100	20 - 25
		Security consulting	100 - 200	15 - 20
		Web security	100 - 200	5 - 10
			100 - 200	1 - 5
		Endpoint security	100 - 200	5 - 10
		Application security	100 - 200	1 - 5
		Security and operations management	400 - 500	1 - 5
0.15		MSSP ² /Outsourcing	400 - 500	5 - 10
0.13				

Vended Total addressable

> *At 10% market penetration today the market has potential to reach \$1.5 Tn in the future. This does not imply the market will reach such a size anytime soon. Survey outcomes and market potentials reflect the opinions of 4.000 surveyed corporate executives of mid sized companies.

Seven Clusters define the Cybersecurity innovation landscape

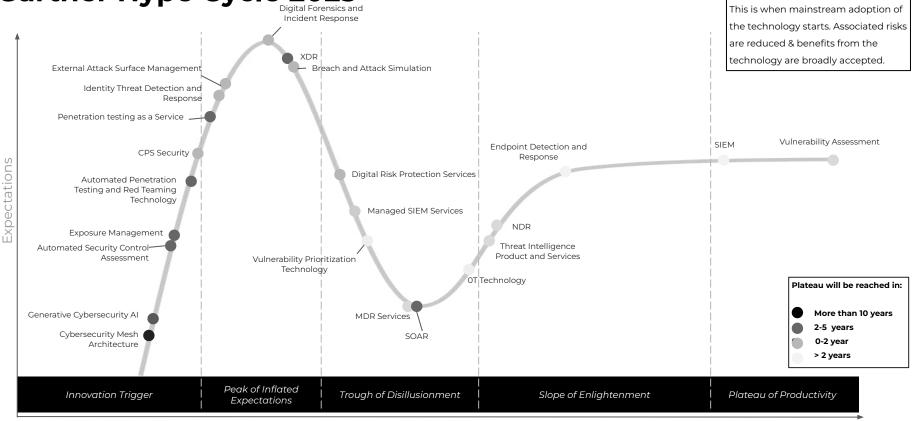


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• Security Orchestration, Automation & Response (SOAR)

INTRO

The current State of Innovation: Cybersecurity in the Gartner Hype Cycle 2023



Five Key Trends driving the Cybersecurity Industry in 2023

Hybrid Data Centers

Cloud computing's rise provides scalable infrastructure. Hybrid data centers, using orchestration, facilitate seamless movement of data and applications between on-premises and the cloud. This flexibility enables organizations to tailor environments to their security and scalability needs.



Key Trends

Use of AI in Cyberattacks

This technology significantly impacts cybersecurity on both offensive and defensive fronts. In offensive cybersecurity, generative AI tools are utilized to enhance cyberattacks, such as creating convincing phishing emails and potentially aiding in the development of new attack strategies, resulting in an ongoing arms race between attackers and defenders.





Threat Exposure Management

Threat exposure management (TEM) is a proactive cybersecurity approach, assessing and prioritizing potential threats to develop targeted mitigation strategies. It ensures organizations stay ahead of evolving risks by regularly identifying and assessing threats, maintaining readiness against emerging attack vectors.

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Hybrid Mesh Firewall

As corporate networks diversify, the challenge is ensuring consistent security. Hybrid mesh firewalls integrate various firewall types for flexible deployment, providing centralized management and security enforcement across the entire network.

Cloud-Native App Protection Platforms, streamline cloud application development and security according to Gartner. It consolidates capabilities to address specific cloud security challenges and simplify application monitoring in cloud environments.

CNAPP

Leading companies in the Cybersecurity industry



Palo Alto Networks offers cybersecurity services, including firewalls, support, and subscription options like threat prevention and data loss prevention.

The company also **strategically acquires leading cybersecurity firms** to augment its portfolio, **focusing on challenging areas for internal development** and often keeping the acquired company's leadership in place.

Startup Acquisitions:

Talon Cyber Security (\$625.00M, 11/2023)

cisco

Cisco integrates intent-based technologies across networking, security, collaboration, applications, and cloud, offering switches, routers, firewalls, and SDN solutions for network segmentation. Their growth strategy involves targeted acquisitions aligned with market transitions, emphasizing integration for success and drawing from their experience in achieving best practices.

Startup Acquisitions: Lightspin (\$225.00M, 03/2023)

FERTINET.

Fortinet provides **powerful network security solutions that protect your network, users, and data** from constantly evolving threats. Explore Fortinet Next Generation Firewalls (NGFW) for effective, consolidated security with end-to-end network protection.

Startup Acquisitions:

EnSilo (\$15.80M, 10/2019) ShieldX (\$10.80M, 03/2022) 14 💧

A GLANCE AT THE GERMAN CYBERSECURITY MARKET THROUGH THE EYES OF AN INDUSTRY EXPERT



Marian Rachow CEO Rohde & Schwarz Cybersecurity

About Rohde & Schwarz Cybersecurity:

RSCS is a foremost IT-Security company that provides protection against constantly evolving cyber threats to governmental and private sector clients with distinct security and certification requirements. According to Marian Rachow, the **German cybersecurity market is divided into two parts.** A **prepared sector,** consisting of **industries and areas relevant to the protection of secrets,** and an **unprepared market,** which can be found particularly in **German SMEs and small municipalities**. The latter often do not have sufficient financial resources to defend themselves effectively against increasing cyber attacks.

The proximity of cyber attacks has become more noticeable in recent years, and their impact affects even small communities that often cannot afford the expensive repair services. Two trends are emerging in the cyber security industry:

- 1. In the **prepared market**, companies with increasing security requirements are **looking for deeper**, **almost invisible solutions** which don't harm the workflow. The trend towards high-security technologies is at the forefront here, willing to pay for it.
- 2. On the other hand, **unprepared companies and municipalities** are more **open to cost-effective solutions** that can better meet their needs. A major trend here is towards **cloud solutions**. The use of **cloud services** is seen as a **cost-effective alternative to traditional servers**.

A GLANCE AT THE GERMAN CYBERSECURITY MARKET THROUGH THE EYES OF AN INDUSTRY EXPERT



Marian Rachow CEO Rohde & Schwarz Cybersecurity

About Rohde & Schwarz Cybersecurity:

RSCS is a foremost IT-Security company that provides protection against constantly evolving cyber threats to governmental and private sector clients with distinct security and certification requirements. **Cooperation in cybersecurity** is hampered by **national security interests** and fragmentation. Many **German SMEs and smaller municipalities** are **inadequately prepared for cyber threats** due to scarce financial resources and a lack of expertise. Particular **dangers arise from technologies** such as **artificial intelligence (AI)**, which can more easily **lead to attacks in an unprepared market.**

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The government is making efforts to provide training, especially in connection with new bespoken laws such as NIST 2.0, but cooperation with companies is not yet optimal. In an international comparison, Germany has some catching up to do, while countries such as Sweden and Norway are considered more advanced and are increasingly focusing on security-oriented technologies.

A GLANCE AT THE GERMAN CYBERSECURITY MARKET THROUGH THE EYES OF AN INDUSTRY EXPERT



Marian Rachow CEO Rohde & Schwarz Cybersecurity

About Rohde & Schwarz Cybersecurity:

RSCS is a foremost IT-Security company that provides protection against constantly evolving cyber threats to governmental and private sector clients with distinct security and certification requirements. In the startup scene, the focus on artificial intelligence (AI) is evident at the moment, furthermore innovative approaches like the startup **Bugshell** are worth to be mentioned here. They are attempting to **centralize decentralized markets** and address **resource bottlenecks** - a commendable idea. **Creativity and agility** play a **crucial role** in this domain for developing **novel solutions**.

A significant challenge for startups in the cybersecurity industry lies in establishing direct collaborations with large authorities in the prepared segment, which can be inherently difficult. However, the agility and innovation of startups present promising avenues for advancing cybersecurity technologies and services.

The untapped potential of the smaller, unprepared market offers a favorable opportunity for start-ups, with a large market potential as they have the right price level and at the same time they can establish themselves in the cybersecurity landscape.

