

DEPARTMENT: ICT
PROGRAM: INFORMATION TECHNOLOGY

RQF LEVEL: 8

Module: cybersecurity

Topic: check the practice on googleclass LU5:Assignment /Auditing

Correct missing content as hash checker and report

Name: NIYIGABA CLAUDE

Reg NO: 24RP14647

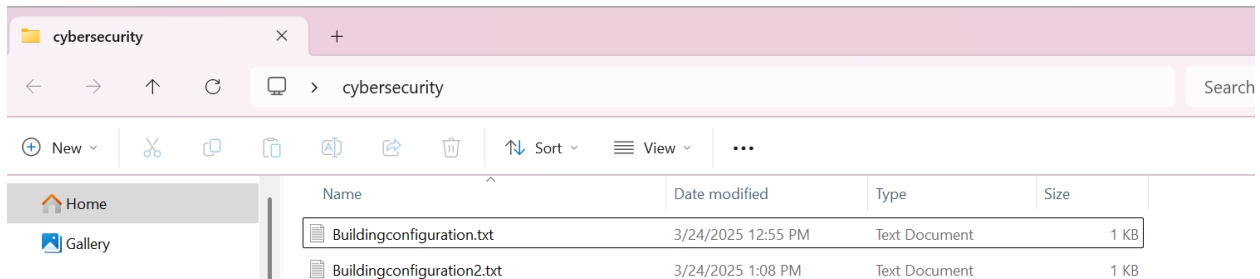
2024-2025

check the practice on googleclass LU5:Assignment /Auditing and submit it not later than 3pm today.

Report on Router attack

As cybersecurity officer, convey the security audit on router that has been attacked and the configuration modified. Make a report as follows:

1. Use the packet tracer to provide two files: one is backup of configuration file, second is the current configuration file.



First router code

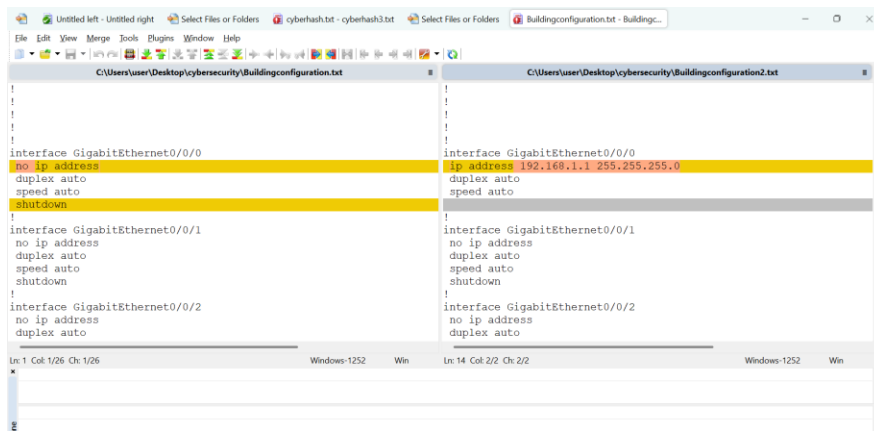
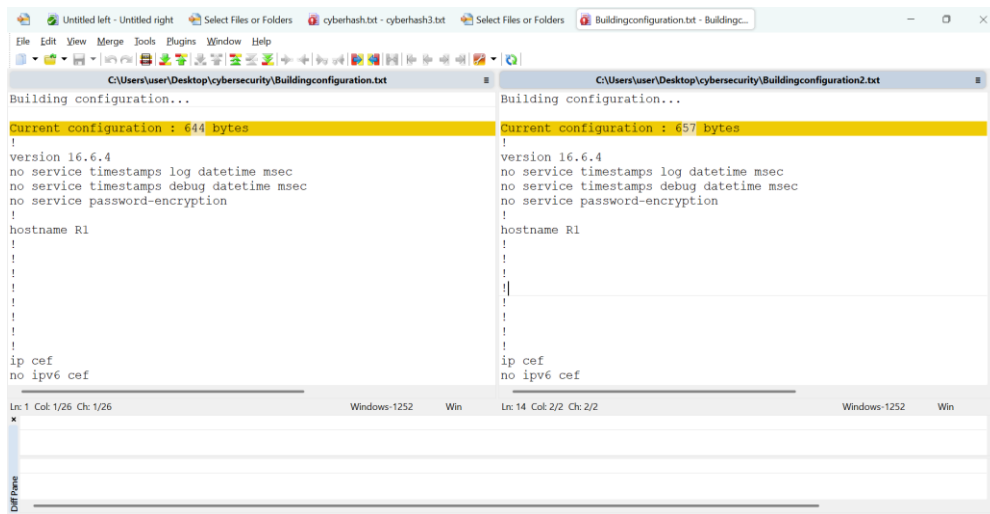
```
File Edit View

Building configuration...

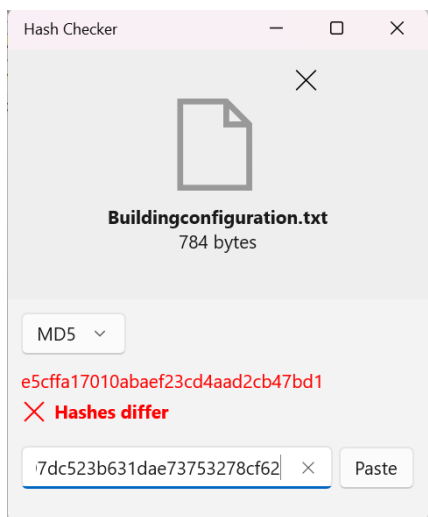
Current configuration : 644 bytes
!
version 16.6.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname R1
!
!
```

