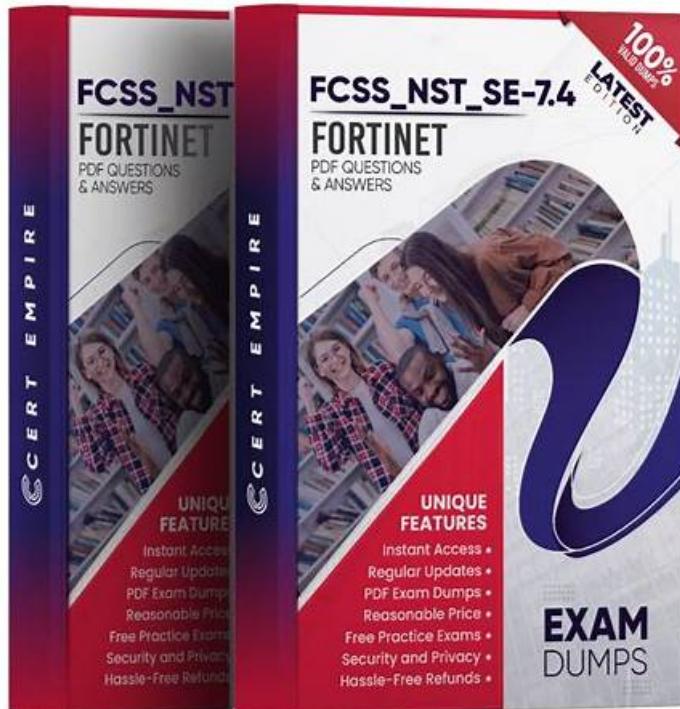


# Practical Valid FCSS\_NST\_SE-7.6 Test Practice | Easy To Study and Pass Exam at first attempt & Efficient Fortinet FCSS - Network Security 7.6 Support Engineer



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## Fortinet FCSS\_NST\_SE-7.6 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"><li>VPN: This section is aimed at IT Professionals and includes diagnosing and addressing issues with IPsec VPNs, specifically IKE version 1 and 2, to secure remote and site-to-site connections within the network infrastructure.</li></ul>
Topic 2	<ul style="list-style-type: none"><li>System troubleshooting: This section of the exam measures the skills of Network Security Support Engineers and addresses diagnosing and correcting issues within Security Fabric setups, automation stitches, resource utilization, general connectivity, and different operation modes in FortiGate HA clusters. Candidates work with built-in tools to effectively find and resolve faults.</li></ul>
Topic 3	<ul style="list-style-type: none"><li>Routing: This section focuses on Network Engineers and involves tackling issues related to packet routing using static routes, as well as OSPF and BGP protocols to support enterprise network traffic flow.</li></ul>
Topic 4	<ul style="list-style-type: none"><li>Security profiles: This part measures skills of Security Operations Specialists and covers identifying and resolving problems linked to FortiGuard services, web filtering configurations, and intrusion prevention systems to maintain protection across network environments.</li></ul>

Topic 5	<ul style="list-style-type: none"><li>• Authentication: This section evaluates the abilities of System Administrators and requires troubleshooting both local and remote authentication methods, including resolving Fortinet Single Sign-On (FSSO) problems for secure network access.</li></ul>
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## Fortinet FCSS - Network Security 7.6 Support Engineer Sample Questions (Q95-Q100):

### NEW QUESTION # 95

Exhibit.



A terminal window showing the output of a command. The command is "# diagnose automation test HAFailOver". The output shows "automation test failed" and "stitch:HAFailOver".

```
# diagnose automation test HAFailOver
automation test failed
stitch:HAFailOver
```

Refer to the exhibit, which shows the output of diagnose automation test.

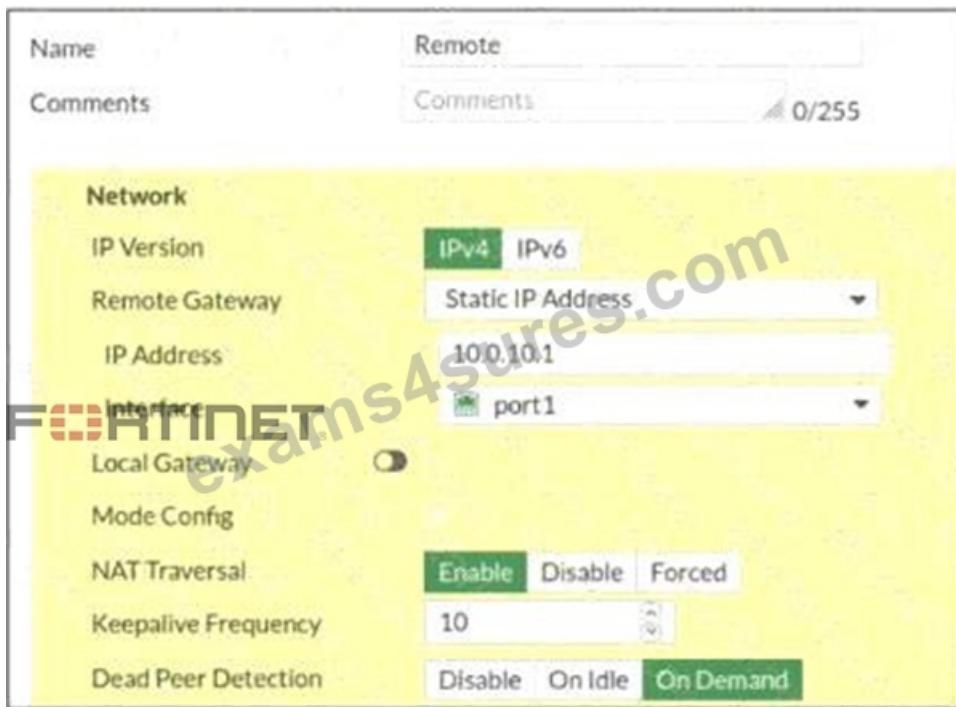
What can you observe from the output? (Choose two.)

