CYBR 306 - Information Security and Assurance Exercise 03

Submitted by:

Kadeem Reid

Submitted to:

Benjamin Yankson, Ph.D.

TABLE OF CONTENTS

OBJECTIVE	3
OPENVAS	3
GREENBONE VULNERABILITY SCAN4	
GFI LANGUARD INSTALLATION	6
VULNERABILITY SCAN ON WIN 10 CLONE1	0
SECURITY ANALYSIS AND SECURITY POLICY1	14
CONCLUSION1	5

Objective:

This exercise aims to give you significant experience in conducting security analyses, analyzing the requirements for organization security policies, and conducting vulnerability assessments using GFI Languard's vulnerability scanning software.

Part B: Install and Configure OpenVAS- Perform Network vulnerability scan Task 2:

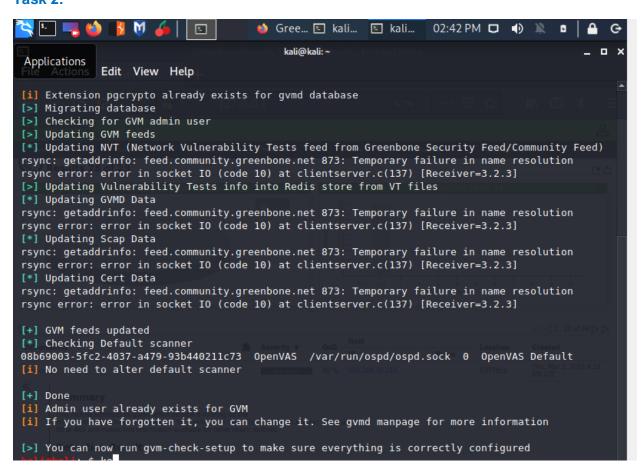


Figure 1. Successful download and install of the necessary plugins

Task 4:

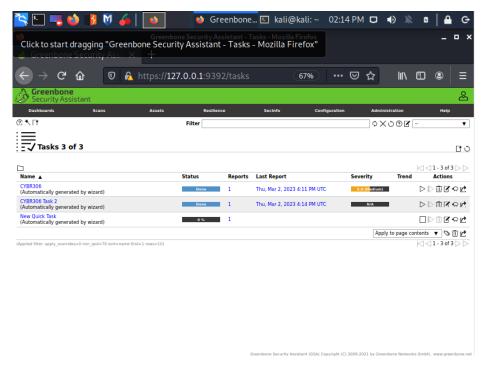


Figure 2. Successful vulnerability scan

Task 5:

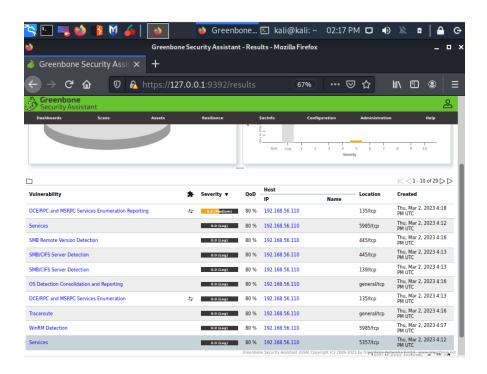


Figure 3. List of found vulnerabilities

After doing the vulnerability scan, I discovered that there are a few vulnerabilities on my network. The main one was DCE/RPC and MSRPC Services Enumeration Reporting, which an attacker could use to gain more knowledge about the remote host. This is considered a medium risk vulnerability. These services running on the remote host can be enumerated by connecting on port 135 and doing the appropriate queries. The vulnerability scan also showed the list of DCE/RPC or MSRPC services running on this host via the TCP protocol. According to the scan the recommended solution for this vulnerability is mitigation, simply filtering incoming traffic to these ports.

Part C: Install and Configure GFI Languard - Threat & Vulnerability Scan

For this section I had to download an alternative version of GFI Languard, therefore some screenshots of the setup are missing, but I promise this is my work

