

Cloud Computing
Assignment- Week 6
TYPE OF QUESTION: MCQ/MSQ

Number of questions: 10

Total mark: 10 X 1 = 10

QUESTION 1:

Interception is considered as an attack on

- a) Confidentiality
- b) Availability
- c) Integrity
- d) Authenticity

Correct Answer: a

Solution: Interception security attack is attack on confidentiality

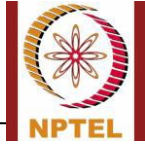
QUESTION 2:

Find the correct statement(s):

- a) Different types of cloud computing service models provide different levels of security services
- b) Adapting your on-premises systems to a cloud model requires that you determine what security mechanisms are required and mapping those to controls that exist in your chosen cloud service provider
- c) Data should be transferred and stored in an encrypted format for security purpose
- d) All are incorrect statements

Correct Answer: a, b, c

Solution: Cloud computing security or, more simply, cloud security refers to a broad set of policies, technologies, and controls deployed to protect data, applications, and the associated infrastructure of cloud computing



QUESTION 3:

Which of the following is/are example(s) of passive attack?

- a) Replay
- b) Denial of service
- c) Traffic analysis
- d) Masquerade

Correct Answer: c

Solution: Traffic analysis is an example of passive attack. Others are active attacks.

QUESTION 4:

Modification is considered as an attack on

- (a) Confidentiality
- (b) Availability
- (c) Integrity
- (d) Authenticity

Correct Answer: c

Solution: Modification security attack is attack on integrity

QUESTION 5:

Spoofing is not an example of

- (a) Deception
- (b) Disclosure
- (c) Usurpation
- (d) Disruption

Correct Answer: b, d

Solution: In the context of network security, a spoofing attack is a situation in which a person or program successfully masquerades as another by falsifying data, to gain an illegitimate advantage.



QUESTION 6:

Consider the following statements:

Statement I: Authorization is the identification of legitimate users.

Statement II: Integrity is the protection against data alteration/corruption.

Identify the correct options:

- a) Statement I is TRUE and statement II is FALSE.
- b) Statement I is FALSE and statement II is TRUE.
- c) Both statements are TRUE.
- d) Both statements are FALSE.

Correct Option: b

Solution: Refer slide no. 18 of Cloud-Security I. Authorization is the determination of whether or not an operation is allowed by a certain user. Integrity is the protection against data alteration/corruption. So the first statement is false and the second statement is true.

QUESTION 7:

Access policy control refers to

- a) Cyclic Inheritance Control
- b) Virus Attack
- c) Violation of SoD (separation of duties) Constraint
- d) Man in the middle attack

Correct Answer: a, c

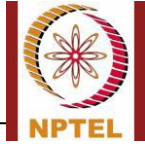
Solution: Access control policies are enforced through a mechanism that translates a user's access request, often in terms of a structure that a system provides. Virus attack and man in the middle attack are not related to access control policy.

QUESTION 8:

Which of the options is/are considered as the basic components of security?

- a) Confidentiality
- b) Integrity
- c) Reliability
- d) Efficiency

Correct Answer: a, b



Solution: Confidentiality (keeping data and resources hidden), Integrity and Availability (enabling access to data and resources) are the major components of security.

QUESTION 9:

Which of the following is/are not a type of passive attack?

- a) Traffic Analysis
- b) Release of message contents
- c) Denial of service
- d) Replay

Correct Answer: c, d

Solution: Passive attack (Traffic analysis, release of message contents) and Active attack (Denial of service, Modification, Masquerade and Replay)

QUESTION 10:

Side channel exploitation has the potential to extract RSA & AES secret keys

- a) True
- b) False

Correct Answer: a

Solution: Cross-VM information leakage due to sharing of physical resource (CPU's data caches).
