

1 Executive Security Assessment Report

1.1 Introduction

The security assessment was conducted on the domain **chivpn.transunion.com**. The analysis commenced on **April 11th** at **01:00** and concluded in **00h:11m:59s**. The assessment was categorized as a **Basic** type scan. The methodology employed adheres to OWASP and OSCP standards, focusing on identifying critical vulnerabilities within web applications and infrastructure.

1.2 Short Summary of Main Issues

The security assessment identified **1 high-risk**, **3 medium-risk**, **2 low-risk**, and **13 informational issues**. The most critical finding is a Denial of Service (DoS) vulnerability with a **94.04% time-out rate** on port 80, posing a significant threat to service availability and requiring mmediate mitigation. Medium-risk issues include the absence of Web Application Firevali (WAF) protection, exposing the system to injection attacks, and insecure open ports generated via Nmap, which could lead to unauthorized access. Additionally, sensitive subdomains were identified, potentially exposing critical systems. Immediate actions include implementing DoS protection, enhancing WAF coverage, and securing exposed ports to mitigate these vulnerabilities.

1.3 Key Security Issues

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Title	Risk
Denial of Service (DoS) Assessment	High
Absence of WAF	Medium
Nmap Port Scan Resuts Analysis	Medium
Subdomain Naming Security Assessment	Medium
Shared Hosting, Elvironment Analysis	Low
SSL/TLS Photocols Security Assessment	Low

1.3.1 Denial of Service (DoS) Assessment

Description:

A high-severity **Des** vulnerability was identified on port 80 (HTTP) with a **97.04% timeout rate** out of **169 tota responses**, indicating a severe risk to service availability.

Affected Assets:

- chivenetransunion.com:80

Recommendations:

Immediate implementation of DoS protection mechanisms is recommended. This includes configuring rate limiting, deploying network-level protections such as intrusion prevention systems (IPS), and considering the use of content delivery networks (CDNs) to absorb traffic spikes.

1.3.2 Absence of WAF

Description:

The absence of a Web Application Firewall (WAF) was detected, resulting in a **100% vulnerability rate** across the analyzed host. This significantly increases the risk of successful cyber-attacks, particularly injection-based attacks.

Affected Assets:

- chivpn.transunion.com



Recommendations:

Deploy a robust WAF solution to filter and monitor HTTP requests between the web application and the internet. This will help protect against common web exploits that could compromise application security.

Jescription: The scan revealed 2 open ports, including port 10000 associated with a potentially insection service, specifically the Webmin interface exposure. Affected Assets: - IP Address: 66.175.247.22 Recommendations: Close unnecessary porte and

Close unnecessary ports and restrict access to essential services only. Implement to limit access to trusted IP addresses and consider using VPNs for secur eniote access.

1.3.4 Subdomain Naming Security Assessment

Description:

A sensitive subdomain, chivpn.transunion.com, was identified, categorized under "Sensitive Services" with a high-risk level due to potential exposure of citical systems and sensitive data.

Affected Assets:

- Subdomain: chivpn.transunion.com

Recommendations:

enting strict access controls and monitor-Review and secure sensitive subdomains by im ing for unauthorized access attempts. Regulated dit subdomain configurations to ensure they do not expose critical infrastructure.

1.4 General Recommendation

To enhance overall security posture is recommended to implement comprehensive monitor-ing solutions to detect and respond to threats in real-time. Regular security audits and penetration testing should be conducted to identify new vulnerabilities promptly. Additionally, employee training on cyber ecurity best practices can help mitigate risks associated with human error. PUBLICREPOR