



Republic of the Philippines
Laguna State Polytechnic University
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COLLEGE OF COMPUTER STUDIES

Activity 3

Advanced Questions and CIA Policy Drafting

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Advanced Questions. Respond to the following questions with answers consisting of approximately 50 words each.

1. How can a single cyberattack affect all three elements of the CIA Triad simultaneously?

ANSWER:

Close example in cyberattack is ransomware because it encrypts data affecting integrity then not making the user use or locking the user out is affecting the availability and may leak sensitive information during the process affecting confidentiality all for one one for all.

2. What are the trade-offs between confidentiality and availability when designing a security system?

ANSWER:

To strengthen confidentiality, We need encryption and limited access. These sometimes make the systems hard to access. Vice versa, improving availability, like open access can weaken privacy protection that is why we need to always balance it.

3. If a system is highly available but lacks proper integrity controls, what risks might it face?

ANSWER:

If a system is always accessible but lacks safeguard, data could be tampered with or corrupted. meaning the user might rely on bad info, leading to poor decision and loss of trust in the system.

4. Why is it difficult to achieve 100% availability without sacrificing confidentiality?

ANSWER:

Keeping a system available all the time often means relaxing security measures, like strict access controls. This opens up risks, such as unauthorized users gaining access to sensitive data.

5. How can system redundancy improve both availability and confidentiality?

ANSWER:

Redundancy keeps services running during failures by using backups or failover systems. If those backups are encrypted and secure, it also helps protect sensitive data, adding a layer of confidentiality.

6. If an attacker gains access to a company's customer database but does not alter any data, which CIA element is violated?

ANSWER:

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Confidentiality. Unauthorized access, even if the data remains untouched, still breaks privacy rules and compromises sensitive information.

7. Why might improving availability increase the risk of a confidentiality breach?

ANSWER:

System more available might mean expanding access points, like remote access or cloud services. This could create new entryways for attackers, putting sensitive data at risk.

C.I.A. Policy Design (depending on your track)

1. Create a clear title of your CIA Policy.
2. Assume that you will propose it to an organization.
3. Outline the specific goals of the policy in terms of protecting confidentiality, ensuring data integrity, and maintaining system availability.

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