Deploy a Vulnerability Management Solution to Organization Infrastructure

Demo organization: testphp.vulnweb.com

Vulnerability Management | Institute Of Emerging Carrers (IEC)| M. Ansar Raza

Project Outline

- Introduction of Vulnerability Management
- Importance of Vulnerability Management/Assessment
- What is meant by CVE
- Details of Project-Vulnerability Management Solution (Nessus)
- Conclusion
- Q&A

What is Vulnerability & Vulnerability Management

- A vulnerability is a weakness that can be exploited by cybercriminals to gain unauthorized access to a computer system.
- Vulnerability management is a continuous, proactive process that keeps your computer systems, networks and enterprise applications safe from cyber attacks and data breaches.



Importance of Vulnerability Management

 Vulnerability management programs give companies a framework for managing risks, detecting vulnerabilities across the entire environment.

 Vulnerability management enhances the overall security posture of your organization by recognizing key assets and where to

prioritize efforts in order to reduce risk.



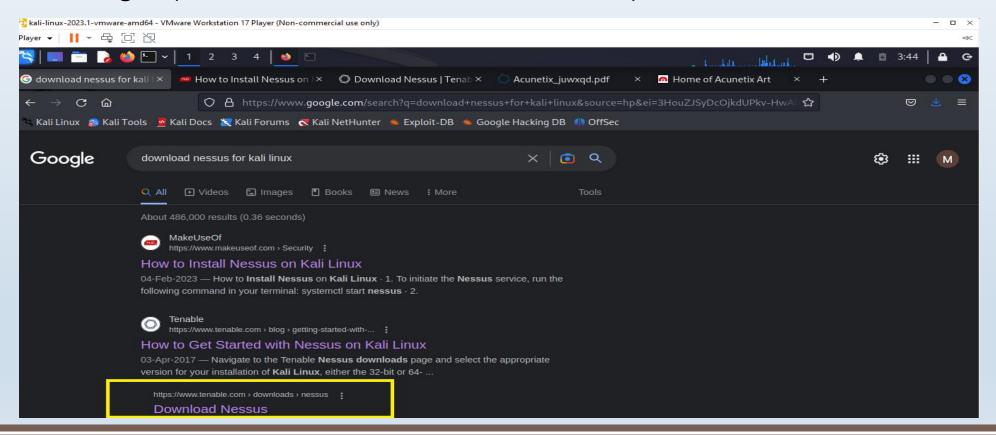
What is meant by CVE?

 CVE Common Vulnerabilities and Exposures is a list of publicly disclosed computer security flaws.



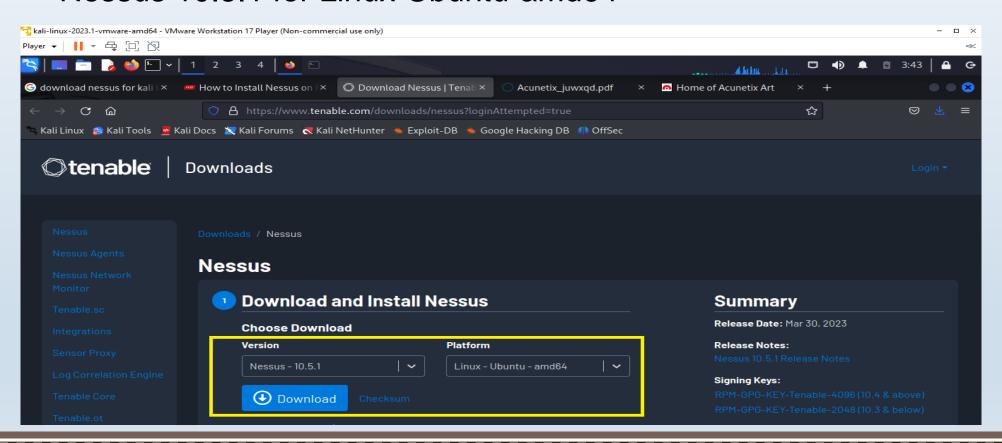
Project Description: Deploy a vulnerability management solution (Nessus) to identify all the vulnerabilities of Organization: testphp.vulnweb.com & develop a report?