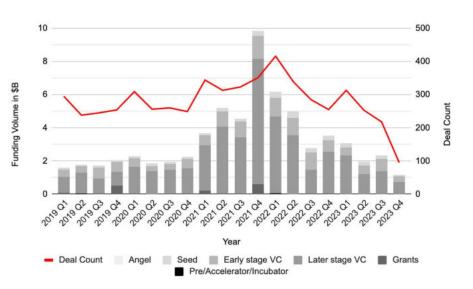
VENTURE ANALYSIS

Venture Activity Funding Distribution M&A Deals Unicorn Landscape 18 💧

19 🚺 Attack surfaces increased significantly during the pandemic, in turn a surge in cybersecurity funding can be observed

Quarterly funding in Cybersecurity

Total funding and number of rounds, Q1/19 - Q4/23



Key take-aways

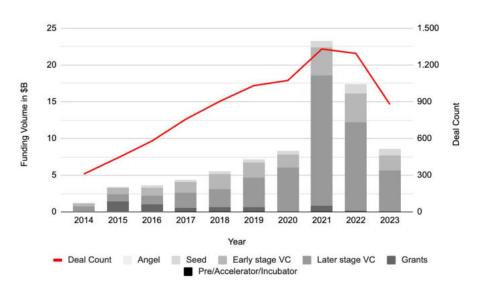
- Cybersecurity experienced a substantial rise in funding throughout the pandemic and now a return to below average funding
- Quarterly funding volume peaked in Q4/21 at **\$9.86B** invested. over 351 rounds
- Volume dropped significantly by Q3/22 staying around **\$2.3B** in **quarterly funding**
- In 2023 the funding volume reached a total of \$8.60B over 879 rounds
- Over the last 5 years \$64.86B were invested into the sector

Largest Deals			
Lacework	\$1.30B	Q4/2021	
Securonix	\$1.17B	Q2/2022	
Pentera	\$813.20M	Q4/2021	
1Password	\$650.00M	Q1/2022	
Orca Security	\$550.00M	Q1/2022	

Funding Volume increased by 2.8x in 2021 and has now returned to pre-pandemic levels

Annual funding in Cybersecurity

Total funding and number of rounds, 2014 - 2023



Key take-aways

• **\$83.04B** were invested in the **last 10 years** in Cybersecurity startups

20 🔥

- Investment Volume peaked in 2021 at \$23.29B invested over 1.331 rounds
- There are **3.892 VC-backed startups in the sector**, of which **29.5%** have raised Later Stage VC funding
- Especially Cloud Security startups within the Network Security segment have been the focus of VC investments in recent years.

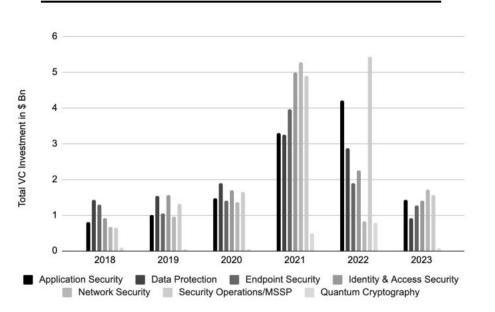
Investors

- **Corporates**: GV, Cisco, Intel, Microsoft, Salesforce, Dell, Samsung, Wayra, Citi
- Venture Capitalists: Accel, Insight Partners, Sequoia Capital, Lightspeed Venture Partners, Andreessen Horowitz
- **Government**: United States Department of Defense, Innovate UK, National Science Foundation, Enterprise Ireland

VC funding rounds had a peak in 2021 - More than 30 cybersecurity companies raised mega rounds over \$200 Mn

Annual funding in Cybersecurity

Total funding and number of rounds, by segment



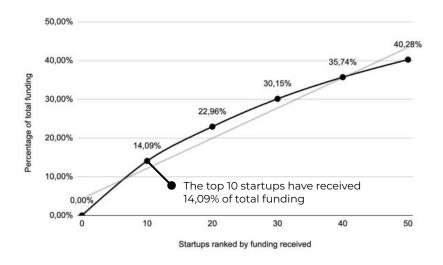
Key take-aways

- While funding was distributed fairly evenly across segments during 2019 and 2020, in 2021 Network Security and Identity & Access Security showed particularly high interest by investors due to the pandemic
- In 2022, many SMBs outsourced their cybersecurity efforts to managed security operations service providers due to cost and scalability issues

22 Funding in the Cybersecurity sector is unevenly distributed with significant increases in funding in 2021

Cumulative funding

Percentage of total funding

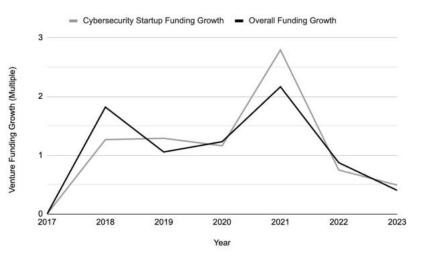


Take-away

Funding among Cybersecurity startups is highly concentrated among the top 30 startups out of the 3.800.

Venture funding growth in Cybersecurity

Indexed growth, funding in 2017 indexed to 1x



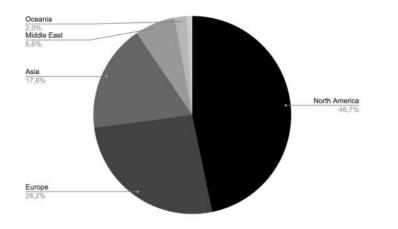
Take-away

Funding growth in Cybersecurity has seen a significant increase of 2.8x in 2021, outpacing the overall market.

Startups are unevenly distributed globally with a majority based in US and UK

Global Startup Distribution

by number of startups per region

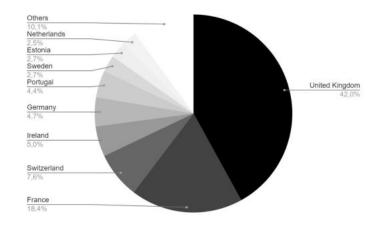


Take-away

- Almost half the global startups are located in the US not only because of the easy access to big tech such as Amazon, Google or Apple, but also due to better access to venture capitalists backing founders in this sector
- Second largest market is Europe as ongoing EU regulation is driving investments in the space and a need for data sovereignty
- Israel in the Middle East is a major hub for cybersecurity especially cloud security startups

European Startup Distribution

by number of startups per region

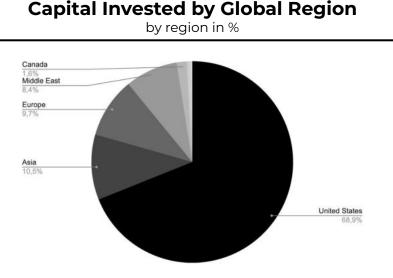


Take-away

- **Europe** accounts for **26% of the global market**; European ventures tend to raise less funding than their global peers.
- The European Cyber Security Organisation & the European Commission have called for action to fill the venture funding gap -Europe's cybersecurity investment platform has recently come out of stealth mode

23 🔥

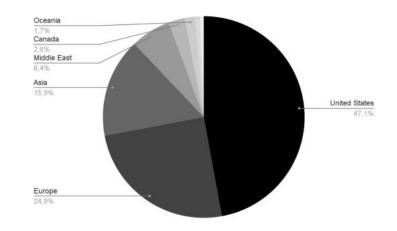
Data Sovereignty and Security is a central topic in macropolitics with future warfare taking place in the cyberspace



Deal Count by Global Region

24

by region in %



Take-away

- The **United States** has long been the **frontrunner of innovation** in the **cybersecurity space**, given that Microsoft, Google, Apple and Amazon are located there
- China is pushing heavily into a yet novel space around quantum cryptography and is currently leading the research race
- Israel has long been a hub for cloud security startups

Take-away

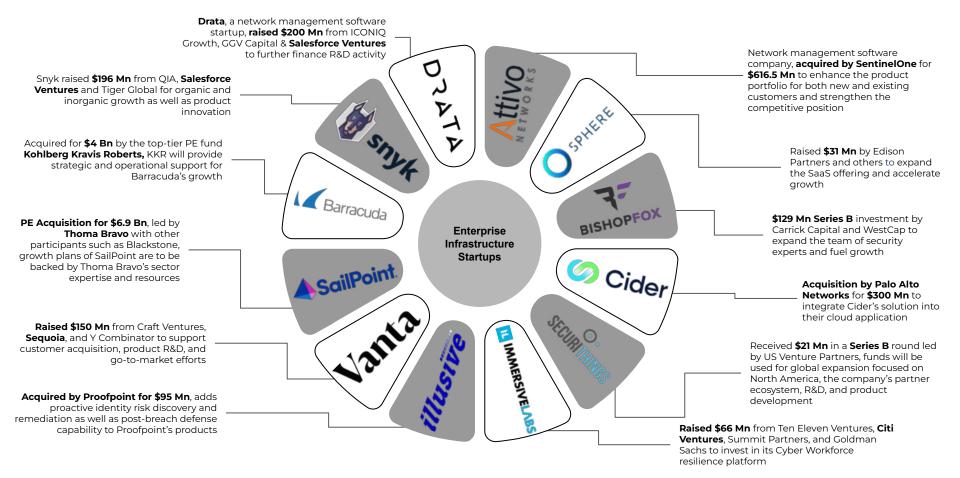
- Europe has a significantly high deal count but yet sees only 9.7% of VC capital invested in the region
- The US receives over 3/3 of the invested capital while only 47% of deals are made here. VCs in the US bet big and companies reach later stages more easily compared to other regions.

