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What is the primary function of HTTP?
Examine if the C.I.A. triangle is incomplete, why is it so commonly used
Assess the importance of a C.I.A triangle .
List some common cyber security threat forms.
Explain Encryption and Decryption.
List some common cyber security threat forms.
What do you understand by Vulnerability? List variuosVulnerabilityCategories.
Explain the three levels of Management.
Define Cyber Security.
What is Cyberspace?
What is Cyber Security and How it is different from Information Security?
What are some common security management best practices?
Name one component of security management.
What is the purpose of an acceptable use policy?
Define security policy.
What is likelihood in risk assessment?
Name one common type of cyber threat.
What are assets in the context of information risk management?
Define security governance.
Name one widely recognized cyber security standard.
What are some key elements of cyber security planning?
Distinguish between Vulnerability, Threat and attack.
How do emerging technologies like AI and IoT impact cybersecuritychallenges?
Analyze a recent cyber security breach incident and identify thevulnerabilities, threats, and attack vectors invo
What are Sources of Cyber security Threats?
Why is it necessary to protect from cyber threats?
Explain data confidentiality, data authentication and data integrity.
What is Information .Give importance of information?
Describe information assurance and the manner in which it is offered.
Discuss the concept of cyber warfare, including its definition, objectives, andpotential impact on national secu
Define categories of passive and active security attacks.
What is the difference between passive and active security threats? List andbriefly.
Analyze the ethical and legal implications of cyber warfare tactics, examininginternational norms and treaties g
Define Cyber Security. Also, discuss the goals of Cyber Security.
Assess the significance of adhering to cyber security standards fororganizational security.
What is network security? Discuss different threats and controls in network
Describe the evolution of cyber security over the past decade, highlightingmajor advancements and challenge:
An information system that supports the planning and assessment needs of executive management is 1. DSS 2. ERP 3.MIS 4.None of the above
What is the most important security awareness training topic? 1.PhysicalSecurity 2.Types of Malware 3.Social I
Write SDLC Phases?
Name one example of office equipment in physical asset management
What is physical asset management?
What does information management entail in security controls?
Steps included in security awareness and education.
Name one area covered by human resource security.
What are some key aspects of people management in security controls?
Which of the below is a kind of cyber security? 1. Cloud Security 2.Application Security 3. IOT Secuirty 4. All op
Who is popularly known as the father of cyber security? 1.Robert 2.AugustKerckhoffs 3. Bob Thomas 4. Charle:
Cyber Security provide security against what? 1. Against Malware 2.AgainstCyber Terrorists 3. Defends a device

Define cyber terrorism
Describe the email attack. Name them.
Define the roles / functions of firewall?
What is a threat? List its types?
What do you mean by trusted third party?
What is Modification of messages
What is software vulnerability? List various methods of vulnerability
Name two categories of attacks.
Brief about the four main types of vulnerability in cyber security?
A user forwards you a suspected phishing email. How do you respond and handle it?
Enumerate three key challenges in developing an effective cyber security system and provide examples of each
Explain the essential cyber security objectives in detail. What is Encryption and Decryption?
What is software vulnerability? Explain various methods of vulnerability
Give a short note on E-mail spoofing.
How we will manage risk?
Define SDLC security?
According to the International Foundation for Information Technology, what are the best practices for managing
What are typical stages in the life cycle of an application/system? Enumerate key security considerations through
You receive a suspicious email claiming to be from a vendor you regularly work with. How would you determine
Differentiate between qualitative and quantitative risk assessment.
Explain the DDoS attack. How to prevent it?
Develop a security awareness and education program for an organization..
How does information classification and handling aid in protecting sensitive data?
Prepare a case study of cyber attack through Facebook Account
Write the steps to remove the malware from your PC.
What are the key elements of a secure application development process?
What is the most frequent cause of stolen credit cards and card information today? A) lost cards B) the hacking
What are the benefits of security awareness training?
What is the difference between backup and disaster recovery?
Software that is used to obtain private user information such as a user's keystrokes or copies of e-mail is referred
Which of the following is an example of an online privacy violation? A) your e-mail being read by a hacker B) yo
_____ refers to the ability to ensure that e-commerce participants do not deny their online actions. A) Nonre
Express about the password attacks.
Define the meaning of the term 'Electronic Theft'.
Give the definition of software piracy.
What is Burp Suite primarily used for?
What is ZAP used for?
What is the purpose of a web site audit?
What is the focus of OWASP?
What is the primary concern of web security considerations?
What is the purpose of identity management in web services?
Which standard is often used to secure SOAP messages?
What protocol is commonly used to secure HTTP traffic?
What is the primary goal of web application security?
What role does encryption play in application security, and what are the common encryption algorithms used i
Outline the steps involved in implementing multi-factor authentication (MFA) to strengthen application security
What are the most important steps you would recommend for securing a new web server and Web application?
What is your definition of the term "Cross-Site Scripting"? What is the potential impact to servers and clients?
What are the best practices for securing data storage and downloadable devices?
Name one security measure that can help protect against HTTP-based attacks.

Outline the steps involved in Security Incident Response Planning

What are the key roles and responsibilities of an information security governance committee?

