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CheckPoint 156-587 Exam Syllabus Topics:

Topic	Details
Topic 1	<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 2	<ul style="list-style-type: none">Advanced Access Control Troubleshooting: This section of the exam measures the skills of Check Point System Administrators in demonstrating expertise in troubleshooting access control mechanisms. It involves understanding user permissions and resolving authentication issues.
Topic 3	<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.

Topic 4	<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 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 (Q91-Q96):

NEW QUESTION # 91

The Check Point Firewall Kernel is the core component of the Gaia operating system and an integral part of the traffic inspection process. There are two procedures available for debugging the firewall kernel. Which procedure/command is used for troubleshooting packet drops and other kernel activities while using minimal resources (1 MB buffer)?

- A. fw ctl debug/kdebug
- B. fw ctl zdebug
- C. fw debug ctl
- D. fwk ell debug

Answer: B

NEW QUESTION # 92

SmartEvent utilizes the Log Server, Correlation Unit and SmartEvent Server to aggregate logs and identify security events. The three main processes that govern these SmartEvent components are:

- A. fwd, secu, sesrv
- B. eventiasv, eventiar, eventiacu
- C. cpcu, cplog, cpse
- D. cpsemd, cpsead, and DBSync

Answer: B

Explanation:

SmartEvent is a unified security event management and analysis solution that collects and analyzes data from multiple sources to identify and respond to security threats. SmartEvent consists of three main components: Log Server, Correlation Unit, and SmartEvent Server¹.

The three main processes that govern these SmartEvent components are:

eventiasv: This process is responsible for indexing the logs received from the Log Server and storing them in the SmartEvent database. It also performs log consolidation and compression to optimize the disk space usage².

eventiar: This process is responsible for running the predefined and custom correlation rules on the indexed logs and generating security events based on the rule criteria. It also sends notifications and triggers automatic responses for the security events³.

eventiacu: This process is responsible for providing the web-based user interface for SmartEvent, which allows the administrators to view, analyze, and manage the security events. It also provides the SmartEvent API for external integration⁴. Reference: Check Point Processes and Daemons⁵, SmartEvent Administration Guide¹

1: https://sc1.checkpoint.com/documents/R81.10/WebAdminGuides/EN/CP_R81.10_SmartEvent_AdminGuide/html_frameset.htm 2:

https://sc1.checkpoint.com/documents/R81.10/WebAdminGuides/EN/CP_R81.10_SmartEvent_AdminGuide/Content/Topics-SmartEvent/SmartEvent-Components.htm#_Toc64167467 3:

https://sc1.checkpoint.com/documents/R81.10/WebAdminGuides/EN/CP_R81.10_SmartEvent_AdminGuide/Content/Topics-SmartEvent/SmartEvent-Components.htm#_Toc64167468 4:

https://sc1.checkpoint.com/documents/R81.10/WebAdminGuides/EN/CP_R81.10_SmartEvent_AdminGuide/Content/Topics-SmartEvent/SmartEvent-Components.htm#_Toc64167469 5: [https://supportcenter.checkpoint.com/supportcenter/portal?](https://supportcenter.checkpoint.com/supportcenter/portal?eventSubmit_doGoviewsolutiondetails=&solutionid=sk97638)

[eventSubmit_doGoviewsolutiondetails=&solutionid=sk97638](https://supportcenter.checkpoint.com/supportcenter/portal?eventSubmit_doGoviewsolutiondetails=&solutionid=sk97638)

NEW QUESTION # 93

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. tail -f \$FWDIR/log/fw.log |grep drop in expert mode
- D. Smartlog

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 # 94

When URL category is not found in the kernel cache, what action will GW do?

- A. RAD forwards this request to CMI which is the brain of inspection
- B. RAD in kernel space will forward request to the cloud
- C. **RAD In user space will forward request to the cloud**
- D. GW will update kernel cache during next policy install

Answer: C

NEW QUESTION # 95

Packet processing infrastructure consists of the following components EXCEPT:

- A. **Client**
- B. Manager
- C. Classifiers
- D. Observers

Answer: A

NEW QUESTION # 96

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