WHAT IS IT?

A step-by-step approach to Products with Digital Elements (PDE) pentesting aligned with the Cyber Resilience Act (CRA).

WHO IS IT FOR?

Small and medium-sized enterprises (SME) manufacturing products with digital elements.

CRA-ALIGNED PENETRATION TESTING METHODOLOGY

CONFIRMATE

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ATTENTION POINTS

The CRA does not require penetration testing per se, but mandates "effective and regular reviews and tests" of product security. Testing exercise can strengthen the evidence base for a statement of compliance with CRA essential cybersecurity requirements.

IS IT ALL NEW ON?

No, it is based on industry standards: OSSTMM3, ETSI EN 303 645 and TS 103 701, OWASP Testing Guide, PTES, and NIST SP 800-115

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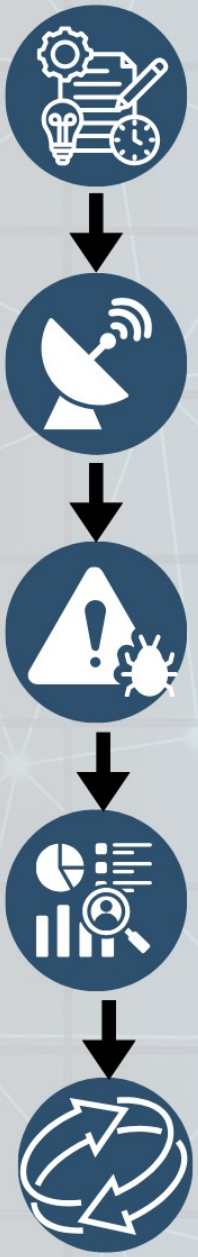
▶ STEP-BY-STEP



1. Pre-engagement and Planning

Define scope, CRA requirements, test environments, authorisations, and align stakeholders.
Result: Test plan, legal docs, initial risk assessment.

2. Intelligence Gathering and Reconnaissance

Map attack surface, collect OSINT, and define realistic attack scenarios.
Result: Adversary profile, initial vulnerability insights.

3. Execution and Exploitation

Test for vulnerabilities using tools and manual checks, simulate attacks in lab.
Result: Full vulnerability report.

4. Impact Analysis and Reporting

Assess severity, map to CRA, define remediation action.
Result: CRA-mapped findings, remediation strategy.

5. Post-engagement and Follow-up

Verify fixes, retest, gather feedback, and prepare disclosures if needed.
Result: Final pentest report for CRA compliance.

ABOUT CONFIRMATE

Streamline and automate compliance with the Cyber Resilience Act (CRA). Through the development of open-source tools, standardised methodologies, and training resources, we empower SMEs to navigate cybersecurity requirements with ease and efficiency. Our goal is to create a dynamic ecosystem where stakeholders can exchange best practices, keep up to date with regulatory developments, and contribute to the advancement of secure digital products.

SEE MORE

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