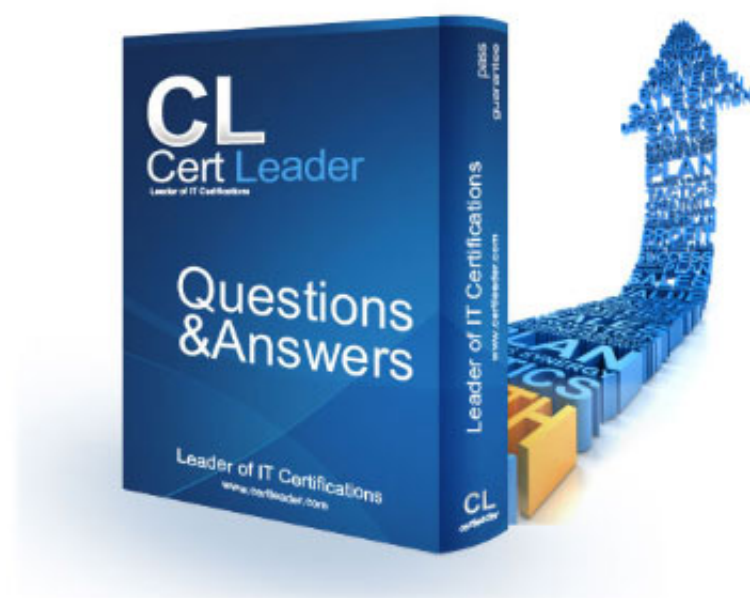


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NEW QUESTION 1

Company engineers regularly participate in a public Internet forum with other engineers throughout the industry. Which of the following tactics would an attacker MOST likely use in this scenario?

- A. Watering-hole attack
- B. Credential harvesting
- C. Hybrid warfare
- D. Pharming

Answer: A

NEW QUESTION 2

An organization needs to implement more stringent controls over administrator/root credentials and service accounts. Requirements for the project include:

- Check-in/checkout of credentials
- The ability to use but not know the password
- Automated password changes
- Logging of access to credentials

Which of the following solutions would meet the requirements?

- A. OAuth 2.0
- B. Secure Enclave
- C. A privileged access management system
- D. An OpenID Connect authentication system

Answer: D

NEW QUESTION 3

A cybersecurity department purchased a new PAM solution. The team is planning to randomize the service account credentials of the Windows server first. Which of the following would be the BEST method to increase the security on the Linux server?

- A. Randomize the shared credentials
- B. Use only guest accounts to connect.
- C. Use SSH keys and remove generic passwords
- D. Remove all user accounts.

Answer: C

NEW QUESTION 4

An organization that is located in a flood zone is MOST likely to document the concerns associated with the restoration of IT operation in a:

- A. business continuity plan
- B. communications plan.
- C. disaster recovery plan.
- D. continuity of operations plan

Answer: C

NEW QUESTION 5

A global pandemic is forcing a private organization to close some business units and reduce staffing at others. Which of the following would be BEST to help the organization's executives determine the next course of action?

- A. An incident response plan
- B. A communications plan
- C. A disaster recovery plan
- D. A business continuity plan

Answer: D

NEW QUESTION 6

An organization is concerned that its hosted web servers are not running the most updated version of the software. Which of the following would work BEST to help identify potential vulnerabilities?

- A. Hping3 -s comptia, org -p 80
- B. Nc -1 -v comptia, org -p 80
- C. nmap comptia, org -p 80 -aV
- D. nslookup -port=80 comptia.org

Answer: C

NEW QUESTION 7

A network engineer is troubleshooting wireless network connectivity issues that were reported by users. The issues are occurring only in the section of the building that is closest to the parking lot. Users are intermittently experiencing slow speeds when accessing websites and are unable to connect to network drives. The issues appear to increase when laptop users return desks after using their devices in other areas of the building. There have also been reports of users being

required to enter their credentials on web pages in order to gain access to them. Which of the following is the MOST likely cause of this issue?

- A. An external access point is engaging in an evil-twin attack.
- B. The signal on the WAP needs to be increased in that section of the building.
- C. The certificates have expired on the devices and need to be reinstalled.
- D. The users in that section of the building are on a VLAN that is being blocked by the firewall.

