

Free PDF 2026 Marvelous EC-COUNCIL 312-38: EC-Council Certified Network Defender CND Valid Exam Objectives

Exam details:

- Exam title:** Certified Network Defender (CND)
- Exam code:** 312-38
- Number of questions:** 100
- Duration:** 4 Hours
- Availability:** ECCEXAM
- Test Format:** Interactive Multiple Choice Questions

EC-Council **CERTIFIED NETWORK DEFENDER**
The Ultimate Certification for Network Administrators

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The EC-Council Certified Network Defender CND certification exam is a valuable asset for any IT professional who wants to specialize in network security and defense. EC-Council Certified Network Defender CND certification process is rigorous and comprehensive, and the resulting certificate is globally recognized and respected by both employers and peers. If you are interested in pursuing a career in network defense or are looking to enhance your existing skillset in this domain, then the EC-Council Certified Network Defender CND certification exam is an excellent option to consider.

EC-Council 312-38 Exam Syllabus Topics:

Topic	Details	Weights

Wireless Network Defense	<ul style="list-style-type: none"> - Understanding wireless network - Discussing various wireless standards - Describing various wireless network topologies - Describing possible use of wireless networks - Explaining various wireless network components - Explaining wireless encryption (WEP, WPA, WPA2) technologies - Describing various authentication methods for wireless networks - Discussing various types of threats on wireless networks - Creation of inventory for wireless network components - Appropriate placement of wireless Access Point (AP) - Appropriate placement of wireless antenna - Monitoring of wireless network traffic - Detection and locating of rogue access points - Prevention of wireless network from RF interference - Describing various security implications for wireless network 	6%
Physical Security	<ul style="list-style-type: none"> - Understanding physical security - Importance of physical security - Factors affecting physical security - Describing various physical security controls - Understanding the selection of Fire Fighting Systems - Describing various access control authentication techniques - Understanding workplace security - Understanding personnel security - Describing Environmental Controls - Importance of physical security awareness and training 	6%
Network Security Threats, Vulnerabilities, and Attacks	<ul style="list-style-type: none"> - Understanding threat, attack, and vulnerability - Discussing network security concerns - Reasons behind network security concerns - Effect of network security breach on business continuity - Understanding different types of network threats - Understanding different types of network security vulnerabilities - Understanding different types of network attacks - Describing various network attacks 	5%
Network Incident Response and Management	<ul style="list-style-type: none"> - Understanding Incident Handling and Response (IH&R) - Roles and responsibilities of Incident Response Team (IRT) - Describing role of first responder - Describing first response activities for network administrators - Describing Incident Handling and Response (IH&R) process - Understanding forensic investigation - People involved in forensics investigation - Describing forensics investigation methodology 	8%
Network Security Controls, Protocols, and Devices	<ul style="list-style-type: none"> - Understanding fundamental elements of network security - Explaining network access control mechanism - Understanding different types of access controls - Explaining network Authentication, Authorization and Auditing (AAA) mechanism - Explaining network data encryption mechanism - Describing Public Key Infrastructure (PKI) - Describing various network security protocols - Describing various network security devices 	8%