Largest VC-backed Acquisitions in the last three years

25 🔥

Company	Acquisition Value	Date	Acquirer	Segment
🛟 Auth0	\$6.50B	May, 2021	okta	Identity Authentication
MANDIANT	\$6.10B	October, 2020	Alphabet	Threat Intelligence
VERAFIN	\$2.75B	February, 2021	Nasdaq	Cloud-based fraud detection
SH=`Pe	\$1.02B	January, 2020	(b).	AI based Security technology
EXPANSE	\$797.20M	December, 2020		Internet Asset Protection
Signal Sciences	\$759.39M	October, 2020	fastly	Web Application Security
	\$700.00M	February, 2020	Moody's	Risk intelligence Service
XM CYBER	\$700.00M	November, 2022	SCHWARZ	Threat Simulation Platform
Guardicore	\$610.44M	October, 2021	Akamai	Data Security Platform
N ETWORKS.	\$534.80M	May, 2022	(I) SentinelOne [.]	Data Security Platform

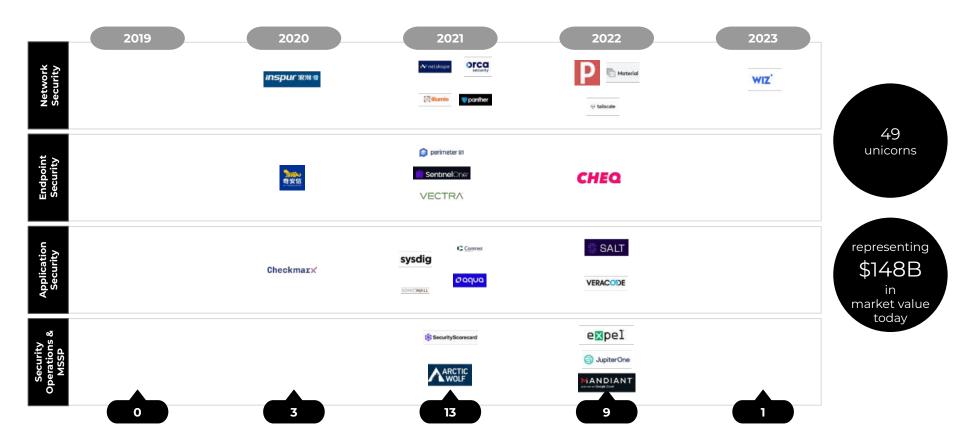
Sector ANALYSIS Major investments and acquisitions in Cybersecurity



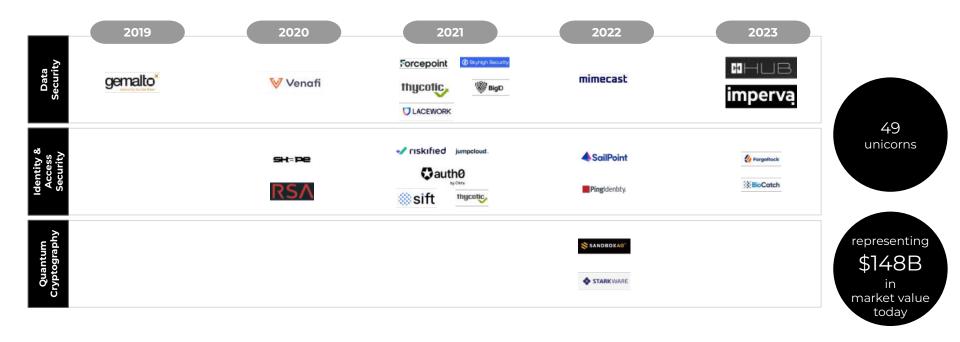
Top Corporate VC investments in HealthTech

h12		Transmit N netskope feedzai	citi ventures
salesforce ventures	1Password WIZ DRATA	Metskope descope	D ECHNOLOgies
investments		SecurityScorecard #Fortanix 🖨 JupiterOne	capital
coinbase	incode 🛝 Matter 🕅 CERTORA	ENVEIL TONIC	Bloomberg BETA
G/		sysdig CLAROTY noname	Next47
okta	kandji	- 是和月技 Guaranti Tech 和其安	Lenovo

Cybersecurity Unicorns in the last 5 years (Page 1) Network Security & Security Operations were prominent trends



Cybersecurity Unicorns in the last 5 years (Page 2) Data and Identity & Access security reached high valuations



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PROMISING STARTUPS 30 🔥

Seven Clusters define the Cybersecurity innovation landscape

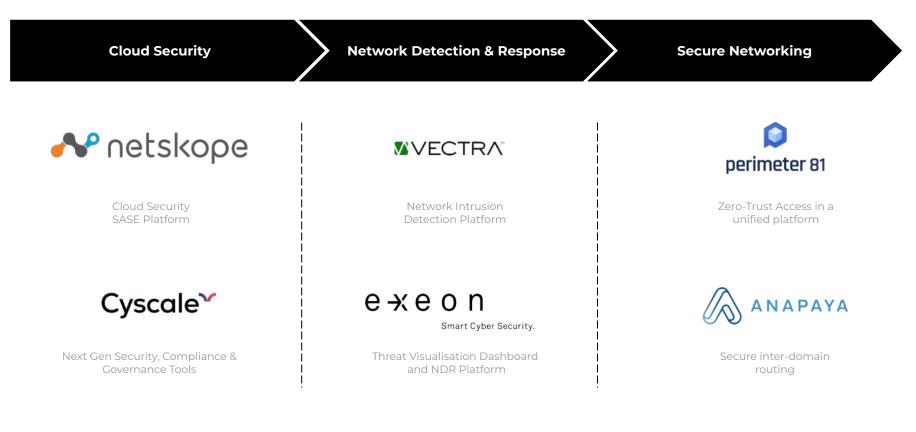


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Network Security

Cloud Security Network Detection & Response Secure Networking CYBERSECURITY - NETWORK SECURITY

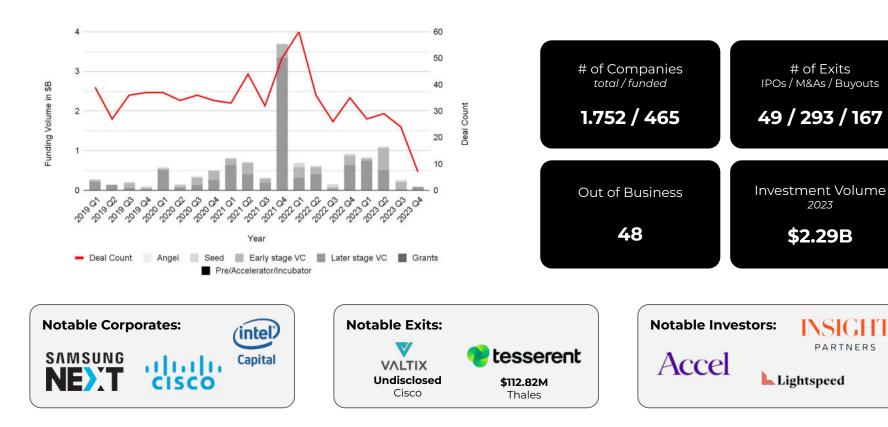
Cloud-based security offers large market opportunities while advanced threat detection remains unexploited



33 🔥

34 🚺 Building comprehensive SASE solutions is the hottest trend within Network Security

