



ISC2

Exam Questions CISSP

Certified Information Systems Security Professional (CISSP)

NEW QUESTION 1

- (Exam Topic 1)

A company whose Information Technology (IT) services are being delivered from a Tier 4 data center, is preparing a companywide Business Continuity Planning (BCP). Which of the following failures should the IT manager be concerned with?

- A. Application
- B. Storage
- C. Power
- D. Network

Answer: C

NEW QUESTION 2

- (Exam Topic 1)

When assessing an organization's security policy according to standards established by the International Organization for Standardization (ISO) 27001 and 27002, when can management responsibilities be defined?

- A. Only when assets are clearly defined
- B. Only when standards are defined
- C. Only when controls are put in place
- D. Only procedures are defined

Answer: A

NEW QUESTION 3

- (Exam Topic 2)

In a data classification scheme, the data is owned by the

- A. system security managers
- B. business managers
- C. Information Technology (IT) managers
- D. end users

Answer: B

NEW QUESTION 4

- (Exam Topic 2)

Which one of the following affects the classification of data?

- A. Assigned security label
- B. Multilevel Security (MLS) architecture
- C. Minimum query size
- D. Passage of time

Answer: D

NEW QUESTION 5

- (Exam Topic 2)

Which of the following is an effective control in preventing electronic cloning of Radio Frequency Identification (RFID) based access cards?

- A. Personal Identity Verification (PIV)
- B. Cardholder Unique Identifier (CHUID) authentication
- C. Physical Access Control System (PACS) repeated attempt detection
- D. Asymmetric Card Authentication Key (CAK) challenge-response

Answer: C

NEW QUESTION 6

- (Exam Topic 2)

An organization has doubled in size due to a rapid market share increase. The size of the Information Technology (IT) staff has maintained pace with this growth. The organization hires several contractors whose onsite time is limited. The IT department has pushed its limits building servers and rolling out workstations and has a backlog of account management requests.

Which contract is BEST in offloading the task from the IT staff?

- A. Platform as a Service (PaaS)
- B. Identity as a Service (IDaaS)
- C. Desktop as a Service (DaaS)
- D. Software as a Service (SaaS)

Answer: B

NEW QUESTION 7

- (Exam Topic 3)

The use of private and public encryption keys is fundamental in the implementation of which of the following?

- A. Diffie-Hellman algorithm
- B. Secure Sockets Layer (SSL)
- C. Advanced Encryption Standard (AES)
- D. Message Digest 5 (MD5)

Answer: A

NEW QUESTION 8

- (Exam Topic 3)

What is the second phase of Public Key Infrastructure (PKI) key/certificate life-cycle management?

- A. Implementation Phase
- B. Initialization Phase
- C. Cancellation Phase
- D. Issued Phase

Answer: D

NEW QUESTION 9

- (Exam Topic 4)

Which of the following operates at the Network Layer of the Open System Interconnection (OSI) model?

- A. Packet filtering
- B. Port services filtering
- C. Content filtering
- D. Application access control

Answer: A

NEW QUESTION 10

- (Exam Topic 4)

An input validation and exception handling vulnerability has been discovered on a critical web-based system. Which of the following is MOST suited to quickly implement a control?

- A. Add a new rule to the application layer firewall
- B. Block access to the service
- C. Install an Intrusion Detection System (IDS)
- D. Patch the application source code

Answer: A

NEW QUESTION 10

- (Exam Topic 4)

Which of the following is used by the Point-to-Point Protocol (PPP) to determine packet formats?

- A. Layer 2 Tunneling Protocol (L2TP)
- B. Link Control Protocol (LCP)
- C. Challenge Handshake Authentication Protocol (CHAP)
- D. Packet Transfer Protocol (PTP)

Answer: B

NEW QUESTION 11

- (Exam Topic 4)

At what level of the Open System Interconnection (OSI) model is data at rest on a Storage Area Network (SAN) located?

- A. Link layer
- B. Physical layer
- C. Session layer
- D. Application layer

Answer: D

NEW QUESTION 13

- (Exam Topic 5)

Users require access rights that allow them to view the average salary of groups of employees. Which control would prevent the users from obtaining an individual employee's salary?

- A. Limit access to predefined queries
- B. Segregate the database into a small number of partitions each with a separate security level
- C. Implement Role Based Access Control (RBAC)
- D. Reduce the number of people who have access to the system for statistical purposes

Answer: C

NEW QUESTION 18

- (Exam Topic 5)

Which of the following BEST describes an access control method utilizing cryptographic keys derived from a smart card private key that is embedded within mobile devices?

- A. Derived credential
- B. Temporary security credential
- C. Mobile device credentialing service
- D. Digest authentication

Answer: A

NEW QUESTION 22

- (Exam Topic 6)

In which of the following programs is it MOST important to include the collection of security process data?

- A. Quarterly access reviews
- B. Security continuous monitoring
- C. Business continuity testing
- D. Annual security training

Answer: A

NEW QUESTION 26

- (Exam Topic 7)

Recovery strategies of a Disaster Recovery planning (DRIP) MUST be aligned with which of the following?

- A. Hardware and software compatibility issues
- B. Applications' critically and downtime tolerance
- C. Budget constraints and requirements
- D. Cost/benefit analysis and business objectives

Answer: D

NEW QUESTION 30

- (Exam Topic 7)

What would be the MOST cost effective solution for a Disaster Recovery (DR) site given that the organization's systems cannot be unavailable for more than 24 hours?

- A. Warm site
- B. Hot site
- C. Mirror site
- D. Cold site

Answer: A

NEW QUESTION 34

- (Exam Topic 7)

What is the MOST important step during forensic analysis when trying to learn the purpose of an unknown application?

- A. Disable all unnecessary services
- B. Ensure chain of custody
- C. Prepare another backup of the system
- D. Isolate the system from the network

Answer: D

NEW QUESTION 39

- (Exam Topic 7)

An organization is found lacking the ability to properly establish performance indicators for its Web hosting solution during an audit. What would be the MOST probable cause?

- A. Absence of a Business Intelligence (BI) solution
- B. Inadequate cost modeling
- C. Improper deployment of the Service-Oriented Architecture (SOA)
- D. Insufficient Service Level Agreement (SLA)

Answer: D

NEW QUESTION 43

- (Exam Topic 7)

With what frequency should monitoring of a control occur when implementing Information Security Continuous Monitoring (ISCM) solutions?

- A. Continuously without exception for all security controls
- B. Before and after each change of the control
- C. At a rate concurrent with the volatility of the security control
- D. Only during system implementation and decommissioning

Answer: B

NEW QUESTION 48

- (Exam Topic 8)

Which of the following is the BEST method to prevent malware from being introduced into a production environment?

- A. Purchase software from a limited list of retailers
- B. Verify the hash key or certificate key of all updates
- C. Do not permit programs, patches, or updates from the Internet
- D. Test all new software in a segregated environment

Answer: D

NEW QUESTION 52

- (Exam Topic 8)

The configuration management and control task of the certification and accreditation process is incorporated in which phase of the System Development Life Cycle (SDLC)?

- A. System acquisition and development
- B. System operations and maintenance
- C. System initiation
- D. System implementation

Answer: A

Explanation:

Reference <https://online.concordia.edu/computer-science/system-development-life-cycle-phases/>

NEW QUESTION 54

- (Exam Topic 9)

Which of the following is a method used to prevent Structured Query Language (SQL) injection attacks?

- A. Data compression
- B. Data classification
- C. Data warehousing
- D. Data validation

Answer: D

NEW QUESTION 59

- (Exam Topic 9)

Which of the following is the FIRST action that a system administrator should take when it is revealed during a penetration test that everyone in an organization has unauthorized access to a server holding sensitive data?

- A. Immediately document the finding and report to senior management.
- B. Use system privileges to alter the permissions to secure the server
- C. Continue the testing to its completion and then inform IT management
- D. Terminate the penetration test and pass the finding to the server management team

Answer: A

NEW QUESTION 62

- (Exam Topic 9)

Which of the following is ensured when hashing files during chain of custody handling?

- A. Availability
- B. Accountability
- C. Integrity
- D. Non-repudiation

Answer: C

NEW QUESTION 67

- (Exam Topic 9)

To prevent inadvertent disclosure of restricted information, which of the following would be the LEAST effective process for eliminating data prior to the media being discarded?

- A. Multiple-pass overwriting
- B. Degaussing
- C. High-level formatting
- D. Physical destruction

Answer: C

NEW QUESTION 70

- (Exam Topic 9)

Which one of the following is a threat related to the use of web-based client side input validation?

- A. Users would be able to alter the input after validation has occurred
- B. The web server would not be able to validate the input after transmission
- C. The client system could receive invalid input from the web server
- D. The web server would not be able to receive invalid input from the client

Answer: A

NEW QUESTION 75

- (Exam Topic 9)

Which of the following is a physical security control that protects Automated Teller Machines (ATM) from skimming?

- A. Anti-tampering
- B. Secure card reader
- C. Radio Frequency (RF) scanner
- D. Intrusion Prevention System (IPS)

Answer: A

NEW QUESTION 78

- (Exam Topic 9)

Which layer of the Open Systems Interconnections (OSI) model implementation adds information concerning the logical connection between the sender and receiver?

- A. Physical
- B. Session
- C. Transport
- D. Data-Link

Answer: C

NEW QUESTION 79

- (Exam Topic 9)

What is the term commonly used to refer to a technique of authenticating one machine to another by forging packets from a trusted source?