Google (Nessus Download for Kali Linux)



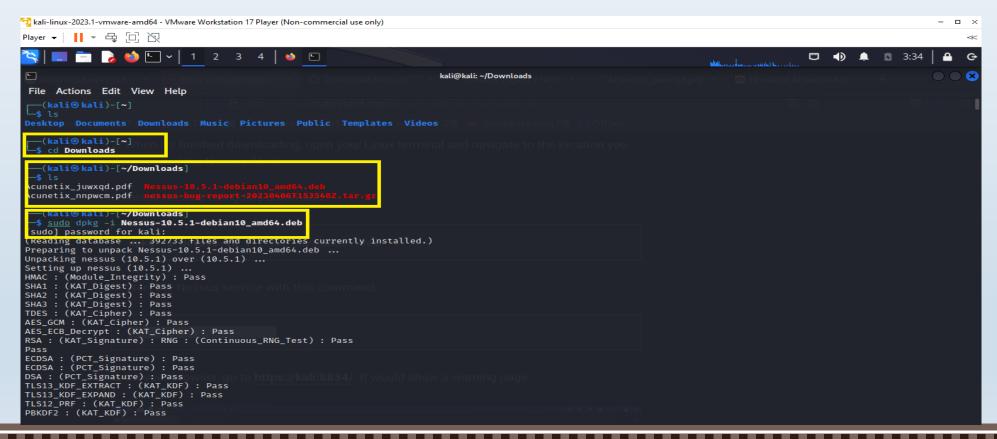
Downloading Nessus

Nessus 10.5.1 for Linux-Ubuntu-amd64



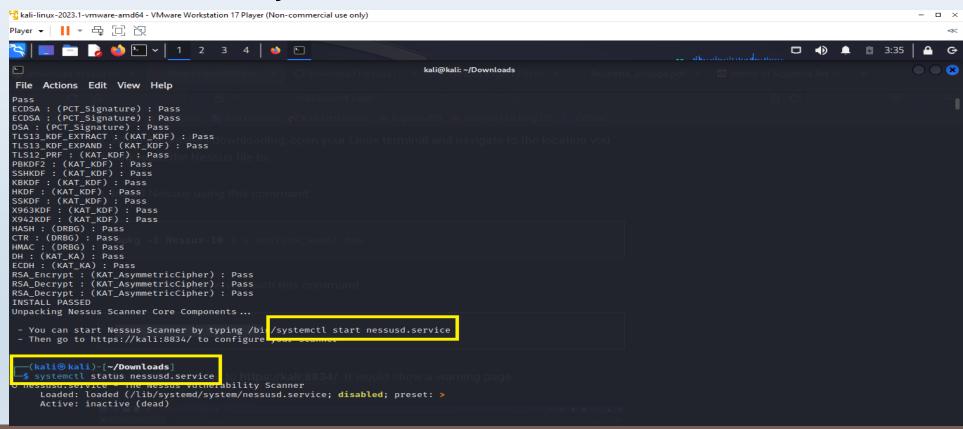
Installation of Nessus 10.5.1

Open terminal of kali Linux



Installation of Nessus 10.5.1