PARTNERS



Major Investments in the Network Security segment

	Business Description	Investors	Total Funding
	The company's platform automates every aspect of security , including configuration assessment, behavior monitoring , anomaly, and threat detection as well as incident investigation, and it offers continuous monitoring of all cloud components.	GV, General Catalyst, Coatue Management, Alumni Ventures, Snowflake Ventures and others	\$1.86B Series D
📌 netskope	The company's platform offers a SASE solution that understands the cloud and delivers data-centric security, and gives granular context, via patented technology to enable conditional access and user awareness while enforcing zero trust principles.	Sequoia Capital, Citi Ventures, Dell Technologies Capital, Accel, Lightspeed Venture Partners and others	\$1.45B Later Stage VC
	The company's platform offers continuous vulnerability and risk management and uses APIs and machine learning to offer real-time monitoring, analysis, and alerts on users' behavioral and cloud resources.	Lightspeed Venture Partners, Redpoint Ventures, Deutsche Telekom, and others	\$1.06B Later Stage VC
WIZ	The company's platform offers cloud visibility services for enterprise security by offering an overview of security risks across clouds , containers , and workloads without the need for agents or sidecars.	Lightspeed Venture Partners, Index Ventures, Salesforce Ventures, Blackstone and others	\$801.00M Series D
sysdig	The company's platform stops cloud attacks in real-time , instantly detecting changes in risk with runtime insights and open-source Falco, it correlates signals across cloud workloads , identities, and services to uncover hidden attack paths and prioritize real risk.	Next47, In-Q-Tel, Insight Partners, Accel, Bain Capital Ventures, Mind the Bridge and others	\$739.55M Series G

CloudFence

Search Field	Network Security, Network Management
Location	New York, USA
Year Founded	2023
Total Funding	\$0.02M (Accelerator)
Last Round	\$0.02M (10/2023)
Investor	Techstars
Website	<u>cloud-fence.com</u>

Business Overview

• Platform for network management that enhances security and posture. The solution deploys comprehensive network security and provides insights to manage security in cloud infrastructure, boosting overall security and visibility by integrating Network Security and Posture Management.

Use case & customers

- Cloud Fence partnered with AWS, Google Cloud, and Azure
- Allowing customers to deploy all necessary security services with one click and **ensure instant and comprehensive security, along their entire cloud infrastructure.**

Similar Companies

- Open Cloud Factory (2011, Seed (Undisclosed), EIT Digital and others)
- ReliaQuest (2007, Debt (\$1.87M), FTV Capital and others)

Business Overview

- Network security platform developer shields companies' critical information by proactively identifying potential breach points and automating manual audit checks.
- Beacons attempt connections via Ethernet Broadcast, if successful, the platform alerts you through Syslog, Slack, or HTTP-API.

- Use case & customers

• Empowering IT security operators to maintain continuous network security and segment isolation in alignment with mission-specific policies and regulatory requirements.

Similar Companies

- Hyas (2015, Later Stage (\$25.78M), MicroVentures and others)
- Surefiber Cyber (2022, Early Stage VC (\$10.00M), Forgepoint Capital and others)

Sensorfu

Search Field	Cybersecurity Systems, Network Management
Location	Oulo, Finland
Year Founded	2016
Total Funding	\$0.71M (Later Stage)
Last Round	\$0.71M (11/2021)
Investor	European Union, Business Finland and others
Website	<u>sensorfu.com</u>

Network Security



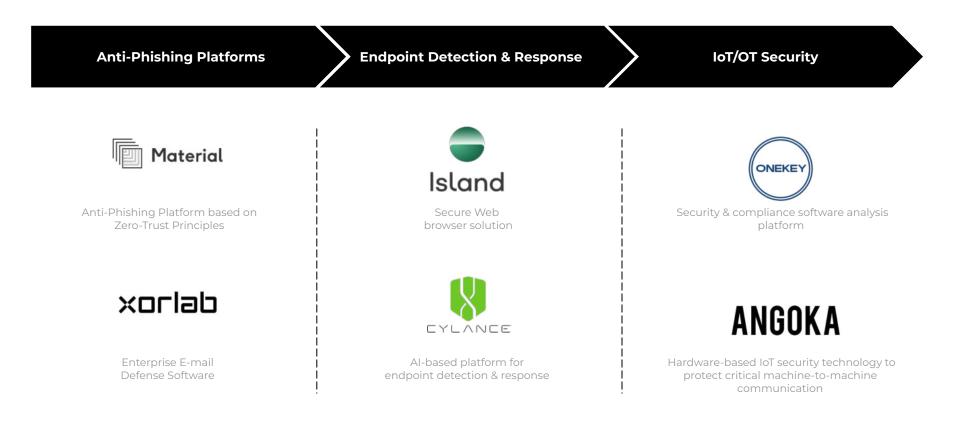


Network Security

Endpoint Security

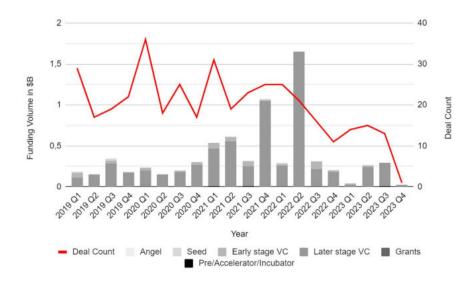
Anti-Phishing Platforms Endpoint Detection & Response IoT/OT Security

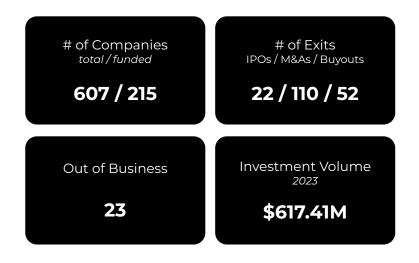
Startups offering Endpoint Security solutions



CYBERSECURITY - ENDPOINT SECURITY

Established next generation Endpoint Security players are crowding out the next wave of startups











Major Investments in the Endpoint Security segment

	Business Description	Investors	Total Funding
securonix	Cloud-based platform using machine learning for real-time analysis of big data, helping clients automatically detect and prioritize insider threats, cyber threats, cloud attacks, and fraud.	Vista Equity Partners, Capital One Ventures, Snowflake Ventures and others	\$1.24B Series D
v cybereason [®]	Cloud-based cybersecurity software using a custom in-memory graph and automated hunting engine to quickly detect and analyze endpoint behavioral patterns, enabling real-time identification and tracking of cyber attacks with minimal manual effort.	Liberty Strategic Capital, SoftBank Investment Advisers, Google Cloud Platform	\$815.00M Series F
CLAROTY	Cybersecurity platform for automated production sites integrates with existing infrastructure, ensuring safety, reliability, and efficient operations by offering controls for visibility, risk management, and threat detection without requiring downtime or dedicated teams.	Rockwell Automation, SE Ventures and SoftBank Investment Advisers and others	\$640.00M Series E
DRAGOS	Cybersecurity software for safeguarding critical infrastructure globally. The software provides vital visibility into ICS and OT networks, preemptively identifying and addressing threats, and is optimized for industries like utilities and manufacturing to establish resilient security.	WestCap, Koch Disruptive Technologies, BlackRock, Schweitzer Engineering Laboratories and others	\$432.20M Series D
Lookout	Privacy-focused cloud security software protecting mobile phones from viruses, malware, and spyware. Offering data backup, restoration, and location tracking features, to secure personal information from serious cyber threats in today's mobile and flexible work environment.	Morgan Stanley Expansion Capital, QVIDTVM, DTCP, BlackRock Private Equity Partners and others	\$420.71M Series F

Infiltron

Ð

FILLER

Endpoint

Security

Search Field	loT Security
Location	Warner Robins, USA
Year Founded	2019
Total Funding	\$0.12M (Accelerator)
Last Round	\$0.12M (08/2022)
Investor	Techstars, United States Department of Defense
Website	infiltron.net

Business Overview

- Cybersecurity platform enhancing biometric protection, fraud detection, and malware prevention for IoT devices.
- Offers three-factor authentication, customized services for business needs, and real-time cybersecurity technology.

Use case & customers

 Providing proactive IoT cybersecurity, utilizing advanced technologies like Ai, Blockchain, and Quantum to detect and prevent malicious attacks across diverse systems.

