assignment-4

What is Burp Suite?

Burp Suite is a widely used cybersecurity testing tool developed by PortSwigger. It is designed for security testing web applications, and it's particularly popular among ethical hackers, penetration testers, and security professionals. Burp Suite helps identify various security vulnerabilities in web applications, allowing developers and security teams to address these issues before they can be exploited by malicious actors.

Why Burp Suite?

1. **Comprehensive Web Application Testing**: Burp Suite offers a wide range of tools for testing web applications, including scanning for common vulnerabilities like cross-site scripting (XSS), SQL injection, and more.
2. **User-Friendly Interface**: It provides a user-friendly and intuitive interface, making it accessible for both beginners and experienced security professionals.
3. **Active and Passive Scanning**: Burp Suite can actively scan web applications for vulnerabilities, but it also allows for passive scanning to identify potential issues passively while you browse the application.
4. **Extensive Support for Various Protocols**: It supports HTTP, HTTPS, and other protocols, which is crucial for testing applications that use secure connections.

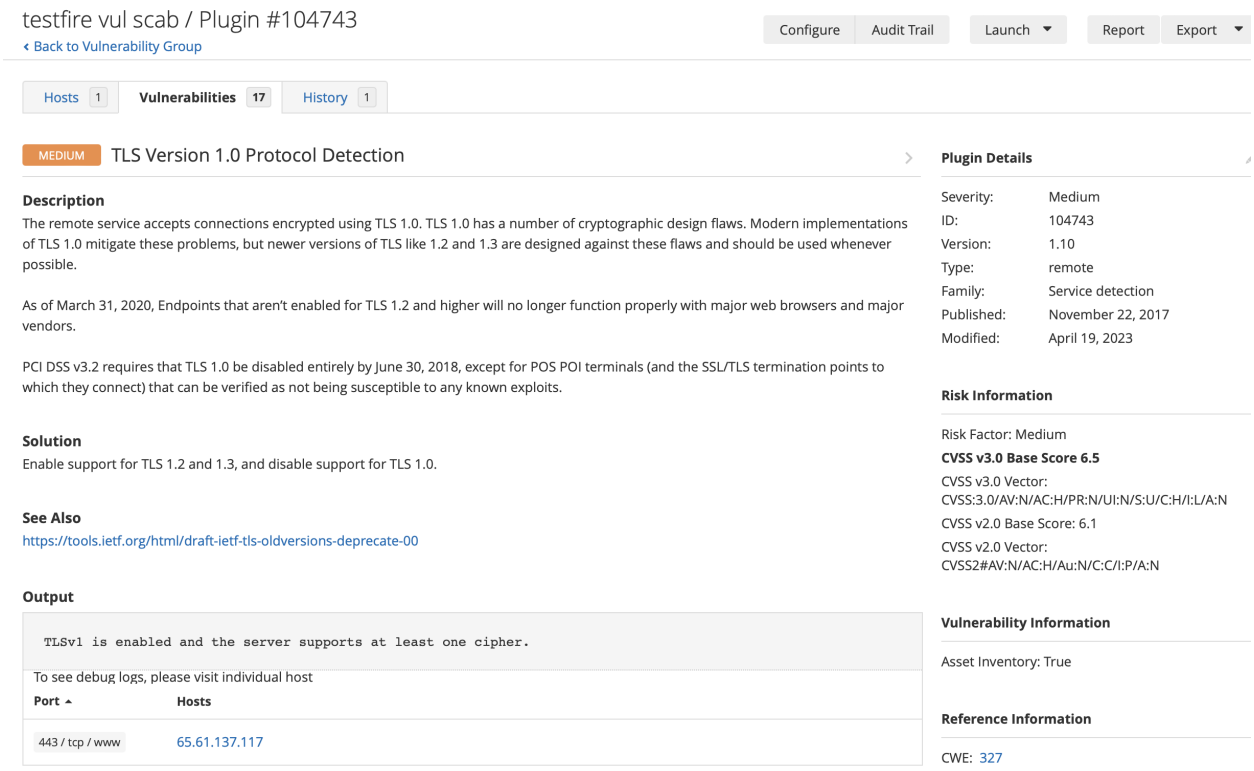
5. **Advanced Crawling and Scanning**: Burp Suite can automatically crawl an application, identifying various paths and inputs. It then applies various scanning techniques to find vulnerabilities.
6. **Repeater and Intruder Tools**: These tools allow for manual testing of requests and responses, and automated fuzzing of input parameters to identify vulnerabilities.
7. **Session Management and Analysis**: It helps manage user sessions and analyze session tokens and cookies, which is crucial for identifying security issues related to session management.
8. **Integration and Extensibility**: Burp Suite can be extended with plugins and has robust support for integration with other tools and frameworks, allowing for customized testing workflows.