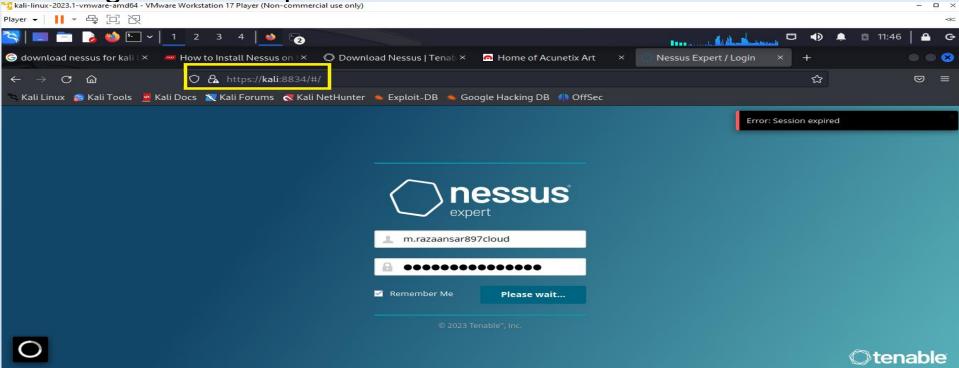
Run command <u>systemctl start nessusd.service</u>



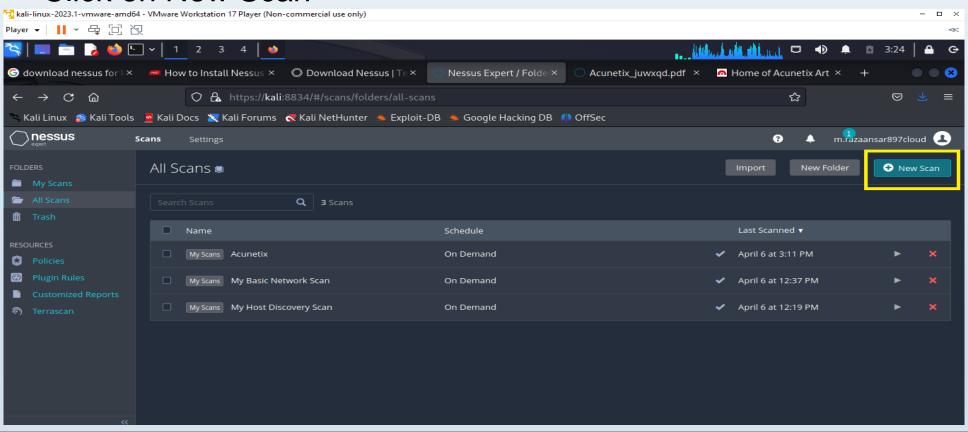
Open Nessus Browser

https://localhost:8834/#/

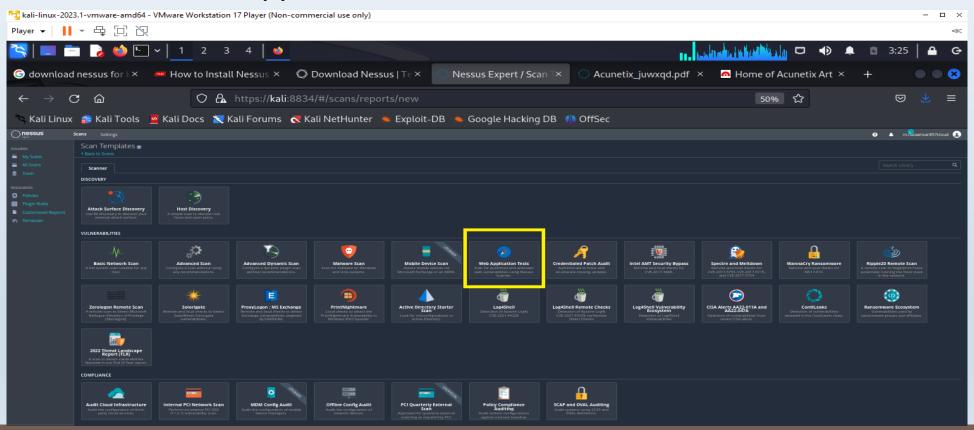
Using Nessus Expert activate the account