- A. Man-in-the-Middle (MITM) attack
- B. Smurfing
- C. Session redirect
- D. Spoofing

Answer: D

NEW QUESTION 83

- (Exam Topic 9)

The Structured Query Language (SQL) implements Discretionary Access Controls (DAC) using

- A. INSERT and DELETE.
- B. GRANT and REVOKE.
- C. PUBLIC and PRIVATE.
- D. ROLLBACK and TERMINATE.

Answer: B

NEW QUESTION 88

- (Exam Topic 9)

Which one of the following considerations has the LEAST impact when considering transmission security?

- A. Network availability
- B. Data integrity
- C. Network bandwidth
- D. Node locations

Answer: C

NEW QUESTION 93

- (Exam Topic 9)

Which one of these risk factors would be the LEAST important consideration in choosing a building site for a new computer facility?

- A. Vulnerability to crime
- B. Adjacent buildings and businesses
- C. Proximity to an airline flight path
- D. Vulnerability to natural disasters

Answer: C

NEW QUESTION 95

- (Exam Topic 9)

Multi-threaded applications are more at risk than single-threaded applications to

- A. race conditions.
- B. virus infection.
- C. packet sniffing.
- D. database injection.

Answer: A

NEW QUESTION 100

- (Exam Topic 9)

An advantage of link encryption in a communications network is that it

- A. makes key management and distribution easier.
- B. protects data from start to finish through the entire network.
- C. improves the efficiency of the transmission.
- D. encrypts all information, including headers and routing information.

Answer: D

NEW QUESTION 105

- (Exam Topic 9)

Which of the following is an authentication protocol in which a new random number is generated uniquely for each login session?

- A. Challenge Handshake Authentication Protocol (CHAP)
- B. Point-to-Point Protocol (PPP)
- C. Extensible Authentication Protocol (EAP)
- D. Password Authentication Protocol (PAP)

Answer: A

NEW QUESTION 110

- (Exam Topic 9)

A security professional has just completed their organization's Business Impact Analysis (BIA). Following Business Continuity Plan/Disaster Recovery Plan (BCP/DRP) best practices, what would be the professional's NEXT step?

- A. Identify and select recovery strategies.
- B. Present the findings to management for funding.
- C. Select members for the organization's recovery teams.
- D. Prepare a plan to test the organization's ability to recover its operations.

Answer: A

NEW QUESTION 113

- (Exam Topic 9)

What security management control is MOST often broken by collusion?

- A. Job rotation
- B. Separation of duties
- C. Least privilege model
- D. Increased monitoring

Answer: B

NEW QUESTION 115

- (Exam Topic 9)

The PRIMARY purpose of a security awareness program is to

- A. ensure that everyone understands the organization's policies and procedures.
- B. communicate that access to information will be granted on a need-to-know basis.
- C. warn all users that access to all systems will be monitored on a daily basis.
- D. comply with regulations related to data and information protection.

Answer: A

NEW QUESTION 116

- (Exam Topic 9)

The BEST method of demonstrating a company's security level to potential customers is

- A. a report from an external auditor.
- B. responding to a customer's security questionnaire.
- C. a formal report from an internal auditor.
- D. a site visit by a customer's security team.

Answer:

A

NEW QUESTION 118

- (Exam Topic 9)

Which of the following does the Encapsulating Security Payload (ESP) provide?

- A. Authorization and integrity
- B. Availability and integrity
- C. Integrity and confidentiality
- D. Authorization and confidentiality

Answer: C

NEW QUESTION 123

- (Exam Topic 9)

A practice that permits the owner of a data object to grant other users access to that object would usually provide

- A. Mandatory Access Control (MAC).
- B. owner-administered control.
- C. owner-dependent access control.
- D. Discretionary Access Control (DAC).

Answer: D

NEW QUESTION 124

- (Exam Topic 9)

Which one of the following security mechanisms provides the BEST way to restrict the execution of privileged procedures?

- A. Role Based Access Control (RBAC)
- B. Biometric access control
- C. Federated Identity Management (IdM)
- D. Application hardening

Answer: A

NEW QUESTION 128

- (Exam Topic 9)

Which of the following is the MOST important consideration when storing and processing Personally Identifiable Information (PII)?

- A. Encrypt and hash all PII to avoid disclosure and tampering.
- B. Store PII for no more than one year.
- C. Avoid storing PII in a Cloud Service Provider.
- D. Adherence to collection limitation laws and regulations.

Answer: D

NEW QUESTION 132

- (Exam Topic 9)

Which of the following is the MAIN reason that system re-certification and re-accreditation are needed?

- A. To assist data owners in making future sensitivity and criticality determinations
- B. To assure the software development team that all security issues have been addressed
- C. To verify that security protection remains acceptable to the organizational security policy
- D. To help the security team accept or reject new systems for implementation and production

Answer: C

NEW QUESTION 133

- (Exam Topic 9)

Which of the following is a security limitation of File Transfer Protocol (FTP)?

- A. Passive FTP is not compatible with web browsers.
- B. Anonymous access is allowed.
- C. FTP uses Transmission Control Protocol (TCP) ports 20 and 21.
- D. Authentication is not encrypted.

Answer: D

NEW QUESTION 135

- (Exam Topic 9)

In Business Continuity Planning (BCP), what is the importance of documenting business processes?

- A. Provides senior management with decision-making tools
- B. Establishes and adopts ongoing testing and maintenance strategies
- C. Defines who will perform which functions during a disaster or emergency
- D. Provides an understanding of the organization's interdependencies

Answer: D

NEW QUESTION 140

- (Exam Topic 9)

Which of the following can BEST prevent security flaws occurring in outsourced software development?

- A. Contractual requirements for code quality
- B. Licensing, code ownership and intellectual property rights
- C. Certification of the quality and accuracy of the work done
- D. Delivery dates, change management control and budgetary control

Answer: C

NEW QUESTION 141

- (Exam Topic 9)

A security consultant has been asked to research an organization's legal obligations to protect privacy-related information. What kind of reading material is MOST relevant to this project?

- A. The organization's current security policies concerning privacy issues
- B. Privacy-related regulations enforced by governing bodies applicable to the organization
- C. Privacy best practices published by recognized security standards organizations
- D. Organizational procedures designed to protect privacy information

Answer: B

NEW QUESTION 142

- (Exam Topic 9)

Which of the following is an appropriate source for test data?

- A. Production data that is secured and maintained only in the production environment.
- B. Test data that has no similarities to production data.
- C. Test data that is mirrored and kept up-to-date with production data.
- D. Production data that has been sanitized before loading into a test environment.

Answer: D

NEW QUESTION 143

- (Exam Topic 9)

Following the completion of a network security assessment, which of the following can BEST be demonstrated?

- A. The effectiveness of controls can be accurately measured
- B. A penetration test of the network will fail
- C. The network is compliant to industry standards
- D. All unpatched vulnerabilities have been identified

Answer: A

NEW QUESTION 148

- (Exam Topic 9)

While impersonating an Information Security Officer (ISO), an attacker obtains information from company employees about their User IDs and passwords. Which method of information gathering has the attacker used?

- A. Trusted path
- B. Malicious logic
- C. Social engineering
- D. Passive misuse

Answer: C

NEW QUESTION 153

- (Exam Topic 9)

Which of the following defines the key exchange for Internet Protocol Security (IPSec)?

- A. Secure Sockets Layer (SSL) key exchange
- B. Internet Key Exchange (IKE)
- C. Security Key Exchange (SKE)
- D. Internet Control Message Protocol (ICMP)

Answer: B

NEW QUESTION 155

- (Exam Topic 9)

What maintenance activity is responsible for defining, implementing, and testing updates to application systems?

- A. Program change control

- B. Regression testing
- C. Export exception control
- D. User acceptance testing

Answer: A

NEW QUESTION 158

- (Exam Topic 9)

Which of the following actions should be performed when implementing a change to a database schema in a production system?

- A. Test in development, determine dates, notify users, and implement in production
- B. Apply change to production, run in parallel, finalize change in production, and develop a back-out strategy
- C. Perform user acceptance testing in production, have users sign off, and finalize change
- D. Change in development, perform user acceptance testing, develop a back-out strategy, and implement change

Answer: D

NEW QUESTION 163

- (Exam Topic 9)

What is the MOST important purpose of testing the Disaster Recovery Plan (DRP)?

- A. Evaluating the efficiency of the plan
- B. Identifying the benchmark required for restoration
- C. Validating the effectiveness of the plan
- D. Determining the Recovery Time Objective (RTO)

Answer: C

NEW QUESTION 166

- (Exam Topic 9)

Passive Infrared Sensors (PIR) used in a non-climate controlled environment should

- A. reduce the detected object temperature in relation to the background temperature.
- B. increase the detected object temperature in relation to the background temperature.
- C. automatically compensate for variance in background temperature.
- D. detect objects of a specific temperature independent of the background temperature.

Answer: C

NEW QUESTION 170

- (Exam Topic 9)

When designing a vulnerability test, which one of the following is likely to give the BEST indication of what components currently operate on the network?

- A. Topology diagrams
- B. Mapping tools
- C. Asset register
- D. Ping testing

Answer: B

NEW QUESTION 172

- (Exam Topic 9)

Which of the following MUST be done when promoting a security awareness program to senior management?

