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Securing Web Applications With a Robust Cybersecurity Strategy for a Global Respiratory Care Solutions Leader

▰ **Case Study**

Overview
Securing systems against cyber threats and potential attacks

Our client is a global leader in respiratory care solutions, serving healthcare professionals and patients in over 100 countries. It solely focuses on innovation and technology to support breathing through every stage of life. The client faced cyberattacks looking to exploit vulnerabilities in web applications to access sensitive data. Zensar used its digital security expertise to analyze and identify weaknesses to strengthen security and reduce evolving attacks.

Challenges
Lack of security strategy to avoid cyberattacks

The client faced many cybersecurity threats and needed to secure its web application against potential attacks, including SQL injections and cross-site scripting. It required a security strategy to proactively detect, manage, and respond to cyber incidents.

Solution
Comprehensive analysis to build more robust systems

We collaborated with the client to implement a comprehensive security strategy in five phases:

- **Planning and reconnaissance:** Identified and mapped all web applications and associated assets to understand the scope of security needs and vulnerabilities.
- **Scanning:** Conducted vulnerability and penetration testing, continuous web application scanning, and threat detection using automated tools.
- **Gaining access:** Simulated real-world attacks, such as cross-site scripting and SQL injection, to identify weaknesses and exploit vulnerabilities.
- **Maintaining access:** Tested the ability to maintain a persistent presence in the exploited system, mimicking advanced persistent threats.
- **Analysis:** Compiled results into a detailed report, including specific vulnerabilities exploited, accessed sensitive data, and undetected system access duration.
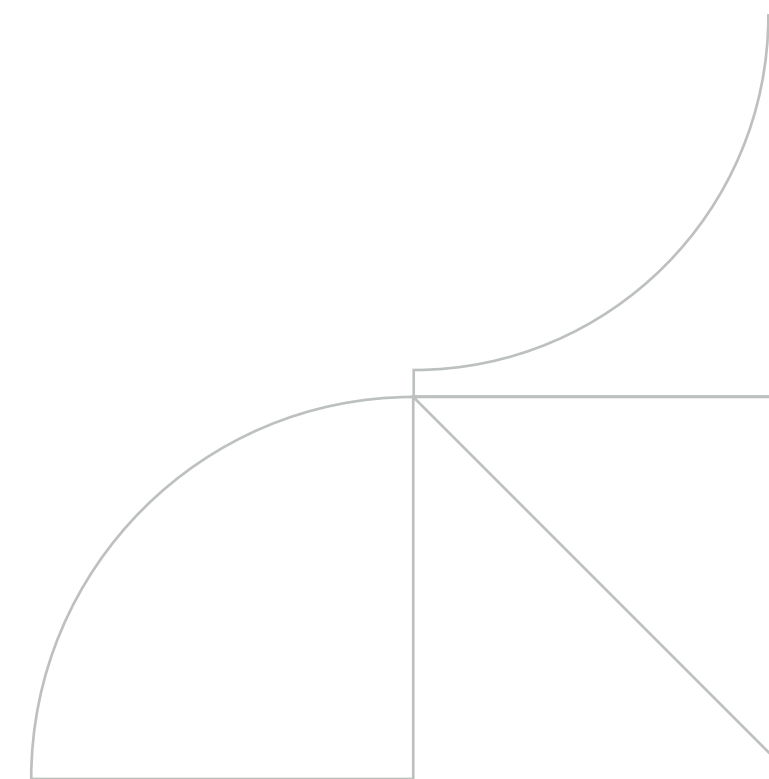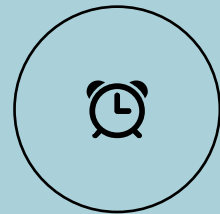
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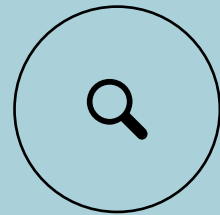## Reduced security incidents and increased uptime