Answer: A

NEW QUESTION 8

Some laptops recently went missing from a locked storage area that is protected by keyless RFID-enabled locks. There is no obvious damage to the physical space. The security manager identifies who unlocked the door, however, human resources confirms the employee was on vacation at the time of the incident. Which of the following describes what MOST likely occurred?

- A. The employee's physical access card was cloned.
- B. The employee is colluding with human resources
- C. The employee's biometrics were harvested
- D. A criminal used lock picking tools to open the door.

Answer: A

NEW QUESTION 9

A security analyst receives the configuration of a current VPN profile and notices the authentication is only applied to the IP datagram portion of the packet. Which of the following should the analyst implement to authenticate the entire packet?

- A. AH
- B. ESP
- C. SRTP
- D. LDAP

Answer: B

NEW QUESTION 10

Select the appropriate attack and remediation from each drop-down list to label the corresponding attack with its remediation.

INSTRUCTIONS

Not all attacks and remediation actions will be used.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.

Attack Description	Target	Attack Identified	BEST Preventative or Remediation Action
An attacker sends multiple SYN packets from multiple sources	Web server	<div> <div>▼</div> <div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing </div> </div>	<div> <div>▼</div> <div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services </div> </div>
The attack establishes a connection, which allows remote commands to be executed.	User	<div> <div>▼</div> <div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing </div> </div>	<div> <div>▼</div> <div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services </div> </div>
The attack is self propagating and compromises a SQL database using well-known credentials as it moves through the network	Database server	<div> <div>▼</div> <div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing </div> </div>	<div> <div>▼</div> <div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services </div> </div>
The attacker uses hardware to remotely monitor a user's input activity to harvest credentials.	Executive	<div> <div>▼</div> <div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing </div> </div>	<div> <div>▼</div> <div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services </div> </div>
The attacker embeds hidden access in an internally developed application that bypasses account login	Application	<div> <div>▼</div> <div> Botnet RAT Logic Bomb Backdoor Virus Spyware Worm Adware Ransomware Keylogger Phishing </div> </div>	<div> <div>▼</div> <div> Enable DDoS protection Patch vulnerable systems Disable vulnerable services Change the default system password Update the cryptographic algorithms Change the default application password Implement 2FA using push notification Conduct a code review Implement application fuzzing Implement a host-based IPS Disable remote access services </div> </div>

- A. Mastered
B. Not Mastered

Answer: A

Explanation:

Attack Description	Target	Attack Identified	BEST Preventative or Remediation Action
An attacker sends multiple SYN packets from multiple sources	Web server	<div> <div>Botnet</div> <div>RAT</div> <div>Logic Bomb</div> <div>Backdoor</div> <div>Virus</div> <div>Spyware</div> <div>Worm</div> <div>Adware</div> <div>Ransomware</div> <div>Keylogger</div> <div>Phishing</div> </div>	<div> <div>Enable DDoS protection</div> <div>Patch vulnerable systems</div> <div>Disable vulnerable services</div> <div>Change the default system password</div> <div>Update the cryptographic algorithms</div> <div>Change the default application password</div> <div>Implement 2FA using push notification</div> <div>Conduct a code review</div> <div>Implement application fuzzing</div> <div>Implement a host-based IPS</div> <div>Disable remote access services</div> </div>
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NEW QUESTION 10

A security analyst needs to be proactive in understand the types of attacks that could potentially target the company's execute. Which of the following intelligence sources should to security analyst review?

- A. Vulnerability feeds
- B. Trusted automated exchange of indicator information
- C. Structured threat information expression
- D. Industry information-sharing and collaboration groups

Answer: D

NEW QUESTION 11

Users have been issued smart cards that provide physical access to a building. The cards also contain tokens that can be used to access information systems. Users can log m to any thin client located throughout the building and see the same desktop each time. Which of the following technologies are being utilized to provide these capabilities? (Select TWO)

- A. COPE
- B. VDI
- C. GPS
- D. TOTP
- E. RFID
- F. BYOD

Answer: BE

NEW QUESTION 15

A security analyst needs to generate a server certificate to be used for 802.1X and secure RDP connections. The analyst is unsure what is required to perform the task and solicits help from a senior colleague. Which of the following is the FIRST step the senior colleague will most likely tell the analyst to perform to accomplish this task?

