



Scales Cybersecurity Testing



Chip Security Testing

Turnkey solutions to test against physical attacks

An Integrated Circuit hosts and handles extremely valuable assets. **Physical attack techniques are a threat that can compromise these assets.**

We have developed turnkey solutions to empower your security analysts. **Our solution is open, collaborative and flexible.**



★ **Years of R&D integrated:** Deep Learning SCA, Post Quantum Cryptography, Scatter...

- > Electromagnetic Fault Injection
- > Laser Fault Injection
- > Side Channel Analysis
- > Photonic Emissions

Firmware Security Testing

Platform to test against physical and logical attacks

Stress firmware binaries without physical devices and benches with our **Simulation Platform**: ARM, Intel x86, RiscV, ...

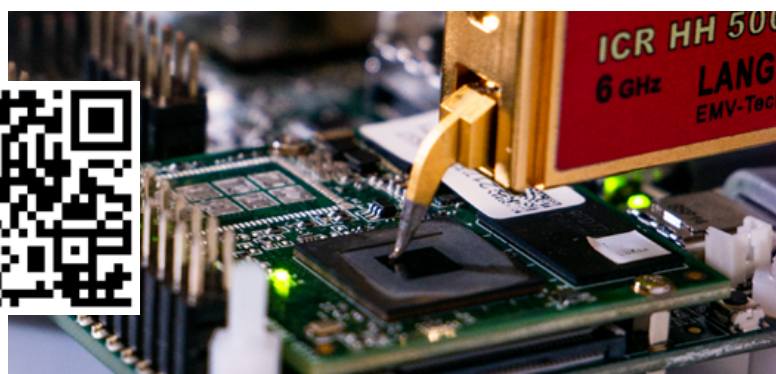


esFirmware
by  eShard

Professional Services

Customized evaluation, pre-evaluation and R&D study.

- > Lab Side-Channel
- > Lab Fault Injection



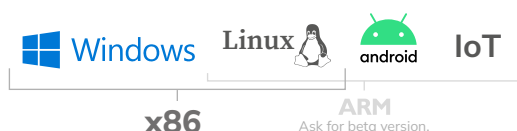
System Security Testing

Vulnerability and Malware Analysis

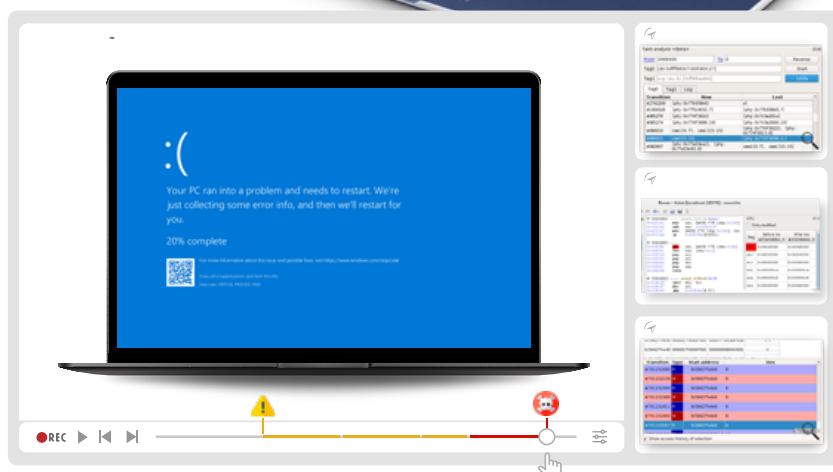
Best of breed solution for the most valuable
Malware and Vulnerability Analysis.

With **esReven**, assess high-impact and highly complex vulnerabilities to keep key infrastructures secure, or run top-notch Red Team assessments.

esReven is the most advanced tool for in-depth dynamic analysis. Explore the binary execution on a system relying on an operating system. Thoroughly analyse malwares, dissect their mechanisms by bypassing their protections and stay ahead of advanced threats.



esReven
by **eShard**



Unique Timeless Analysis

esReven captures a time slice of a full system execution (CPU, Memory, Hardware Events) to provide the total visibility of the system under analysis. Move forward and backward through the recorded process.

Reverse engineering platform

The analysis features are available through APIs to move towards more automation. Other tools can be integrated: IDA, Wireshark, ...

Knowledge base

Library of expertise practices in reverse engineering. Get up-to-speed in complex analyses.

Data tainting

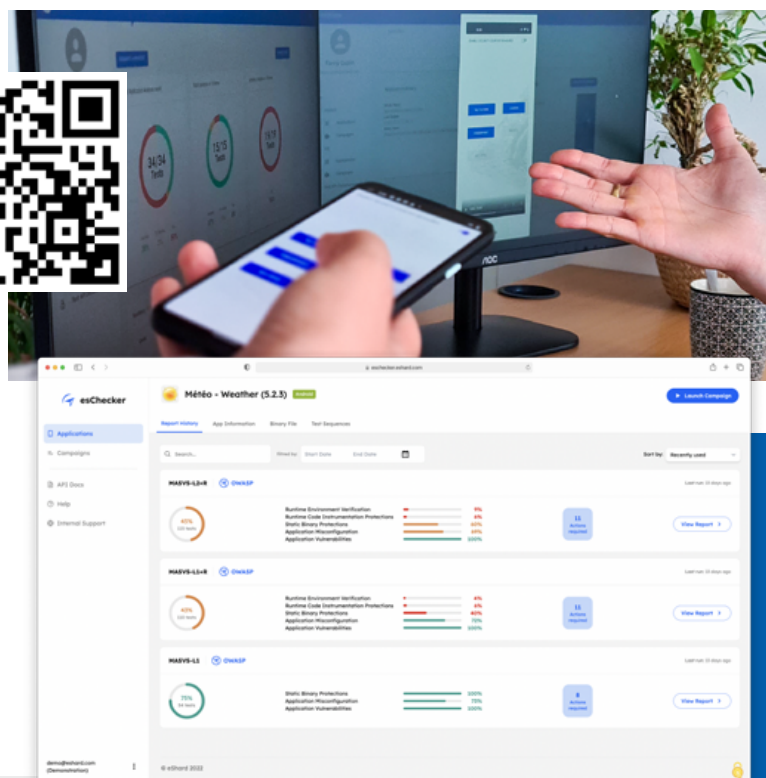
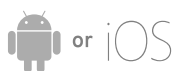
Automates the task of following targeted data. Highlight connections that are otherwise very hard to discover and follow the data flow in the trace, either forward or backward, system-wide.