Our comprehensive security strategy and the implementation of Web Application Security led to several benefits for the client, including:
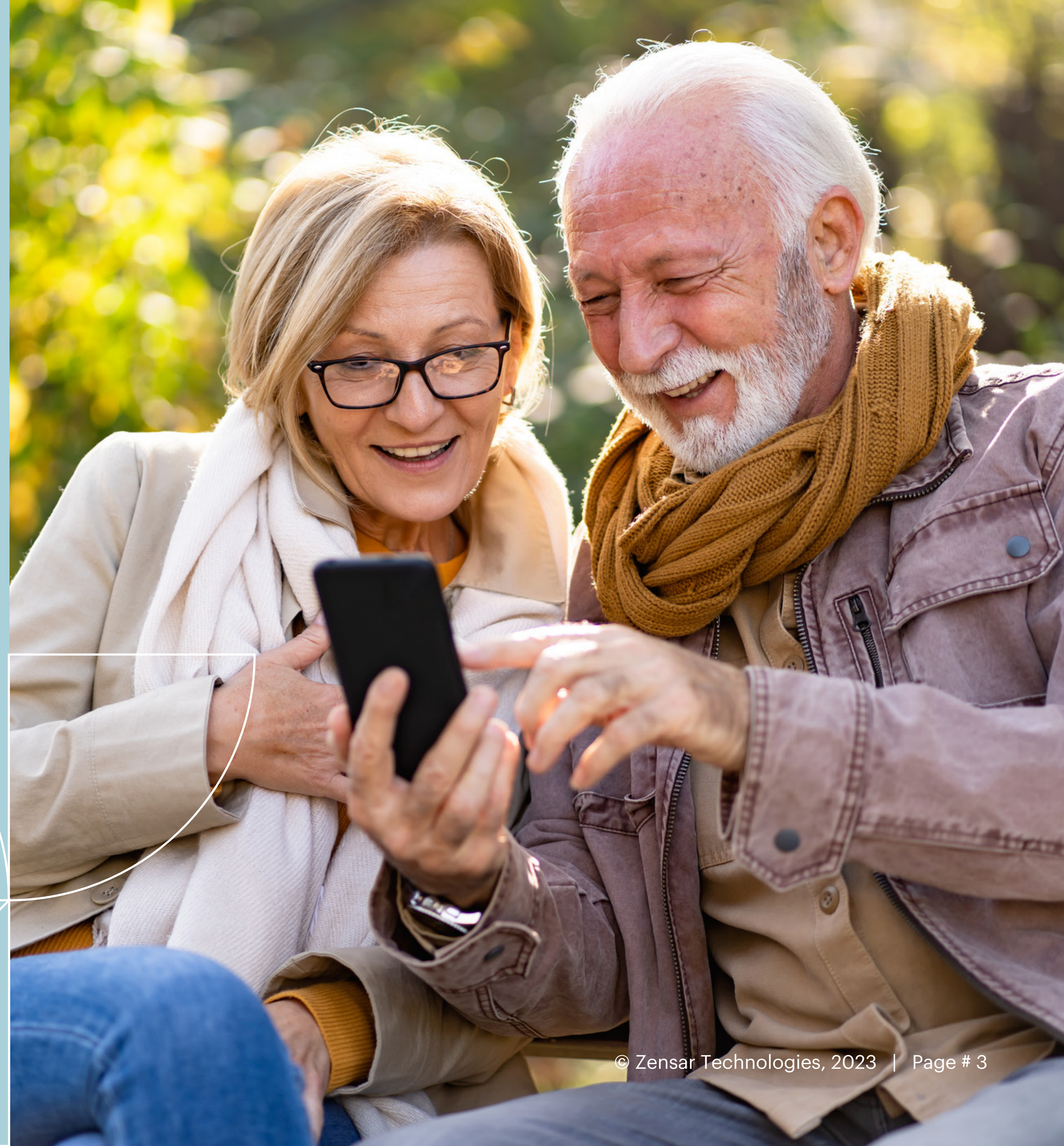
- Reduced security incidents by 90percent

- Increased web application uptime from 98 percent to 99.99 percent

- Identified, prioritized, and remediated vulnerabilities before exploitation

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