Similar Companies

- Black Dice (2019, Seed (\$0.56M), Innovate UK, Development Bank of Wales)
- Corenova (2016, Early-Stage (\$0.12M), Mucker Capital, Starburst and others)

Business Overview _

- Dope Security disrupts the SWG market by performing security directly on the endpoint instead of routing traffic through stopover datacenters
- Improves performance up to 4X, ensures that decrypted data never leaves the device, and improves reliability by eliminating external dependencies

Use case & customers

- Dope.swg is **fully customizable** customers decide where users can go with integrated **anti-malware, cloud app controls, and user-based policies**
- They have a patent in the US for their SWG architecture

Similar Companies

- Bloxx (1999, Acquired (\$18.7M), Akamai Technologies)
- Blue Coat Systems (1996, Acquired (\$4.67B), Norton LifeLock))

Dope.Security

Search Field	Secure Web Gateway
Location	Mountain View, USA
Year Founded	2021
Total Funding	\$23.65M (Early Stage VC)
Last Round	\$19.7M (03/2023)
Investor	Google Ventures, Preface Ventures, Boldstart Ventures
Website	dope.security

Endpoint Security

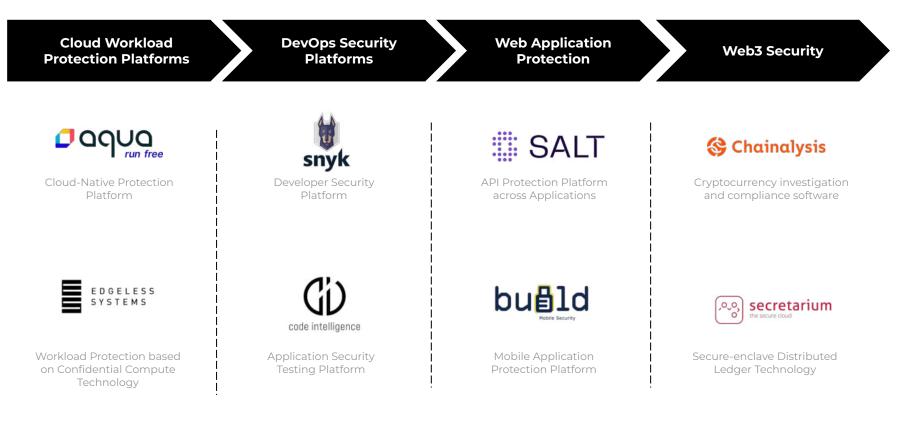
DOPE.SECURITY

Application Security

Cloud Workload Protection Platforms DevOps Security Platforms Web Application Protection Web3 Security CYBERSECURITY - APPLICATION SECURITY

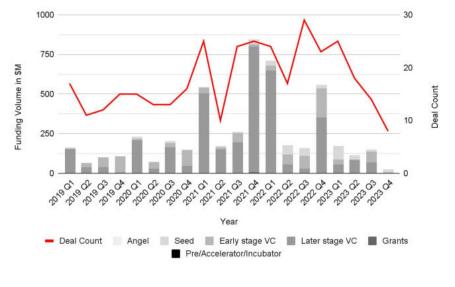
Momentum in the Application Security market is building up but the trajectory of startups is still uncertain

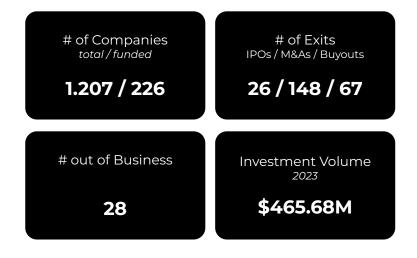
43 🚺



CYBERSECURITY - APPLICATION SECURITY

44 💧 Momentum in Application Security is building but there will be many exits going forward as strategic expansion continues









Major Investments in the Application Security segment

	Business Description	Investors	Total Funding
snyk	The company's platform offers tools that help to find, fix, and monitor known threats in open-source dependencies , secure authoring, and consumption of open-source code .	GV, Accel, BlackRock, T. Rowe Price, Earlybird, Salesforce Ventures, Temasek and others	\$1.07B Series G
	The company's platform works continuously across popular development approaches and technologies to facilitate protection throughout the software lifecycle, enabling businesses to get an accurate assessment of an entire application portfolio.	Battery Ventures, AXA, M12, In-Q-Tel, Ceneral Catalyst, Warburg Pincus and others	\$272.00M Series E
SALT	The company's patented solution uses machine learning and AI to automatically and continuously identify attackers and provide protection , learns the granular behavior and requires no configuration or customization to pinpoint and block attackers.	CrowdStrike, Sequoia Capital, Y Combinator, Tenaya Capital, DFJ Growth and others	\$270.74M Later Stage VC
	The company's platform provides full visibility and security automation across an application's entire lifecycle as well as prevents suspicious activities and attacks.	Insight Partners, Capital One Ventures, Lightspeed Venture Partners, M12 and others	\$266.13M Later Stage VC
imperva	The company's platform specializes in offering a range of services including cloud-based security services consisting of web application firewall services , database protection, data masking , load balancing , attack analysis, behavior analytics and content delivery network.	Blackstone, KKR, Accel, Greylock, Venrock, Elliott Investment Management and others	\$263.25M Announced M&A

Edgeless Systems

Search Field	Cloud Workload Protection, Confidential Computing
Location	Bochum, Germany
Year Founded	2020
Total Funding	\$7.00M (Seed)
Last Round	\$5.00M (03/2023)
Investor	SquareOne, Plug & Play, SIX FinTech Ventures, Possible Ventures and others
Website	edgeless.systems

Business Overview

- Developer of confidential computing technology intended to combine hardware and software to make computing trustworthy
- Presents a solution to encrypt any digital file across multiple clouds and workspaces
- Data is **permanently encrypted**, instead of being en/decrypted constantly

Use case & customers

- Regulated Industries can move data into the cloud because it is kept permanently encrypted
- Enables companies to accelerate the shift into the cloud without security concerns
- Customers include Bosch, Telekom and Intel

Similar Companies

- Enclaive (2021, Angel (Undisclosed), Business Angels)
- Decentriq (2019, Series A (\$23.81M), b2venture, Plug and Play, StartX, Atlantic Labs and others)

Business Overview ____

- Automated application security testing platform designed to find and help fix vulnerabilities in software
- The technology relies on feedback-based fuzzing (a type of testing in which software is repeatedly confronted with random data)
- The tech is **partially open source**

- Use case & customers

- In the automotive industry, security bugs are consequential, especially if found in a later stage of development, or worse, after shipping
- therefore, companies are **integrating**
- automated testing procedures
- Clients include Bosch, Continental, & Secunet

Similar Companies

- Malwarebytes (2004, PE (\$574.00M), Vector Capital, Fidelity, MicroVentures)
- DuoSecurity (2010, PE (\$102.00M), KG Investments, Cisco, Workday, ESO Fund)

Code Intelligence

Search Field	Application Security Testing Platform, DevOps Security
Location	Bonn, Germany
Year Founded	2017
Total Funding	\$15.00M (Series A)
Last Round	\$11.96M (05/2022)
Investor	LBBW, HTGF, Verve Ventures, Occident Group, University of Bonn and others
Website	<u>code-intelligence.com</u>





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Application Security

Security Operations & MSSP

Log Ingestion & SIEM Managed Security Services

Security Risk Assessment & Management

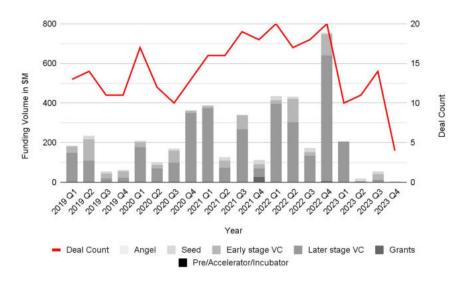
Security Orchestration, Automation & Response

Resource constraints, lack of budget, and missing expertise lead to enterprises outsourcing security operations



48 💧

49 🔥 Startups can capitalize off the need for 24/7 Security services and integrated managed detection & response