- A. Show the need for security; identify the message and the audience
- B. Ensure that the security presentation is designed to be all-inclusive
- C. Notify them that their compliance is mandatory
- D. Explain how hackers have enhanced information security

Answer: A

NEW QUESTION 175

- (Exam Topic 9)

What is the MOST effective countermeasure to a malicious code attack against a mobile system?

- A. Sandbox
- B. Change control
- C. Memory management
- D. Public-Key Infrastructure (PKI)

Answer: A

NEW QUESTION 178

- (Exam Topic 9)

Which of the following wraps the decryption key of a full disk encryption implementation and ties the hard disk drive to a particular device?

- A. Trusted Platform Module (TPM)
- B. Preboot eXecution Environment (PXE)
- C. Key Distribution Center (KDC)
- D. Simple Key-Management for Internet Protocol (SKIP)

Answer: A

NEW QUESTION 183

- (Exam Topic 9)

Which of the following Disaster Recovery (DR) sites is the MOST difficult to test?

- A. Hot site
- B. Cold site
- C. Warm site
- D. Mobile site

Answer: B

NEW QUESTION 185

- (Exam Topic 9)

Which of the following statements is TRUE of black box testing?

- A. Only the functional specifications are known to the test planner.
- B. Only the source code and the design documents are known to the test planner.
- C. Only the source code and functional specifications are known to the test planner.
- D. Only the design documents and the functional specifications are known to the test planner.

Answer: A

NEW QUESTION 187

- (Exam Topic 9)

Two companies wish to share electronic inventory and purchase orders in a supplier and client relationship. What is the BEST security solution for them?

- A. Write a Service Level Agreement (SLA) for the two companies.
- B. Set up a Virtual Private Network (VPN) between the two companies.
- C. Configure a firewall at the perimeter of each of the two companies.
- D. Establish a File Transfer Protocol (FTP) connection between the two companies.

Answer: B

NEW QUESTION 190

- (Exam Topic 10)

What is the MAIN feature that onion routing networks offer?

- A. Non-repudiation
- B. Traceability
- C. Anonymity
- D. Resilience

Answer: C

NEW QUESTION 194

- (Exam Topic 10)

Refer to the information below to answer the question.

A new employee is given a laptop computer with full administrator access. This employee does not have a personal computer at home and has a child that uses the computer to send and receive e-mail, search the web, and use instant messaging. The organization's Information Technology (IT) department discovers that a peer-to-peer program has been installed on the computer using the employee's access.

Which of the following solutions would have MOST likely detected the use of peer-to-peer programs when the computer was connected to the office network?

- A. Anti-virus software
- B. Intrusion Prevention System (IPS)
- C. Anti-spyware software
- D. Integrity checking software

Answer: B

NEW QUESTION 197

- (Exam Topic 10)

Which of the following violates identity and access management best practices?

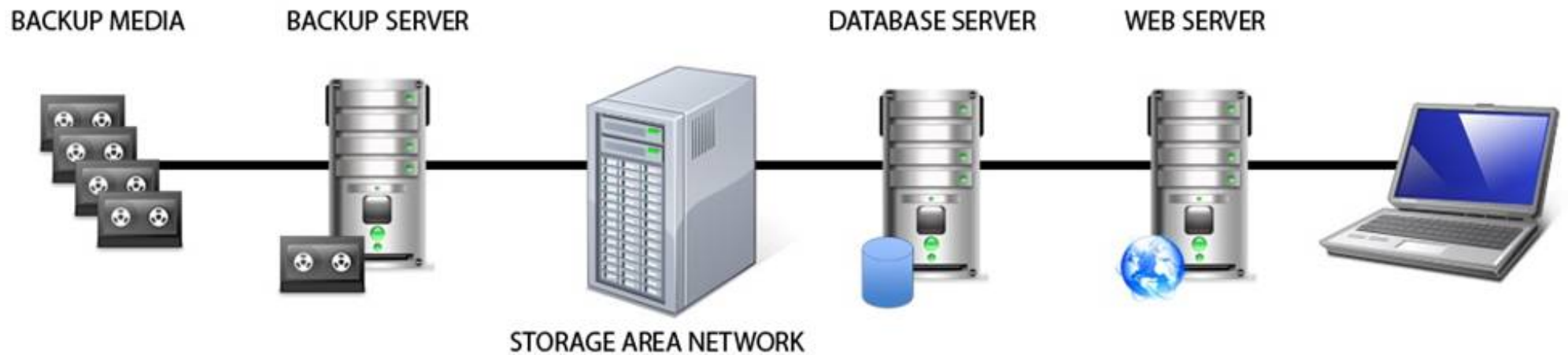
- A. User accounts
- B. System accounts
- C. Generic accounts
- D. Privileged accounts

Answer: C

NEW QUESTION 198

- (Exam Topic 10)

Identify the component that MOST likely lacks digital accountability related to information access. Click on the correct device in the image below.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Backup Media

Reference: Official (ISC)2 Guide to the CISSP CBK, Third Edition page 1029

NEW QUESTION 203

- (Exam Topic 10)

Refer to the information below to answer the question.

A large, multinational organization has decided to outsource a portion of their Information Technology (IT) organization to a third-party provider's facility. This provider will be responsible for the design, development, testing, and support of several critical, customer-based applications used by the organization. The organization should ensure that the third party's physical security controls are in place so that they

- A. are more rigorous than the original controls.
- B. are able to limit access to sensitive information.
- C. allow access by the organization staff at any time.
- D. cannot be accessed by subcontractors of the third party.

Answer: B

NEW QUESTION 204

- (Exam Topic 10)

Which of the following provides effective management assurance for a Wireless Local Area Network (WLAN)?

- A. Maintaining an inventory of authorized Access Points (AP) and connecting devices
- B. Setting the radio frequency to the minimum range required
- C. Establishing a Virtual Private Network (VPN) tunnel between the WLAN client device and a VPN concentrator
- D. Verifying that all default passwords have been changed

Answer: A

NEW QUESTION 205

- (Exam Topic 10)

According to best practice, which of the following groups is the MOST effective in performing an information security compliance audit?

- A. In-house security administrators
- B. In-house Network Team
- C. Disaster Recovery (DR) Team
- D. External consultants

Answer: D

NEW QUESTION 208

- (Exam Topic 10)

During an investigation of database theft from an organization's web site, it was determined that the Structured Query Language (SQL) injection technique was used despite input validation with client-side scripting. Which of the following provides the GREATEST protection against the same attack occurring again?

- A. Encrypt communications between the servers
- B. Encrypt the web server traffic
- C. Implement server-side filtering
- D. Filter outgoing traffic at the perimeter firewall

Answer: C

NEW QUESTION 210

- (Exam Topic 10)

What physical characteristic does a retinal scan biometric device measure?

- A. The amount of light reflected by the retina
- B. The size, curvature, and shape of the retina
- C. The pattern of blood vessels at the back of the eye
- D. The pattern of light receptors at the back of the eye

Answer: C

NEW QUESTION 214

- (Exam Topic 10)

Refer to the information below to answer the question.

A security practitioner detects client-based attacks on the organization's network. A plan will be necessary to address these concerns.

In addition to web browsers, what PRIMARY areas need to be addressed concerning mobile code used for malicious purposes?

- A. Text editors, database, and Internet phone applications
- B. Email, presentation, and database applications
- C. Image libraries, presentation and spreadsheet applications
- D. Email, media players, and instant messaging applications

Answer: D

NEW QUESTION 217

- (Exam Topic 10)

Which item below is a federated identity standard?

- A. 802.11i
- B. Kerberos
- C. Lightweight Directory Access Protocol (LDAP)
- D. Security Assertion Markup Language (SAML)

Answer: D

NEW QUESTION 218

- (Exam Topic 10)

What is a common challenge when implementing Security Assertion Markup Language (SAML) for identity integration between on-premise environment and an external identity provider service?

- A. Some users are not provisioned into the service.
- B. SAML tokens are provided by the on-premise identity provider.
- C. Single users cannot be revoked from the service.
- D. SAML tokens contain user information.

Answer: A

NEW QUESTION 219

- (Exam Topic 10)

Refer to the information below to answer the question.

During the investigation of a security incident, it is determined that an unauthorized individual accessed a system which hosts a database containing financial information.

If the intrusion causes the system processes to hang, which of the following has been affected?

- A. System integrity
- B. System availability
- C. System confidentiality
- D. System auditability

Answer: B

NEW QUESTION 223

- (Exam Topic 10)

Which of the following methods provides the MOST protection for user credentials?

- A. Forms-based authentication
- B. Digest authentication
- C. Basic authentication
- D. Self-registration

Answer: B

NEW QUESTION 225

- (Exam Topic 10)

Which of the following is the BEST solution to provide redundancy for telecommunications links?

- A. Provide multiple links from the same telecommunications vendor.

- B. Ensure that the telecommunications links connect to the network in one location.
- C. Ensure that the telecommunications links connect to the network in multiple locations.
- D. Provide multiple links from multiple telecommunications vendors.

Answer: D

NEW QUESTION 230

- (Exam Topic 10)

Which of the following is a detective access control mechanism?

- A. Log review
- B. Least privilege
- C. Password complexity
- D. Non-disclosure agreement

Answer: A

NEW QUESTION 233

- (Exam Topic 10)

Refer to the information below to answer the question.

An organization experiencing a negative financial impact is forced to reduce budgets and the number of Information Technology (IT) operations staff performing basic logical access security administration functions. Security processes have been tightly integrated into normal IT operations and are not separate and distinct roles.

Which of the following will indicate where the IT budget is BEST allocated during this time?

