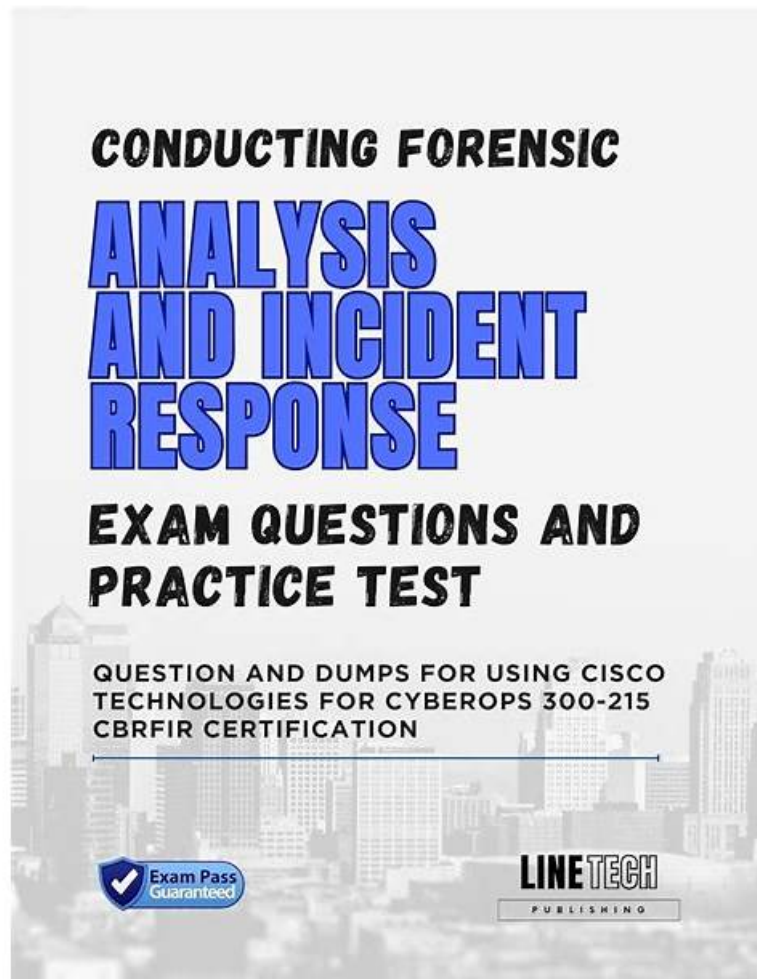


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Exam Topics

This certification test includes five various domains. Each of them focuses on the specific skills that the examinees must develop in advance. The details of these topics are enumerated below:

Fundamentals: This section requires that the candidates demonstrate their competence in performing the following tasks:

- Describing the roles of debuggers and disassemblers (for instance, Radare, Ghidra, and Evans Debugger) in performing basic malware analysis
- Describing the issues affiliated with collecting evidence from the virtualized environments
- Describing the roles of hex editors (for example, Hexfiend, HxD, and Hiew) in DFIR investigations
- Explaining the process of performing forensics analysis of infrastructure network devices
- Describing antiforensic techniques, tactics, and procedures
- Analyzing the components that are required for a root cause analysis report

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Cisco 300-215 exam is designed to test the candidates' ability to handle real-world cybersecurity scenarios. They will be tested on their ability to identify, analyze, and respond to various security incidents such as malware infections, network intrusions, and data breaches. 300-215 exam will also assess the candidates' ability to communicate their findings and recommendations effectively.

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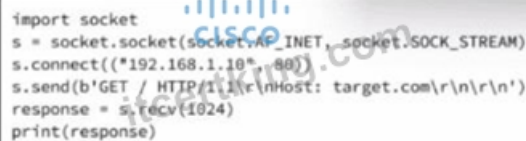
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Cisco Conducting Forensic Analysis & Incident Response Using Cisco Technologies for CyberOps Sample Questions (Q39-Q44):

NEW QUESTION # 39

Refer to the exhibit.



```
import socket
s = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
s.connect(('192.168.1.10', 80))
s.send(b'GET / HTTP/1.1\r\nHost: target.com\r\n\r\n')
response = s.recv(1024)
print(response)
```

A cybersecurity analyst is presented with the snippet of code used by the threat actor and left behind during the latest incident and is asked to determine its type based on its structure and functionality. What is the type of code being examined?

- A. basic web crawler for indexing website content
- B. socket programming listener for TCP/IP communication
- C. network monitoring script for capturing incoming traffic
- D. simple client-side script for downloading other elements

Answer: B

Explanation:

The Python code snippet:

- * Uses `socket.socket(AF_INET, SOCK_STREAM)`, which indicates TCP communication
- * Connects to a remote server (192.168.1.10 on port 80)
- * Sends a manual HTTP GET request
- * Receives the response using `s.recv()`

This is a classic example of TCP/IP socket programming, specifically creating a simple TCP client to communicate with a web server. It does not monitor traffic or crawl websites - it sends a crafted request and prints the response.

Thus, this code best fits:

D). socket programming listener for TCP/IP communication.

NEW QUESTION # 40

Which tool conducts memory analysis?