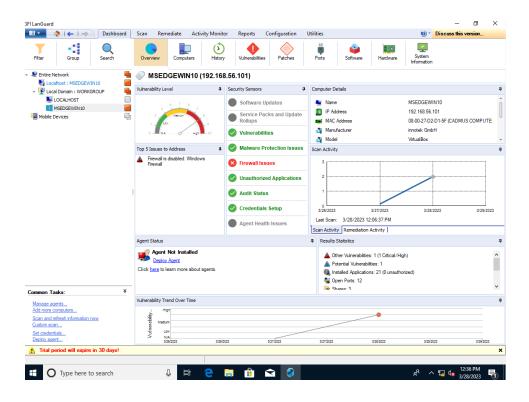
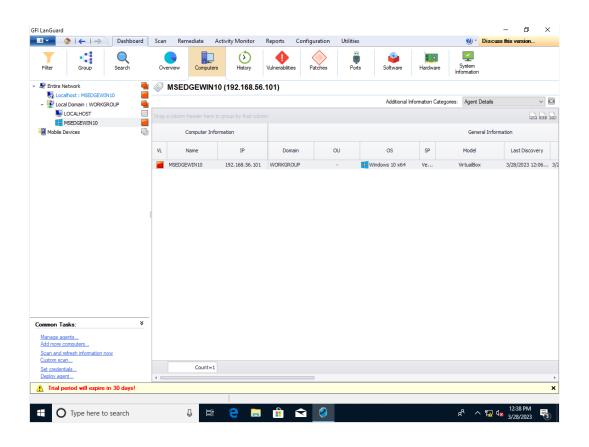
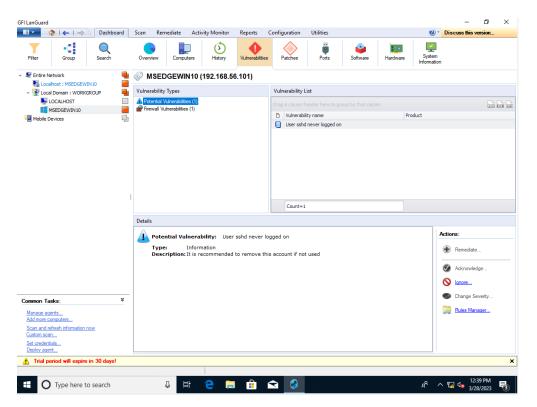
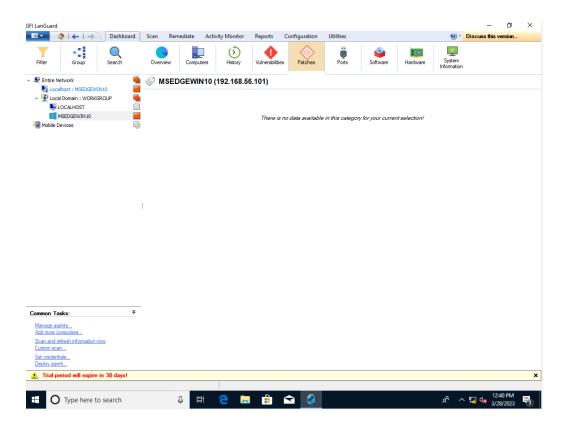


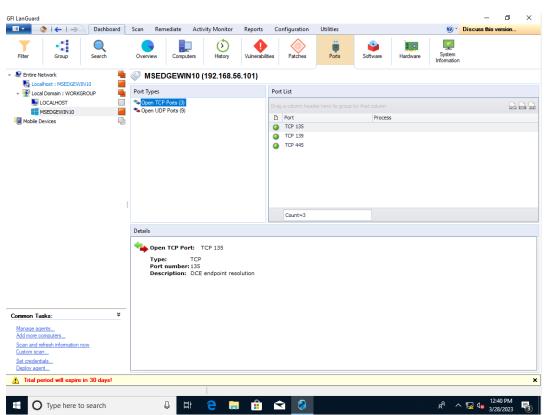
Figure 4. Depiction of successful installation of GFI Languard

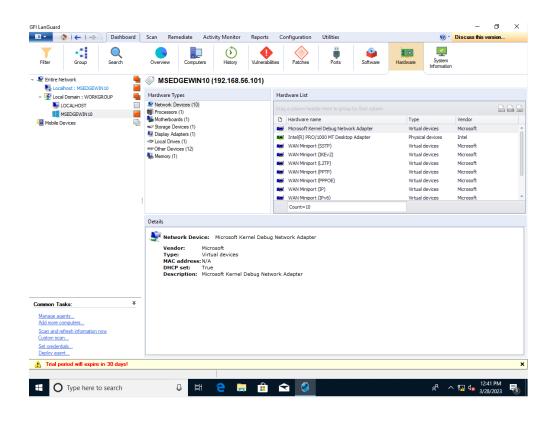
III.

