

Penetration Testing Report

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Client: LZD

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1. Introduction

Test Objective: Security assessment of the resources saratov-bankrotstvo.ru and justhost.ru.

Scope: Port scanning, vulnerability discovery, and service configuration analysis.

Methodology: Use of tools such as Nmap, Nikto, and DNS AXFR transfer tests.

2. Tools Used

- Nmap
 - Dig
 - Nikto
 - DirectAdmin
 - Masscan
 - Whois
 - nslookup
 - FTP / SSH
 - OWASP ZAP
 - Gobuster
 - Metasploit Framework
 - ExploitDB
 - Searchsploit
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3. Summary of Findings

- **Exposed services:** OpenSSH 8.0, Pure-FTPd, LiteSpeed HTTP(S), ISC BIND 9.11.36, Dovecot, Postfix SMTP
 - **Critical vulnerabilities** found in SSH, DNS (BIND), and HTTP services
 - **AXFR zone transfer** was open, allowing a full DNS dump
 - **DirectAdmin login panel** found at port 2222 and `/evo/`
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4. Nmap Vulnerability Scan Results

OpenSSH 8.0 (Port 22)

- CVE-2023-38408: RCE via ssh-agent and PKCS#11 (CVSS 9.8)
- CVE-2020-15778: Command injection in `scp`
- CVE-2019-16905: Memory leak in `gsskeyex.c`
- CVE-2021-41617: Privilege escalation with incorrect configuration
- CVE-2023-51385: Weak SSH key handling
- CVE-2023-48795: Downgrade attack in SSH protocol
- CVE-2020-14145: Logic flaw in SSH
- CVE-2016-20012: DoS condition
- CVE-2025-26465 / CVE-2025-32728: Low-severity future vulnerabilities
- CVE-2021-36368: Vulnerability in PAM auth module

DNS - ISC BIND 9.11.36 (Port 53)

- CVE-2023-50387: DoS via DNSSEC validation
- CVE-2023-4408: Request parsing vulnerability
- CVE-2023-3341: Buffer overflow

- CVE-2023-2828: TSIG misconfiguration
- CVE-2022-38178/38177: Incorrect DNS request handling
- CVE-2021-25220: Issue in **forwarders**
- CVE-2022-2795: Info leak on DNS error

SMTP (Ports 587, 465)

- No vulnerabilities found related to Exim (e.g., CVE-2010-4344 not applicable)

HTTP (LiteSpeed)

- CVE-2003-1418: Inode leakage via ETag header

Misc (from Vulners)

- CVE-1337DAY-ID-2657: Suspected vulnerability in DirectAdmin or plugin
- CVE-2025-32728: Low severity

5. Nikto Web Scan

5.1 Overview

- **Target:** saratov-bankrotstvo.ru
- **Method:** Nikto web vulnerability scanning
- **Date:** June 17, 2025
- **Tool:** Nikto v2.5.0

5.2 Target Info

- **IP:** 185.22.155.27, 2a00:b700::1c
- **Port:** 443 (HTTPS)
- **Web Server:** LiteSpeed

- **SSL:** Let's Encrypt, TLS_AES_256_GCM_SHA384

5.3 Vulnerabilities Found

- **ETag Inode Leakage**
 - *Risk:* Reveals internal file structure
- **Missing X-Frame-Options**
 - *Risk:* Clickjacking vulnerability
 - *Fix:* Add **X-Frame-Options** header
- **Missing Strict-Transport-Security (HSTS)**
 - *Risk:* MITM attack possibility
 - *Fix:* Add HSTS header
- **Missing X-Content-Type-Options**
 - *Risk:* MIME-sniffing vulnerability
 - *Fix:* Add **X-Content-Type-Options: nosniff**
- **BREACH attack vector**
 - *Risk:* Data leakage via compression
 - *Fix:* Disable **deflate** encoding or add mitigations

5.4 Limitations

- **Errors:** 20
- **Main issue:** SSL negotiation failed (host dropped connection)
- **Impact:** Incomplete scan

5.5 Conclusion

- Critical misconfigurations were discovered

- Security headers and HTTPS configuration are missing
 - Retesting is recommended after fixes
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6. AXFR Zone Transfer Test

- **AXFR was open**, allowing full domain zone export
- Revealed internal structure, subdomains, mail servers (MX), and IPv6 records
- **Severity:** High. Could allow attack planning and phishing
- **CVSS v3 Estimate:** 5.3 – 7.5 depending on internal exposure

Example Zone Records:

- `saratov-bankrotstvo.ru` → A: 185.22.155.27
 - AAAA: 2a00:b700::1c
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7. Test Limitations

- **No validation of patching:** No follow-up scans were conducted after initial discovery
- **No active exploitation:** Vulnerabilities were identified, not exploited

Recommendations:

- Validate patching and configuration fixes
- Conduct PoC exploitation in a controlled environment
- Retest for new vulnerabilities in future