opentext[™] Cybersecurity

Building cyber resilience with layered security

Discover the measures you need to thrive in an evolving threat environment

Copyright© 2023 OpenText Corporation. All rights reserved.







Introduction

In 2022, almost a third of all medium-sized businesses were hit by malware infections^[1]. For larger SMBs, that figure rose to almost 60%^[1]. At the same time, the average cost to business of a data breach rose to over US\$4 million^[2]. This explosion in the scale of the threat is happening against a backdrop of rapid digital transformation.

1. https://www.opentextcybersecurity.com/threat-report

2. https://www.securitymagazine.com/articles/98486-435-million-the-average-cost-of-a-data-breach

3. https://www.statista.com/statistics/870924/worldwide-digital-transformation-market-size

In 2023, it's estimated that businesses worldwide will spend more than US\$2 trillion on digitizing their workflows, their supply chains, and their customer interactions^[3]. These investments are a response to changing business needs, with customers increasingly demanding a digital or hybrid customer experience.

But this rapidly expanding digital footprint makes companies more vulnerable than ever to cybercrime, at exactly the time when the volume of that crime is exploding. To avoid regulatory, reputational, and other types of risk, business needs a way to defend itself.

The answer is defense in depth, using a multi-layered system of cyber resilience. A layered approach to security minimizes the attack surface the organization exposes to cybercriminals, maximizes the protection against unauthorized access of data breaches. It also gives the business the greatest possible flexibility and resilience in its response and recovery to any cyber incident.

In this ebook, we explain how a layered approach to security can give your business the edge over cybercriminals and a head-start in the market. We cover the technologies you need to protect your business. And we explain how market leaders are using those technologies to safeguard your investment in digital transformation — and more.





Contents

Executive summary

Why does business need to think cyber resilient?