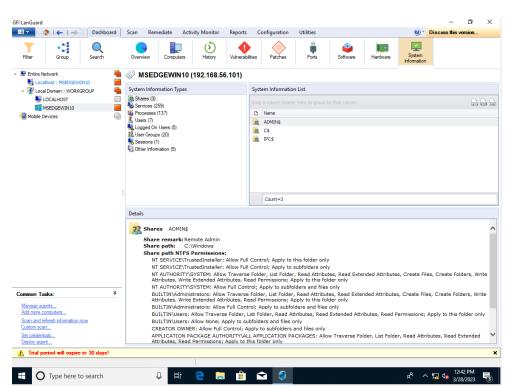


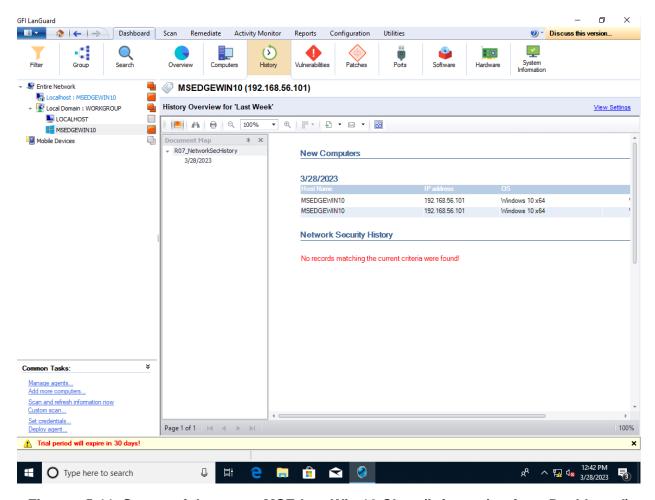












Figures 5-11. Successful scan on MSEdge- Win 10 Clone(information from Dashboard)

IV.

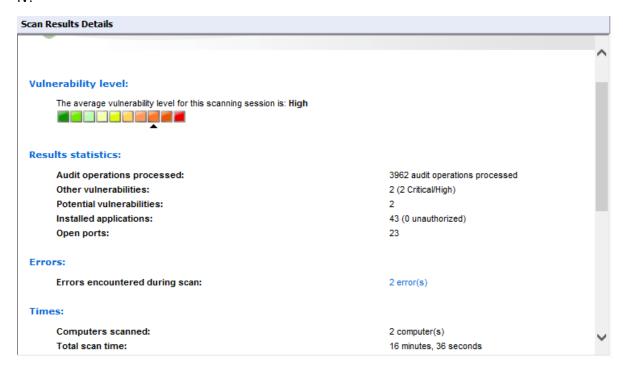
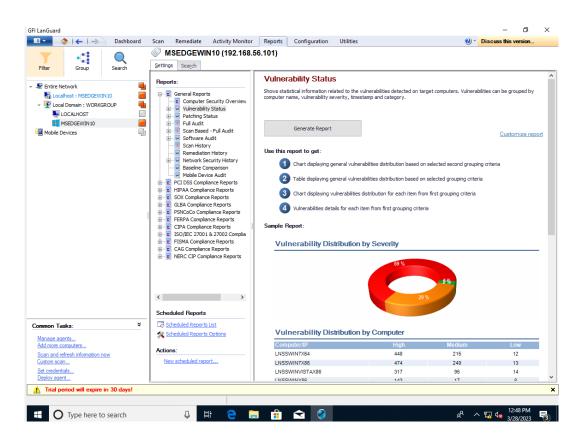
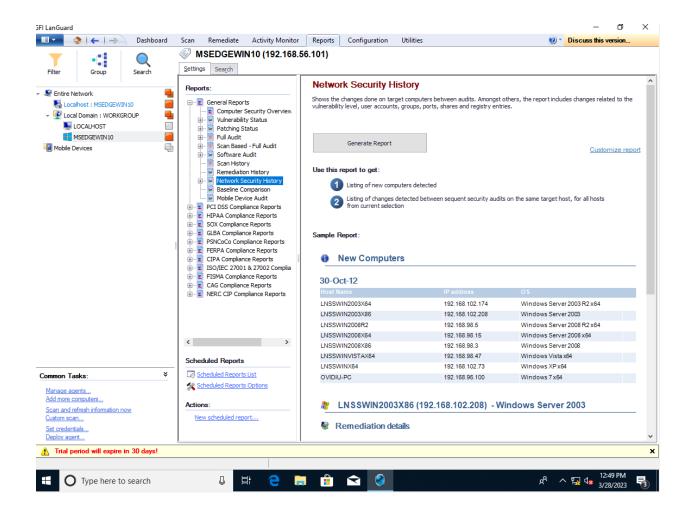
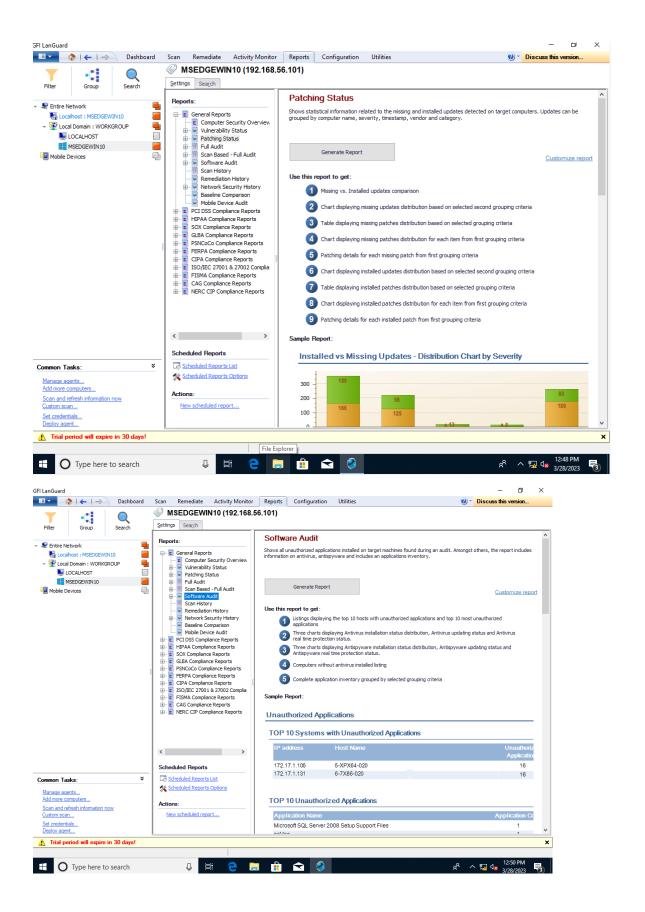