- A. Create an OCSP

- B. Generate a CSR
- C. Create a CRL
- D. Generate a .pfx file

Answer: B

NEW QUESTION 17

A worldwide manufacturing company has been experiencing email account compromised. In one incident, a user logged in from the corporate office in France, but then seconds later, the same user account attempted a login from Brazil. Which of the following account policies would BEST prevent this type of attack?

- A. Network location
- B. Impossible travel time
- C. Geolocation
- D. Geofencing

Answer: D

NEW QUESTION 21

Which of the following refers to applications and systems that are used within an organization without consent or approval?

- A. Shadow IT
- B. OSINT
- C. Dark web
- D. Insider threats

Answer: A

NEW QUESTION 24

A network administrator needs to build out a new datacenter, with a focus on resiliency and uptime. Which of the following would BEST meet this objective? (Choose two.)

- A. Dual power supply
- B. Off-site backups
- C. Automatic OS upgrades
- D. NIC teaming
- E. Scheduled penetration testing
- F. Network-attached storage

Answer: AB

NEW QUESTION 26

A security audit has revealed that a process control terminal is vulnerable to malicious users installing and executing software on the system. The terminal is beyond end-of-life support and cannot be upgraded, so it is placed on a projected network segment. Which of the following would be MOST effective to implement to further mitigate the reported vulnerability?

- A. DNS sinkholding
- B. DLP rules on the terminal
- C. An IP blacklist
- D. Application whitelisting

Answer: D

NEW QUESTION 31

A company uses wireless for all laptops and keeps a very detailed record of its assets, along with a comprehensive list of devices that are authorized to be on the wireless network. The Chief Information Officer (CIO) is concerned about a script kiddie potentially using an unauthorized device to brute force the wireless PSK and obtain access to the internal network. Which of the following should the company implement to BEST prevent this from occurring?

- A. A BPDU guard
- B. WPA-EAP
- C. IP filtering
- D. A WIDS

Answer: B

NEW QUESTION 36

An organization wants to implement a third factor to an existing multifactor authentication. The organization already uses a smart card and password. Which of the following would meet the organization's needs for a third factor?

- A. Date of birth
- B. Fingerprints
- C. PIN
- D. TPM

Answer: B

NEW QUESTION 37

Which of the following describes the ability of code to target a hypervisor from inside

- A. Fog computing
- B. VM escape
- C. Software-defined networking
- D. Image forgery
- E. Container breakout

Answer: B

NEW QUESTION 40

A company provides mobile devices to its users to permit access to email and enterprise applications. The company recently started allowing users to select from several different vendors and device models. When configuring the MDM, which of the following is a key security implication of this heterogeneous device approach?

- A. The most common set of MDM configurations will become the effective set of enterprise mobile security controls.
- B. All devices will need to support SCEP-based enrollment; therefore, the heterogeneity of the chosen architecture may unnecessarily expose private keys to adversaries.
- C. Certain devices are inherently less secure than others, so compensatory controls will be needed to address the delta between device vendors.
- D. MDMs typically will not support heterogeneous deployment environments, so multiple MDMs will need to be installed and configured.

Answer: C

NEW QUESTION 43

A university with remote campuses, which all use different service providers, loses Internet connectivity across all locations. After a few minutes, Internet and VoIP services are restored, only to go offline again at random intervals, typically within four minutes of services being restored. Outages continue throughout the day, impacting all inbound and outbound connections and services. Services that are limited to the local LAN or WiFi network are not impacted, but all WAN and VoIP services are affected.

Later that day, the edge-router manufacturer releases a CVE outlining the ability of an attacker to exploit the SIP protocol handling on devices, leading to resource exhaustion and system reloads. Which of the following BEST describe this type of attack? (Choose two.)