App & Backend Security Testing

Mobile Application Security Testing

Mobile Applications can't be released without a pre-prod validation that the app implements the right level of protections. **Integrate an automated testing solution in your dev cycle.**

esChecker is a SaaS MAST solution relying on an innovative "record and replay" mobile IAST technology.



Code review is not enough

Focus on the binary. It's where all the resources of the app are compiled and packaged.

Customize your test policy

OWASP MASVS is the reference. No false positive with a customized success criteria.

Unique "record and replay" feature

Dynamic and interactive testing for an unrivalled test coverage.

Generate test report

Watch the video recording of your app's reaction and get a diagnosis of your applications.

Professional Services for Mobile App, Web app & Backend

> Mobile App Penetration Testing

> Backend & Web App Penetration Testing



> Mobile App Diagnostic & Action plan

> Defensive Coding Training



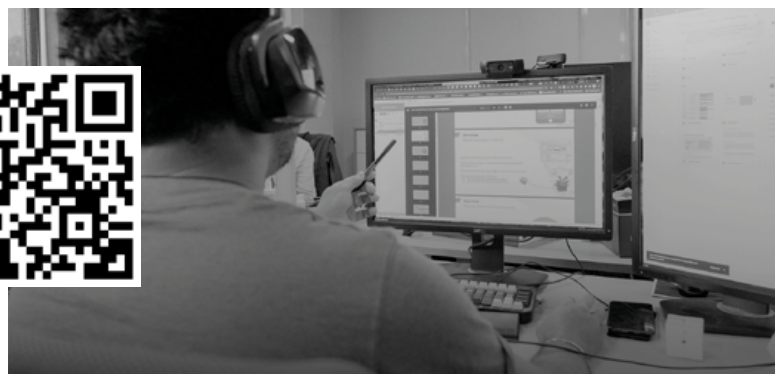
Listed in the 2022

Gartner Hype Cycle™
for Application Security

Proud sponsor of the  OWASP Mobile App Security Project

Security Training

Grow your expertise with Cybersecurity Training



At eShard, we believe that the best way to acquire knowledge is to be **hands-on** and to learn from pre-defined practical use cases. We have developed a large catalog of specialized training that targets all levels of expertise.

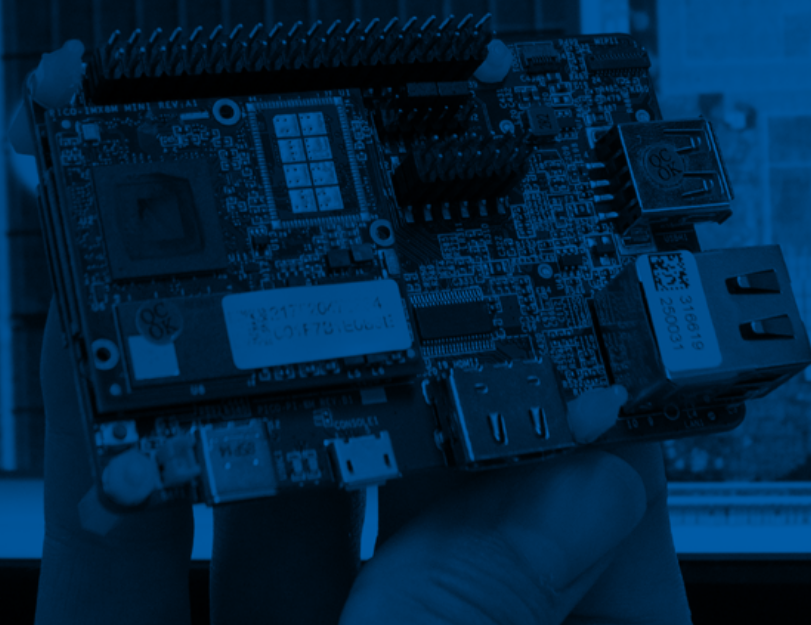
Sessions are targeted and relate to specific points in given technologies where eShard is expert. And because we understand the time pressure security experts are under, we have developed flexible learning methods that enable users to complete learning when it suits them.

[Learn the theory](#)[Put it in practice](#)[Take the test](#)

Starter kits

Training for laymen or experts on physical attacks on modern SoCs (System on chip): from the bench setup to the secret key exhibition.

- > Side Channel Analysis
- > Electromagnetic Fault Injection
- > Laser Fault Injection
- > Glitching Fault Injection





Contact us



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**LASER FAULT
INJECTION**



**ELECTROMAGNETIC
FAULT INJECTION**



**SIDE-CHANNEL
ANALYSIS**



**FIRMWARE
SECURITY**



**MOBILE APP
SECURITY TESTING**



**VULNERABILITY &
MALWARE ANALYSIS**