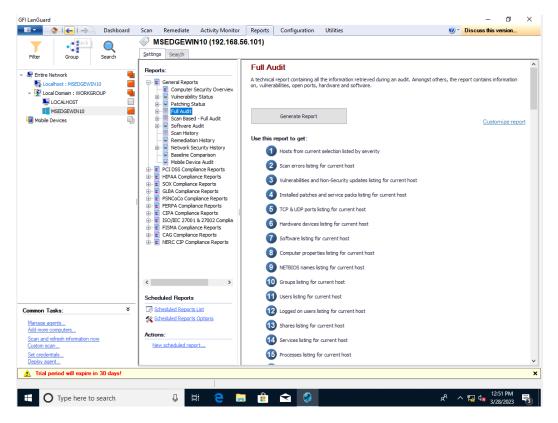
Figure 12. Scan result details

٧.

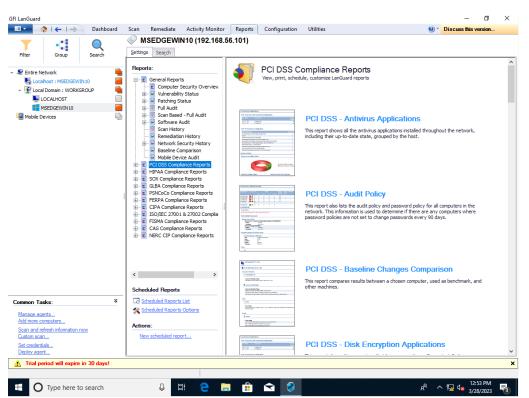








VI.



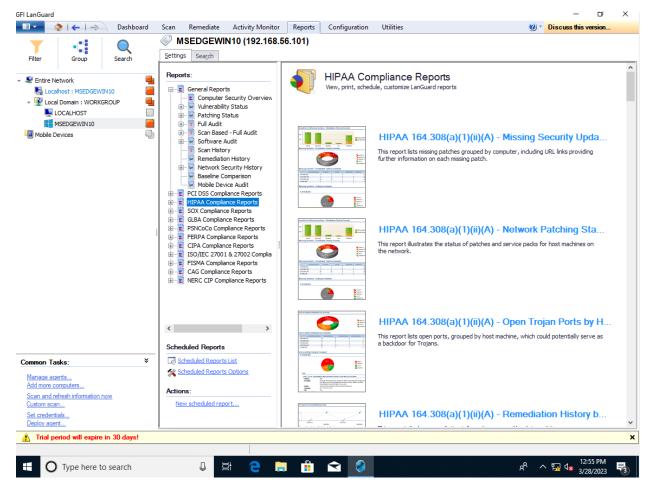


Figure 13-19. Information from Report Tab

Part D: Security Analysis and Security Policy

1. Unprofessional security guard who doesn't question the potential attackers entering the building.

- 2. No cameras in the elevator lobby.
- 3. No requirements to enter building (i.e. sign in, identification).
- 4. Safe has keypad instead of normal dial combination.
- 5. Employee ID cards did not have sleeves which made it easy to be cloned.

II.

- 1. Employee passwords should not relate to anything on their social medias.
- 2. Employees should not post anything work related that can result in sensitive data loss.
- 3. Employee should not use work devices on public Wi-Fi networks.

Conclusion:

Throughout this exercise I successfully gained significant experience in conducting security analyses, analyzing the requirements for organization security policies, and conducting vulnerability assessments using GFI Languard's vulnerability scanning software.