- A. DoS
- B. SSL stripping
- C. Memory leak
- D. Race condition
- E. Shimming
- F. Refactoring

Answer: AD

NEW QUESTION 47

An organization's help desk is flooded with phone calls from users stating they can no longer access certain websites. The help desk escalates the issue to the security team, as these websites were accessible the previous day. The security analysts run the following command: `ipconfig /flushdns`, but the issue persists. Finally, an analyst changes the DNS server for an impacted machine, and the issue goes away. Which of the following attacks MOST likely occurred on the original DNS server?

- A. DNS cache poisoning
- B. Domain hijacking
- C. Distributed denial-of-service
- D. DNS tunneling

Answer: B

NEW QUESTION 48

A network administrator has been asked to design a solution to improve a company's security posture. The administrator is given the following requirements:

- The solution must be inline in the network
- The solution must be able to block known malicious traffic
- The solution must be able to stop network-based attacks

Which of the following should the network administrator implement to BEST meet these requirements?

- A. HIDS
- B. NIDS
- C. HIPS
- D. NIPS

Answer: D

NEW QUESTION 53

A host was infected with malware. During the incident response, Joe, a user, reported that he did not receive any emails with links, but he had been browsing the Internet all day. Which of the following would MOST likely show where the malware originated?

- A. The DNS logs
- B. The web server logs
- C. The SIP traffic logs
- D. The SNMP logs

Answer: A

NEW QUESTION 58

Which of the following would MOST likely support the integrity of a voting machine?

- A. Asymmetric encryption
- B. Blockchain
- C. Transport Layer Security
- D. Perfect forward secrecy

Answer: D

NEW QUESTION 60

An organization has been experiencing outages during holiday sales and needs to ensure availability of its point-of-sale systems. The IT administrator has been asked to improve both server-data fault tolerance and site availability under high consumer load. Which of the following are the BEST options to accomplish this objective? (Select TWO)

- A. Load balancing
- B. Incremental backups
- C. UPS
- D. RAID
- E. Dual power supply
- F. NIC teaming

Answer: AD

NEW QUESTION 65

During an incident response, a security analyst observes the following log entry on the web server.

```
GET http://www.companysite.com/product_info.php?show=../../../../etc/passwd HTTP/1.1
Host: www.companysite.com
```

Which of the following BEST describes the type of attack the analyst is experiencing?

- A. SQL injection
- B. Cross-site scripting
- C. Pass-the-hash
- D. Directory traversal

Answer: B

NEW QUESTION 69

A network administrator has been alerted that web pages are experiencing long load times. After determining it is not a routing or DNS issue, the administrator logs in to the router, runs a command, and receives the following output:

```
CPU 0 percent busy, from 300 sec ago
1 sec ave: 99 percent busy
5 sec ave: 97 percent busy
1 min ave: 83 percent busy
```

Which of the following is the router experiencing?

- A. DDoS attack
- B. Memory leak
- C. Buffer overflow
- D. Resource exhaustion

Answer: D

NEW QUESTION 74

A security analyst receives a SIEM alert that someone logged in to the appadmin test account, which is only used for the early detection of attacks. The security analyst then reviews the following application log:

```
...
[03/06/20xx:17:20:18] system 127.0.0.1 FindXPath=//User[Username/text()='foo' or 7=7 or 'o'='o' And Password/text()='bar']
[03/06/20xx:17:21:18] appadmin 194.28.114.102 action:login result:success
[03/06/20xx:17:22:18] appadmin 194.28.114.102 action:open.account(12345) result:fail
[03/06/20xx:17:23:18] appadmin 194.28.114.102 action:open.account(23456) result:fail
[03/06/20xx:17:23:18] appadmin 194.28.114.102 action:open.account(23456) result:fail
[03/06/20xx:17:23:18] appadmin 194.28.114.102 action:open.account(45678) result:fail
```

Which of the following can the security analyst conclude?

- A. A replay attack is being conducted against the application.
- B. An injection attack is being conducted against a user authentication system.
- C. A service account password may have been changed, resulting in continuous failed logins within the application.
- D. A credentialed vulnerability scanner attack is testing several CVEs against the application.

Answer: C

NEW QUESTION 77

A Chief Executive Officer's (CEO) personal information was stolen in a social engineering attack. Which of the following sources would reveal if the CEO's personal information is for sale?