The prevention layer

The protection layer

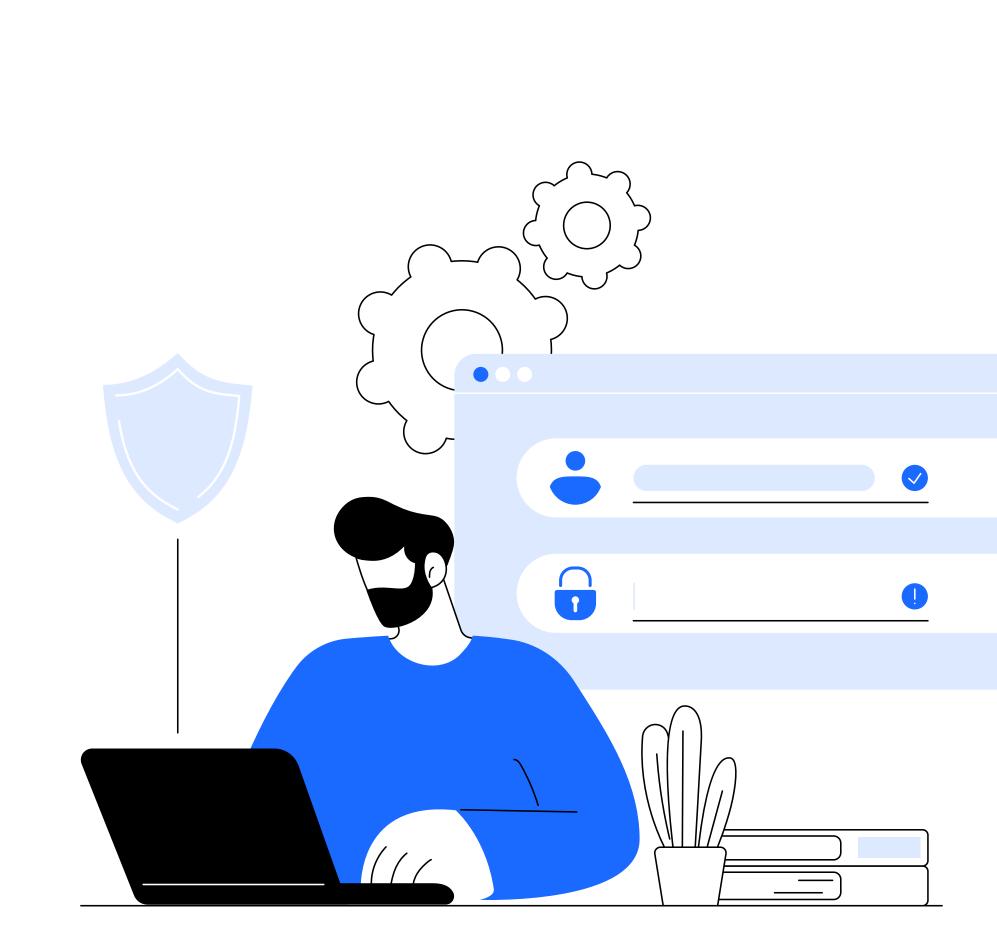
The recovery layer

Building the cyber resilient business

A sample business

Next steps

opentext[™] | Cybersecurity









Executive summary

Today, businesses are digitizing at breakneck speed, spending billions to transform their internal workflows and their routes to market. Protecting this investment has never been more important.

Any data breach or unplanned downtime risks damage to the company's reputation, its digital infrastructure and business model. Because of this, it's never been more important for companies to protect themselves against cybercrime and other more physical or natural threats to their digital infrastructure.

But it's also never been harder to achieve this. The volume and the complexity of threats are growing and multiplying all the time. Whether it's the rise in ransomware or the increasingly sophisticated attacks via social engineering, security has never been more complex.

The best way to overcome this challenge, and deliver market-leading protection, is with a defense-in-depth approach that relies on a sophisticated, layered security strategy.

The layers of a modern security strategy include:

- **Prevention:** combines technology such as endpoint and DNS protection with robust security-awareness training to stop threats before they even reach your network.
- **Protection:** with email protection, encryption, and continuity, you can minimize the risk of threats damaging devices and systems or causing downtime.
- **Recovery:** with sophisticated backup and failover, as well as SaaS and business continuity measures, you harden your resilience and minimize time to recovery.

These layers go hand-in-hand with training to sustain a culture of security awareness among all colleagues. And they work best when underpinned by a single, unifying layer of management control and intelligence that gives access to all the cybersecurity data and tools they need through a consolidated platform.

OpenText Cybersecurity is a market leader in intelligent cybersecurity for businesses. Through Secure Cloud, it gives companies a control panel of advanced cyber security tools, including email encryption and protection, endpoint security, software-as-a-service (SaaS) backup and information archiving.





