

# 11 Advantages of Pen Testing over Vulnerability Scanning



## **Simulating Real-World Attacks:**

Pen testing goes beyond vulnerability scanning by emulating real-world attack scenarios, attempting to exploit vulnerabilities to gain unauthorised access. It assesses the actual impact of vulnerabilities rather than just identifying them.

## **Active Testing Approach:**

Pen testing involves active attempts to breach the security defences, mimicking the tactics of an actual attacker. This provides a more comprehensive evaluation of the system's resilience against real threats.



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## **In-Depth Analysis:**

Pen testing offers a more detailed analysis of vulnerabilities by examining their root causes, potential impacts, and exploitation paths. It provides valuable insights into the underlying weaknesses of systems and applications.

## **Identification of False Positives:**

Pen testing helps distinguish false positives from actual vulnerabilities by attempting to exploit them and validating the results. This reduces the chances of wasting resources on non-existent or low-risk issues.



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## **Understanding Attack Paths:**

Unlike vulnerability scanning, pen testing maps out potential attack paths, showcasing how an attacker could exploit multiple vulnerabilities in a chain to compromise the system. This helps prioritise remediation efforts effectively.

## **Social Engineering Assessment:**

Pen testing can incorporate social engineering techniques to evaluate human vulnerabilities, such as phishing attacks or impersonation attempts. This provides a holistic assessment of security, covering both technical and human aspects.



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## **Testing of Security Controls:**

Pen testing evaluates the effectiveness of security controls, such as firewalls, intrusion detection systems, and access controls. It helps uncover weaknesses in the overall security infrastructure.

## **Real-Time Analysis and Reporting:**

Pen testing provides real-time analysis and reporting, enabling organisations to quickly understand the identified vulnerabilities, their impacts, and recommended remediation actions. This facilitates prompt decision-making and mitigation.



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## **Customisation and Tailoring:**

Pen testing can be customised and tailored to specific systems, applications, or industries, addressing unique security concerns and compliance requirements. This flexibility allows for a more targeted assessment.

## **Exploitation Validation:**

Pen testing attempts to exploit vulnerabilities and gain unauthorised access to sensitive data or systems. This validates the severity and impact of vulnerabilities, ensuring that they are not just theoretical risks.



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## **Compliance & Regulatory Requirements:**

Pen testing helps organisations meet compliance and regulatory requirements such as ISO, DORA, PCI-DSS, NHS Digital Service and more. They all demand regular security assessments, pen testing provides evidence of due diligence and proactive security measures.

## **Endida's AI Pen Test**

If you would like to see how AI Pen Testing works and how it finds more weakness and vulnerabilities than other solutions email us at: [info@endida.com](mailto:info@endida.com)

