Red Teaming Internship [Red Team: Offensive security] Akanksha Surabhi COMPANY: HACK SECURE

Web Application Vulnerability Assessment Report for http://testphp.vulnweb.com/

Executive Summary:

Assessment Date: January 9 2025

Target Application: http://testphp.vulnweb.com/

 Scope: Full vulnerability assessment of the web application, including its functionality, security headers, authentication mechanisms, and input validation

Reconnaissance:

Domain Information

Domain Name: vulnweb.com

Registry Domain ID: D16000066-COM

Registrar WHOIS Server: whois.eurodns.com

Registrar URL: http://www.eurodns.com

Updated Date: 2023-05-26T10:04:20Z

Creation Date: 2010-06-14T00:00:00Z

Registrar Registration Expiration Date: 2025-06-13T00:00:00Z

Registrar: Eurodns S.A.

Registrar IANA ID: 1052

Registrar Abuse Contact Email: legalservices@eurodns.com

Registrar Abuse Contact Phone: +352.27220150

Domain Status: clientTransferProhibited http://www.icann.org/epp#clientTransferProhibited

Registry Registrant ID:

Registrant Name: Acunetix Acunetix

Registrant Organization: Acunetix Ltd

Registrant Street: 3rd Floor,, J&C Building,, Road Town

Registrant City: Tortola

Registrant State/Province:

Registrant Postal Code: VG1110

Registrant Country: VG

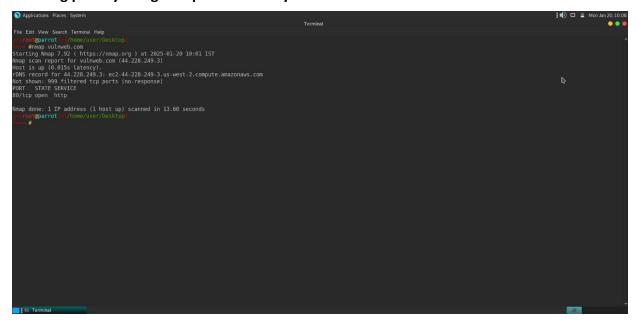
Registrant Phone: +1.23456789

Tools used:

Parrot security ,Nmap for finding port

Burp suite and embedded browser for manual and automation vulnerability scanning Whoislookup for finding domine details.

1. Finding port by using tool parrot security



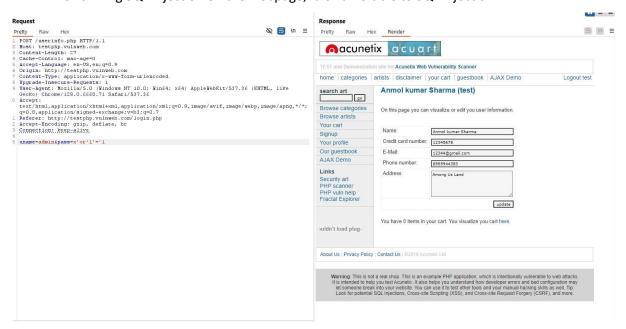
I scanned the port by using Nmap, I found 1 port open i.e. port 80 http

2. Mannual vulnerability scanning by using burp suite

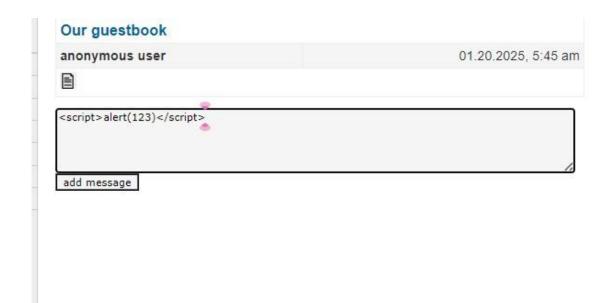


TEST and Demonstration site for Acunetix Web Vulnerability Scanner home | categories | artists | disclaimer | your cart | guestbook | AJAX Demo search art If you are already registered please enter your login information below: go Username: admin Browse categories Browse artists Password: Your cart login Signup You can also signup here. Your profile Signup disabled. Please use the username test and the password test. Our guestbook AJAX Demo Links Security art PHP scanner PHP vuln help Fractal Explorer

• Performing SQL injection on the webpage, it is vulnerable to SQL injection.



Cross site scripting (XSS)



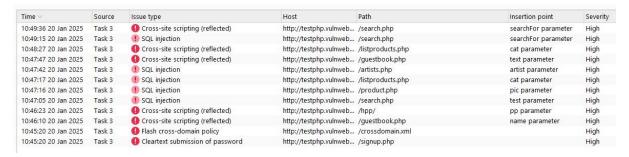


• HTML injection



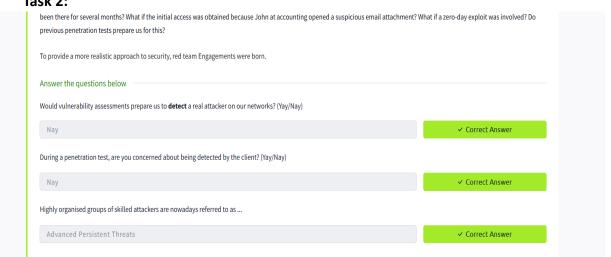


3. Automation vulnerable scanning using burp suite crawl and audit



TRY HACK ME: Red team fundamentals room:

Task 2:



Task 3:

access to some user's credentials or even a workstation in the internal network.

• Table-top Exercise: An over the table simulation where scenarios are discussed between the red and blue teams to evaluate how they would theoretically respond to certain threats. Ideal for situations where doing live simulations might be complicated.

Answer the questions below

The goals of a red team engagement will often be referred to as flags or...

crown jewels

Correct Answer

During a red team engagement, common methods used by attackers are emulated against the target. Such methods are usually called TTPs. What does TTP stand for?

Tactics, techniques and procedures

Correct Answer

The main objective of a red team engagement is to detect as many vulnerabilities in as many hosts as possible (Yay/Nay)

Nay

Task 4:

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Red Team Lead	Plans and organises engagements at a high level—delegates, assistant lead, and operators engagement assignments.
Red Team Assistant Lead	Assists the team lead in overseeing engagement operations and operators. Can also assist in writing engagement plans and documentation if needed.
Red Team Operator	Executes assignments delegated by team leads. Interpret and analyse engagement plans from team leads.

As with most red team functions, each team and company will have its own structure and roles for each team member. The above table only acts as an example of the typical responsibilities of each role.

Answer the questions below

What cell is responsible for the offensive operations of an engagement?

Red Cell ✓ Correct Answer

What cell is the trusted agent considered part of?

White Cell Correct Answer

Task 5:

Exploitation	Exploit the target's system to execute code	M317-010, Zelo), Zero-Logon, etc.	
Installation	Install malware or other tooling	Mimikatz, Rube	Mimikatz, Rubeus, etc.	
Command & Control	Control the compromised asset from a remote central controller	Empire, Cobalt	Empire, Cobalt Strike, etc.	
Actions on Objectives	Any end objectives: ransomware, data exfiltration, etc.	Conti, LockBit2	LockBit2.0, etc.	
•	below Mimikatz on a target machine, where would they be placed in the Lockheed Martin cy	ber kill chain?		
nswer the questions b an adversary deployed M Installation		ber kill chain?	✓ Correct Answer	
an adversary deployed N		ber kill chain?	✓ Correct Answer	
an adversary deployed M		rber kill chain?	✓ Correct Answer	

Task 6:

