



Fortinet

Exam Questions NSE4_FGT-7.2

Fortinet NSE 4 - FortiOS 7.2

NEW QUESTION 1

Refer to the exhibits.

Exhibit A shows a topology for a FortiGate HA cluster that performs proxy-based inspection on traffic. Exhibit B shows the HA configuration and the partial output of the get system ha status command.

Exhibit A Exhibit B

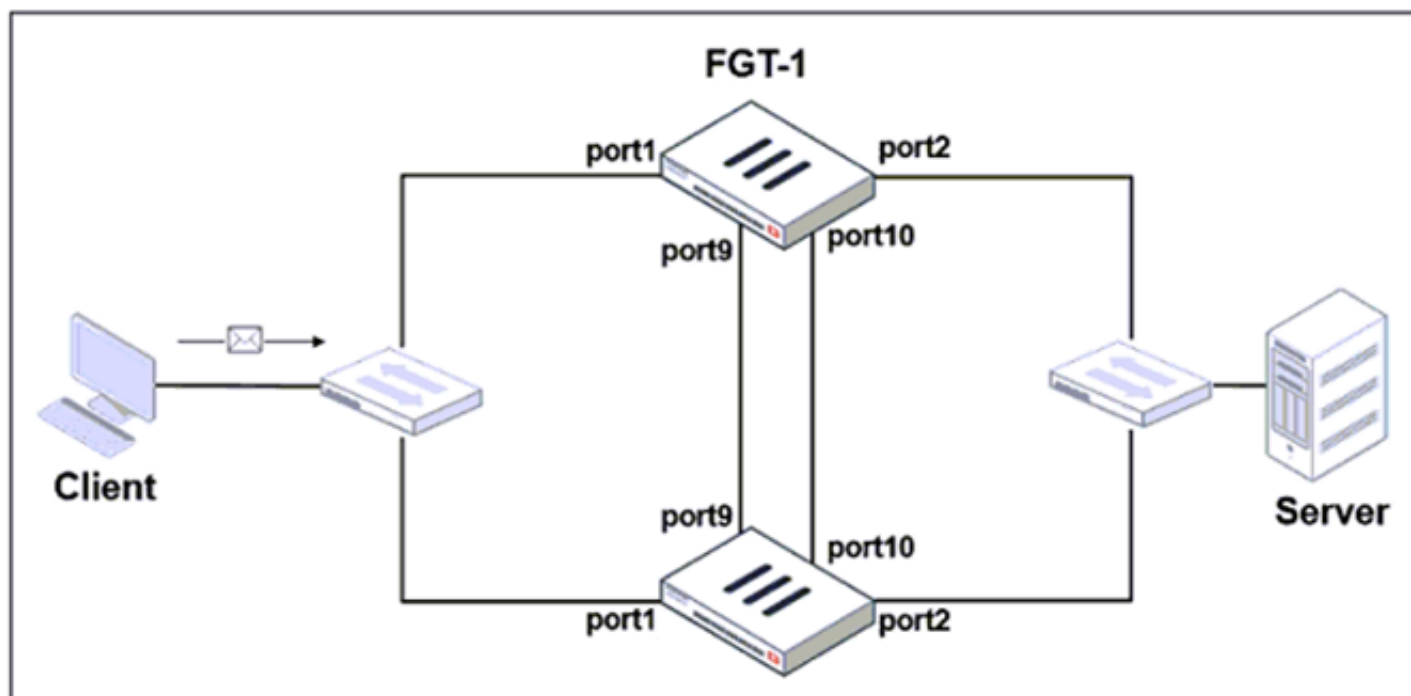


Exhibit A Exhibit B

```
set group-id 3
set group-name "NSE"
set mode a-a
set password *
set hbdev "port9" 50 "port10" 50
set session-pickup enable
set override disable
set monitor port3
end

# get system ha status
...
Primary      : FGT-2, FGVM010000065036, HA cluster index = 1
Secondary    : FGT-1, FGVM010000064692, HA cluster index = 0
number of vcluster: 1
vcluster 1: work 169.254.0.2
Primary: FGVM010000065036, HA operating index = 1
Secondary: FGVM010000064692, HA operating index = 0
```

Based on the exhibits, which two statements about the traffic passing through the cluster are true? (Choose two.)

- A. For non-load balanced connections, packets forwarded by the cluster to the server contain the virtual MAC address of port2 as source.
- B. The traffic sourced from the client and destined to the server is sent to FGT-1.
- C. The cluster can load balance ICMP connections to the secondary.
- D. For load balanced connections, the primary encapsulates TCP SYN packets before forwarding them to the secondary.