- A. Policies
- B. Frameworks
- C. Metrics
- D. Guidelines

Answer: C

NEW QUESTION 235

- (Exam Topic 10)

During the procurement of a new information system, it was determined that some of the security requirements were not addressed in the system specification.

Which of the following is the MOST likely reason for this?

- A. The procurement officer lacks technical knowledge.
- B. The security requirements have changed during the procurement process.
- C. There were no security professionals in the vendor's bidding team.
- D. The description of the security requirements was insufficient.

Answer: D

NEW QUESTION 239

- (Exam Topic 10)

When implementing a secure wireless network, which of the following supports authentication and authorization for individual client endpoints?

- A. Temporal Key Integrity Protocol (TKIP)
- B. Wi-Fi Protected Access (WPA) Pre-Shared Key (PSK)
- C. Wi-Fi Protected Access 2 (WPA2) Enterprise
- D. Counter Mode with Cipher Block Chaining Message Authentication Code Protocol (CCMP)

Answer: C

NEW QUESTION 244

- (Exam Topic 10)

Refer to the information below to answer the question.

In a Multilevel Security (MLS) system, the following sensitivity labels are used in increasing levels of sensitivity: restricted, confidential, secret, top secret. Table A lists the clearance levels for four users, while Table B lists the security classes of four different files.

Table A

User	Clearance Level
A	Restricted
B	Confidential
C	Secret
D	Top Secret

Table B

Files	Security Class
1	Restricted
2	Confidential
3	Secret
4	Top Secret

In a Bell-LaPadula system, which user cannot write to File 3?

- A. User A
- B. User B
- C. User C
- D. User D

Answer: D

NEW QUESTION 248

- (Exam Topic 10)

Which of the following is the MOST crucial for a successful audit plan?

- A. Defining the scope of the audit to be performed
- B. Identifying the security controls to be implemented
- C. Working with the system owner on new controls
- D. Acquiring evidence of systems that are not compliant

Answer: A

NEW QUESTION 252

- (Exam Topic 10)

Which of the following BEST describes Recovery Time Objective (RTO)?

- A. Time of data validation after disaster
- B. Time of data restoration from backup after disaster
- C. Time of application resumption after disaster
- D. Time of application verification after disaster

Answer: C

NEW QUESTION 256

- (Exam Topic 10)

A system is developed so that its business users can perform business functions but not user administration functions. Application administrators can perform administration functions but not user business functions. These capabilities are BEST described as

- A. least privilege.
- B. rule based access controls.
- C. Mandatory Access Control (MAC).
- D. separation of duties.

Answer: D

NEW QUESTION 261

- (Exam Topic 10)

Which of the following MUST system and database administrators be aware of and apply when configuring systems used for storing personal employee data?

- A. Secondary use of the data by business users
- B. The organization's security policies and standards
- C. The business purpose for which the data is to be used
- D. The overall protection of corporate resources and data

Answer: B

NEW QUESTION 264

- (Exam Topic 10)

Refer to the information below to answer the question.

A large organization uses unique identifiers and requires them at the start of every system session. Application access is based on job classification. The organization is subject to periodic independent reviews of access controls and violations. The organization uses wired and wireless networks and remote access. The organization also uses secure connections to branch offices and secure backup and recovery strategies for selected information and processes.

Which of the following BEST describes the access control methodology used?

- A. Least privilege
- B. Lattice Based Access Control (LBAC)
- C. Role Based Access Control (RBAC)
- D. Lightweight Directory Access Control (LDAP)

Answer: C

NEW QUESTION 266

- (Exam Topic 10)

Place the following information classification steps in sequential order.

Steps

Declassify information when appropriate

Apply the appropriate security markings

Conduct periodic classification reviews

Assign a classification level

Document the information assets

Order

Step

Step

Step

Step

Step

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Steps

Declassify information when appropriate

Apply the appropriate security markings

Conduct periodic classification reviews

Assign a classification level

Document the information assets

Document the information assets

Assign a classification level

Apply the appropriate security markings

Conduct periodic classification reviews

Declassify information when appropriate

Order

Step

Step

Step

Step

Step

NEW QUESTION 269

- (Exam Topic 10)

A large university needs to enable student access to university resources from their homes. Which of the following provides the BEST option for low maintenance and ease of deployment?

- A. Provide students with Internet Protocol Security (IPSec) Virtual Private Network (VPN) client software.
 B. Use Secure Sockets Layer (SSL) VPN technology.
 C. Use Secure Shell (SSH) with public/private keys.
 D. Require students to purchase home router capable of VPN.

Answer: B

NEW QUESTION 274

- (Exam Topic 10)

Refer to the information below to answer the question.

In a Multilevel Security (MLS) system, the following sensitivity labels are used in increasing levels of sensitivity: restricted, confidential, secret, top secret. Table A lists the clearance levels for four users, while Table B lists the security classes of four different files.

Table A

User	Clearance Level
A	Restricted
B	Confidential
C	Secret
D	Top Secret

Table B

Files	Security Class
1	Restricted
2	Confidential
3	Secret
4	Top Secret

In a Bell-LaPadula system, which user has the MOST restrictions when writing data to any of the four files?

- A. User A
- B. User B
- C. User C
- D. User D

Answer: D

NEW QUESTION 276

- (Exam Topic 10)

Refer to the information below to answer the question.

Desktop computers in an organization were sanitized for re-use in an equivalent security environment. The data was destroyed in accordance with organizational policy and all marking and other external indications of the sensitivity of the data that was formerly stored on the magnetic drives were removed.

After magnetic drives were degaussed twice according to the product manufacturer's directions, what is the MOST LIKELY security issue with degaussing?

- A. Commercial products often have serious weaknesses of the magnetic force available in the degausser product.
- B. Degausser products may not be properly maintained and operated.
- C. The inability to turn the drive around in the chamber for the second pass due to human error.
- D. Inadequate record keeping when sanitizing media.

Answer: B

NEW QUESTION 281

- (Exam Topic 10)

From a security perspective, which of the following is a best practice to configure a Domain Name Service (DNS) system?

- A. Configure secondary servers to use the primary server as a zone forwarder.
- B. Block all Transmission Control Protocol (TCP) connections.
- C. Disable all recursive queries on the name servers.
- D. Limit zone transfers to authorized devices.

Answer: D

NEW QUESTION 285

- (Exam Topic 10)

Refer to the information below to answer the question.

An organization experiencing a negative financial impact is forced to reduce budgets and the number of Information Technology (IT) operations staff performing basic logical access security administration functions. Security processes have been tightly integrated into normal IT operations and are not separate and distinct roles.

When determining appropriate resource allocation, which of the following is MOST important to monitor?

- A. Number of system compromises
- B. Number of audit findings
- C. Number of staff reductions
- D. Number of additional assets

Answer: B

NEW QUESTION 289

- (Exam Topic 10)

A thorough review of an organization's audit logs finds that a disgruntled network administrator has intercepted emails meant for the Chief Executive Officer (CEO) and changed them before forwarding them to their intended recipient. What type of attack has MOST likely occurred?

- A. Spoofing
- B. Eavesdropping
- C. Man-in-the-middle
- D. Denial of service

Answer: C

NEW QUESTION 292

- (Exam Topic 10)

Refer to the information below to answer the question.

An organization has hired an information security officer to lead their security department. The officer has adequate people resources but is lacking the other necessary components to have an effective security program. There are numerous initiatives requiring security involvement.

The effectiveness of the security program can PRIMARILY be measured through

- A. audit findings.
- B. risk elimination.
- C. audit requirements.
- D. customer satisfaction.

Answer: A

NEW QUESTION 294

- (Exam Topic 10)

When using third-party software developers, which of the following is the MOST effective method of providing software development Quality Assurance (QA)?

- A. Retain intellectual property rights through contractual wording.
- B. Perform overlapping code reviews by both parties.
- C. Verify that the contractors attend development planning meetings.
- D. Create a separate contractor development environment.

Answer: B

NEW QUESTION 299

- (Exam Topic 10)

Which of the following is critical for establishing an initial baseline for software components in the operation and maintenance of applications?

- A. Application monitoring procedures
- B. Configuration control procedures
- C. Security audit procedures
- D. Software patching procedures

Answer: B

NEW QUESTION 300

- (Exam Topic 10)

Refer to the information below to answer the question.

Desktop computers in an organization were sanitized for re-use in an equivalent security environment. The data was destroyed in accordance with organizational policy and all marking and other external indications of the sensitivity of the data that was formerly stored on the magnetic drives were removed.

Organizational policy requires the deletion of user data from Personal Digital Assistant (PDA) devices before disposal. It may not be possible to delete the user data if the device is malfunctioning. Which destruction method below provides the BEST assurance that the data has been removed?

- A. Knurling
- B. Grinding
- C. Shredding
- D. Degaussing

Answer: C

NEW QUESTION 305

- (Exam Topic 11)

Which of the following BEST describes the purpose of performing security certification?

- A. To identify system threats, vulnerabilities, and acceptable level of risk
- B. To formalize the confirmation of compliance to security policies and standards
- C. To formalize the confirmation of completed risk mitigation and risk analysis
- D. To verify that system architecture and interconnections with other systems are effectively implemented

Answer: B

NEW QUESTION 310

- (Exam Topic 11)

What is the GREATEST challenge to identifying data leaks?

- A. Available technical tools that enable user activity monitoring.
- B. Documented asset classification policy and clear labeling of assets.
- C. Senior management cooperation in investigating suspicious behavior.
- D. Law enforcement participation to apprehend and interrogate suspects.