- A. Automated information sharing
- B. Open-source intelligence
- C. The dark web
- D. Vulnerability databases

Answer: C

NEW QUESTION 82

A company needs to centralize its logs to create a baseline and have visibility on its security events. Which of the following technologies will accomplish this objective?

- A. Security information and event management
- B. A web application firewall
- C. A vulnerability scanner
- D. A next-generation firewall

Answer: A

NEW QUESTION 84

A network engineer notices the VPN concentrator overloaded and crashes on days when there are a lot of remote workers. Senior management has placed greater importance on the availability of VPN resources for the remote workers than the security of the end users' traffic. Which of the following would be BEST to solve this issue?

- A. IPSec
- B. Always On
- C. Split tunneling
- D. L2TP

Answer: B

NEW QUESTION 85

Which of the following would be the BEST method for creating a detailed diagram of wireless access points and hot-spots?

- A. Footprinting
- B. White-box testing
- C. A drone/UAV
- D. Pivoting

Answer: A

NEW QUESTION 90

An organization has decided to host its web application and database in the cloud. Which of the following BEST describes the security concerns for this decision?

- A. Access to the organization's servers could be exposed to other cloud-provider clients
- B. The cloud vendor is a new attack vector within the supply chain
- C. Outsourcing the code development adds risk to the cloud provider
- D. Vendor support will cease when the hosting platforms reach EOL.

Answer: B

NEW QUESTION 94

An analyst visits an internet forum looking for information about a tool. The analyst finds a threat that appears to contain relevant information. One of the posts says the following:



Hello everyone,
I am having the same problem with my server. Can you help me?

```
<script type="text/javascript" src=http://website.com/user.js>  
onload=sqlexec();  
</script>
```

Thank you,

Joe

Which of the following BEST describes the attack that was attempted against the forum readers?

- A. SOU attack
- B. DLL attack
- C. XSS attack
- D. API attack

Answer: C

NEW QUESTION 98

An organization has implemented a policy requiring the use of conductive metal lockboxes for personal electronic devices outside of a secure research lab. Which of the following did the organization determine to be the GREATEST risk to intellectual property when creating this policy?

- A. The theft of portable electronic devices
- B. Geotagging in the metadata of images
- C. Bluesnarfing of mobile devices
- D. Data exfiltration over a mobile hotspot

Answer: D

NEW QUESTION 99

An incident response technician collected a mobile device during an investigation. Which of the following should the technician do to maintain chain of custody?

- A. Document the collection and require a sign-off when possession changes.
- B. Lock the device in a safe or other secure location to prevent theft or alteration.
- C. Place the device in a Faraday cage to prevent corruption of the data.
- D. Record the collection in a blockchain-protected public ledger.

Answer: A

NEW QUESTION 104

An organization just experienced a major cyberattack modem. The attack was well coordinated sophisticated and highly skilled. Which of the following targeted the organization?

- A. Shadow IT
- B. An insider threat
- C. A hacktivist
- D. An advanced persistent threat

Answer: D

NEW QUESTION 105

When selecting a technical solution for identity management, an architect chooses to go from an in-house to a third-party SaaS provider. Which of the following risk management strategies is this an example of?

- A. Acceptance
- B. Mitigation
- C. Avoidance
- D. Transference

Answer: D

NEW QUESTION 106

A company is implementing MFA for all applications that store sensitive data. The IT manager wants MFA to be non-disruptive and user friendly. Which of the following technologies should the IT manager use when implementing MFA?

- A. One-time passwords
- B. Email tokens
- C. Push notifications
- D. Hardware authentication

Answer: C

NEW QUESTION 110

While checking logs, a security engineer notices a number of end users suddenly downloading files with the .tar.gz extension. Closer examination of the files reveals they are PE32 files. The end users state they did not initiate any of the downloads. Further investigation reveals the end users all clicked on an external email containing an infected MHT file with an href link a week prior. Which of the following is MOST likely occurring?

- A. A RAT was installed and is transferring additional exploit tools.
- B. The workstations are beaconing to a command-and-control server.
- C. A logic bomb was executed and is responsible for the data transfers.
- D. A fireless virus is spreading in the local network environment.