Layered security at a glance

Prevention

Securing your devices, your people, and your domain name services



Webroot Endpoint Protection

Protection

Securing your communications and all corporate data



Webroot Advanced Email Encryption powered by Zix



Protecting your data and business continuity

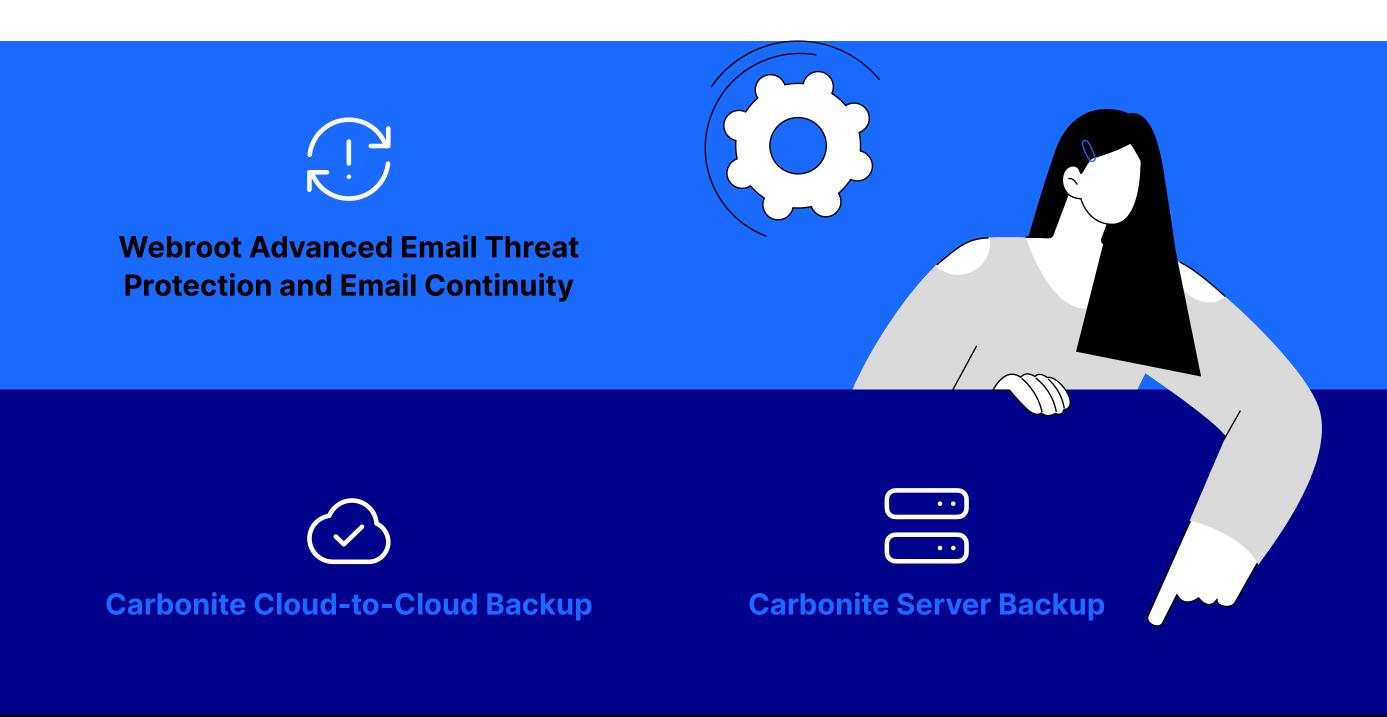






Webroot DNS Protection

Webroot Security Awareness Training







Why does business need to think cyber resilient?

As we've already seen, between a third and two-thirds of businesses, depending on size, suffer malware attacks in any given year^[1]. In 2022, according to the FBI, American businesses lost a total of \$10.3 billion to data breaches and other types of cybercrime^[4].

In 2022, the incidence of most types of cybercrime remained high:

- The number of ransomware attacks increased by 18%^[5].
- There were 5.5 billion malware attacks, up 2% on the year before^[6].
- The worldwide volume of phishing attacks doubled to 500 million^[7].
- Supply-chain attacks increased in volume by more than 700%^[8].

This is happening at a time when companies are digitizing their workflows and their go-to-market strategies at a breakneck speed. Sixty percent of executives say they plan to increase the amount their company spends on digital transformation^[9].

This investment is valuable and requires protection. But the more digitized a business is, the more exposed it is to the very threats to that investment. The answer is to move from protecting just the network edge to a layered protection model.

The fastest route to the right security expertise

The best way to do that is to partner with a technology provider that delivers a comprehensive, integrated security approach — protecting information, workspaces, devices, networks, processes, and workloads.

The partner should have a management platform that accommodates a layered security approach — to streamline and automate policies, permissions, and business rules across the workforce.

Through a single pane of glass, your security administrators should be able to manage organization-wide security measures, apply real-time threat intelligence and security status updates across the IT infrastructure as well as access the tools they need to prevent data breaches, and protect assets wherever they are — in the cloud, on site, at remote locations or in workers' homes.

