


## EXERCISE 2

### SECURITY PRINCIPLES

#### AIM:

To understand the Security Triad (Confidentiality, Integrity, Availability) and explore common security models and principles that help in designing and maintaining secure systems.

Learn > Security Principles



## Security Principles

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

Easy 90 min

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Room completed (100%)

- 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

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

Harrison-Ruzzo-Ullman model

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

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

**RESULT:**

Successfully gained knowledge of the Security Triad, various security models (such as Bell-LaPadula, Biba, and Clark-Wilson), and fundamental security principles to enhance system protection and risk management.