Features of Burp Suite:

1. **Proxy**: Allows you to intercept and modify HTTP/S traffic between your browser and the target application.
2. **Spider**: Automatically discovers and maps out the structure of a website, identifying all accessible content.
3. **Scanner**: Scans for a wide range of web vulnerabilities including SQL injection, cross-site scripting (XSS), remote command execution, and more.
4. **Intruder**: Performs automated attacks on web applications, allowing you to test for a wide range of vulnerabilities by customizing requests.
5. **Repeater**: Provides a simple interface for manually manipulating and re-sending individual HTTP requests.
6. **Sequencer**: Analyzes the quality of randomness in tokens or session IDs.
7. **Decoder**: Provides various tools for transforming and decoding data.
8. **Comparer**: Allows you to compare two pieces of data, which is useful for identifying differences in responses.
9. **Extensibility**: Burp Suite can be extended with custom plugins and integrations, allowing you to tailor it to your specific needs.
10. **Collaborator**: Helps identify out-of-band vulnerabilities by providing a unique domain for interacting with the application.

11. **Session Handling**: Manages user sessions and helps identify security issues related to session tokens and cookies.
12. **Reporting**: Generates detailed reports of vulnerabilities identified during testing.

Test the vulnerabilities of testfire.net



testfire vul scab / Plugin #83875

‹ Back to Vulnerabilities

Configure | Audit Trail | Launch | Report | Export

Hosts 1 | **Vulnerabilities 17** | History 1

LOW SSL/TLS Diffie-Hellman Modulus <= 1024 Bits (Logjam)

Description

The remote host allows SSL/TLS connections with one or more Diffie-Hellman moduli less than or equal to 1024 bits. Through cryptanalysis, a third party may be able to find the shared secret in a short amount of time (depending on modulus size and attacker resources). This may allow an attacker to recover the plaintext or potentially violate the integrity of connections.

Solution

Reconfigure the service to use a unique Diffie-Hellman moduli of 2048 bits or greater.

See Also

https://weakdh.org/

Output

```
Vulnerable connection combinations :

  SSL/TLS version  : TLSv1.0
  Cipher suite     : TLS1_CK_DHE_RSA_WITH_AES_256_CBC_SHA
  Diffie-Hellman MODP size (bits) : 1024
    Warning - This is a known static Oakley Group2 modulus. This may make
    the remote host more vulnerable to the Logjam attack.
  Logjam attack difficulty : Hard (would require nation-state resources)

more...
```

To see debug logs, please visit individual host

Port	Hosts
443 / tcp / www	65.61.137.117

Plugin Details

Severity:	Low
ID:	83875
Version:	1.40
Type:	remote
Family:	Misc.
Published:	May 28, 2015
Modified:	December 5, 2022

VPR Key Drivers

Threat Recency: No recorded events
Threat Intensity: Very Low
Exploit Code Maturity: Unproven
Age of Vuln: 730 days +
Product Coverage: Very High
CVSSV3 Impact Score: 1.4
Threat Sources: No recorded events

Risk Information

Vulnerability Priority Rating (VPR): 4.5
Risk Factor: Low
CVSS v3.0 Base Score 3.7
CVSS v3.0 Vector:
CVSS:3.0/AV:N/AC:H/PR:N/UI:N/S:U/C:N/I:L/A:N
CVSS v3.0 Temporal Vector:

testfire vul scab / Plugin #10107

‹ Back to Vulnerability Group

Configure | Audit Trail | Launch | Report | Export

Hosts 1 | **Vulnerabilities 17** | History 1

INFO HTTP Server Type and Version

Description

This plugin attempts to determine the type and the version of the remote web server.

