

# Non-Profit Organisation Case Study

Service:  
Web Application  
Penetration Testing

## How a non-profit organisation ensured its continued security with Web App Penetration Testing

### The Requirement

With its website being such a central hub to the service that the non-profit organisation provides and the community it serves, it wanted to ensure that everything was secure and pick up on any issues that developers may have missed or may have occurred through updates and patching.

### The Solution

The non-profit organisation 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 assisted the non-profit organisation with effectively scoping 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.

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## Service: Web Application Penetration Testing

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

This gave the non-profit organisation the advantage of proactively addressing any gaps, before potential vulnerabilities could be exploited.

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## The Results

With updates performed this year there was a low issue and a high criticality issue that was picked up. With those identified in the pen test, the non-profit organisation has been able to shore up security to ensure that there are no exploitable vulnerabilities in the web application.

The company is confident that it is currently guarded against active threats from cyber criminals.

With regular penetration testing being a key part of the non-profit organisation's security posture, its customers have full assurance that they are also protected, and that the organisation will continue to provide a secure service.

"Another good service from DigitalXRAID!

The process and communication were very smooth. I appreciated being able to speak directly with the pen tester to be able to resolve any technical questions or issues quickly.

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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