

# CYBERCRIME is a HUGE problem.

The World Economic Forum estimates that **cybercrime could reach**

**\$10.5 trillion** annually by 2025<sup>1</sup>

According to the FBI, **cybercrime costs Americans over**

**\$6 billion** annually<sup>2</sup>

**83%** of organizations



have had **more than one breach**.<sup>3</sup>

## Cybercrime can have a significant impact.

According to IBM, for a company that experiences a **data breach**, the **average cost** is

**\$4 million** globally<sup>3</sup> & **\$9 million** in the U.S.<sup>3</sup>

The moderate estimated damage of a **data breach** in **Healthcare** is over

**\$10 million**<sup>3</sup>

The **average cost** to a company of a **ransomware attack** is over

**\$4 million**<sup>3</sup>

It takes an average of

**277 days**

to **identify and contain a breach**.<sup>3</sup>

## Security spending is large and growing.



**1 in 5 dollars**

of the IT budget now **goes toward security**.<sup>4</sup>

**69%**

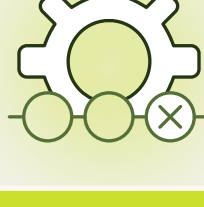
of CFOs expect to **increase their security budgets**.<sup>5</sup>

Global **security spending** is rising

**5% yearly**<sup>5</sup>

## Graph databases can be part of a strategy to reduce the risk of fraud and cybersecurity incidents.

Here are some ways they can be used to this end:



### Software supply chain

Graph databases can **determine which security packages are included** in a company's products and services, enabling organizations to remediate the issue by replacing or fixing a compromised system.

**ArangoDB** is at the core Finite State's software bill of materials (SBOM) platform, enabling them to **deliver a comprehensive risk assessment of vulnerabilities** to their customers.



### Counterfeiting

Graph databases can **uncover fraudulent seller networks** that sell counterfeit products using various accounts and marketplaces to cloak their identities.

**ArangoDB** helps a security company create a new SaaS product offering to detect counterfeit sales activities across more than 100 marketplaces and **take down fraudulent seller networks**.



### Intellectual property

Graph databases can **detect unauthorized intellectual property** egress from email systems by mapping out which individuals have emailed sensitive information to others.

**ArangoDB** helps software companies track sensitive emails sent between millions of users, enabling them to **detect unauthorized intellectual property leakage**.



### Security anomaly detection

Graph databases can help **detect security-related anomalies** in log files, enabling companies to remediate security issues quickly.

**ArangoDB** helps a SaaS log management company efficiently find anomalies in a massive data stream of 1 million events per second, enabling them to help their customers more **quickly remediate security issues**.

#### Sources:

<sup>1</sup> World Economic Forum; *Why We Need Global Rules to Crack Down on Cyber Crime*; January 2023.

<sup>2</sup> Digital Guardian; Chris Brook; *Cybercrime Cost U.S. \$6.9 Billion in 2021*; September 2022.

<sup>3</sup> IBM; *Cost of a data breach 2022, A million-dollar race to detect and respond*.

<sup>4</sup> KnowBe4; Stu Sjouwerman; *Cybersecurity Spend Is Now More Than 20% of the Average IT Budget As 91% of Organizations Suffering an Attack had Operations Impacted*; May 2022.

<sup>5</sup> Gartner; Meghan Rimol; *Gartner Forecasts Worldwide IT Spending to Grow 5.1% in 2023*; October 2022.

#### About ArangoDB

ArangoDB is the company behind ArangoGraph Insights Platform, a next-generation graph data and analytics platform that uncovers insights in data that are difficult or impossible with traditional SQL, document, or even other graph databases — making it easier to drive value from connected data faster. ArangoGraph Insights Platform is the scalable backbone for graph analytics and complex data architectures for thousands of Fortune 500 enterprises and innovative startups across many different industries, including financial services, healthcare, and telecommunications.

Founded in 2015 in Cologne, Germany, ArangoDB Inc. is a venture-backed, next-generation graph data and analytics company headquartered in San Francisco, California, with offices and employees worldwide. Learn more at [arangoDB.com](https://arangoDB.com).

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