Second router script

3. Compare the two plain text content files with Hashmyfiles and winmerge tools and provide the screenshot as evidence.



➤ This image it show hash checker between Buildingconfiguration and Buildingconfiguration2



4. Remember to satisfy the attack report with a table which clarifies the modification made , date and times.

File Integrity Report

Date: March 24, 2025

Location: C:\Users\user\Desktop\cybersecurity\

1. Overview

This report details the integrity and modification history of two text files: *Buildingconfiguration.txt* and *Buildingconfiguration2.txt*. The analysis includes file metadata, hash values for integrity verification, and modification timestamps.

2. File Details

Attribute	First File (<i>Buildingconfiguration.txt</i>)	Second File (<i>Buildingconfiguration2.txt</i>)
MD5 Hash	e5cffa17010abaeef23cd4aad2cb47bd1	4229c707dc523b631dae73753278cf62
SHA1 Hash	f4fe10ae7bea45a6519ea9ef3be537776415ed41	b52f2c5bd58694304a30c702a4f4b631f1a29fde
Full Path	C:\Users\user\Desktop\cybersecurity\Buildingconfiguration.txt	C:\Users\user\Desktop\cybersecurity\Buildingconfiguration2.txt
File Extension	.txt	.txt
File Size (bytes)	784	796
Created Time	3/24/2025 12:55:44 PM	3/24/2025 1:08:22 PM
Modified Time	3/24/2025 12:55:45 PM	3/24/2025 1:08:23 PM
Entry Modified Time	3/24/2025 2:27:57 PM	3/24/2025 2:28:31 PM
Hashing Start Time	3/24/2025 2:32:23 PM	3/24/2025 2:32:34 PM
Hashing End Time	3/24/2025 2:32:23 PM	3/24/2025 2:32:34 PM

Attribute	First File (<i>Buildingconfiguration.txt</i>)	Second File (<i>Buildingconfiguration2.txt</i>)
Hashing Duration	00:00:00.016	00:00:00.015

3. Analysis and Observations this two file

1. **Integrity Check:** The MD5 and SHA1 hashes indicate that Buildingconfiguration2.txt is different from Buildingconfiguration.txt, suggesting content modifications.
2. **File Size Variation:** The second file is slightly larger (796 bytes vs. 784 bytes), indicating additional data or modifications.
3. **Modification Timestamps:** The second file was created and modified later than the first file.
4. **Hashing Consistency:** The hashing duration for both files is nearly identical, confirming consistent computation.

4. Conclusion

The files have undergone modifications, as reflected in their differing hash values and timestamps. Further analysis should be conducted to compare the content changes between the two versions and assess if unauthorized modifications have occurred.

5. Recommendations

- ✚ Perform a content comparison to identify specific modifications.
- ✚ Implement version control to track changes effectively.
- ✚ Use digital signatures to verify file authenticity over time.
- ✚ Consider automated monitoring tools for real-time file integrity checks.