Answer: B

NEW QUESTION 312

- (Exam Topic 11)

Which of the following BEST describes a Protection Profile (PP)?

- A. A document that expresses an implementation independent set of security requirements for an IT product that meets specific consumer needs.
- B. A document that is used to develop an IT security product from its security requirements definition.
- C. A document that expresses an implementation dependent set of security requirements which contains only the security functional requirements.
- D. A document that represents evaluated products where there is a one-to-one correspondence between a PP and a Security Target (ST).

Answer: A

NEW QUESTION 317

- (Exam Topic 11)

Which of the following has the GREATEST impact on an organization's security posture?

- A. International and country-specific compliance requirements
- B. Security violations by employees and contractors
- C. Resource constraints due to increasing costs of supporting security
- D. Audit findings related to employee access and permissions process

Answer: A

NEW QUESTION 320

- (Exam Topic 11)

A mobile device application that restricts the storage of user information to just that which is needed to accomplish lawful business goals adheres to what privacy principle?

- A. Onward transfer
- B. Collection Limitation
- C. Collector Accountability
- D. Individual Participation

Answer: B

NEW QUESTION 321

- (Exam Topic 11)

Regarding asset security and appropriate retention, which of the following INITIAL top three areas are important to focus on?

- A. Security control baselines, access controls, employee awareness and training
- B. Human resources, asset management, production management
- C. Supply chain lead time, inventory control, encryption
- D. Polygraphs, crime statistics, forensics

Answer: A

NEW QUESTION 325

- (Exam Topic 11)

Which of the following is the BEST method to assess the effectiveness of an organization's vulnerability management program?

- A. Review automated patch deployment reports
- B. Periodic third party vulnerability assessment
- C. Automated vulnerability scanning
- D. Perform vulnerability scan by security team

Answer: B

NEW QUESTION 326

- (Exam Topic 11)

Which of the following is most helpful in applying the principle of LEAST privilege?

- A. Establishing a sandboxing environment
- B. Setting up a Virtual Private Network (VPN) tunnel
- C. Monitoring and reviewing privileged sessions
- D. Introducing a job rotation program

Answer: A

NEW QUESTION 328

- (Exam Topic 11)

Which of the following analyses is performed to protect information assets?

- A. Business impact analysis
- B. Feasibility analysis
- C. Cost benefit analysis
- D. Data analysis

Answer: A

NEW QUESTION 331

- (Exam Topic 11)

Single Sign-On (SSO) is PRIMARILY designed to address which of the following?

- A. Confidentiality and Integrity
- B. Availability and Accountability
- C. Integrity and Availability
- D. Accountability and Assurance

Answer: D

NEW QUESTION 334

- (Exam Topic 11)

What is the MOST efficient way to secure a production program and its data?

- A. Disable default accounts and implement access control lists (ACL)
- B. Harden the application and encrypt the data
- C. Disable unused services and implement tunneling
- D. Harden the servers and backup the data

Answer:

B

NEW QUESTION 335

- (Exam Topic 11)

Which of the following are Systems Engineering Life Cycle (SELC) Technical Processes?

- A. Concept, Development, Production, Utilization, Support, Retirement
- B. Stakeholder Requirements Definition, Architectural Design, Implementation, Verification, Operation
- C. Acquisition, Measurement, Configuration Management, Production, Operation, Support
- D. Concept, Requirements, Design, Implementation, Production, Maintenance, Support, Disposal

Answer: B

NEW QUESTION 339

- (Exam Topic 11)

An organization has hired a security services firm to conduct a penetration test. Which of the following will the organization provide to the tester?

- A. Limits and scope of the testing.
- B. Physical location of server room and wiring closet.
- C. Logical location of filters and concentrators.
- D. Employee directory and organizational chart.

Answer: A

NEW QUESTION 344

- (Exam Topic 11)

How does Encapsulating Security Payload (ESP) in transport mode affect the Internet Protocol (IP)?

- A. Encrypts and optionally authenticates the IP header, but not the IP payload
- B. Encrypts and optionally authenticates the IP payload, but not the IP header
- C. Authenticates the IP payload and selected portions of the IP header
- D. Encrypts and optionally authenticates the complete IP packet

Answer: B

NEW QUESTION 345

- (Exam Topic 11)

When planning a penetration test, the tester will be MOST interested in which information?

- A. Places to install back doors
- B. The main network access points
- C. Job application handouts and tours
- D. Exploits that can attack weaknesses

Answer: B

NEW QUESTION 349

- (Exam Topic 11)

Which of the following is the PRIMARY security concern associated with the implementation of smart cards?

- A. The cards have limited memory
- B. Vendor application compatibility
- C. The cards can be misplaced
- D. Mobile code can be embedded in the card

Answer: C

NEW QUESTION 353

- (Exam Topic 11)

The BEST example of the concept of "something that a user has" when providing an authorized user access to a computing system is

- A. the user's hand geometry.
- B. a credential stored in a token.
- C. a passphrase.
- D. the user's face.

Answer: B

NEW QUESTION 357

- (Exam Topic 11)

What type of encryption is used to protect sensitive data in transit over a network?

- A. Payload encryption and transport encryption
- B. Authentication Headers (AH)
- C. Keyed-Hashing for Message Authentication
- D. Point-to-Point Encryption (P2PE)

Answer: A

NEW QUESTION 358

- (Exam Topic 11)

A security professional is asked to provide a solution that restricts a bank teller to only perform a savings deposit transaction but allows a supervisor to perform corrections after the transaction. Which of the following is the MOST effective solution?

- A. Access is based on rules.
- B. Access is determined by the system.
- C. Access is based on user's role.
- D. Access is based on data sensitivity.

Answer: C

NEW QUESTION 362

- (Exam Topic 11)

The PRIMARY characteristic of a Distributed Denial of Service (DDoS) attack is that it

- A. exploits weak authentication to penetrate networks.
- B. can be detected with signature analysis.
- C. looks like normal network activity.
- D. is commonly confused with viruses or worms.

Answer: C

NEW QUESTION 365

- (Exam Topic 11)

Drag the following Security Engineering terms on the left to the BEST definition on the right.

Security Engineering

Security Risk Treatment		The method used to identify the confidentiality, integrity, and availability requirements for organizational and system assets and to characterize the adverse impact or consequences should the asset be lost, modified, degraded, disrupted, compromised, or become unavailable.
Threat Assessment		A measure of the extent to which an entity is threatened by a potential circumstance or event, the adverse impacts that would arise if the circumstance or event occurs, and the likelihood of occurrence.
Protection Needs		The method used to identify and characterize the dangers anticipated throughout the life cycle of the system.
Risk		The method used to identify feasible security risk mitigation options and plans.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Security Engineering

Definition

Security Risk Treatment

Protection Needs

The method used to identify the confidentiality, integrity, and availability requirements for organizational and system assets and to characterize the adverse impact or consequences should the asset be lost, modified, degraded, disrupted, compromised, or become unavailable.

Threat Assessment

Risk

A measure of the extent to which an entity is threatened by a potential circumstance or event, the adverse impacts that would arise if the circumstance or event occurs, and the likelihood of occurrence.

Protection Needs

Threat Assessment

The method used to identify and characterize the dangers anticipated throughout the life cycle of the system.

Risk

Security Risk Treatment

The method used to identify feasible security risk mitigation options and plans.

NEW QUESTION 369

- (Exam Topic 11)

Which of the following is an advantage of on-premise Credential Management Systems?

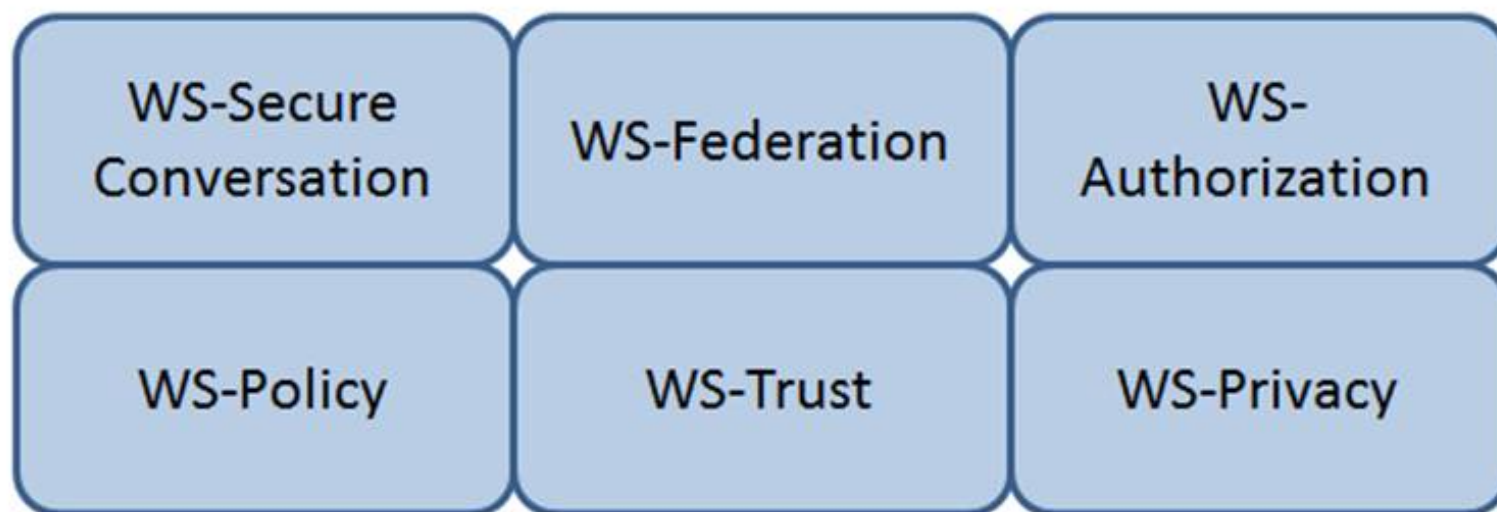
- A. Improved credential interoperability
- B. Control over system configuration
- C. Lower infrastructure capital costs
- D. Reduced administrative overhead

Answer: B

NEW QUESTION 372

- (Exam Topic 11)

Which Web Services Security (WS-Security) specification negotiates how security tokens will be issued, renewed and validated? Click on the correct specification in the image below.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

WS-Trust

The protocol used for issuing security tokens is based on WS-Trust. WS-Trust is a Web service specification that builds on WS-Security. It describes a protocol used for issuance, exchange, and validation of security tokens. WS-Trust provides a solution for interoperability by defining a protocol for issuing and exchanging security tokens, based on token format, namespace, or trust boundaries.