- A. MemDump
- B. Sysinternals Autoruns
- C. Volatility
- D. Memoryze

Answer: C

NEW QUESTION # 41

```
import re
from collections import Counter

def apache_log_reader(logfile):
    myregex = 

    with open(logfile) as f:
        log = f.read()
        my_iplist = re.findall(myregex, log)
        ipcount = Counter(my_iplist)
        for k, v in ipcount.items():
            print("IP Address " + "=> " + str(k) + " " + "Count " + "=> " + str(v))

# Create entry point of our code
if __name__ == '__main__':
    apache_log_reader("access_log")
```

Refer to the exhibit. A network administrator creates an Apache log parser by using Python. What needs to be added in the box where the code is missing to accomplish the requirement?

- A. `r'\d(1,3),\d(1,3),\d{13}.df{1,3}'`
- B. `r'*\b'`
- C. `r'\d{1,3}.\d{1,3}.\d{1,3}.\d{1,3}'`
- D. `r'^b{1-9}[0-9]\b'`

Answer: C

Explanation:

The goal of the given Python code is to parse an Apache access log and extract IP addresses using regular expressions (regex). In this context, the most appropriate regex pattern to extract IPv4 addresses from log data is:

`*r'\d{1,3}.\d{1,3}.\d{1,3}.\d{1,3}'`

This pattern matches typical IPv4 addresses, where each octet consists of 1 to 3 digits separated by periods.

For example, it matches addresses like 192.168.1.1 or 10.0.0.123. The pattern uses:

- * `\d{1,3}` to capture between 1 and 3 digits,
- * `\.` to match the dot (escaped since `.` is a special character in regex),
- * repeated 4 times with proper separation to form the full IPv4 structure.

Options A, B, and C either include incorrect syntax, improper escape sequences, or do not represent a valid IP address pattern.

This type of log analysis and pattern extraction is described in the Cisco CyberOps Associate curriculum under basic scripting and automation techniques used in log and artifact analysis.

Reference: CyberOps Technologies (CBRFIR) 300-215 study guide, Section: "Basic Python Scripting for Security Analysts" and "Log Analysis and Data Extraction using Regex."

NEW QUESTION # 42

Refer to the exhibit.

```

<stix:Indicator id= "CISA:Indicator-18559cbf-57ce-49ba-bb73-2bdf5426744c" timestamp= "2020-04-08T00:44:39.970278+00:00" xsi:type= "indicator:IndicatorType">
<indicator:Title>Malicious FQDN Indicator</indicator:Title>
<indicator:Observable id= "CISA:Observable-dd7a25ea-830f-46cd-9d2a-d7b5aa354f89">
<cybox:Object id= "CISA:Object-a2169ad2-5273-41cb-9491-48c69b22da74">
<cybox:Properties xsi:type= "DomainNameObj:DomainNameObjectType" type= "FQDN">
<DomainNameObj:Value condition= "Equals" >Fightcovid19.shop</DomainNameObj:Value>
</cybox:Properties>
</cybox:Object>
</indicator:Observable>
</stix:Indicator>
<stix:Indicator id= "CISA:Indicator-2035a032-6b8d-4dd9-8752-7316af76e702" timestamp= "2020-04-08T00:44:39.970417+00:00" xsi:type= "indicator:IndicatorType">
<indicator:Title>Malicious FQDN Indicator</indicator:Title>
<indicator:Observable id= "CISA:Observable-463472d3-e45e-46c1-bf05-da7458cb943c">
<cybox:Object id= "CISA:Object-7728bd69-e724-4917-9550-9ae853becf28">
<cybox:Properties xsi:type= "DomainNameObj:DomainNameObjectType" type= "FQDN">
<DomainNameObj:Value condition= "Equals">nocovid19.shop</DomainNameObj:Value>
</cybox:Properties>
</cybox:Object>
</indicator:Observable>
</stix:Indicator>
<stix:Indicator id= "CISA:Indicator-8b56999b-a015-4399-ab80-cca9bc7ebf" timestamp= "2020-04-08T00:44:39.970554+00:00" xsi:type= "indicator:IndicatorType">
<indicator:Title>Malicious FQDN Indicator</indicator:Title>
<indicator:Observable id= "CISA:Observable-0648e1db-aa4e-4aca-914e-ea0ccd445254">
<cybox:Object id= "CISA:Object-db21b6ca-0c1b-474d-8bf7-950ead2d9760">
<cybox:Properties xsi:type= "DomainNameObj:DomainNameObjectType" type= "FQDN">
<DomainNameObj:Value condition= "Equals">stopcovid19.shop</DomainNameObj:Value>
</cybox:Properties>
</cybox:Object>
</indicator:Observable>
</stix:Indicator>

```

Which two actions should be taken based on the intelligence information? (Choose two.)

- A. Block network access to all .shop domains
- B. Use the DNS server to block hole all .shop requests.
- C. Block network access to identified domains.
- D. Add a SIEM rule to alert on connections to identified domains.
- E. Route traffic from identified domains to block hole.

Answer: C,D

NEW QUESTION # 43

Which technique is used to evade detection from security products by executing arbitrary code in the address space of a separate live operation?

- A. process injection
- B. token manipulation
- C. GPO modification
- D. privilege escalation

Answer: A

NEW QUESTION # 44

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