And if there is a cyber security incident — whether it's a breach attempt by a cybercriminal or simply a natural or man-made incident that impacts business continuity — your IT staff should have all the tools they need to recover and minimize downtime, through the same consolidated platform.

8. https://www.infosecurity-magazine.com/news/software-supply-chain-attacks-hit 9. https://digitalworksgroup.com/investment-in-digital-transformation-will-increase-in-2023







^{4.} https://www.fbi.gov/contact-us/field-offices/springfield/news/internet-crime-complaint-center-releases-2022-statistics

^{5.} https://www.statista.com/statistics/1315826/ransomware-attacks-worldwide

^{6.} https://www.statista.com/statistics/873097/malware-attacks-per-year-worldwide

^{7.} https://www.kaspersky.com/about/press-releases/2023_the-number-of-phishing-attacks-doubled-to-reach-over-500-million-in-2022

The prevention layer

Prevention, as the saying goes, is better than the cure. With the right systems and the right methodology, it's possible to detect and intercept most cyber-threats before they lead to a data breach or a loss of service.



Building cyber resilience with layered security

To achieve this, you must invest in a market-leading prevention layer — and the knowledge and methodologies that make the technologies of which that layer is composed, work.

Examples of the prevention-layer technologies and supporting measures include:

- Endpoint protection: dynamically protects endpoints from malicious files, scripts, URLs and exploits via a cloud based architecture.
- **DNS protection:** intelligent DNS protection filters even encrypted DNS traffic for roaming and network users — thus preventing them from accessing inappropriate websites.
- Security awareness training: prevents criminals from taking advantage of your employees to gain access to networks and data, with frequent and automated training campaigns.

Prevention technologies must be supported by a security culture. That's why training — ensuring employees understand how to avoid threats and how to best use prevention-layer technology — is essential. But culture and prevention-layer tech aren't enough on their own. Both need to be underpinned by an intelligent layer of coordination.

Threat intelligence platforms, harnessing artificial intelligence (AI), should power the prevention-layer technologies with the data they need to understand what 'normal' looks like, across a range of different contexts. This enables them to instantly spot and stop developing threats in real-time.

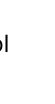
The same underlying assistive layer should give IT staff instant access not only to prevention-layer technologies, but also to complementary technologies from other layers, all through a single control panel. So, when a threat is detected, your IT team can coordinate the response across all domains, rapidly, and without limitations.

opentext Cybersecurity











The protection layer

The next part of any defense-in-depth system is the protection layer. If a threat can penetrate the prevention layer, the protection-layer technologies kick into action. They neutralize that threat before it can damage your technology assets or your business.



8 Building cyber resilience with layered security

Examples of the protection-layer technologies and supporting measures include:

- Email threat protection and email continuity: analyze messages' links and attachments for malware, and even control who can forward or reply to messages.
- Email encryption: protect sensitive and confidential data with industry-leading encryption that's easy to administrate, invisible to users and requires no extra training.

Using the same single pane of the glass they use to manage their prevention-layer technologies, your IT team is able to instigate cloud back-up procedures to prevent unplanned downtime.

And the same real-time threat data that underpins prevention-layer technologies, along with advanced heuristics, allows protection-layer technologies to detect malicious links, attachments and other payloads. They then prevent them from executing, keeping your systems and data safe.

In an era of hybrid working, the protection-layer ensures that every node, network segment and potential vector of attack is continually watched over and safeguarded by advanced security technologies. This is true whether any given device, software or system is on the network edge, inside it — or on mobile.

opentext[™] | Cybersecurity



ritv

The recovery layer

Adding a recovery layer to your defense-in-depth architecture is crucial to achieving and maintaining cyber resilience. In practice, the prevention and protection layers will catch most incoming threats. But relying on just the first two layers alone is risky.



Without robust recovery technologies the business cannot protect itself against ransomware, fire, flood, power outages and other natural or man-made disasters. It also leaves itself open to charges that it isn't complying with best practice and regulatory requirements.