Output

```
The remote web server type is :

Apache-Coyote/1.1
```

To see debug logs, please visit individual host

Port	Hosts
443 / tcp / www	65.61.137.117
80 / tcp / www	65.61.137.117
8080 / tcp / www	65.61.137.117

Plugin Details

Severity:	Info
ID:	10107
Version:	1.141
Type:	remote
Family:	Web Servers
Published:	January 4, 2000
Modified:	October 30, 2020

Risk Information

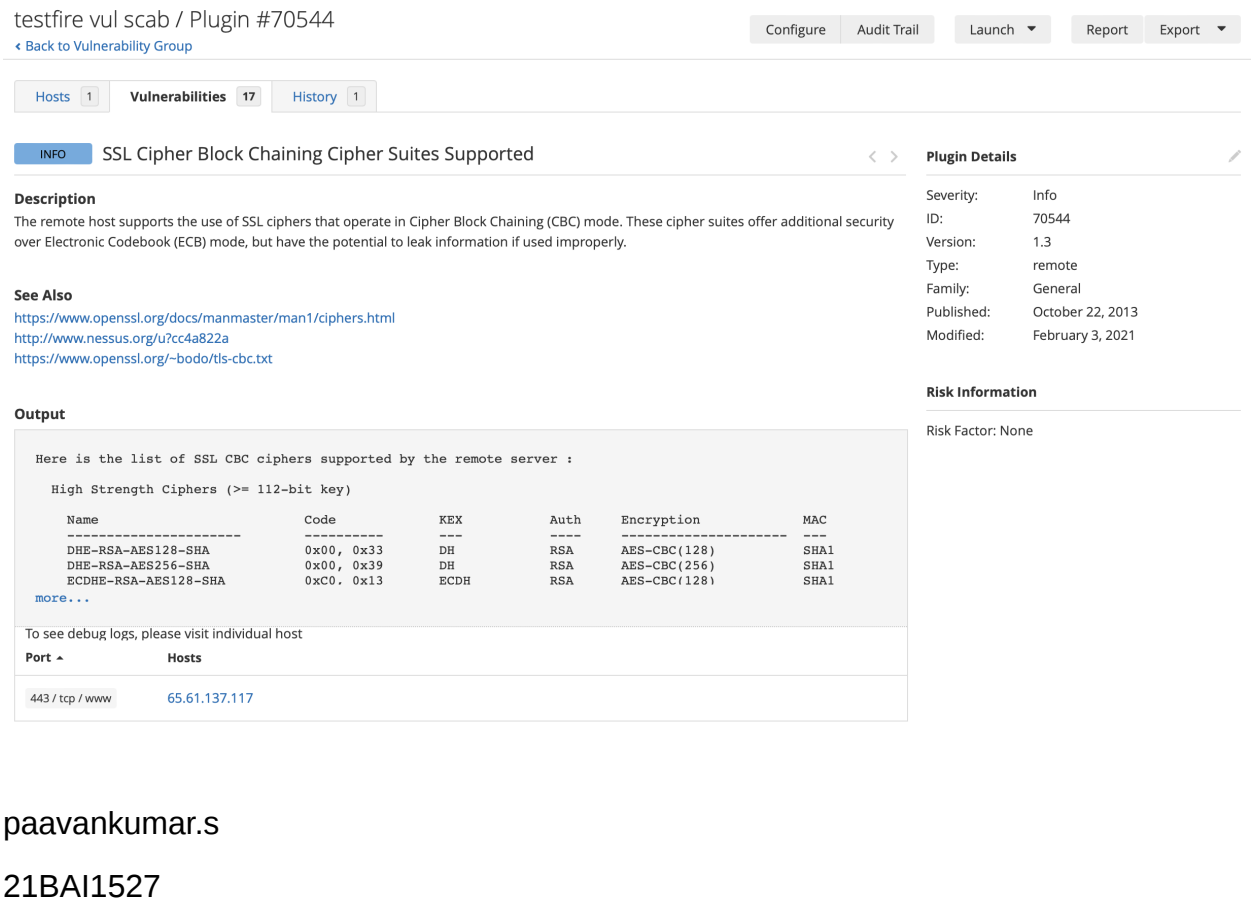
Risk Factor: None

Vulnerability Information

Asset Inventory: True

Reference Information

IAVT: 0001-T-0931



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