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Security Principles

ROLL NO: 231901057

EX-NO:02

DATE:19:02:2025 AIM:

Learn about the security triad and common security models and principles.

PROCEDURE:

Task 1: Introduction

Task 2: CIA

Task 3: DAD

Task 4: Fundamental Concepts of Security Models

Task 5: Defence-in-Depth

Task 6: ISO/IEC 19249

Task 7: Zero Trust versus Trust but Verify

Task 8: Threat versus Risk Task

9: Conclusion

Task 1:

Answer the questions below

Think how you would describe something as secure.

No answer needed

✓ Correct Answer

Task 2:

Answer the questions below

Click on "View Site" and answer the five questions. What is the flag that you obtained at the end?

THM{CIA_TRIAD}

✓ Correct Answer

🔍 Hint

Task 3:

Answer the questions below

The attacker managed to gain access to customer records and dumped them online. What is this attack?

Disclosure ✓ Correct Answer

A group of attackers were able to locate both the main and the backup power supply systems and switch them off. As a result, the whole network was shut down. What is this attack?

Destruction/Denial ✓ Correct Answer

Task 4:

Answer the questions below

Click on "View Site" and answer the four questions. What is the flag that you obtained at the end?

THM{SECURITY_MODELS} ✓ Correct Answer

Task 5:

Answer the questions below

Make sure you have read the above.

No answer needed ✓ Correct Answer

Task 6:

Answer the questions below

Which principle are you applying when you turn off an insecure server that is not critical to the business?

2 ✓ Correct Answer

Your company hired a new sales representative. Which principle are they applying when they tell you to give them access only to the company products and prices?

1 ✓ Correct Answer

While reading the code of an ATM, you noticed a huge chunk of code to handle unexpected situations such as network disconnection and power failure. Which principle are they applying?

5 ✓ Correct Answer

Task 7:

Answer the questions below

Make sure you have read the above.

No answer needed ✓ Correct Answer

Task 8:

Answer the questions below

Make sure you have read the above.

No answer needed ✓ Correct Answer

Task 9:

Answer the questions below

Make sure you have taken notes of all the key terms and acronyms we covered in this room.

No answer needed

✓ Correct Answer

RESULT:

Thus the security principles successfully completed in tryhackme platform.