Examples of the recovery-layer technologies and supporting measures include:

- SaaS application continuity: build data resilience into SaaS applications and other off-site services you use, to protect yourself against loss due to unplanned downtime.
- Cloud-system recovery: back-up local or cloud servers, manage your backups and recover specific data or entire systems.
- **Disaster recovery:** continually updated, live copies of your critical servers and systems, ready for instant failover in just a few minutes.

As with the other layers, these technologies should be available through a single control panel. The IT team should be able to seamlessly track any developing issue through the different tools and systems available to them, all through a single interface.

When they decide it's time to recover data or systems, or to switch entirely to a disaster-recovery backup, they should be able to do so quickly, with minimum overheads. This is only possible when all the relevant control systems are unified in a single, easy-to-use interface.



OpenText Cybersecurity: building the cyber resilient business

OpenText Cybersecurity is a new breed of provider. Our tools offer a layered security approach — including prevention, protection, and recovery and more.

The cyber security tools and services provided include but are not limited to:



<u>___</u>

Webroot Endpoint Protection: secure your PCs, desktops and other endpoints against even the most sophisticated malware and cyber-attacks.

Webroot DNS protection: block threats at a domain level,

with policy-based, advanced DNS protection that even

Webroot Security Awareness Training: education to

prevent risky employee behaviors that can lead to IT



Webroot Advanced Email Threat Protection and Email **Continuity:** dynamically detect threats in links and attachments to secure inboxes and systems against email threats.

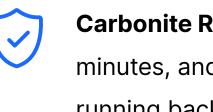


Carbonite Server Backup: a secure, continuously

updated backup for critical servers, for rapid recovery and near zero downtime.



Carbonite Cloud-to-Cloud Backup: protect critical data stored on cloud and SaaS platforms, with this automated, encrypted, and secure cloud-to-cloud backup.





Webroot Advanced Email Encryption powered by Zix: industry-grade encryption that runs in the background, without disrupting workflows or requiring any input from users.

protects encrypted DNS traffic.

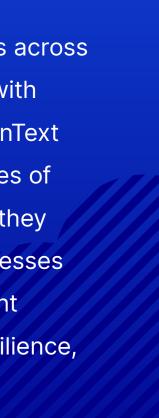
related security compromises.

Carbonite Recover: failover to an up-to-date backup in just minutes, and a few clicks. With this continuously updated, running backup of critical server systems.



Most of these solutions are available in **OpenText Secure Cloud:** a single pane of glass platform, through which to monitor and control all your security services, across the prevention, protection, and recovery layers. It gives your IT teams real-time cyber intelligence and all the tools they need to protect your business, your reputation, and your investment in digital transformation.

OpenText Cybersecurity provides clients across all business sectors, on six continents, with market-leading protection. In 2022, OpenText Cybersecurity helped clients reduce rates of malware infection to just a fifth of what they were in 2020 [1]. Our experts help businesses from across the globe and many different sectors build industry-leading cyber resilience, based on intelligent, layered protection.