Network Traffic Monitoring and Analysis	<ul style="list-style-type: none"> - Understanding network traffic monitoring - Importance of network traffic monitoring - Discussing techniques used for network monitoring and analysis - Appropriate position for network monitoring - Connection of network monitoring system with managed switch - Understanding network traffic signatures - Baseline for normal traffic - Discussing the various categories of suspicious traffic signatures - Various techniques for attack signature analysis - Understanding Wireshark components, working and features - Demonstrating the use of various Wireshark filters - Demonstrating the monitoring LAN traffic against policy violation - Demonstrating the security monitoring of network traffic - Demonstrating the detection of various attacks using Wireshark - Discussing network bandwidth monitoring and performance improvement 	9%
Network Risk and Vulnerability Management	<ul style="list-style-type: none"> - Understanding risk and risk management - Key roles and responsibilities in risk management - Understanding Key Risk Indicators (KRI) in risk management - Explaining phase involves in risk management - Understanding enterprise network risk management - Describing various risk management frameworks - Discussing best practices for effective implementation of risk management - Understanding vulnerability management - Explaining various phases involve in vulnerability management - Understanding vulnerability assessment and its importance - Discussing requirements for effective network vulnerability assessment - Discussing internal and external vulnerability assessment - Discussing steps for effective external vulnerability assessment - Describing various phases involve in vulnerability assessment - Selection of appropriate vulnerability assessment tool - Discussing best practices and precautions for deploying vulnerability assessment tool - Describing vulnerability reporting, mitigation, remediation and verification 	9%
Secure VPN Configuration and Management	<ul style="list-style-type: none"> - Understanding Virtual Private Network (VPN) and its working - Importance of establishing VPN - Describing various VPN components - Describing implementation of VPN concentrators and its functions - Explaining different types of VPN technologies - Discussing components for selecting appropriate VPN technology - Explaining core functions of VPN - Explaining various topologies for implementation of VPN - Discussing various VPN security concerns - Discussing various security implications to ensure VPN security and performance 	6%
Data Backup and Recovery	<ul style="list-style-type: none"> - Understanding data backup - Describing the data backup plan - Describing the identification of data to backup - Determining the appropriate backup medium for data backup - Understanding RAID backup technology and its advantages - Describing RAID architecture - Describing various RAID levels and their use - Selection of appropriate RAID level - Understanding Storage Area Network (SAN) backup technology and its advantages - Best practices of using SAN - Understanding Network Attached Storage (NAS) backup technology and its advantages - Describing various types of NAS implementation 	9%

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EC-COUNCIL 312-38 exam covers a wide range of topics related to network security, including network security protocols, network defense fundamentals, network perimeter defense, network security threats and vulnerabilities, and network security incident response. 312-38 Exam also covers the latest trends and best practices in network security, ensuring that professionals are up-to-date with the latest techniques and strategies for defending against cyber attacks.

EC-COUNCIL EC-Council Certified Network Defender CND Sample Questions (Q54-Q59):

NEW QUESTION # 54

Which of the following represents a network that connects two or more LANs in the same geographic area?

- A. WAN
- B. SAN
- C. PAN
- **D. MAN**

Answer: D

NEW QUESTION # 55

Fargo, head of network defense at Globadyne Tech, has discovered an undesirable process in several Linux systems, which causes machines to hang every 1 hour. Fargo would like to eliminate it; what command should he execute?

- A. # update-rc.d -f [service name] remove
- B. # service [service name] stop
- C. # ps ax | grep [Target Process]
- **D. # kill -9 [PID]**

Answer: D

NEW QUESTION # 56

In an Ethernet peer-to-peer network, which of the following cables is used to connect two computers, using RJ-45 connectors and Category-5 UTP cable?

- **A. Crossover**
- B. Parallel
- C. Loopback
- D. Serial

Answer: A

NEW QUESTION # 57

Fill in the blank with the appropriate term. _____ is the use of sensitive words in e-mails to jam the authorities that listen in on them by providing a form of a red herring and an intentional annoyance.

Answer:

Explanation:
Email jamming

NEW QUESTION # 58

The agency Jacob works for stores and transmits vast amounts of sensitive government data that cannot be compromised. Jacob has implemented Encapsulating Security Payload (ESP) to encrypt IP traffic. Jacob wants to encrypt the IP traffic by inserting the ESP header in the IP datagram before the transport layer protocol header. What mode of ESP does Jacob need to use to encrypt the IP traffic?

- A. Jacob should use ESP in pass-through mode.
- **B. Jacob should utilize ESP in tunnel mode.**
- C. He should use ESP in transport mode.
- D. He should use ESP in gateway mode

Answer: B

Explanation:

Jacob needs to use ESP in tunnel mode to encrypt the IP traffic. In tunnel mode, the entire original IP packet, including both the payload and the IP header, is encrypted and then encapsulated within a new IP packet with a new IP header¹²³. This mode is particularly useful for encrypting traffic between different networks, such as in a site-to-site VPN, where the data and security endpoints may differ from the original source and destination IP addresses². Transport mode, on the other hand, would only encrypt the payload of the IP packet, leaving the original IP header unencrypted¹²³. Since Jacob's goal is to encrypt the entire IP datagram before the transport layer protocol header, tunnel mode is the appropriate choice.

NEW QUESTION # 59

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