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Fortinet NSE6_SDW_AD-7.6 Certification Guide – Exam Syllabus & Practice Questions

Master Fortinet SD-WAN Enterprise Administration Concepts, Configuration, and Best Practices with Real Exam Sample Questions

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This comprehensive study guide is designed to help IT professionals prepare effectively for the Fortinet SD-WAN Enterprise Administrator (NSE6_SDW_AD-7.6) certification exam. The guide provides a detailed overview of the exam structure, objectives, and topic-wise coverage, including SD-WAN topology, FortiGate configuration, overlay links, ADVPN, IPsec tunnels, traffic steering, application control, and network monitoring.

In addition, the PDF includes real exam-style sample questions with verified answers to simulate the test environment and improve readiness. Candidates will gain a thorough understanding of Fortinet SD-WAN technologies, best practices for deployment, and the practical skills required to manage enterprise networks securely and efficiently. This guide is ideal for networking professionals, IT administrators, and anyone aiming to achieve the globally recognized Fortinet NSE6_SDW_AD-7.6 certification.

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Fortinet NSE6_SDW_AD-7.6 Exam Syllabus Topics:

Topic	Details
Topic 1	Advanced IPsec: This section covers the deployment of advanced IPsec configurations within SD-WAN environments. It includes implementing hub-and-spoke IPsec topologies, configuring ADVPN, and supporting multihub, multiregion, and large-scale secure SD-WAN deployments.
Topic 2	SD-WAN troubleshooting: This domain explains how to diagnose and resolve issues related to SD-WAN operation. It includes troubleshooting SD-WAN rules, session behavior, routing problems, and ADVPN connectivity to maintain reliable network performance.
Topic 3	Rules and routing: This section explains how to design and apply SD-WAN rules to control traffic steering across multiple WAN links. It also includes configuring SD-WAN routing to ensure proper path selection and connectivity between networks.

Topic 4	SD-WAN setup: This domain covers how to deploy an enterprise SD-WAN environment by designing SD-WAN members and zones and configuring them for efficient traffic management. It also focuses on implementing Performance SLAs to monitor link quality and ensure applications use the best available path.
Topic 5	Centralized management: This domain focuses on deploying and managing SD-WAN using FortiManager for centralized control. It includes implementing branch configuration deployment and using SD-WAN Manager with overlay orchestration to simplify large-scale network management.

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Fortinet NSE 6 - SD-WAN 7.6 Enterprise Administrator Sample Questions (Q38-Q43):

NEW QUESTION # 38

Refer to the exhibit. You configure SD-WAN on a standalone FortiGate device. You want to create an SD-WAN rule that steers Facebook and LinkedIn traffic through the less costly internet link. The FortiGate GUI page appears as shown in the exhibit. What should you do to set Facebook and LinkedIn as destinations?

The screenshot shows the FortiGate SD-WAN rule configuration page. The 'Settings' tab is active. The rule name is 'Social_app' and its status is 'Enabled'. Under 'Source', the address is '4 LAN-net'. Under 'Destination', there are two entries: 'Address' and 'Internet service', both with a '+' icon to add more. Under 'Outgoing Interfaces', the 'Interface selection strategy' is set to 'Manual'.

- A. You cannot configure applications as destinations of an SD-WAN rule on a standalone FortiGate device.
- B. Install a license to allow applications as destinations of SD-WAN rules.
- C. Enable the applications as destinations of the SD-WAN rule feature visibility.
- D. In the Internet service field, select Facebook and LinkedIn.

Answer: D

Explanation:

In an SD-WAN rule, you can steer application traffic by using Internet Service Database (ISDB) entries. Facebook and LinkedIn are predefined ISDB objects in FortiGate, so the correct way is to select them in the Internet service field under Destination. This ensures that all traffic to these applications is matched and routed through the chosen (less costly) link.

NEW QUESTION # 39

You are planning a large SD-WAN deployment with approximately 1000 spokes and want to allow ADVPN between the spokes. Some remote sites use FortiSASE to connect to the company's SD-WAN hub. Which overlay routing configuration should you use?

- A. BGP per overlay with BGP next-hop convergence for ADVPN shortcut routing.
- **B. BGP on loopback with dynamic BGP for ADVPN shortcut routing.**
- C. BGP on loopback with IPsec phase2 selectors for ADVPN shortcut routing.
- D. BGP per overlay with dynamic BGP for ADVPN shortcut routing.

