**CTF: Analyzing Vulnerabilities with Snyk Extension**

**Introduction**

Snyk is a tool that helps developers find and fix vulnerabilities in their dependencies. This CTF challenge will guide you through using the Snyk Chrome extension to analyze and identify vulnerabilities on the target website http://zero.webappsecurity.com.

**Tools and Requirements**

* Web Browser: Google Chrome
* Chrome Extension: "Snyk Web Application Vulnerability Scanner" or any similar Snyk extension
* Target Website: http://zero.webappsecurity.com

**Setup and Configuration**

1. Install Snyk Extension:

* Go to the Chrome Web Store and install the "Snyk Web Application Vulnerability Scanner" extension.

2. Configure Snyk Extension:

* Open the Snyk extension from the Chrome extensions menu.
* Familiarize yourself with running scans and analyzing results.

**Challenge Instructions**

1. Analyze the Target Website:

* Open Chrome and navigate to the target website: http://zero.webappsecurity.com.
* Use the Snyk extension to scan the website for vulnerabilities.
* Review the scan results to identify any vulnerabilities.

2. Identify and Document Vulnerabilities:

* Document the types of vulnerabilities found by the Snyk scan.
* Determine the severity of each vulnerability (e.g., low, medium, high, critical).

3. Explore Vulnerabilities:

* Investigate one or more vulnerabilities to understand their impact.
* Research possible exploit methods for the identified vulnerabilities.

**Tasks and Questions**

**1. Task 1: Scan the Website**

Question: What is the most severe vulnerability found by Snyk on http://zero.webappsecurity.com?

Answer: Critical.

**2. Task 2: Document Vulnerabilities**

Question: How many vulnerabilities were identified by the Snyk scan?

Answer: Number.

**3. Task 3: Analyze Vulnerability**

Question: What type of vulnerability is the most severe one (e.g., SQL Injection, XSS)?

Answer: Type.

**4. Task 4: Suggest Fixes**

Question: What is a recommended fix for the most severe vulnerability?

Answer: Fix method.

**Hint and Tips**

Hint: The Snyk extension provides detailed descriptions and recommendations for each vulnerability.

Tip: Pay attention to the severity and fix recommendations to prioritize which vulnerabilities to address first.

**Conclusion**

This CTF challenge is designed to teach you how to use the Snyk extension to analyze web applications for vulnerabilities, document findings, and understand the impact of these vulnerabilities on http://zero.webappsecurity.com. By following these steps, you will gain practical experience in web security analysis and vulnerability management.

**Detailed Steps for Each Task**

**1. Task 1: Scan the Website**

* Open Chrome and navigate to http://zero.webappsecurity.com.
* Open the Snyk extension and run a scan on the website.
* Wait for the scan to complete and review the results.
* Identify the most severe vulnerability found.

**2. Task 2: Document Vulnerabilities**

* Review the list of vulnerabilities found by the Snyk scan.
* Count the total number of vulnerabilities and document them by type and severity.

**3. Task 3: Analyze Vulnerability**

* Select the most severe vulnerability identified in the scan.
* Read the detailed description provided by Snyk.
* Understand the type of vulnerability and its potential impact on the website.

**4. Task 4: Suggest Fixes**

* Look at the fix recommendations provided by Snyk for the most severe vulnerability.
* Summarize the recommended fix method.

By completing these tasks, participants will gain a deeper understanding of web application vulnerabilities and how to use tools like Snyk to identify and address them effectively.