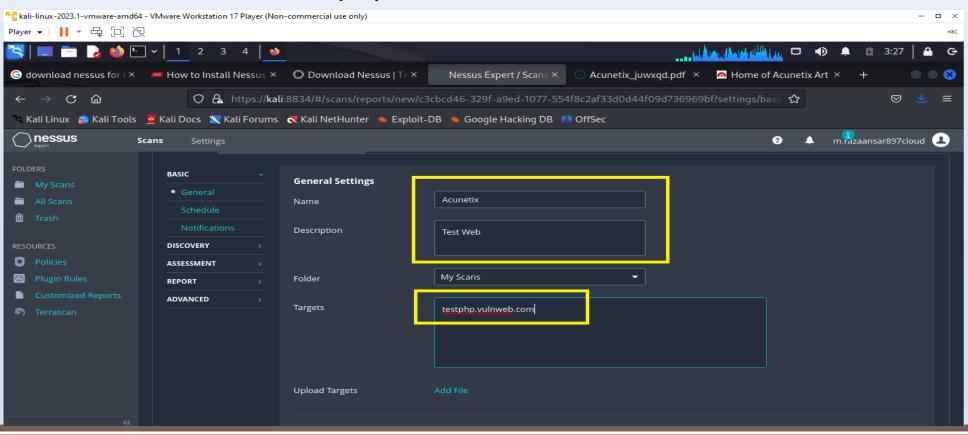
Click on New Scan



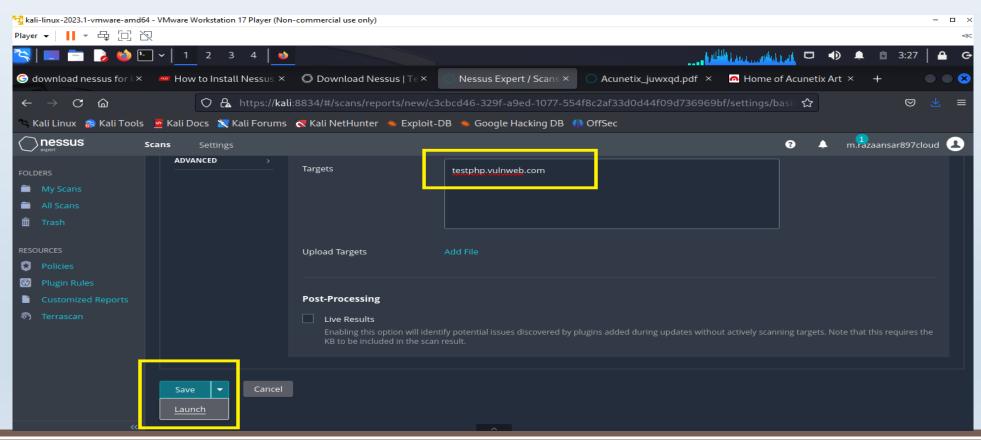
Click on Web Application Test



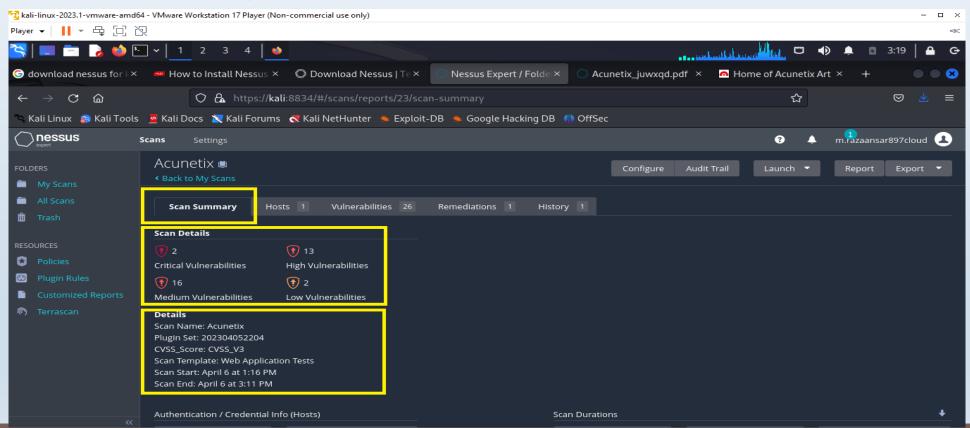
Enter Parameter <u>testphp.vulnweb.com</u>