Answer: B

Explanation:

For a large-scale SD-WAN deployment (such as 1000 spokes) where ADVPN shortcut routing is required and some remote sites connect via FortiSASE, the recommended overlay routing configuration is BGP running on loopback interfaces, combined with dynamic BGP for ADVPN shortcut routing. This design leverages the scalability and resilience of BGP, allowing dynamic discovery and route exchange necessary for shortcut tunnels between spokes in ADVPN environments. Using loopback interfaces for BGP peering is considered best practice because it decouples routing protocol stability from physical link status, ensuring that if a physical underlay interface fails, the BGP session remains up as long as there's an alternate path. With dynamic BGP, each spoke can efficiently learn the routes to other spokes and dynamically establish shortcuts, which is critical at this scale. This method also integrates smoothly with FortiSASE for remote connectivity to the SD-WAN hub, providing flexibility and centralized management.

References:

[FCSS_SDW_AR-7.4 1-0.docx Q6]

Fortinet SD-WAN Reference Architecture Guide 7.4, "Scalable Routing with BGP on Loopback and ADVPN Shortcuts" Fortinet SD-WAN Concept Guide, "Overlay Routing Designs for Large Deployments"

NEW QUESTION # 40

Refer to the exhibits. The interface details, static route configuration, and firewall policies on the managed FortiGate device are shown.

You want to configure a new SD-WAN zone, named Underlay, that contains the interfaces port1 and port2.

What must be your first action?

Interface details

	Name	Type	Members	IP/Netmask
Physical Interface 13				
	port1	Physical Interface		192.2.0.1/255.255.255.248
	port2	Physical Interface		192.2.0.9/255.255.255.248
	port3	Physical Interface		0.0.0.0/0.0.0.0
	port4	Physical Interface		172.16.0.1/255.255.255.248
	port5	Physical Interface		10.0.1.254/255.255.255.0
	port6	Physical Interface		0.0.0.0/0.0.0.0
	port7	Physical Interface		0.0.0.0/0.0.0.0
	port8	Physical Interface		0.0.0.0/0.0.0.0
	port9	Physical Interface		0.0.0.0/0.0.0.0
	port10	Physical Interface		192.168.0.31/255.255.255.0
	T_shop_1(port9)	Physical interface		0.0.0.0/0.0.0.0
SD-WAN Zone 3				
	HUB1	SD-WAN Zone	HUB1-VPN1 HUB1-VPN2 HUB1-VPN3	0.0.0.0/0.0.0.0
	Test	SD-WAN Zone	port2	0.0.0.0/0.0.0.0
	virtual-wan-link	SD-WAN Zone		0.0.0.0/0.0.0.0

Static route details

Destination	Gateway IP	Interface	Status
192.168.1.0/24	192.2.0.254	port1	Enabled
168.1.1.0/24	192.2.0.4	port1	Enabled

Firewall policies on managed FortiGate

	Policy	From	To	Source	Destination	Service
☐	Corp(5)	port1	port5	4 Corp-net	4 LAN-net	HTTP HTTPS
☐	DIA(1)	port5	port1	4 LAN-net	4 all	ALL

- A. Delete the static routes.

- B. Delete the firewall policies.
- C. Define port1 as an SD-WAN member.
- D. Delete the SD-WAN Zone Test.

Answer: B

Explanation:

You cannot add port1 as an SD-WAN member if it's already in use by an active firewall policy.

NEW QUESTION # 41

Refer to the exhibits.

Configuration for SD-WAN performance SLA, SD-WAN rule configuration, and application IDs YouTube.

```
config system sdwan
    config health-check
        edit "Passive"
            set detect-mode passive
            set members 3 4
        next
    end
end

config system sdwan
    config service
        edit 1
            set name "Facebook-YouTube"
            set src "all"
            set internet-service enable
            set internet-service-app-ctrl 15832 31077
            set health-check "Passive"
            set priority-member 3 4
            set passive-measurement enable
        next
    end
end

branch1_fgt # get application name status | grep "id: 15832" -B1
app-name: "Facebook"
id: 15832

branch1_fgt # get application name status | grep "id: 31077" -B1
app-name: "YouTube"
id: 31077
```

Firewall policy configuration

```
config firewall policy
    edit 1
        set name "DIA"
        set uuid b973e4ec-5f90-51ec-cadb-017c830d9418
        set srcintf "port5"
        set dstintf "underlay"
        set action accept
        set srcaddr "LAN-net"
```

```
set dstaddr "all"
set schedule "always"
set service "ALL"
set passive-wan-health-measurement enable
set utm-status enable
set ssl-ssh-profile "certificate-inspection"
set application-list "default"
set logtraffic all
set auto-asic-offload disable
set nat enable

next
end
```

Underlay zone status

```
branch1_fgt # diagnose sys sdwan zone | grep underlay -A1
Zone underlay index=3
    members(2): 3(port1) 4(port2)
```

The exhibits show the configuration for SD-WAN performance. SD-WAN rule, the application IDs of Facebook and YouTube along with the firewall policy configuration and the underlay zone status.

