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CheckPoint 156-587 Exam Syllabus Topics:

| Topic | Details |
|---------|---|
| Topic 1 | <ul style="list-style-type: none">Advanced Troubleshooting with Logs and Events: This section of the exam measures the skills of Check Point Security Administrators and covers the analysis of logs and events for troubleshooting. Candidates will learn how to interpret log data to identify issues and security threats effectively. |
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| Topic 2 | <ul style="list-style-type: none"> Advanced Firewall Kernel Debugging: This section of the exam measures the skills of Check Point Network Security Administrators and focuses on kernel-level debugging for firewalls. Candidates will learn how to analyze kernel logs and troubleshoot firewall-related issues at a deeper level. |
| Topic 3 | <ul style="list-style-type: none"> Advanced Site-to-Site VPN Troubleshooting: This section of the exam measures the skills of Check Point System Administrators and covers troubleshooting site-to-site VPN connections. |
| Topic 4 | <ul style="list-style-type: none"> Advanced Management Server Troubleshooting: This section of the exam measures the skills of Check Point System Administrators and focuses on troubleshooting management servers. It emphasizes understanding server architecture and diagnosing problems related to server performance and connectivity. |
| Topic 5 | <ul style="list-style-type: none"> Advanced Identity Awareness Troubleshooting: This section of the exam measures the skills of Check Point Security Consultants and focuses on troubleshooting identity awareness systems. |
| Topic 6 | <ul style="list-style-type: none"> Advanced Gateway Troubleshooting: This section of the exam measures the skills of Check Point Network Security Engineers and addresses troubleshooting techniques specific to gateways. It includes methods for diagnosing connectivity issues and optimizing gateway performance. |

CheckPoint Check Point Certified Troubleshooting Expert - R81.20 Sample Questions (Q105-Q110):

NEW QUESTION # 105

What is the simplest and most efficient way to check all dropped packets in real time?

- A. `fw ctl zdebug + drop` in expert mode
- B. `cat /dev/fw1/log` in expert mode
- C. Smartlog
- D. `tail -f $FWDIR/log/fw.log |grep drop` in expert mode

Answer: A

Explanation:

The simplest and most efficient way to check all dropped packets in real time is C. `fw ctl zdebug + drop` in expert mode. This command is a shortcut command that sets the kernel debug flags to a predefined value and prints the debug output to the standard output. It is useful for general debugging of common issues, such as traffic drops, NAT, VPN, or clustering. It has a small buffer size and does not require additional steps to start or stop the debugging. However, it has some limitations, such as it cannot be used with SecureXL, it cannot filter the output by chain modules, and it cannot save the output to a file¹².

The other commands are not as simple or efficient as the `fw ctl zdebug + drop` command. The command `tail -f $FWDIR/log/fw.log |grep drop` in expert mode will only show the drops that are logged in the `fw.log` file, which may not include all the drops that occur in the kernel. The command `cat /dev/fw1/log` in expert mode will show the raw binary data of the kernel debug buffer, which is not human-readable and may contain irrelevant information. The command Smartlog will show the drops that are indexed and stored in the SmartEvent database, which may not be in real time and may depend on the log server performance¹².

1:

https://sc1.checkpoint.com/documents/R81.10/WebAdminGuides/EN/CP_R81.10_AdvancedTechnicalReferenceGuide/html_frameset.htm

2: <https://www.checkpoint.com/downloads/training/DOC-Training-Data-Sheet-CCTE-R81.10-V1.0.pdf> The Check Point R81.20 Gaia Administration Guide describes `fw ctl zdebug` as a key troubleshooting tool for real-time packet analysis, particularly for drops. The CCTE R81.20 course emphasizes using `fw ctl zdebug` for kernel-level debugging, including monitoring dropped packets.

For precise details, refer to:

Check Point R81.20 Gaia Administration Guide, section on "fw ctl zdebug" (available via Check Point Support Center).

CCTE R81.20 Courseware, which covers advanced troubleshooting techniques for packet drops (available through authorized training partners).

NEW QUESTION # 106

What is the Security Gateway directory where an administrator can find vpn debug log files generated during Site-to-Site VPN troubleshooting?

- A. `SFWDIR/conf/`
- B. `opt/CPsuiteR80/vpn/log/`
- C. `SCPDIR/conf/`
- D. `SFWDIR/log/`

Answer: D

Explanation:

The correct directory where an administrator can find vpn debug log files generated during Site-to-Site VPN troubleshooting is \$FWDIR/log/. This directory contains the following files related to vpn debug:

vpnd.elg: This file contains the high-level VPN debug information, such as the VPN tunnel establishment, deletion, and negotiation messages. It can be enabled by using the vpn debug on command on the Security Gateway CLI.

legacy_ike.elg: This file contains the low-level IKE debug information for IKEv1, such as the IKE packets, encryption, decryption, and authentication. It can be enabled by using the vpn debug ikeon command on the Security Gateway CLI.

legacy_ikev2.xml: This file contains the low-level IKE debug information for IKEv2, such as the IKE packets, encryption, decryption, and authentication. It can be enabled by using the vpn debug ikev2on command on the Security Gateway CLI.

These files can be viewed by using the vpn debug view command on the Security Gateway CLI, or by using the IKEView tool on the Security Management Server GUI.

Reference:

vpn debug - Check Point Software

IKE Debug on R81 and above - Check Point CheckMates

(CCTE) - Check Point Software

NEW QUESTION # 107

In Mobile Access VPN, clientless access is done using a web browser. The primary communication path for these browser based connections is a process that allows numerous processes to utilize port 443 and redirects traffic to a designated port of the respective process.

Which daemon handles this?

- **A. Multi-portal Daemon**
- B. Mobile Access Daemon (MAD)
- C. Connectra VPN Daemon (cypnd)
- D. HTTPS Inspection Daemon (HID)

Answer: A

NEW QUESTION # 108

Troubleshooting issues with Mobile Access requires the following:

- **A. Standard VPN debugs, packet captures and debugs of cypnd1 process on Security Gateway**
- B. Debug logs of FWD captured with the command - 'fw debug fwd on TDERROR_MOBILE_ACCESS=5'
- C. 'ma_vpnd' process on Security Gateway
- D. Standard VPN debugs and packet captures on Security Gateway, debugs of 'cypnd' process on Security Management

Answer: A

NEW QUESTION # 109

Which of the following inputs is suitable for debugging HTTPS inspection issues?

- A. vpn debug cpts on
- B. fw diag debug tls enable
- C. fw debug tls on TDERROR_ALL_ALL=5
- **D. fw ctl debug -m fw + conn drop cpts**

Answer: D

NEW QUESTION # 110

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For the Check Point Certified Troubleshooting Expert - R81.20 (156-587) web-based practice exam no special software installation is required. Because it is a browser-based Check Point Certified Troubleshooting Expert - R81.20 (156-587) practice test. The web-based Check Point Certified Troubleshooting Expert - R81.20 (156-587) practice exam works on all operating systems like Mac, Linux, iOS,

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