



Different types of Network Security Tests

Security testing can be conducted in several different ways. What type of testing you should choose for your organization depends on two factors:

- ✓ The organization's maturity when it comes to IT security.
- ✓ How extensive testing you want to conduct.

This document will give you an overview of different types of network security tests.

Beginner: Vulnerability Assessment

In a vulnerability assessment automated tools will mainly be used and no vulnerabilities will be exploited. The objective is to efficiently locate known vulnerabilities. The assessment is only one of the phases in a complete security test.

The assessment focuses on width over depth, and is well suited for regular security maintenance. It is also useful as a first step towards increased security in an organization with limited resources.

Average: Penetration Testing

If you want to simulate a cyber attack and understand the consequences of vulnerabilities being exploited, you should perform a penetration test. Such a test will tell you whether it is possible to break into the company's network and achieve specific goals.

Encrypto's penetration tests make extensive use of creativity and manual techniques to simulate relevant attack scenarios.

The purpose is to simulate a professional and motivated attacker with high knowledge.

The penetration test can be performed from different perspectives:

- ✓ **External security test:** Simulates an attack from the internet
- ✓ **Internal security test:** Simulates an attack from the internal network
- ✓ **Wireless security test:** Tests the corporate WIFI, including Bluetooth

In many cases, a combination of these perspectives provides the best results.

Passion

We are passionate about information security, and believe in a more secure IT world.

Our security expert, Juan J. Güelfo, has repeatedly been featured in Norwegian press, where he has shared his knowledge and perspective on topics related to information security.

In 2013 and 2014, Encrypto and Juan J. Güelfo were nominated for the DND IT security award.

Customer Satisfaction

It is better to be a large customer in a small company, than a small customer in a large company.

This is what our customer surveys show, where our customers rank us high on quality and value.

We believe that satisfied customers are the way to success. Ask us about references.

Independent and Objective

We are not tied to external third parties. This means that we can recommend solutions based on what is best for you and your needs.

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Understandable and Balanced

In our communication, we emphasize that both management and technical staff shall understand the message.

We always balance our recommendations between the customer's need for security and the need for functionality.

Quality and Results

If you want the job done properly, you have come to the right place.

We use the most complete methodologies and the latest techniques to protect you against today's threats.

We believe in using knowledge and creativity, rather than relying on automated tools.

Flexible, Focused and Efficient

As a small niche company, we focus all our attention on providing excellent services in information security.

A flat organizational structure allows us to be flexible and accessible for our customers.

Experienced: Red Team

Has your company conducted several rounds of penetration testing, or has a mature IT security program? Then you are probably ready for the next generation security testing.

In a traditional penetration test the scope is carefully defined and agreed upon with the customer before starting the test. Red team exercises differ from a traditional test in the way that "everything is allowed."

Red team exercises do not have limitations when it comes to scope, and therefore cyber attacks can be realistically simulated. The test will use various threat scenarios to assess the effectiveness of the organization's security measures, both when it comes to technical solutions, internal procedures and staff.

The testing usually takes place over a prolonged period, and is conducted without notification to the organization or its suppliers (only key people are informed).

Expert: Adversary Replication

Adversary replication is currently the most advanced form of security testing and is suitable for businesses with employees dedicated to defending the organization against cyber attacks.

By utilizing the same techniques and indicators as real attackers, adversary replication can be used to simulate cyber attacks from specific threat actors.

The testing focuses on the company's ability to handle an attack, and gives IT staff a valuable opportunity to train on how to detect and deal with a security incident.

Maligno, Encrypto's open source tool, is one of few tools that allows the customization of network indicators, which leave a trail that your analysts can follow.

About Encrypto

Encrypto is a niche company that provides specialized services within IT security. Our core expertise is security testing, network security monitoring and training within IT security.

In summary, our job is to find vulnerabilities in computer systems and applications, problems that you did not know about.

You can read more about us at www.encrypto.no.

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