Reference: <https://msdn.microsoft.com/en-us/library/ff650503.aspx>

NEW QUESTION 375

- (Exam Topic 11)

What is one way to mitigate the risk of security flaws in custom software?

- A. Include security language in the Earned Value Management (EVM) contract
- B. Include security assurance clauses in the Service Level Agreement (SLA)
- C. Purchase only Commercial Off-The-Shelf (COTS) products
- D. Purchase only software with no open source Application Programming Interfaces (APIs)

Answer: B

NEW QUESTION 379

- (Exam Topic 11)

The PRIMARY outcome of a certification process is that it provides documented

- A. system weaknesses for remediation.
- B. standards for security assessment, testing, and process evaluation.
- C. interconnected systems and their implemented security controls.
- D. security analyses needed to make a risk-based decision.

Answer: D

NEW QUESTION 383

- (Exam Topic 11)

Which of the following methods can be used to achieve confidentiality and integrity for data in transit?

- A. Multiprotocol Label Switching (MPLS)
- B. Internet Protocol Security (IPSec)
- C. Federated identity management
- D. Multi-factor authentication

Answer: B

NEW QUESTION 385

- (Exam Topic 11)

When in the Software Development Life Cycle (SDLC) MUST software security functional requirements be defined?

- A. After the system preliminary design has been developed and the data security categorization has been performed
- B. After the business functional analysis and the data security categorization have been performed
- C. After the vulnerability analysis has been performed and before the system detailed design begins
- D. After the system preliminary design has been developed and before the data security categorization begins

Answer: B

NEW QUESTION 386

- (Exam Topic 11)

Which of the following BEST avoids data remanence disclosure for cloud hosted resources?

- A. Strong encryption and deletion of the keys after data is deleted.
- B. Strong encryption and deletion of the virtual host after data is deleted.
- C. Software based encryption with two factor authentication.
- D. Hardware based encryption on dedicated physical servers.

Answer: A

NEW QUESTION 390

- (Exam Topic 11)

While inventorying storage equipment, it is found that there are unlabeled, disconnected, and powered off devices. Which of the following is the correct procedure for handling such equipment?

- A. They should be recycled to save energy.
- B. They should be recycled according to NIST SP 800-88.
- C. They should be inspected and sanitized following the organizational policy.
- D. They should be inspected and categorized properly to sell them for reuse.

Answer: C

NEW QUESTION 391

- (Exam Topic 11)

In the Open System Interconnection (OSI) model, which layer is responsible for the transmission of binary data over a communications network?

- A. Application Layer
- B. Physical Layer
- C. Data-Link Layer
- D. Network Layer

Answer: B

NEW QUESTION 394

- (Exam Topic 11)

Which of the following secures web transactions at the Transport Layer?

- A. Secure HyperText Transfer Protocol (S-HTTP)
- B. Secure Sockets Layer (SSL)
- C. Socket Security (SOCKS)
- D. Secure Shell (SSH)

Answer: B

NEW QUESTION 395

- (Exam Topic 11)

The 802.1x standard provides a framework for what?

- A. Network authentication for only wireless networks
- B. Network authentication for wired and wireless networks
- C. Wireless encryption using the Advanced Encryption Standard (AES)
- D. Wireless network encryption using Secure Sockets Layer (SSL)

Answer: B

NEW QUESTION 396

- (Exam Topic 11)

While investigating a malicious event, only six days of audit logs from the last month were available. What policy should be updated to address this problem?

- A. Retention
- B. Reporting
- C. Recovery
- D. Remediation

Answer: A

NEW QUESTION 398

- (Exam Topic 11)

Which of the following is the MOST important output from a mobile application threat modeling exercise according to Open Web Application Security Project (OWASP)?

- A. Application interface entry and endpoints
- B. The likelihood and impact of a vulnerability
- C. Countermeasures and mitigations for vulnerabilities
- D. A data flow diagram for the application and attack surface analysis

Answer: D

NEW QUESTION 401

- (Exam Topic 11)

During the risk assessment phase of the project the CISO discovered that a college within the University is collecting Protected Health Information (PHI) data via an application that was developed in-house. The college collecting this data is fully aware of the regulations for Health Insurance Portability and Accountability Act (HIPAA) and is fully compliant.

What is the best approach for the CISO?

During the risk assessment phase of the project the CISO discovered that a college within the University is collecting Protected Health Information (PHI) data via an application that was developed in-house. The college collecting this data is fully aware of the regulations for Health Insurance Portability and Accountability Act (HIPAA) and is fully compliant.

What is the best approach for the CISO?

- A. Document the system as high risk
- B. Perform a vulnerability assessment
- C. Perform a quantitative threat assessment
- D. Notate the information and move on

Answer: B

NEW QUESTION 403

- (Exam Topic 11)

Which of the following provides the minimum set of privileges required to perform a job function and restricts the user to a domain with the required privileges?

- A. Access based on rules
- B. Access based on user's role
- C. Access determined by the system
- D. Access based on data sensitivity

Answer: B

NEW QUESTION 408

- (Exam Topic 12)

Which of the following is a remote access protocol that uses a static authentication?

- A. Point-to-Point Tunneling Protocol (PPTP)
- B. Routing Information Protocol (RIP)
- C. Password Authentication Protocol (PAP)
- D. Challenge Handshake Authentication Protocol (CHAP)

Answer: C

NEW QUESTION 410

- (Exam Topic 12)

Which of the following information MUST be provided for user account provisioning?

- A. Full name
- B. Unique identifier
- C. Security question
- D. Date of birth

Answer: B

NEW QUESTION 414

- (Exam Topic 12)

Network-based logging has which advantage over host-based logging when reviewing malicious activity about a victim machine?

- A. Addresses and protocols of network-based logs are analyzed.
- B. Host-based system logging has files stored in multiple locations.
- C. Properly handled network-based logs may be more reliable and valid.
- D. Network-based systems cannot capture users logging into the console.

Answer: A

NEW QUESTION 419

- (Exam Topic 12)

Which Radio Frequency Interference (RFI) phenomenon associated with bundled cable runs can create information leakage?

- A. Transference
- B. Covert channel
- C. Bleeding
- D. Cross-talk

Answer: D

NEW QUESTION 423

- (Exam Topic 12)

Which of the following adds end-to-end security inside a Layer 2 Tunneling Protocol (L2TP) Internet Protocol Security (IPSec) connection?

- A. Temporal Key Integrity Protocol (TKIP)
- B. Secure Hash Algorithm (SHA)
- C. Secure Shell (SSH)
- D. Transport Layer Security (TLS)

Answer: B

NEW QUESTION 428

- (Exam Topic 12)

Which of the following is the MOST important goal of information asset valuation?

- A. Developing a consistent and uniform method of controlling access on information assets
- B. Developing appropriate access control policies and guidelines
- C. Assigning a financial value to an organization's information assets
- D. Determining the appropriate level of protection

Answer: D

NEW QUESTION 432

- (Exam Topic 12)

The PRIMARY purpose of accreditation is to:

- A. comply with applicable laws and regulations.
- B. allow senior management to make an informed decision regarding whether to accept the risk of operating the system.
- C. protect an organization's sensitive data.
- D. verify that all security controls have been implemented properly and are operating in the correct manner.

Answer: B

NEW QUESTION 435

- (Exam Topic 12)

Which of the following media sanitization techniques is MOST likely to be effective for an organization using public cloud services?

- A. Low-level formatting
- B. Secure-grade overwrite erasure
- C. Cryptographic erasure
- D. Drive degaussing

Answer: B

NEW QUESTION 440

- (Exam Topic 12)

Match the access control type to the example of the control type. Drag each access control type net to its corresponding example.

Access Control Type

Example

Administrative

Labeling of sensitive data

Technical

Biometrics for authentication

Logical

Constrained user interface

Physical

Radio Frequency Identification (RFID) badge

A. Mastered

B. Not Mastered

Answer: A

Explanation:

Administrative – labeling of sensitive data
Technical – Constrained user interface
Logical – Biometrics for authentication
Physical – Radio Frequency Identification (RFID) badge

NEW QUESTION 442

- (Exam Topic 12)

What operations role is responsible for protecting the enterprise from corrupt or contaminated media?

