Cloud Computing

Assignment- Week 6

TYPE OF QUESTION: MCQ/MSQ
[One or more options may be correct]

Number of questions: 10   **Total mark: 10 X 1 = 10**

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QUESTION 1:

I.	Replay	(A) Prevents the normal use of communication facilities.
II.	Denial of service	(B) Passive capture of a data unit and its subsequent retransmission to produce an unauthorized effect.
III.	Modification	(C) Some portion of a legitimate message is altered.
IV.	Masquerade	(D) One entity pretends to be a different entity.

(a) I-A, II-C, III-B, IV-D
(b) I-C, II-A, III-B, IV-D
(c) I-B, II-A, III-C, IV-D
(d) I-D, II-B, III-A, IV-C

Correct Answer: c

Solution: *Active attacks involve some modification of the data stream or the creation of a false stream. These four are the four categories of active attacks. Refer slide no. 16 of Cloud-Security I.*

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QUESTION 2:

Which of the following is/ are the goal(s) of security?
        (a) Detect attackers' violation of security policy
        (b) Continue to function correctly even if attack succeeds
        (c) Stop attack, assess and repair damage
        (d) None of the above

Correct Answer: a, b, c

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

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QUESTION 3:

Statement I: Release of message contents means that the opponent can determine the location and identity of communicating hosts, and observe the frequency and length of messages being exchanged

Statement II: Traffic analysis is desirable to prevent the opponent from learning the contents of the transmission.

Which of the options are correct?
   (a) Statement I is TRUE and Statement II is FALSE
   (b) Statement II is TRUE and Statement I is FALSE
   (c) Both are TRUE
   (d) Both are FALSE

Correct Answer: d

Solution: These are the types of passive attacks. Release of message contents:- It may be desirable to prevent the opponent from learning the contents of the transmission. Traffic analysis:- The opponent can determine the location and identity of communicating hosts, and observe the frequency and length of messages being exchanged.

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QUESTION 4:

Modification security attack is an attack on Integrity

   (a) TRUE
   (b) FALSE

Correct Answer: a

Solution: Modification security attack is attack on integrity.

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QUESTION 5:

Which of the following are the Gartner's seven cloud computing risks?

   (a) Regulatory Compliance & Audit
   (b) Data Location
   (c) Data Segregation
   (d) Short-term Viability

Correct Answer: a, b, c

Solution: _Refer slide no. 10 of Cloud-Security II._

QUESTION 6:

Recovery Time Objective (RTO) represents:

     (a) The maximum amount of data that will be lost following an interruption or disaster.
     (b) The period of time allowed for recovery
     (c) The period of time allowed for the complete execution
     (d) The maximum period of time allowed for the compilation of the programme

Correct Answer: b

Solution: *Recovery Time Objective (RTO): 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 7:

In which situation it is better to switch cloud providers?
     (a) Contract price decrease
     (b) Provider bankruptcy
     (c) Provider service shutdown
     (d) Business dispute

Correct Answer: b, c, d

Solution: *Refer slide no. 17 of Cloud-Security II.*

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QUESTION 8:

In full-virtualization, VMs run on hypervisor that interacts with the hardware
     a) True
     b) False

Correct Answer: a

Solution: Full virtualization: VMs run on hypervisor that interacts with the hardware, and Para virtualization: VMs interact with the host OS.

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QUESTION 9:

Choose the option(s) which is/are not a passive attack?
a) Traffic Analysis
b) Release of message contents
c) Denial of service
d) Replay

Correct Answer: c, d

Solution: A passive attack is a network attack in which a system is monitored and sometimes scanned for open ports and vulnerabilities. The purpose is solely to gain information about the target and no data is changed on the target.

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QUESTION 10:

Reliability and Efficiency are basic components of security

   (a) TRUE
   (b) FALSE

Correct Answer: b

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

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