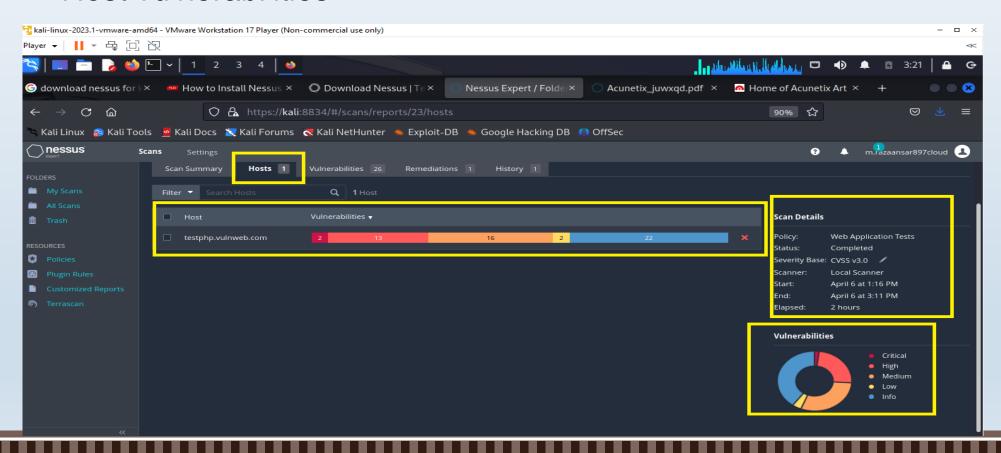
Scan launch



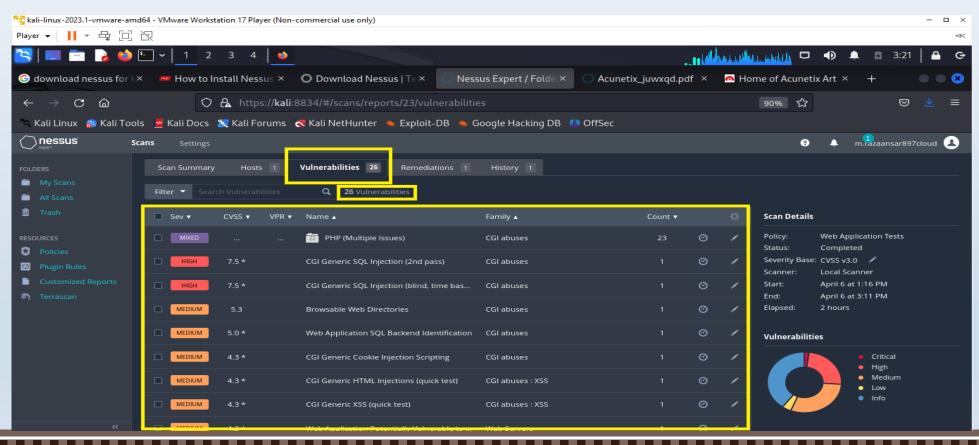
Scan Summary



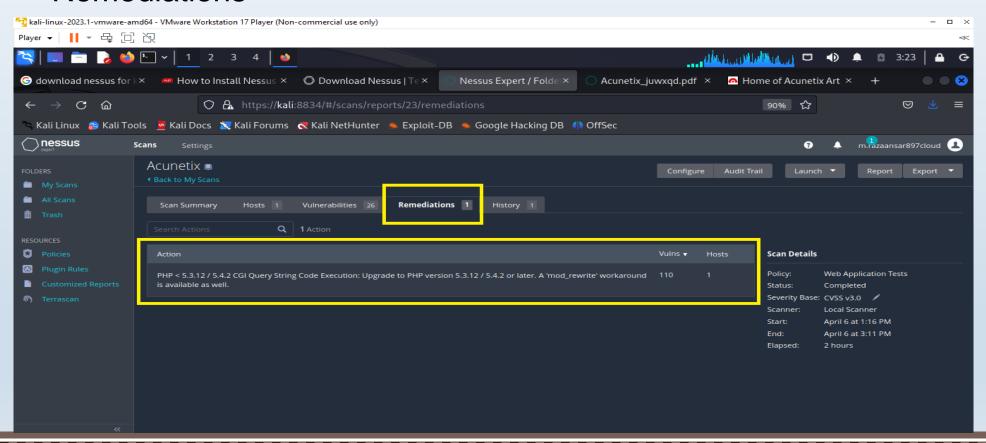
Host vulnerabilities



Detail of vulnerabilities

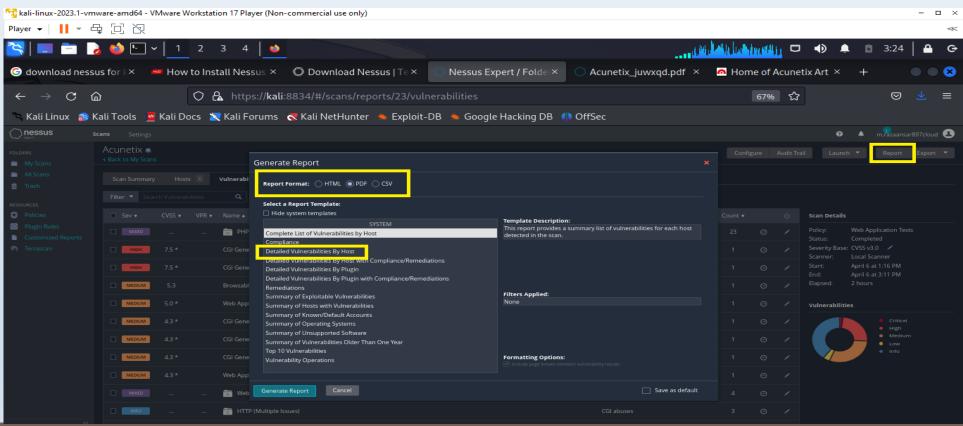


Remediations



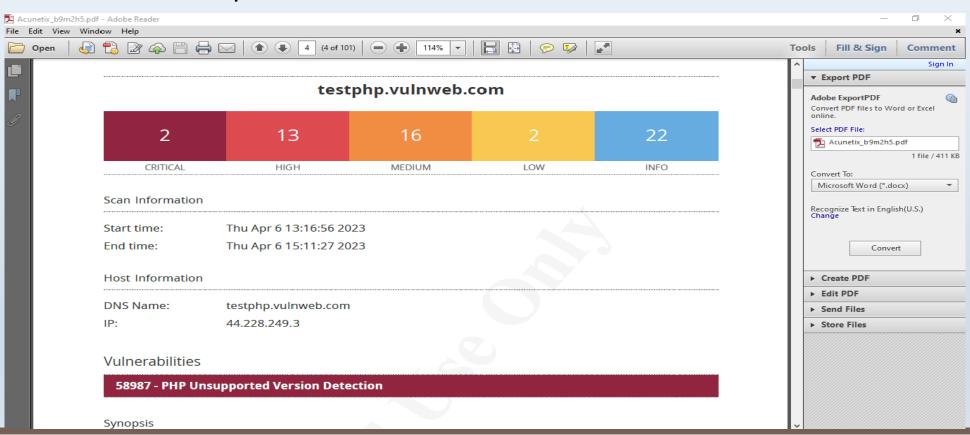
Nessus Report

Nessus generate report in PDF format



Nessus Report

Nessus PDF Report



Conclusion

- Nessus is a vulnerability scanning tool
- Vulnerability scanning tool is inspected the potential points of exploit on a computer or network to identify security holes.
- A vulnerability scanner detects and classifies system weaknesses in computers, networks and communications equipment and predicts the effectiveness of countermeasures.