What is OWASP, and what is its role in web application security?

Describe one key function of Burp Suite in the context of web security testing

Assess the security vulnerabilities of network storage systems

How can organizations develop and implement web security policies?

Conduct a case study on OWASP vulnerabilities using the OWASP ZAP tool, analyzing findings and proposing remediation.

Design a multi-factor authentication mechanism for secure system access.

How can organizations ensure that their security policies are effective?

What is the role of security policies in protecting an organization's assets?

What do you mean by symmetric key.

Who developed SSL (Secure Socket Layer).

True or False The receiver can verify signature using public key.

What is private key concept.

What is public key concept.

Some of the cryptography protocols are: 1) SSL 2) SET 3) IPsec 4) All of the above

Name the encryption and decryption of data is the responsibility of which layer.

What is the port number for HTTPS a) 43 b) 443 c) 445 d) 444

Give the diagram of Handshake protocol.

What is Transport Layer Service.

Which encryption algorithm was used in ESP Protocol.

Which encryption algorithm was used in AH Protocol.

What is the goal of the Secure Electronic Transaction (SET) protocol?

What is the primary purpose of SSL and TLS protocols?

What are the fundamental requirements for web security?

Which protocol is commonly used for key management in IPsec?

What is a Security Association (SA) in the context of IPsec?

What does the Encapsulating Security Payload (ESP) provide in IPsec?

What is the function of the Authentication Header (AH) in IPsec?

What is the primary purpose of IP security (IPsec)?

Mention difference between SSL and TLS protocols.

Define Secure Electronic Transaction (SET) and its objectives in online payment security.

Compare and contrast SSL and TLS protocols in terms of functionality and security features.

List and explain five key requirements for ensuring robust web security.

What role does the Encapsulating Security Payload (ESP) play in IPsec?

How does AH provide data integrity and authentication for IP packets?

What is the purpose of the Authentication Header (AH) in IPsec?

What are SSL and TLS, and how do they contribute to web security?

Define IP and DNS Spoofing in detail.

What is Secure Electronic Transaction (SET), and what problem does it address?

In IPsec, how does key management help create secure communication channels?

Evaluate the effectiveness of intrusion detection systems in detecting and responding to threats

Describe two common types of security policies typically included in a corporate policy framework.

Analyze the vulnerabilities and risks associated with the organization's supply chain.

Explain the role of employee training and awareness programs in promoting compliance with email security policies.

Discuss the challenges associated with enforcing email security policies in a BYOD (Bring Your Own Device) environment.

What is a Uniform Resource Locator (URL)?

Name one key principle of firewall design.

What is the main purpose of a firewall?

How do rootkits affect computer systems?

What is a Trojan horse in cybersecurity?

Name a famous computer worm.

Mention one of the primary difference between a virus and a worm?

What is a common method used by intruders to gain unauthorized access?

Who are intruders in the context of cybersecurity?

The main function of a firewall is to: a) Encrypt data b) Monitor and control incoming and outgoing network traffic c) Detect intrusions d) Manage user accounts

Which threat involves malware that hides its presence and actions from users and security software? a) Rootkit b) Spyware c) Adware d) Keylogger

Which malware disguises itself as legitimate software? a) Worm b) Trojan c) Virus d) Adware

A virus that attaches itself to a program and spreads when the program is executed is called: a) Macro virus b) Boot sector virus c) File infector virus d) Polymorphic virus

Which type of malware is known for self-replicating without user intervention? a) Trojan b) Virus c) Worm d) Spyware

Intruders who exploit weaknesses in systems for malicious purposes are known as: a) Hacktivists b) White hats c) Black hats d) Script kiddies

Which of the following is a common technique used by intruders to gain unauthorized access? a) Phishing b) Firewall c) Encryption d) Authentication

What is the main purpose of a security audit? A. To evaluate the effectiveness of security policies and controls B. To develop new software applications C. To monitor D. To train employees on cybersecurity awareness network traffic

Which of the following is a key component of a security monitoring system? A. Intrusion Detection System (IDS) B. File Transfer Protocol (FTP) C. Simple Mail Transfer D. Domain Name System (DNS) Protocol (SMTP)

What is the primary goal of security monitoring and improvement? A. To identify and rectify vulnerabilities B. To increase system performance C. To reduce the number of employees D. To enhance user experience

What are the functions of IDS?

How can you prevent your network from anonymous attack using firewall?

Name and explain different types of Network security attacks.

Discuss the best practices in dealing with Wi-Fi attacks.

Differentiate between web-based attack and system-based attack

Discuss the cyber security threats in e-commerce.

Describing the Latest Cyber Threats

Explaining Man-in-the-Middle Attack

Describe one common firewall configuration rule for enhancing network security.

Explain the concept of URL rewriting and its use in web development.

Discuss the components of a digital signature infrastructure (DSI)

Define digital signature and explain its purpose in digital communications.

Discuss the role of signature-based detection and anomaly-based detection in IDS.

A honey pot: what is it? How does one go about installing IDS in a company?

Outline IDS. Which IDS types are there?

Demonstrate how a digital signature works.

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