- A. Information security practitioner
- B. Information librarian
- C. Computer operator
- D. Network administrator

Answer: B

NEW QUESTION 446

- (Exam Topic 12)

At which layer of the Open Systems Interconnect (OSI) model are the source and destination address for a datagram handled?

- A. Transport Layer
- B. Data-Link Layer
- C. Network Layer
- D. Application Layer

Answer: C

NEW QUESTION 448

- (Exam Topic 12)

An employee of a retail company has been granted an extended leave of absence by Human Resources (HR). This information has been formally communicated to the access provisioning team. Which of the following is the BEST action to take?

- A. Revoke access temporarily.
- B. Block user access and delete user account after six months.
- C. Block access to the offices immediately.
- D. Monitor account usage temporarily.

Answer: D

NEW QUESTION 452

- (Exam Topic 12)

Which one of the following activities would present a significant security risk to organizations when employing a Virtual Private Network (VPN) solution?

- A. VPN bandwidth
- B. Simultaneous connection to other networks
- C. Users with Internet Protocol (IP) addressing conflicts
- D. Remote users with administrative rights

Answer: B

NEW QUESTION 456

- (Exam Topic 12)

Which of the following is the MOST important consideration when developing a Disaster Recovery Plan (DRP)?

- A. The dynamic reconfiguration of systems
- B. The cost of downtime
- C. A recovery strategy for all business processes
- D. A containment strategy

Answer: C

NEW QUESTION 459

- (Exam Topic 12)

In order to assure authenticity, which of the following are required?

- A. Confidentiality and authentication
- B. Confidentiality and integrity
- C. Authentication and non-repudiation
- D. Integrity and non-repudiation

Answer: D

NEW QUESTION 460

- (Exam Topic 12)

The application of a security patch to a product previously validate at Common Criteria (CC) Evaluation Assurance Level (EAL) 4 would

- A. require an update of the Protection Profile (PP).
- B. require recertification.
- C. retain its current EAL rating.
- D. reduce the product to EAL 3.

Answer: B

NEW QUESTION 462

- (Exam Topic 12)

From a cryptographic perspective, the service of non-repudiation includes which of the following features?

- A. Validity of digital certificates
- B. Validity of the authorization rules
- C. Proof of authenticity of the message
- D. Proof of integrity of the message

Answer: C

NEW QUESTION 465

- (Exam Topic 12)

When designing a vulnerability test, which one of the following is likely to give the BEST indication of what components currently operate on the network?

- A. Topology diagrams
- B. Mapping tools
- C. Asset register
- D. Ping testing

Answer: D

NEW QUESTION 466

- (Exam Topic 12)

Reciprocal backup site agreements are considered to be

- A. a better alternative than the use of warm sites.
- B. difficult to test for complex systems.
- C. easy to implement for similar types of organizations.
- D. easy to test and implement for complex systems.

Answer: B

NEW QUESTION 468

- (Exam Topic 12)

Knowing the language in which an encrypted message was originally produced might help a cryptanalyst to perform a

- A. clear-text attack.
- B. known cipher attack.
- C. frequency analysis.
- D. stochastic assessment.

Answer: C

NEW QUESTION 473

- (Exam Topic 12)

During the Security Assessment and Authorization process, what is the PRIMARY purpose for conducting a hardware and software inventory?

- A. Calculate the value of assets being accredited.
- B. Create a list to include in the Security Assessment and Authorization package.
- C. Identify obsolete hardware and software.
- D. Define the boundaries of the information system.

Answer: A

NEW QUESTION 477

- (Exam Topic 12)

Which of the following countermeasures is the MOST effective in defending against a social engineering attack?

- A. Mandating security policy acceptance
- B. Changing individual behavior
- C. Evaluating security awareness training
- D. Filtering malicious e-mail content

Answer: C

NEW QUESTION 482

- (Exam Topic 12)

What is a characteristic of Secure Socket Layer (SSL) and Transport Layer Security (TLS)?

- A. SSL and TLS provide a generic channel security mechanism on top of Transmission Control Protocol (TCP).
- B. SSL and TLS provide nonrepudiation by default.
- C. SSL and TLS do not provide security for most routed protocols.
- D. SSL and TLS provide header encapsulation over HyperText Transfer Protocol (HTTP).

Answer: A

NEW QUESTION 486

- (Exam Topic 13)

Which of the following is the BEST reason for writing an information security policy?

- A. To support information security governance
- B. To reduce the number of audit findings
- C. To deter attackers
- D. To implement effective information security controls

Answer: A

NEW QUESTION 489

- (Exam Topic 13)

Which of the following is the MOST effective method to mitigate Cross-Site Scripting (XSS) attacks?

- A. Use Software as a Service (SaaS)
- B. Whitelist input validation
- C. Require client certificates
- D. Validate data output

Answer: B

NEW QUESTION 491

- (Exam Topic 13)

Which of the following steps should be performed FIRST when purchasing Commercial Off-The-Shelf (COTS) software?

- A. undergo a security assessment as part of authorization process
- B. establish a risk management strategy
- C. harden the hosting server, and perform hosting and application vulnerability scans
- D. establish policies and procedures on system and services acquisition

Answer: D

NEW QUESTION 496

- (Exam Topic 13)

An organization's security policy delegates to the data owner the ability to assign which user roles have access to a particular resource. What type of authorization mechanism is being used?

- A. Discretionary Access Control (DAC)
- B. Role Based Access Control (RBAC)
- C. Media Access Control (MAC)
- D. Mandatory Access Control (MAC)

Answer: A

NEW QUESTION 500

- (Exam Topic 13)

Due to system constraints, a group of system administrators must share a high-level access set of credentials. Which of the following would be MOST appropriate to implement?

- A. Increased console lockout times for failed logon attempts
- B. Reduce the group in size
- C. A credential check-out process for a per-use basis
- D. Full logging on affected systems

Answer: C

Explanation:

Section: Security Operations

NEW QUESTION 502

- (Exam Topic 13)

Which of the following MUST be in place to recognize a system attack?

- A. Stateful firewall
- B. Distributed antivirus
- C. Log analysis
- D. Passive honeypot

Answer: A

NEW QUESTION 503

- (Exam Topic 13)

What is the MAIN reason for testing a Disaster Recovery Plan (DRP)?

- A. To ensure Information Technology (IT) staff knows and performs roles assigned to each of them
- B. To validate backup sites' effectiveness
- C. To find out what does not work and fix it
- D. To create a high level DRP awareness among Information Technology (IT) staff

Answer: B

NEW QUESTION 504

- (Exam Topic 13)

Which of the following is a direct monetary cost of a security incident?

- A. Morale
- B. Reputation
- C. Equipment
- D. Information

Answer: C

NEW QUESTION 505

- (Exam Topic 13)

What is the PRIMARY role of a scrum master in agile development?

- A. To choose the primary development language
- B. To choose the integrated development environment
- C. To match the software requirements to the delivery plan
- D. To project manage the software delivery

Answer: D

NEW QUESTION 509

- (Exam Topic 13)

Unused space in a disk cluster is important in media analysis because it may contain which of the following?

- A. Residual data that has not been overwritten
- B. Hidden viruses and Trojan horses
- C. Information about the File Allocation table (FAT)
- D. Information about patches and upgrades to the system

Answer: A

NEW QUESTION 513

- (Exam Topic 13)

The design review for an application has been completed and is ready for release. What technique should an organization use to assure application integrity?

- A. Application authentication
- B. Input validation
- C. Digital signing
- D. Device encryption

Answer: C

NEW QUESTION 515

- (Exam Topic 13)

Which of the following is a benefit in implementing an enterprise Identity and Access Management (IAM) solution?

- A. Password requirements are simplified.
- B. Risk associated with orphan accounts is reduced.
- C. Segregation of duties is automatically enforced.
- D. Data confidentiality is increased.

Answer: A

NEW QUESTION 517

- (Exam Topic 13)

When determining who can accept the risk associated with a vulnerability, which of the following is MOST important?

- A. Countermeasure effectiveness
- B. Type of potential loss
- C. Incident likelihood
- D. Information ownership

Answer: C

NEW QUESTION 522

- (Exam Topic 13)

Which of the following is the BEST reason for the use of security metrics?

- A. They ensure that the organization meets its security objectives.
- B. They provide an appropriate framework for Information Technology (IT) governance.
- C. They speed up the process of quantitative risk assessment.
- D. They quantify the effectiveness of security processes.

Answer: B

NEW QUESTION 525

- (Exam Topic 13)

A security practitioner is tasked with securing the organization's Wireless Access Points (WAP). Which of these is the MOST effective way of restricting this environment to authorized users?

- A. Enable Wi-Fi Protected Access 2 (WPA2) encryption on the wireless access point
- B. Disable the broadcast of the Service Set Identifier (SSID) name
- C. Change the name of the Service Set Identifier (SSID) to a random value not associated with the organization
- D. Create Access Control Lists (ACL) based on Media Access Control (MAC) addresses

Answer: D

NEW QUESTION 527

- (Exam Topic 13)

When developing solutions for mobile devices, in which phase of the Software Development Life Cycle (SDLC) should technical limitations related to devices be specified?

- A. Implementation
- B. Initiation
- C. Review
- D. Development

Answer: A

NEW QUESTION 528

- (Exam Topic 13)

What can happen when an Intrusion Detection System (IDS) is installed inside a firewall-protected internal network?