Major Investments in the Security Operations and MSSP segment

	Business Description	Investors	Total Funding
ARCTIC	The company's platform offers continuous vulnerability and risk management and uses APIs and machine learning to offer real-time monitoring, analysis, and alerts on users' behavioral and cloud resources.	Lightspeed Venture Partners, Redpoint Ventures, Deutsche Telekom, and others	\$1.06B Later Stage VC
* Blue Voyant	Developer of a cybersecurity platform that strengthens defense by detecting, responding to, and remediating breaches. The platform provides threat intelligence, managed security services, and professional insights for enhanced security posture.	Liberty Strategic Capital, Temasek, Samsung Next Ventures, Primark Capital and others	\$585.50M Series D
🗙 AXONIUS	Cybersecurity asset management platform for businesses, offering unified visibility and control for connected devices, ensuring secure device adoption and usage at scale.	Accel, Accel, Bessemer Venture Partners, Lightspeed Venture Partners and others	\$395.09M Series E
 deepwatch	Managed security platform providing content, tactics, techniques, and procedures for identifying issues and enhancing security maturity. Including maturity models, data-centric deployment models, delivery squads, and real-time collaboration.	Splunk Ventures, Vista Equity Partners, ABS Capital Partners and others	\$256.40M Series B
SecurityScorecard	Security rating platform empowering organizations with collaborative security intelligence. The platform identifies vulnerabilities from a hacker's perspective, covering network, endpoints, DNS health, and IP reputation.	GV, Intel Capital, Fitch Ratings, Silverlake and others	\$293.42M Series E

Currently fundraising. For more information contact investments@peakzone.io

Buashell

Search Field	Penetration Testing, Cyber Security Solutions
Location	Berlin, Germany
Year Founded	2020
Total Funding	Undisclosed (Early Stage VC)
Last Round	Undisclosed (11/2022)
Investor	HCS Beteiligungsgesellschaft
Website	bugshell.com

Correct End

Security Operations

Business Overview

- Cutting-edge penetration testing platform that swiftly detects vulnerabilities in real time, enhancing test efficiency and accessibility.
- The Platform includes phishing simulations, security vulnerability identification, and remediation, offering a full range of cybersecurity services.

Use case & customers

• Bugshell simplifies cybersecurity testing for its customers by matching expert skills with their testing needs, orchestrating the entire process via the platform, enabling them to streamline pentesting and phishing simulations.

Similar Companies

- HackerOne (2012, Series E (\$159.40M), EQT Ventures. Benchmark and others)
- Cobalt.io (2013, Series B (\$44.15M), Toyota Ventures. Kima Ventures and others)

- **Business Overview** Scalable cloud-based security applications tailored for highly distributed or regulated environments Institution-wide risk assessment system that inventories, classifies, and evaluates regulatory compliance across systems. Use case & customers • Partners are AWS and Texas Department of Information Resources (DIR) • One of the use cases is **building a reliable** risk and compliance process by automating the assessment lifecycle. **Similar Companies** • McAfee (1987, Debt (\$1M), Kennedy Lewis Capital Co BDC) • ISMS.Online (2005, Later Stage VC (\$2.59M, Cow Corner Investing) SaltyCloud Search Field Security Operations, Cybersecurity Risk Management Locati
 - Security Operations



51 🚺

on	Austin, USA
ounded	2017
unding	\$0.02M (Accelerator)
ound	\$0.02M (06/2020)
or	Amazon Web Services, Techstars
te	saltycloud.com

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A DEEP DIVE INTO BUGSHELL



Jakob Semmler CEO Bugshell

Important Milestones:

- Concept Phase in August 2021
- Platform Launch in April 2022
- Official Market Entry in 2023
- Focused on market penetration until the next funding round

Bugshell's products bridge the gap between automated tools and traditional testing approaches, enhancing results and simplifying collaboration. The platform includes Pen-Testing for IT infrastructure and Phishing Simulation for social engineering.

Bugshell employs phishing simulations in conjunction with pen-tests in order to evaluate the security of a company on a social and technical level. Thereby simulating real world attacks realistically.

The platform is characterized by its unique ability to create comprehensive hacking scenarios for companies. Unlike standard solutions, bugshell offers more effective insights by utilizing the platform to generate detailed, consistent, and responsive reports.

"Compared to other platforms, we focus on EU-professionals with industry experience. Our solution is ideal for companies that are required to continuously assess their susceptibility to cyberattacks."

A DEEP DIVE INTO BUGSHELL



Jakob Semmler CEO Bugshell

Important Milestones:

- Concept Phase in August 2021
- Platform Launch in April 2022
- Official Market Entry in 2023
- Focused on market penetration until the next funding round

In Bugshell's perspective, the company sees substantial **market potential** across diverse industries, especially within the German Medium-sized companies. With approximately **30.000** companies in Germany legally required to take pen-testing each year, there is a sizable market that spans critical sectors such as automotive and finance.

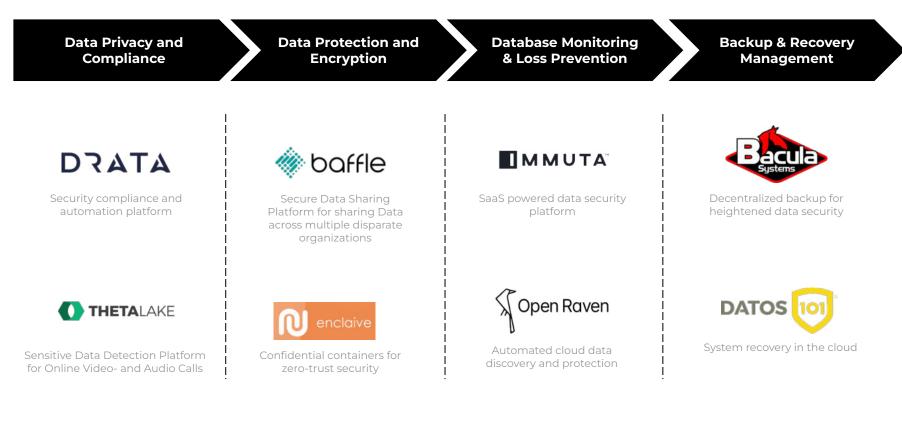
The strategic focus lays on midsize enterprises, showcasing its ability to cater to various industries by aligning freelancers' expertise with specific sectors. Jakob Semmler highlights the challenges of introducing innovative solutions to the market and emphasizes Bugshell's focus on companies with significant needs and faster implementation timelines.

Bugshell distinguishes itself as the **exclusive European provider** in a market largely dominated by global platforms. This underscores Bugshell's commitment to a **European-centric approach**, aiming to foster collaboration among European experts and businesses. This unique positioning aligns with Bugshell's vision of creating a secure digital environment, making it a noteworthy player in the industry.

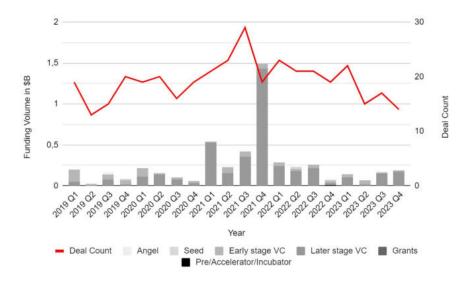
Data Security

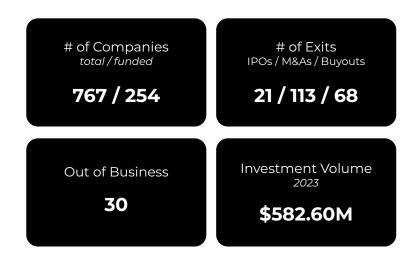
Data Privacy & Compliance Data Protection & Encryption Database Monitoring & Loss Prevention Backup & Recovery Management CYBERSECURITY - DATA SECURITY

As Big Data analytics & data-focused regulation increases, a growing need exists for data security platforms



VCs only bet small on emerging Data Protection solutions as only few startups reach significant scale









Major Investments in the Data Security segment

	Business Description	Investors	Total Funding
	The company's platform automates every aspect of security, including configuration assessment, behavior monitoring, anomaly, and threat detection as well as incident investigation, and it offers continuous monitoring of all cloud components.	GV, General Catalyst, Coatue Management, Alumni Ventures, Snowflake Ventures and others	\$1.86B Series D
imperva	Developer of data security software for end-to-end protection during digital transformation, offering cloud-based services like web application firewall, database protection, data masking, and analytics.	Meritech Capital, Accel Partners, Greylock Partners, US Venture Partners and others	\$263.52M Series D
resilience	A cyber risk company providing tailored insurance for mid-to-large enterprises, using advanced risk models for contract certainty. They prioritize real-time threat analysis and offer customized action plans for efficient cyber policy transactions and enhanced risk understanding.	Plug and Play Tech Center, Lightspeed Venture Partners, General Catalyst and others	\$221.20M Series D
We BigID	Data protection platform using advanced technology to help enterprises safeguard sensitive data, reduce breach risk, and ensure compliance with regulations like the EU General Data Protection Regulation.	Salesforce Ventures, Microsoft for StartUps, Bessemer Venture Partners and others	\$196.26M Series D1
V Venafi	Machine identity protection platform securing machine connections through orchestration of cryptographic keys and certificates for SSL/TLS, IoT, mobile, and SSH in hybrid and multi-cloud environments	MicroVentures, Thomas Bravo	\$190.00M Series E

