

Security Principles

Task-1

No Answer

Task-2

As the troops got deployed, the leader stressed that they should not communicate their location to anyone while the mission was ongoing. Which security function did the leader want to have?

Confidentiality

One hotel is stressing that the Internet over its WiFi network must be accessible 24 hours a day, seven days a week. Which security pillar is the hotel requiring?

Availability

At a police checkpoint, the police officer suspected that the vehicle registration papers were fake. Which security function does the officer think is lacking?

Integrity

Two companies are negotiating a certain agreement; however, they want to keep the details of the agreement secret. Which security pillar are they emphasizing?

Confidentiality

You went to cash out a cheque, and the bank teller made you wait for five minutes as they confirmed the signature of the cheque's issuer. Which security function is the bank teller checking?

Integrity

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Task-3

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

Disclosure

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

Task-4

Which model dictates “no read down”? **Biba**

Which model states “no read up”? **Bella-LaPadula**

Which model teaches “no write down”? **Bella-LaPadula**

Which model forces “no write up”? **Biba**

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Task-5

No Answer

Task-6

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

2 (Attack Surface Minimisation)

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 (Least Privilege)

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 (Preparing for Error and Exception Handling)

Task-7

No Answer

Task-8

No Answer

Task-9

No Answer