

Security Operations Management (SOM) – Lab Session 2

1 Introduction

This lab aims to enhance the understanding of vulnerability management processes and activities. Background to this was covered in lecture 5 of the Security Operations Management module.

A vulnerability management standard will be created jointly before you will perform a vulnerability scan, analyse the results, compile a summary report and prepare a governance meeting.

The following sections provide the instructions for this Lab including submission requirements.

2 Scope of this Lab

This lab comprises 3 parts:

- 1) Creation of a vulnerability management standard (20% of mark).
- 2) Perform a vulnerability scan, analyse the results and compile a summary report (50 % of mark).
- 3) Prepare a governance meeting by compiling a meeting presentation (30% of mark).

3 Instructions

Vulnerability Management Standard:

The class will jointly draft a vulnerability management standard in a group activity guided by the instructor who will capture the draft in a word document. Each student will download the draft and finalise (formulate out the content bullet points captured) for submission to the lab 2 assignment page.

The finalised draft should be submitted following the following naming convention:

"vulnerability_management_standard_som_2024_<your name>" where <your name> contains your first and surname separated by an underscore (example

"vulnerability_management_standard_som_2024_matthias_neuroth").

Submit the finalised document (MS Word format) to the moodle lab 2 submission page.

Vulnerabiliy Scanning and Reporting:

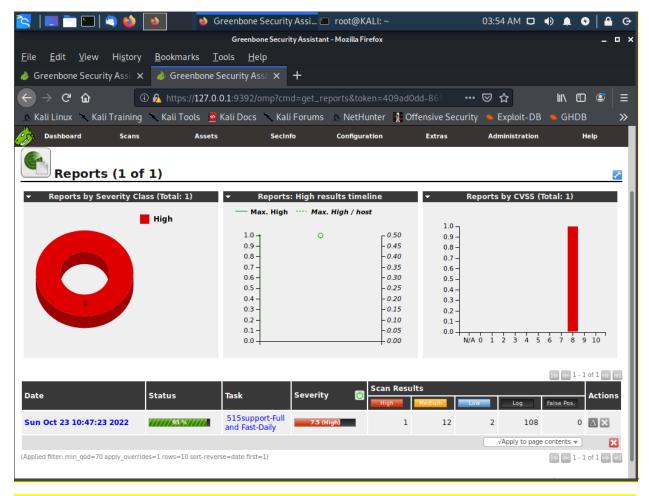
Download the blank template report (VM-Summary-Lab2.pptx) which is on moodle page prior to starting this scanning activity.

DUE TO CHANGES IN THE COMPTIA LABS, THE TIME FOR SCANNING APPEARS MUCH LONGER AND NOT FINISHING. THEREFORE, THERE IS NO NEED TO RUN THE SCANNING EXERCISE IN THE COMPTIA LAB. INSTEAD, SCREENSHOTS FOR THE SCANS ARE PROVIDED IN THE FILE "SCANRESULTS-LAB2-MAR25.DOCX". THESE SHOULD BE USED FOR COMPLETING THE "VM-SUMMARY-LAB2.PPTX TEMPLATE.

Perform a vulnerability scan using the Comptia Security+ assisted lab "Analyzing the Results of a Credentialed Vulnerability Scan".



Launch the lab and step through the instructions which will lead to starting a vulnerability scan (this will take a few minutes, you will be able to monitor progress):



Once the scan has completed, use the vulnerability scanner interface to populate the details for the summery report.



Scan Summary

	Numbers / Details	Notes / Comments
Hosts Scanned	2	HostName1, HostName2
Networks Scanned	1	network_name
Applications Scanned	MS Windows EXAMPLE	AppName
OSes Scanned	MS Windows EXAM	
Vulnerabilities (Total) - Critical - High - Moderate - Low	15 0 1 12 2	118 Log only (advisory/info only)
Main patching targets	Windows_2000, Outlook2000, Hosts: HostName2	High severity patch due on host 2, patch instructions at <site details="" with=""></site>

Please also take screenshots as evidence for the summary report details and show them in the Evidence slide(s).

Supporting Evidence





The completed summary report (powerpoint file) should be submitted to the moodle lab 2 submission page.

Governance Meeting Preparation:

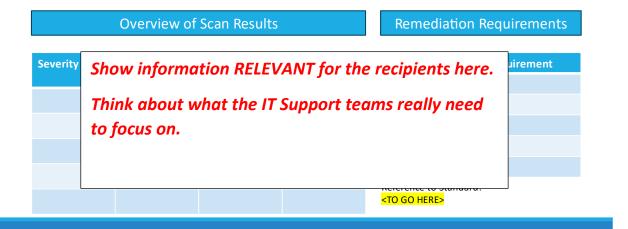
Prepare a governance meeting by compiling a governance meeting powerpoint presentation

that guides the discussion with the stakeholders (Vulnerability Management team and IT support team responsible for patching). A blank template is on the lab2 moodle assignment page (VM-Governance-Lab2-v2.pptx).

Download the template and populate the details for the following slides:

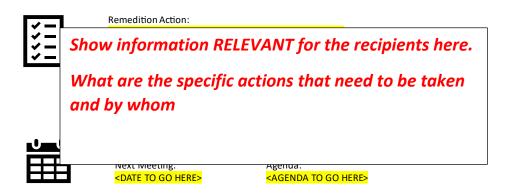
Scan results & remediation requirements





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Key remediation actions &next meeting



The completed governance meeting presentation (powerpoint file) should be submitted to the moodle lab 2 submission page.

4 SUBMISSION

Submit **1 Word document and 2 Powerpoint documents** as specified in section 3 above to the moodle lab 2 submission page.

Deadline: Wednesday, 23rd March 2025, 10.00pm GMT.

Late submission treatment:

- Up to one day late (24th March 25 @ 10.00pm): maximum mark achievable = 70%
- Up to following lecture (27th March 25 @ 6.30pm): maximum mark achievable = 40%
- Beyond that: 0%