- A. The IDS can detect failed administrator logon attempts from servers.
- B. The IDS can increase the number of packets to analyze.
- C. The firewall can increase the number of packets to analyze.
- D. The firewall can detect failed administrator login attempts from servers

Answer: A

NEW QUESTION 532

- (Exam Topic 13)

Which of the following is a common characteristic of privacy?

- A. Provision for maintaining an audit trail of access to the private data
- B. Notice to the subject of the existence of a database containing relevant credit card data
- C. Process for the subject to inspect and correct personal data on-site
- D. Database requirements for integration of privacy data

Answer: A

NEW QUESTION 534

- (Exam Topic 13)

What is the MOST significant benefit of an application upgrade that replaces randomly generated session keys with certificate based encryption for communications with backend servers?

- A. Non-repudiation
- B. Efficiency
- C. Confidentially
- D. Privacy

Answer: A

NEW QUESTION 537

- (Exam Topic 13)

What does electronic vaulting accomplish?

- A. It protects critical files.
- B. It ensures the fault tolerance of Redundant Array of Independent Disks (RAID) systems
- C. It stripes all database records
- D. It automates the Disaster Recovery Process (DRP)

Answer: A

Explanation:

Section: Security Operations

NEW QUESTION 542

- (Exam Topic 13)

Which of the following is considered a secure coding practice?

- A. Use concurrent access for shared variables and resources
- B. Use checksums to verify the integrity of libraries
- C. Use new code for common tasks
- D. Use dynamic execution functions to pass user supplied data

Answer: B

NEW QUESTION 543

- (Exam Topic 13)

An organization recently conducted a review of the security of its network applications. One of the vulnerabilities found was that the session key used in encrypting sensitive information to a third party server had been hard-coded in the client and server applications. Which of the following would be MOST effective in mitigating this vulnerability?

- A. Diffie-Hellman (DH) algorithm
- B. Elliptic Curve Cryptography (ECC) algorithm
- C. Digital Signature algorithm (DSA)
- D. Rivest-Shamir-Adleman (RSA) algorithm

Answer: A

NEW QUESTION 545

- (Exam Topic 13)

An Information Technology (IT) professional attends a cybersecurity seminar on current incident response methodologies. What code of ethics canon is being observed?

- A. Provide diligent and competent service to principals
- B. Protect society, the commonwealth, and the infrastructure
- C. Advance and protect the profession
- D. Act honorable, honesty, justly, responsibly, and legally

Answer: C

Explanation:

Section: Security Operations

NEW QUESTION 549

- (Exam Topic 13)

Which of the following entails identification of data and links to business processes, applications, and data stores as well as assignment of ownership responsibilities?

- A. Security governance
- B. Risk management
- C. Security portfolio management
- D. Risk assessment

Answer: B

NEW QUESTION 550

- (Exam Topic 13)

What MUST each information owner do when a system contains data from multiple information owners?

- A. Provide input to the Information System (IS) owner regarding the security requirements of the data
- B. Review the Security Assessment report (SAR) for the Information System (IS) and authorize the IS to operate.
- C. Develop and maintain the System Security Plan (SSP) for the Information System (IS) containing the data
- D. Move the data to an Information System (IS) that does not contain data owned by other information owners

Answer: C

Explanation:

Section: Security Assessment and Testing

NEW QUESTION 555

- (Exam Topic 13)

When developing a business case for updating a security program, the security program owner MUST do which of the following?

- A. Identify relevant metrics
- B. Prepare performance test reports
- C. Obtain resources for the security program
- D. Interview executive management

Answer: A

NEW QUESTION 558

- (Exam Topic 13)

When network management is outsourced to third parties, which of the following is the MOST effective method of protecting critical data assets?

- A. Log all activities associated with sensitive systems
- B. Provide links to security policies
- C. Confirm that confidentiality agreements are signed
- D. Employ strong access controls

Answer: D

NEW QUESTION 560

- (Exam Topic 13)

At a MINIMUM, audits of permissions to individual or group accounts should be scheduled

- A. annually
- B. to correspond with staff promotions
- C. to correspond with terminations
- D. continually

Answer: A

NEW QUESTION 563

- (Exam Topic 13)

A chemical plant wants to upgrade the Industrial Control System (ICS) to transmit data using Ethernet instead of RS422. The project manager wants to simplify administration and maintenance by utilizing the office network infrastructure and staff to implement this upgrade. Which of the following is the GREATEST impact on security for the network?

- A. The network administrators have no knowledge of ICS
- B. The ICS is now accessible from the office network
- C. The ICS does not support the office password policy
- D. RS422 is more reliable than Ethernet

Answer: B

NEW QUESTION 566

- (Exam Topic 13)

What does a Synchronous (SYN) flood attack do?

- A. Forces Transmission Control Protocol /Internet Protocol (TCP/IP) connections into a reset state
- B. Establishes many new Transmission Control Protocol / Internet Protocol (TCP/IP) connections
- C. Empties the queue of pending Transmission Control Protocol /Internet Protocol (TCP/IP) requests
- D. Exceeds the limits for new Transmission Control Protocol /Internet Protocol (TCP/IP) connections

Answer: B

NEW QUESTION 567

- (Exam Topic 13)

Who has the PRIMARY responsibility to ensure that security objectives are aligned with organization goals?

- A. Senior management
- B. Information security department
- C. Audit committee
- D. All users

Answer: C

NEW QUESTION 568

- (Exam Topic 13)

An organization adopts a new firewall hardening standard. How can the security professional verify that the technical staff correct implemented the new standard?

- A. Perform a compliance review
- B. Perform a penetration test
- C. Train the technical staff
- D. Survey the technical staff

Answer: B

Explanation:

Section: Security Operations

NEW QUESTION 573

- (Exam Topic 13)

Which of the following is the MOST appropriate action when reusing media that contains sensitive data?

- A. Erase
- B. Sanitize
- C. Encrypt
- D. Degauss

Answer: B

NEW QUESTION 575

- (Exam Topic 13)

A user has infected a computer with malware by connecting a Universal Serial Bus (USB) storage device. Which of the following is MOST effective to mitigate future infections?

- A. Develop a written organizational policy prohibiting unauthorized USB devices
- B. Train users on the dangers of transferring data in USB devices
- C. Implement centralized technical control of USB port connections
- D. Encrypt removable USB devices containing data at rest

Answer: C

NEW QUESTION 579

- (Exam Topic 13)

Which of the following alarm systems is recommended to detect intrusions through windows in a high-noise, occupied environment?

- A. Acoustic sensor
- B. Motion sensor
- C. Shock sensor
- D. Photoelectric sensor

Answer: C

NEW QUESTION 582

- (Exam Topic 13)

Which of the following is the GREATEST benefit of implementing a Role Based Access Control (RBAC) system?

- A. Integration using Lightweight Directory Access Protocol (LDAP)
- B. Form-based user registration process
- C. Integration with the organizations Human Resources (HR) system
- D. A considerably simpler provisioning process

Answer: D

NEW QUESTION 585

- (Exam Topic 13)

A company receives an email threat informing of an Imminent Distributed Denial of Service (DDoS) attack targeting its web application, unless ransom is paid. Which of the following techniques BEST addresses that threat?

- A. Deploying load balancers to distribute inbound traffic across multiple data centers
- B. Set Up Web Application Firewalls (WAFs) to filter out malicious traffic
- C. Implementing reverse web-proxies to validate each new inbound connection
- D. Coordinate with and utilize capabilities within Internet Service Provider (ISP)

Answer: D

NEW QUESTION 588

- (Exam Topic 13)

Which of the following is the BEST metric to obtain when gaining support for an Identify and Access Management (IAM) solution?

- A. Application connection successes resulting in data leakage

- B. Administrative costs for restoring systems after connection failure
- C. Employee system timeouts from implementing wrong limits
- D. Help desk costs required to support password reset requests

Answer: D

NEW QUESTION 591

- (Exam Topic 13)

In Disaster Recovery (DR) and Business Continuity (DC) training, which BEST describes a functional drill?

- A. a functional evacuation of personnel
- B. a specific test by response teams of individual emergency response functions
- C. an activation of the backup site
- D. a full-scale simulation of an emergency and the subsequent response functions.

Answer: D

NEW QUESTION 595

- (Exam Topic 13)

The MAIN use of Layer 2 Tunneling Protocol (L2TP) is to tunnel data

- A. through a firewall at the Session layer
- B. through a firewall at the Transport layer
- C. in the Point-to-Point Protocol (PPP)
- D. in the Payload Compression Protocol (PCP)

Answer: C

NEW QUESTION 596

- (Exam Topic 13)

A post-implementation review has identified that the Voice Over Internet Protocol (VoIP) system was designed to have gratuitous Address Resolution Protocol (ARP) disabled.

Why did the network architect likely design the VoIP system with gratuitous ARP disabled?

- A. Gratuitous ARP requires the use of Virtual Local Area Network (VLAN) 1.
- B. Gratuitous ARP requires the use of insecure layer 3 protocols.
- C. Gratuitous ARP requires the likelihood of a successful brute-force attack on the phone.
- D. Gratuitous ARP requires the risk of a Man-in-the-Middle (MITM) attack.

Answer: D

NEW QUESTION 600

- (Exam Topic 13)

“Stateful” differs from “Static” packet filtering firewalls by being aware of which of the following?

- A. Difference between a new and an established connection
- B. Originating network location
- C. Difference between a malicious and a benign packet payload
- D. Originating application session

Answer: A

NEW QUESTION 602

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