



# 1 Executive Security Assessment Report

## 1.1 Introduction

This report presents the findings from a security assessment conducted on the domain **magazines.wirtgen-group.com**. The assessment was performed using a basic scan methodology, adhering to OWASP and OSCP standards. The analysis commenced on **05-03** at **11:00** and concluded in **00h:12m:48s**. The scope of the work included a comprehensive evaluation of the web application and infrastructure to identify potential security vulnerabilities.

## 1.2 Summary of Findings

The security assessment identified no high-risk issues, with two medium-risk and two low-risk findings, alongside **14** informational items. Key medium-risk concerns include shared hosting environments and insecure HTTP ports, which could expose sensitive data if not addressed. The shared hosting analysis revealed one host with **43** shared domains, categorized as medium interest, indicating potential resource sharing vulnerabilities. The Nmap port scan detected HTTP services on port **80** without encryption, necessitating verification of HTTPS redirection or HSTS implementation. SSL/TLS protocols are generally secure, with support for TLS **1.3** and **1.2**, but monitoring is advised for certificate expiration in **123** days. Immediate actions should focus on securing HTTP services and evaluating shared hosting configurations to mitigate potential risks.

## 1.3 Key Security Issues

Title	Risk
Shared Hosting Environment	Medium
Nmap Port Scan Results	Medium
SSL/TLS Protocols Security	Low
SSL Certificate Expiration	Low

### 1.3.1 Shared Hosting Environment Analysis

#### Description:

The analysis identified that the domain **magazines.wirtgen-group.com** is hosted in a shared environment with **43** other domains. This configuration is categorized as medium interest due to potential security risks associated with resource sharing.

#### Affected Assets:

- Hostname: **magazines.wirtgen-group.com**

#### Recommendations:

It is recommended to evaluate the necessity of shared hosting for this domain. Consider migrating to a dedicated hosting environment to mitigate risks associated with resource sharing, such as cross-site contamination and performance degradation.

### 1.3.2 Nmap Port Scan Results Analysis

#### Description:

The Nmap scan detected an open HTTP port (**80**) on IP **13.107.246.57**, which lacks encryption. This poses a risk of data interception if not redirected to HTTPS or if HSTS is not enabled.

#### Affected Assets:

- IP: **13.107.246.57**



### Recommendations:

Ensure that HTTP traffic is redirected to HTTPS and implement HSTS to enforce secure connections. Regularly review open ports and services to ensure they are necessary and secured.

### 1.3.3 SSL/TLS Protocols Security Assessment

#### Description:

The assessment confirmed that the domain supports TLS **1.3** and **1.2**, which are considered secure protocols. No deprecated protocols were found, indicating a strong security posture.

#### Affected Assets:

- 1 endpoint with TLS **1.3** - 1 endpoint with TLS **1.2**

#### Recommendations:

Continue monitoring for any updates in cryptographic standards and ensure that all endpoints maintain support for TLS **1.3** as a best practice.

### 1.3.4 SSL Certificate Expiration Analysis

#### Description:

The SSL/TLS certificate for **magazines.wirtgen-group.com** is set to expire in **123** days, placing it in the "Monitor" category for renewal.

#### Affected Assets:

- Domain: **magazines.wirtgen-group.com**

#### Recommendations:

Implement a certificate management process to ensure timely renewal of SSL/TLS certificates before expiration to maintain secure communications.

## 1.4 General Recommendations

To enhance the security posture of the domain, it is crucial to address the identified medium-risk issues promptly. Implementing HTTPS redirection and evaluating hosting configurations are immediate priorities. Additionally, maintaining up-to-date SSL/TLS protocols and managing certificate expirations will ensure ongoing protection against potential threats. Regular security assessments should be conducted to identify and mitigate emerging vulnerabilities.