



## Cloud Computing

### Assignment-Week 6

#### TYPE OF QUESTION: MCQ/MSQ

Number of questions: 10

Total mark: 10 X 1 = 10

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#### **QUESTION 1:**

Interception is an attack on:

- A. Integrity
- B. Availability
- C. Confidentiality
- D. Authenticity

**Correct Option: C**

**Detailed Answer:** Interception is an attack on confidentiality.

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#### **QUESTION 2:**

Which of the following is/are the recovery goal(s) of the security mechanism?

- A. Stop attack, assess and repair damage
- B. Detect attackers' violation of security policy
- C. Prevent attackers from violating security policy
- D. Continue to function correctly even if attack succeeds

**Correct Option: A, D**

**Detailed Answer:** Refer slide no. 8 of Cloud-Security I.

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#### **QUESTION 3:**

Replay attack, which is the passive capture of a data unit and its subsequent retransmission to produce an unauthorized effect, is an active attack.

- A. True
- B. False

**Correct Option: A**

**Detailed Answer:** Replay attack is an active attack.

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**QUESTION 4:**

**Statement I:** Authorization is the identification of legitimate users.

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

- 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**

**Detailed Answer:** 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.

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**QUESTION 5:**

Which of the following is/are NOT passive attacks?

- A. Masquerade
- B. Release of message contents
- C. Denial of service
- D. Modification

**Correct Option: A, C, D**

**Detailed Answer:** Only release of message contents is a passive attack. The others are active attacks.

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**QUESTION 6:**

In full virtualization, VMs interact with the host OS.

- A. True
- B. False

**Correct Option: B**

**Detailed Answer:** In full virtualization, VMs run on hypervisor that interacts with the hardware.

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**QUESTION 7:**

When selecting the most suitable cloud provider satisfying customer's QoS requirements using a fuzzy inference engine, if the "Degree of SLA Satisfaction" is greater than the "Threshold for a cloud service provider", the customer should migrate to a different provider.

- A. True
- B. False

**Correct Option: B**

**Detailed Answer:** Refer slide 16 of Broker for Cloud Marketplace. Migration should be done when Degree of SLA Satisfaction < Threshold.

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**QUESTION 8:**

Which of the following Open-source tools is/are used to perform TCP connect probes in Amazon EC2 platform?

- A. wget
- B. nmap
- C. ifconfig
- D. hping

**Correct Option: B**

**Detailed Answer:** nmap is an open-source tool which is used to perform TCP connect probes (attempt to complete a 3-way hand-shake between a source and target) in Amazon EC2. refer to slide 12 of Cloud Security III.

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**QUESTION 9:**

**Statement I:** Recovery Point Objective (RPO) is the maximum amount of data that will be lost following an interruption or disaster.

**Statement II:** Recovery Time Objective (RTO) is the amount of data that will be lost following an interruption or disaster.

- 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: A**

**Detailed Answer:** Recovery Time Objective (RTO) is the period of time allowed for recovery i.e.,



the time that is allowed to elapse between the disaster and the activation of the secondary site.

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**QUESTION 10:**

List the motivation(s) in having a 'middle man' or intelligent broker for cloud marketplace:

- A. Trustworthiness of the provider.
- B. Monitoring of services.
- C. Ensuring vendor lock-in.
- D. Flexible selection of cloud provider.

**Correct Option: A, B, D**

**Detailed Answer:** Refer slide 4 of Broker for Cloud Marketplace.

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