Which two statements are true about the health and performance of SD-WAN members 3 and 4? (Choose two.)

- A. Encrypted traffic is not used for the performance measurement.
- B. The performance is an average of the metrics measured for Facebook and YouTube traffic passing through the member.
- C. Only related TCP traffic is used for performance measurement.
- D. FortiGate identifies the member as dead when there is no Facebook and YouTube traffic passing through the member.

Answer: B,D

NEW QUESTION # 42

Refer to the exhibits.

SD-WAN template zones and rules configuration

SD-WAN Zones							
+ Create New Edit Delete Where Used Search...							
☐	ID	Interface	Gateway	Cost	Priority	Status	Installation Target
☐	virtual-wan-link						
☐	underlay						
☐	1	port1	\$(sdwan_port1_gw)	0	1	Enable	
☐	2	port2	0.0.0.0	0	1	Enable	
☐	WAN3						
☐	3	port4	\$(sdwan_port4_gw)	0	1	Enable	1 Device in Total branch1_fgt [root]
☐	HUB1						
☐	4	HUB1-VPN1	0.0.0.0	0	1	Enable	
☐	5	HUB1-VPN2	0.0.0.0	0	1	Enable	
☐	6	HUB1-VPN3	0.0.0.0	0	1	Enable	

SD-WAN Rules										
+ Create New Edit Delete More Search...										
☐	ID	Name	Source	Destination	Criteria	Members	Performance SLA	Port	Protocol	Status
☐	1	Critical-DIA	LAN-r	Salesforce Microsoft		port1 port2			any	Enable
☐	2	Non-Critical-DIA	LAN-r	Facebook LinkedIn Game		port2			any	Enable
☐	3	Corp	LAN-r	Corp-net		HUB1-VPN1 HUB1-VPN2 HUB1-VPN3			any	Enable
☐		sd-wan	All	All	Source IP	All			any	

FortiManager error message

Install Wizard - Validate Devices (3/4)

Task finished with **errors**.

Installation Preparation **Total: 4/4** Success: 3, Warning: 0, Error: 1 Show Details 100%

✓ Ready to Install
Only successfully validated device may be installed. Please confirm and click "Install" button to continue.

Install Preview Search...

☒	Device Name	Status	Action
☐	branch1_fgt	Copy Failed	Log
☒	branch2_fgt	Connection Up	
☒	branch3_fgt	Connection Up	

View install log in FortiManager

View Install Log

```
Copy device global objects
Copy objects for vdom root
Commit failed:
error -999 - (from Template Group Corp-SOT_BRANCH) (in Template branches) invalid ip - prop[gateway]: ipclass($(sdwan_port1_gw)) invalid ip addr
```

You use FortiManager to configure SD-WAN on three branch devices.

When you install the device settings, FortiManager prompts you with the error "Copy Failed" for the device branch1_fgt. When you click the log button, FortiManager displays the message shown in the exhibit.

Based on the exhibits, which statement best describes the issue and how you can resolve it?

- A. Remove the installation target for the SD-WAN member port4. You cannot combine metadata variable and installation targets.
- B. Gateways for all members in a zone must be defined the same way. Specify the gateway of the SD-WAN member port1 without metadata variables.
- C. Check the metadata variable definitions, and review the per-device mapping configuration.
- D. Check the connection between branch1_fgt and FortiManager.

Answer: C

Explanation:

The installation log shows that FortiManager fails during object copy due to an invalid gateway value derived from a metadata variable (for example, \$(sdwan_port1_gw)). This indicates that the variable is not properly resolved for branch1_fgt, causing an invalid IP address during policy compilation. The issue is therefore related to inconsistent or missing per-device variable mapping, which must be verified and corrected in the metadata definitions and device-specific mappings so that the SD-WAN gateway values resolve correctly during installation.

NEW QUESTION # 43

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