Cyber insight

Search Field	Data Protection Platform, Cyber risk analysis
Location	Leipzig, Germany
Year Founded	2022
Total Funding	\$1.61M (Early Stage VC)
Last Round	\$1.61M (03/2023)
Investor	Technologiegründerfonds Sachsen
Website	<u>cyber-insight.de</u>

cyber insight

Data Security

Business Overview

• Developer of a cybersecurity platform focused on data protection, risk analysis, and regulatory compliance. The platform helps clients make data-driven decisions, improve data security, meet regulatory standards, and reduce the risk of data breaches.

Use case & customers

• Cyber-Insight lets customers efficiently identify and minimize security risks with Al-driven assessments and automated measures, ensuring cost-effective risk reduction.

Similar Companies

- Vormetric (2001, Acquired (\$411.37M), Thales)
- Riela Cyber (2018, Undisclosed)

Business Overview All-in-ONE Disaster Recovery and Backup

- software with Physical, virtual, SaaS, and DevOps backup (endpoints, Server, VMWare, Microsoft 365, and Git platforms)
- They advertise their easy-to-use UX and high scalability for multi-site management

- Use case & customers

- Partners include MSPs and Resellers
- 100.000+ clients including Subway and Telekom
- Their offering includes different cloud storage options

Similar Companies

- Code42 (2001, US, >\$138 Mn (PE Growth), Accel, TriplePoint Capital and others)
- Nasuni (2008, US, \$261 Mn (PE Growth), , Goldman Sachs, Dell, Flybridge and others)

Xopero

Search Field	Backup & Recovery Management
Location	Gorzow Wielkopolski, PL
Year Founded	2009
Total Funding	>\$0.30M (Seed Round)
Last Round	\$0.3M (02/2019)
Investors	Black Pearls VC, Torro Investment and other
Website	<u>xopero.com</u>





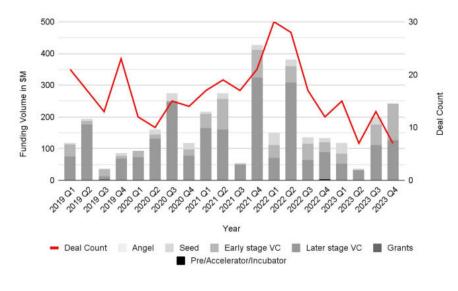
Identity & Access Security

Access Management Fraud Prevention Identity Governance & Administration

IAS software is a crucial tool for managing data and access across enterprise networks



61 🚺 The high level of consolidation in Identity & Access Security will lead to new emerging unicorns and market leaders









Major Investments in the Identity & Access Security segment

	Business Description	Investors	Total Funding
	Cloud identity company, providing products like Identity Management and Access Management. Revenue comes from term licenses, SaaS, and maintenance.	Thoma Bravo (Acquirer), KKR, Accenture, Accel, WestWave Capital, and others	\$547.88M Buyout
jumpcloud.	The company's platform offers server management security , including user management, administration activity monitoring, and configuration assessment , enabling IT teams to securely manage user identities and connect them to resources they need.	Alumni Ventures, NTT Docomo Ventures, Blackrock, General Atlantic, OurCrowd and others	\$417.92M Later Stage VC
े BioCatch	The company's behavioral biometrics flags users' digital behavior t hat presents a potential risk, without compromising user privacy and flags increasingly sophisticated social engineering scams , helps global banks detect fraud and reduce friction.	Citi Ventures, Bain Capital, Barclays, HSBC, American Express Ventures, National Australian Bank and others	\$281.62M Later Stage VC
号 semperis	The company offers the availability of critical enterprise directory services at every step in the cyber kill chain and cuts recovery time and protects identities from cyberattacks, data breaches, and operational errors.	Insight Partners, KKR, Maverick Ventures, Ten Eleven Ventures and others	\$256.95M Series C
A SailPoint	The company designs, develops , and markets identity governance software that helps organizations govern user access to critical systems and data .	Thoma Bravo (Acquirer), Lightspeed Venture Partners, Austin Ventures, Whoa Ventures, and others	\$226.85M Buyout

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Bleckwen

Search Field	Fraud Prevention, Fraud Detection
Location	Paris, France
Year Founded	2019
Total Funding	\$10.13M (Early Stage)
Last Round	\$10.13M (06/2019)
Investor	Bpifrance, TempoCap, Ring Capital, Engie
Website	<u>bleckwen.ai</u>

_ Business Overview

• Al-powered fraud detection platform for banks, optimizing irregularity detection, adapting to new fraud schemes, and enhancing overall security. The platform reduces customer friction and improves fraud detection.

Use case & customers

- Customers include **BNP Paribas, PSA Finance**
- Delivers personalized fraud detection solutions to customers.

Similar Companies

- Scopio Labs (2014, Series C (\$102.53M), Aescuvest, Ilex Medical and others)
- Markbotics (2022, Seed (\$1.00M), Undisclosed)

Business Overview

- Astrix Security helps cloud-first companies defend against supply chain attacks
- It provides holistic visibility into app-to-app connections and automatically detects over-privileged, unnecessary and malicious integrations to prevent supply chain attacks, data leaks and compliance violations

- Use case & customers

- Astrix helps Figma's (acquired by Adobe) security promise by effectively monitoring risks from third-party SaaS integrations
- Astrix covers various integrations from Salesforce and Microsoft 365 to GitHub and Snowflake offering API Access Monitoring

Similar Companies

- Persona (2015, Series C (\$185.00M), Insight Partners, Index Ventures, and others)
- Securden (2018, Series A (\$11.7M), Accel, Tiger Global Management and others)

Astrix Security

Search Field	Access Management, Software Supply Chain Visibility
Location	Tel Aviv, Israel
Year Founded	2021
Total Funding	\$40.00M (Series A)
Last Round	\$25.00M (06/2023)
Investor	Bessemer Venture Partners, Venrock, CRV, F2 Venture Capital, Kmehin Ventures
Website	<u>astrix.security</u>

Identity & Access Security





Identity & Access Security

64 🔥

Quantum Cryptography

Post-Quantum Cryptography Quantum Key Distribution CYBERSECURITY - QUANTUM CRYPTOGRAPHY

Quantum computers will have the ability to break the cryptographic mechanisms we rely on today

Post Quantum Cryptography

Quantum Key Distribution



Post-RSA cybersecurity modules



High-performance quantum-safe security solutions for the protection of data in transit - having commercialized QKD

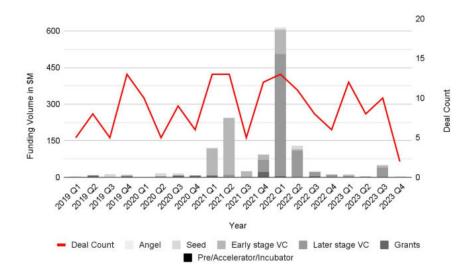


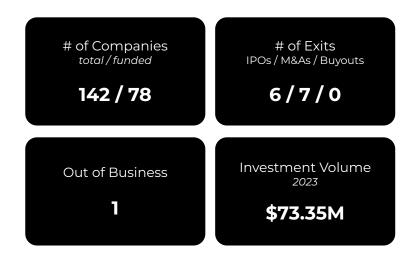
Post-quantum algorithms around secure messaging, VPNs, key management, blockchain, and IoT



