

# Insurance Group Case Study

Service:  
Web Application  
Penetration Testing

## How an insurance agency provided confidence to customers and partners with Web App Penetration Testing

### The Requirement

As part of its commitment to customers and partners, and following advice from its insurance provider, an insurance agency wanted to ensure that its website was secure, with no vulnerabilities or holes in its security that could be exploited.

Regular checks were being conducted internally, but for absolute peace of mind and to show that the company takes security seriously, an external penetration test was needed.

### The Solution

The insurance agency engaged DigitalXRAID to perform the Web Application Penetration Test to identify any security weaknesses and potential exploitable vulnerabilities.

As a first step, DigitalXRAID's penetration testing consultants fully scoped the web app pen test. This was to ensure that maximum value would be achieved during the testing time.

DigitalXRAID delivered a thorough Web Application Penetration Testing Service in line with the agreed scope. Over several days, the team conducted comprehensive tests which assessed the web app from an unauthenticated and authenticated perspective, and determined whether the web app could be compromised.

DigitalXRAID used various CREST approved tools and techniques as part of the penetration test, in line with industry best practice.

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Testing is performed using an advanced testing methodology which is comprised of years of experience and aligned closely with Open Web Application Security Project (OWASP) and Open Source Security Testing Methodology Manual (OSSTMM) and other industry standards.

The team thoroughly reviewed the web app configuration, including any APIs and the underlying server and encryption security. This assessed how it communicated information to ensure that nothing could be disclosed and cause a security risk.

As a high level overview, the testers looked at areas such as registration processes and identity authentication and authorisation in order to attempt to bypass processes and workflows.

As part of the test, DigitalXRAID's penetration testers also conducted checks to ensure that the application appropriately validated and sanitised all input from the user or environment, checking for common input validation vulnerabilities such as cross-site scripting, SQL injection, code injection, server-side attacks, and host header injection.

At the end of the testing period, DigitalXRAID supplied a comprehensive report, detailing the methodologies followed and highlighting and categorising any vulnerabilities found into low, medium, high and critical priorities.

The report included a risk summary that explained how any vulnerabilities identified could be used by an attacker to affect the business.

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## The Results

The results and report delivered at the end of the web app pen test have given the insurance group the advantage of proactively addressing any gaps, before potential vulnerabilities could be exploited by a malicious actor.

Having addressed the minor issues highlighted in the report, the company is confident that it is currently guarded against active threats from cyber criminals.

The next step in the insurance company's cybersecurity journey is looking at Cyber Essentials certification, which will extend its commitment to excellence and security for its customers and partners.

"Working with DigitalXRAID has been very good from start to finish. The pre-testing engagement with the tester was excellent. It meant we were able to alert partners and suppliers ahead of time as to the exact time that testing would be happening.

The reporting was easy to understand and laid out very well. The executive summary was perfect for sharing with the Board. I would have no hesitation in recommending DigitalXRAID's services."

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DigitalXRAID are an award-winning managed security services provider dedicated to providing our clients with state-of-the-art cyber security solutions. We specialise in Vulnerability Management, Threat Intelligence, Information Security, PCI-DSS, Penetration Testing, Managed Security Services, Security Consultancy, and offer a fully managed Security Operations Centre (SOC) for your complete cyber security protection.

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