Answer: A

NEW QUESTION 111

Which of the following types of controls is a turnstile?

- A. Physical
- B. Detective
- C. Corrective
- D. Technical

Answer: A

NEW QUESTION 113

A company is adopting a BYOD policy and is looking for a comprehensive solution to protect company information on user devices. Which of the following solutions would BEST support the policy?

- A. Mobile device management
- B. Full-device encryption
- C. Remote wipe
- D. Biometrics

Answer: A

NEW QUESTION 114

An organization is developing a plan in the event of a complete loss of critical systems and data. Which of the following plans is the organization MOST likely developing?

- A. Incident response
- B. Communications
- C. Disaster recovery
- D. Data retention

Answer: C

NEW QUESTION 116

A financial analyst is expecting an email containing sensitive information from a client. When the email arrives, the analyst receives an error and is unable to open the encrypted message. Which of the following is the MOST likely cause of the issue?

- A. The S/MIME plug-in is not enabled.
- B. The SLL certificate has expired.
- C. Secure IMAP was not implemented
- D. POP3S is not supported.

Answer: A

NEW QUESTION 117

Which of the following would be the BEST resource for a software developer who is looking to improve secure coding practices for web applications?

- A. OWASP
- B. Vulnerability scan results
- C. NIST CSF
- D. Third-party libraries

Answer: A

NEW QUESTION 118

A network administrator is setting up wireless access points in all the conference rooms and wants to authenticate device using PKI. Which of the following should the administrator configure?

- A. A captive portal
- B. PSK
- C. 802.1X
- D. WPS

Answer: C

NEW QUESTION 122

The CSIRT is reviewing the lessons learned from a recent incident. A worm was able to spread unhindered throughout the network and infect a large number of computers and servers. Which of the following recommendations would be BEST to mitigate the impacts of a similar incident in the future?

- A. Install a NIDS device at the boundary.
- B. Segment the network with firewalls.
- C. Update all antivirus signatures daily.
- D. Implement application blacklisting.

Answer: B

NEW QUESTION 124

A small business just recovered from a ransomware attack against its file servers by purchasing the decryption keys from the attackers. The issue was triggered by a phishing email and the IT administrator wants to ensure it does not happen again. Which of the following should the IT administrator do FIRST after recovery?

- A. Scan the NAS for residual or dormant malware and take new daily backups that are tested on a frequent basis
- B. Restrict administrative privileges and patch all systems and applications.
- C. Rebuild all workstations and install new antivirus software
- D. Implement application whitelisting and perform user application hardening

Answer: A

NEW QUESTION 127

A pharmaceutical sales representative logs on to a laptop and connects to the public WiFi to check emails and update reports. Which of the following would be BEST to prevent other devices on the network from directly accessing the laptop? (Choose two.)

- A. Trusted Platform Module
- B. A host-based firewall
- C. A DLP solution
- D. Full disk encryption
- E. A VPN
- F. Antivirus software

Answer: AB

NEW QUESTION 131

An end user reports a computer has been acting slower than normal for a few weeks. During an investigation, an analyst determines the system is sending the user's email address and a ten-digit number to an IP address once a day. The only recent log entry regarding the user's computer is the following:

```
Time: 06:32:29 UTC
Event Description: This file meets the ML algorithm's medium-confidence threshold.
Process Blocked: False
File Quarantined: False
Operating System: Windows 10
File Name: \Device\HarddiskVolume4\Users\jdoe\AppData\Local\Microsoft\Windows\INetCache\IE\pdftodocx.msi
Connection Details: 35.242.219.204:80
```

Which of the following is the MOST likely cause of the issue?

- A. The end user purchased and installed a PUP from a web browser
- B. A bot on the computer is brute forcing passwords against a website
- C. A hacker is attempting to exfiltrate sensitive data
- D. Ransomware is communicating with a command-and-control server.

Answer: A

NEW QUESTION 133

Which of the following ISO standards is certified for privacy?

- A. ISO 9001
- B. ISO 27002
- C. ISO 27701
- D. ISO 31000

Answer: C

NEW QUESTION 134

.....

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