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程序代写代做 CS编程辅导

Semester Two 2021



Examination Period

Information Technology

(multiple test)

EXAM CODES:

TITLE OF PAPER:

EXAM DURATION:

2 hours 10 minutes

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SPECIFICALLY PERMITTED ITEMS if yes, items permitted are:	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

Candidates must complete this section if required to write answers within this paper

STUDENT ID: _____

DESK NUMBER: _____

PART A (2.5 marks)

TRUE/FALSE questions (final exam will contain 5 questions)

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1. A loss of integrity is unauthorised modification of data during the communication.
a) True
b) False
2. IPSec encapsulation provides protection to the entire IP packet.
a) True
b) False
3. Machine learning based intrusion detection systems are likely to produce false positives during traffic analysis.
a) True
b) False
4. DDoS attacks cannot be launched at the application layer.
a) True
b) False



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PART B (2.5 marks)

Single-choice questions (final exam will contain 5 questions)

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1. Which of the following is an example aspect of network security?
a) wireless security
b) physical security
c) human input errors
2. **Ciphertext-only** capability means that: _____.
a) only decryption can be performed on the ciphertexts
b) the adversary can only access to the ciphertexts
c) the adversary can only decrypt chosen ciphertexts
3. PGP provides **confidentiality** through the use of _____.
a) symmetric block encryption
b) radix-64
c) digital signatures
4. In IPSec, authentication NOT applied to the entire original IP packet is _____.
a) cipher mode
b) transport mode
c) tunnel mode

PART C (25 marks)

(final exam will contain 7 questions)

Q1. (5 marks) Intrusion detection system (IDS) is a software that automates the intrusion detection process. The primary responsibility of an IDS is to detect unwanted/malicious activities.



- a) List and explain at least two types of an intrusion detection system. (2 marks)
- b) What are Signature-based and Anomaly-based detection? Please briefly explain the two detection approaches. (2 marks)
- c) Compared with Anomaly-based detection, what are the strength and weakness of Signature-based detection in the real-world applications. (1 marks)

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Q2. (5 marks) In the following figure, an attacker aims to launch the TCP flooding attack to create network congestion to a server.

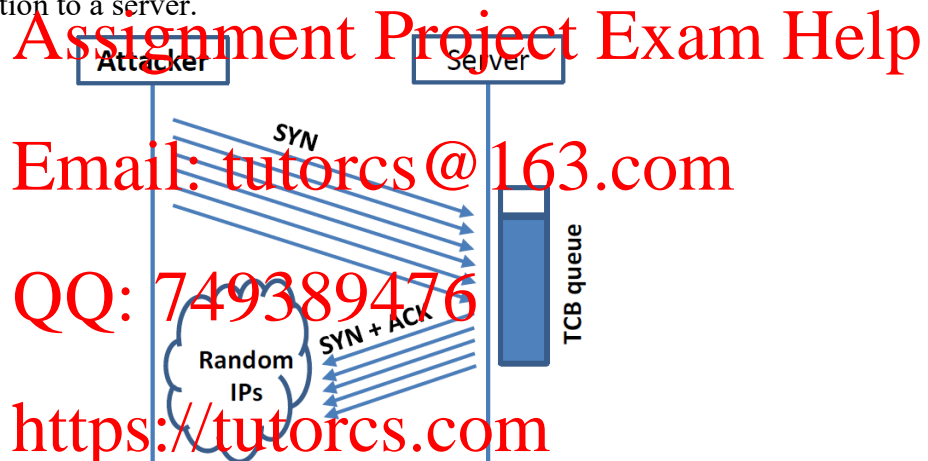


Figure: TCP Flooding Attack Scenario

- a) Please explain how the attacker shown in the above figure can launch the TCP flooding attack. (1 marks)
- b) Please list one countermeasure that can defend against the TCP flooding attack (1 marks). Then explain how they can effectively address the attack, respectively (1 marks).
- c) If the server does not allocate any resource to maintain the connections during the TCP handshake, will the attack still be successful? (1 marks) What could be a possible issue introduced by this approach? (1 marks)