Single-photon detectors that enable scaling of solutions in quantum computing

66 The Quantum Cryptography venture market is largely driven by government funding











Major Investments in the Quantum Cryptography segment

	Business Description	Investors	Total Funding
SANDBOXAQ"	SandboxAQ, an Alphabet spin-out , blends Al and quantum tech to address societal challenges, offering clients a competitive edge with solutions like crypto-agile security and quantum optimization before scalable quantum computers are widely available.	Spin-out from Alphabet, T. Rowe Price, Eric Schmidt, Amadeus Capital Partners and others	\$500.00M Series D
STARK WARE	The company's system offers cryptographic proofs that are succinct, transparent, and post-quantum secure , providing blockchain users with a secure, fast, and seamless experience with improved privacy.	Coatue Management, Atomico, Alameda Research, Coinbase Ventures, and others	\$261.52M Series D
	The company's algorithm addresses the fundamental questions of quantum physics and their manifestations in the world based on quantum computing to build quantum technology for a better future.	Lakestar, Investcorp, Anders Indset	\$85.90M Early Stage VC
Quintessence Lobs Data Uncomposition	The company's cybersecurity technologies are used for cryptographic purposes to centralize the management and control of data-security policy and harness quantum science properties.	Chevron Technology Ventures, In-Q-Tel, Australian Government, and others	\$50.67M Series B
Optalysys	The company's systems boost the efficiency of existing systems and protect both the model and the data without breaching confidentiality with quantum secure encryption , and equation-solving processes from the cloud.	Innovate UK, Horizon 2020, Verve Ventures, QVentures, DARPA and others	\$41.42M Series A

ID Quantique

Search Field	Quantum Cryptography, QKD, PQC
Location	Geneva, Switzerland
Year Founded	2001
Total Funding	Undisclosed (Later Stage VC)
Last Round	Undisclosed (02/2019)
Investor	T.Capital, Paeonia Ventures, SK Telecom (Strategic Acquisition)
Website	idquantique.com



Quantum

Cryptography

- IDQ provides high-performance quantum-safe security solutions for the protection of data in transit
- Built a comprehensive range of QKD solutions that are effective up to 150 km
- They developed a random number generator and provide photonic sensing solutions

Use case & customers

- Spin-out from and strong research collaboration with the University of Geneva
- **SK Telecom** strategically **invested \$65.00M** into IDQ to become a leader in Quantum Communications
- DocuSign uses IDQ's products

Similar Companies

- KETS Qunatum Security (2016, Grant (\$20.8M), Speedinvest and others)
- **QEYnet** (2016, Grant (\$7.00M), Government of Canada)

Business Overview

- Pixel Photonics develops highly scalable integrated-optical single-photon detectors that enable scaling of solutions in quantum computing, QKD, imaging and more
- Within the **QSAMIS project**, funded by **BMBF**, aim to develop the first gigabit QKD system to **enable quantum-secure communication**

- Use case & customers

- Spin-out from and strong research collaboration with the University of Munster
- Pixel Photonics will deliver single-photon detectors for QuiX in DLR development project to help commercialize quantum communication

Similar Companies

- Quantum Technology Laboratories (2017, Grant (\$0.25M), European Union)
- KEEQuant (2020, Undisclosed Funding)

Pixel Photonics

Search Field	Quantum Cryptography
Location	Münster, Germany
Year Founded	2020
Total Funding	\$1.60M (Grant)
Last Round	\$0.47M (05/2023)
Investor	High-Tech Gründerfonds, Bundesministerium für Bildung und Forschung, Quantonation
Website	pixelphotonics.com

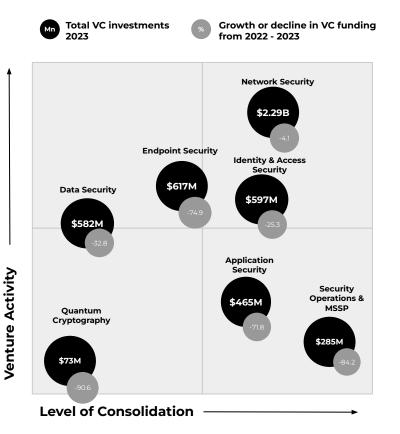
Quantum Cryptography



SUMMARY

SUMMARY

70 💧 Ranking the Cybersecurity segments in relation to each other



In the dynamic landscape of cybersecurity funding between 2022 and 2023, there were **notable shifts in several** segments. While the network security segment saw a slight decline of 4.07%, it continued to show robust consolidation trends with an acquisition-to-funding ratio of 63.01%. In contrast, endpoint security suffered a significant decline of 74.88%. The Security Operations & MSSP segment faced an 84.15% decrease in funding, possibly indicating challenges, while the acquired-to-funded startups ratio remained remarkable at 119.80%. Data security remained competitive with a 32.79% decrease in funding and maintained a 44.49% acquisition to funding ratio. Identity and access security 25.25% decrease in funding. but the saw а acquisition-to-funding ratio remained high at 63.90%. In the emerging area of quantum cryptography, despite a 90.63% decrease in funding, the acquisition-to-funding ratio was relatively low at 8.97%, reflecting the early stage of development and potential consolidation in this niche sector in the future.

PEAKZONE Research: Venture activity aggregates as a measure of funding growth, total investment in the sector and the percentage of funded to total startups; Level of consolidation measures the percentage of acquired startups to VC funded startups in the sector

SUMMARY



Network Security: In 2021, investments in network security soared to \$5.56 billion across 159 deals, driven by an increase in cloud security investments, particularly in the cloud-based Secure Access Service Edge (SASE) market. M&A activities surged as companies sought to enhance cloud security offerings in response to growing demand.



Endpoint Security: In 2021, endpoint security startups secured \$2.5 billion in funding, doubling the previous year's value, fueled by a surge in ransomware attacks on industrial firms. Despite a highly competitive environment, established players like CrowdStrike and SentinelOne dominate the market, prompting a shift toward the emerging XDR approach, which automates detection and response to breaches across IT environments.



Application Security: In 2021, application security deal value more almost tripled to \$1.8 billion, driven by Web3 and DevOps security segments. DevOps security, led by significant funding for Snyk revealed potential overvaluations with Snyk's 2022 down round. Challenges persist for startups in cloud workload and web application protection, as incumbent cloud providers like AWS may limit demand, while the overall market immaturity poses hurdles to scaling and adoption for application security solutions.



Security Operations & MSSP: In 2022, VC investment in security operations hit \$1.8 billion, with almost half directed to managed security services, marking a 108% increase from 2020. The SIEM and SOAR markets, though highly competitive, are witnessing rapid innovation, with incumbents like Sumo Logic disrupting SIEM, while Google's acquisition of Siemplify highlights market consolidation. Opportunities are also being created for startups like Expel, deepwatch, and Cygilant in the SOC-as-a-service space.

SUMMARY



Data Security: In 2021 and 2022, VC funding for data security reached \$2.7 billion and \$866 million, driven by a significant increase in data protection & encryption deals, notably for companies like Rubrik, Acronis, and OwnBackup. Startups disrupting the data backup market with advanced features like immutable backups, isolated recovery environments, and integrated malware scanning are gaining traction, challenging incumbent solutions. While homomorphic encryption is gaining interest, the mature Data Loss Prevention (DLP) market, dominated by established providers like Microsoft and Forcepoint, poses challenges for highly-funded VC-backed companies seeking market expansion.



Identity & Access Management: In 2021, Identity & Access security saw a surge in venture activity, reaching \$972 million, driven by significant funding in the Fraud Prevention segment. Passwordless authentication, particularly in identity governance & administration, is on the rise, with Beyond Identity and Secret Double Octopus leading the way, while startups like Incode are prioritizing customer convenience and security to stay competitive in the evolving digital identity verification space.

SUMMARY



Quantum Cryptography: In 2022, venture funding in quantum cryptography startups reached \$782 million, highlighted by a \$500 million mega-round for Alphabet spin-off SandboxAQ, chosen by NIST for standardized PQC algorithms. Most quantum-safe encryption startups, still in early stages, rely on grant funding, with exceptions like ArQit using symmetric encryption. The evolving quantum encryption landscape faces short-term risks for investors, and the success of companies like SandboxAQ suggests increased acquisitions and continued investment before NIST standards are finalized.

CONTACT DETAILS





Lorenz Hartung | CEO PEAKZONE GmbH

Sollner Str. 24h | 81479 Munich

e-mail: l.hartung@peakzone.io phone: +49 176 4889 5000

Elias Maier | Chief of Staff PEAKZONE GmbH

Sollner Str. 24h | 81479 Munich e-mail: e.maier@peakzone.io phone: +49 176 4709 4134