- A. The automation stitch test is not being logged.
- B. An HA failover occurred.
- C. The automation stitch test failed but the HA failover was successful.
- D. The test was unsuccessful.

**Answer: A,D**

### NEW QUESTION # 96

Exhibit.



Refer to the exhibit, which contains a screenshot of some phase 1 settings.

The VPN is not up. To diagnose the issue, the administrator enters the following CLI commands on an SSH session on FortiGate:

```
diagnose vpn ike log-filter ipsec-addr4 10.0.10.1
diagnose debug application ike -1
```

However, the IKE real-time debug does not show any output. Why?

- A. Replace `diagnose debug application ike -1` with `diagnose debug application ipsec -1`.
- B. The debug shows only error messages. If there is no output, then the phase 1 and phase 2 configurations match.
- C. The administrator must also run the command `diagnose debug enable`.**
- D. The log-filter setting is incorrect. The VPN traffic does not match this filter.

**Answer: C**

#### NEW QUESTION # 97

Refer to the exhibit.

```
# diagnose hardware sysinfo conserve
memory conserve mode: on
total RAM: 3040 MB
memory used: 2706 MB 89% of total RAM
Memory freeable: 334 MB 11% of total RAM
memory used + freeable threshold extreme: 2887 MB 95% of total RAM
memory used threshold red: 2675 MB 88% of total RAM
memory used threshold green: 2492 MB 82% of total RAM
```

If the default settings are in place, what can you conclude about the conserve mode shown in the exhibit?

- A. FortiGate is currently allowing new sessions and will continue to allow sessions if memory increases another 6%.
- B. FortiGate is currently allowing new sessions that require flow-based content inspection and blocking sessions that require proxy-based content inspection**
- C. FortiGate is currently blocking all new sessions regardless of the content inspection requirements or configuration settings because of high memory use.
- D. FortiGate is currently allowing new sessions that require flow-based or proxy-based content inspection, but is not performing inspection on those sessions.

**Answer: B**

Explanation:

To determine the behavior, we must analyze the memory thresholds and the current status shown in the exhibit:

\* Analyze the Thresholds (The Three States):

\* Green (Exit): 82% (Memory usage is safe).

- \* Red (Enter Conserve Mode): 88% (Memory usage is high; action is required).
- \* Extreme (Kernel Conserve Mode): 95% (Memory is critical; drastic action is required).
- \* Determine the Current State:
- \* Current Memory Used: 89%.
- \* Since 89% is greater than the Red threshold (88%) but lower than the Extreme threshold (95%), the FortiGate is in Red Conserve Mode (User-space conserve mode), not Extreme mode.
- \* Evaluate the Behavior in "Red" Mode:
  - \* In Red Conserve Mode, the FortiGate's primary goal is to prevent memory exhaustion while still processing traffic if possible.
  - \* Proxy-based inspection (handled by the WAD process) is memory-intensive because it buffers content. To save memory, the system stops accepting new sessions that require proxy-based inspection.
  - \* Flow-based inspection (handled by the IPS engine) streams data and consumes significantly less memory. Therefore, in Red mode, the system typically continues to allow and inspect flow-based sessions.
  - \* Option A correctly describes this split behavior: allowing flow-based (lighter) but blocking proxy-based (heavier).
- \* Why other options are incorrect:
  - \* B: If memory increases another 6% ( $89\% + 6\% = 95\%$ ), the device hits the Extreme threshold. At 95%, the kernel begins dropping all new sessions to prevent a system crash. Thus, it will not continue to allow sessions.
  - \* C: This describes "Fail-Open" behavior (passing traffic without inspection). While configurable (set av-failopen pass), the default is usually "Fail-Close" (blocking). More importantly, the distinction between flow and proxy availability is the key architectural feature of Red mode.
  - \* D: Blocking all new sessions regardless of type is the behavior of Extreme Conserve Mode (95%). Since the device is only at 89%, this drastic measure is not yet active.

Reference:

FortiGate Security 7.6 Study Guide (Diagnostics & Resource Usage): "When memory usage exceeds the red threshold... the FortiGate enters conserve mode. New sessions requiring proxy-based inspection may be dropped... When the extreme threshold is reached, all new sessions are dropped."

## NEW QUESTION # 98

Which statement about IKEv2 is true?

- A. IKEv1 and IKEv2 share the concept of phase1 and phase2.
- B. IKEv1 and IKEv2 use same TCP port but run on different UDP ports.
- **C. IKEv1 and IKEv2 have enough of the header format in common that both versions can run over the same UDP port.**
- D. Both IKEv1 and IKEv2 share the feature of asymmetric authentication.

**Answer: C**

## NEW QUESTION # 99

Which two statements about an auxiliary session are true? (Choose two.)

- **A. With the auxiliary session setting enabled, two sessions are created in case of routing change.**
- B. With the auxiliary session setting disabled, for each traffic path, FortiGate uses the same auxiliary session.
- **C. With the auxiliary session setting enabled, ECMP traffic is accelerated to the NP6 processor.**
- D. With the auxiliary session setting disabled, only auxiliary sessions are offloaded.

**Answer: A,C**

## NEW QUESTION # 100

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