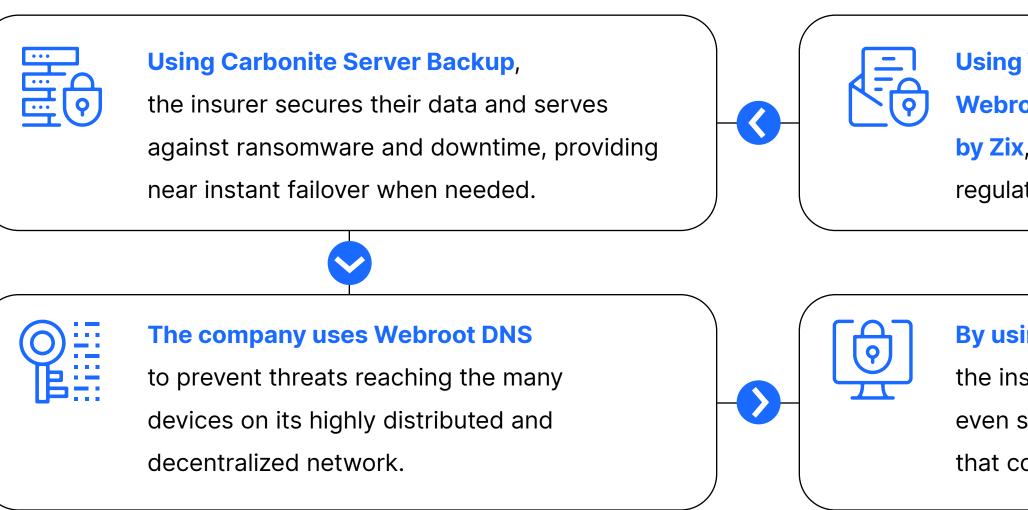


A sample business: Healthcare insurance company

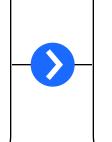
Let's explore how a hypothetical business with sophisticated, complex, and demanding requirements can benefit from a layered approach to security.

In healthcare, companies require a high level of well-documented cyber security. Failure to comply could mean severe penalties under HIPAA and other relevant laws.

An insurance company with 500 staff will need to regularly exchange high volumes of sensitive and personal data with hospitals, clinics, patients, and a range of other entities.







Working with OpenText Cybersecurity allows the insurer to handle, exchange, and store data in a way that complies with regulatory standards and best practice:

Using Webroot Endpoint Protection and Webroot Advanced Email Encryption powered

by Zix, the company secures sensitive and regulated data both at rest and while it's in transit.



With Webroot Security Awareness Training,

the company educates workers to recognize and avoid threats, across all relevant channels.

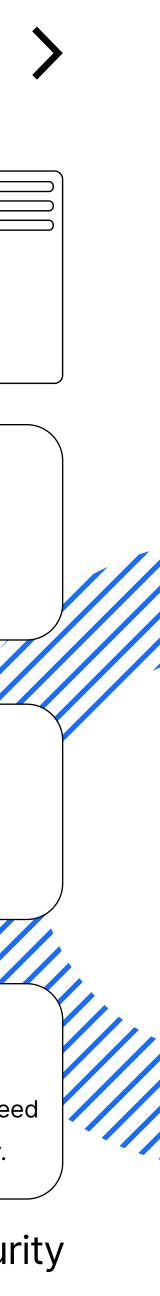
By using Carbonite Cloud-to-Cloud Backup,

the insurer has peace of mind, knowing that even severe disruption won't cause downtime that could harm patients and the business.



Technicians use the OpenText Secure Cloud

to track and manage developing threats. The platform puts all the cyber-security tools they need at their fingertips, so they can respond instantly.



Next steps

Achieving layered cyber defense in depth need not be a time-consuming process or one that involves prohibitive upfront overheads. With the right approach, the right technology, and the right partner, you can start the process of adopting layered security today.

OpenText Cybersecurity is a new breed of provider for businesses of all sizes. Our experts can help you understand what mix of technologies you need to become cyber resilient and protect your investment in digital transformation. Build cyber resilience into your business model, with a future-proof, scalable, and adaptable layered approach to cyber security.

Contact OpenText Cybersecurity today, to begin your journey toward smarter and simpler cybersecurity. https://go.zixcorp.com/Email-Encryption.html

About OpenText

OpenText Cybersecurity provides comprehensive security solutions for companies and partners of all sizes. From prevention, detection and response to recovery, investigation and compliance, our unified end-to-end platform helps customers build cyber resilience via a holistic security portfolio.

Powered by actionable insights from our real-time and contextual threat intelligence, OpenText Cybersecurity customers benefit from high efficacy products, a compliant experience, and simplified security to help manage business risk.



Copyright© 2023 OpenText Corporation. All rights reserved.