Answer: AD

Explanation:

FortiGate Infrastructure 7.2 Study Guide (p.317 & p.320): "To forward traffic correctly, a FortiGate HA solution uses virtual MAC addresses." "The primary forwards the SYN packet to the selected secondary. (...) This is also known as MAC address rewrite. In addition, the primary encapsulates the packet in an Ethernet frame type 0x8891. The encapsulation is done only for the first packet of a load balanced session. The encapsulated packet includes the original packet plus session information that the secondary requires to process the traffic."

NEW QUESTION 2

Refer to the FortiGuard connection debug output.

```
FortiGate # diagnose debug rating
Locale      : english

Service     : Web-Filter
Status      : Enable
License     : Contract

Num. of servers : 3
Protocol    : https
Port        : 443
Anycast     : Disable
Default servers : Included
-- Server List (Mon Jul 5 12:00:25 2021) --

IP           Weight  RTT  Flags  TZ  FortiGuard-requests  Curr  Lost  Total  Lost  Updated Time
173.243.138.210  10    350  DI    -8    29      0     0      0      0  Mon Jul 5 09:23:33 2021
12.34.97.18     20    30   -5    -5    25      0     0      0      0  Mon Jul 5 09:23:33 2021
210.7.96.18     160   605   9     9    25      0     0      0      0  Mon Jul 5 09:23:33 2021
```

Based on the output shown in the exhibit, which two statements are correct? (Choose two.)

- A. A local FortiManager is one of the servers FortiGate communicates with.
- B. One server was contacted to retrieve the contract information.
- C. There is at least one server that lost packets consecutively.
- D. FortiGate is using default FortiGuard communication settings.

Answer: BD

Explanation:

FortiGate Security 7.2 Study Guide (p.287-288): "Flags: D (IP returned from DNS), I (Contract server contacted), T (being timed), F (failed)" "By default, FortiGate is configured to enforce the use of HTTPS port 443 to perform live filtering with FortiGuard or FortiManager. Other ports and protocols are available by disabling the FortiGuard anycast setting on the CLI."

NEW QUESTION 3

In consolidated firewall policies, IPv4 and IPv6 policies are combined in a single consolidated policy. Instead of separate policies. Which three statements are true about consolidated IPv4 and IPv6 policy configuration? (Choose three.)

- A. The IP version of the sources and destinations in a firewall policy must be different.
- B. The Incoming Interface
- C. Outgoing Interface
- D. Schedule, and Service fields can be shared with both IPv4 and IPv6.
- E. The policy table in the GUI can be filtered to display policies with IPv4, IPv6 or IPv4 and IPv6 sources and destinations.
- F. The IP version of the sources and destinations in a policy must match.
- G. The policy table in the GUI will be consolidated to display policies with IPv4 and IPv6 sources and destinations.

Answer: BDE

NEW QUESTION 4

Which two settings are required for SSL VPN to function between two FortiGate devices? (Choose two.)

- A. The client FortiGate requires a client certificate signed by the CA on the server FortiGate.
- B. The client FortiGate requires a manually added route to remote subnets.
- C. The client FortiGate uses the SSL VPN tunnel interface type to connect SSL VPN.
- D. The server FortiGate requires a CA certificate to verify the client FortiGate certificate.

Answer: CD

Explanation:

<https://docs.fortinet.com/document/fortigate/7.0.9/administration-guide/508779/fortigate-as-ssl-vpn-client>

To establish an SSL VPN connection between two FortiGate devices, the following two settings are required:

The server FortiGate requires a CA certificate to verify the client FortiGate certificate: The server FortiGate will use a CA (Certificate Authority) certificate to verify the client FortiGate certificate, ensuring that the client device is trusted and allowed to establish an SSL VPN connection.

The client FortiGate requires the SSL VPN tunnel interface type to connect SSL VPN: The client FortiGate must have an SSL VPN tunnel interface type configured in order to establish an SSL VPN connection. This interface type will be used to connect to the server FortiGate over the SSL VPN.

NEW QUESTION 5

An administrator does not want to report the logon events of service accounts to FortiGate. What setting on the collector agent is required to achieve this?

- A. Add the support of NTLM authentication.
- B. Add user accounts to Active Directory (AD).
- C. Add user accounts to the FortiGate group filter.
- D. Add user accounts to the Ignore User List.

Answer: D

NEW QUESTION 6

Which two types of traffic are managed only by the management VDOM? (Choose two.)

- A. FortiGuard web filter queries
- B. PKI
- C. Traffic shaping
- D. DNS

Answer: AD

NEW QUESTION 7

Which of the following are valid actions for FortiGuard category based filter in a web filter profile ui proxy-based inspection mode? (Choose two.)

- A. Warning
- B. Exempt
- C. Allow
- D. Learn

Answer: AC

NEW QUESTION 8

Which two types of traffic are managed only by the management VDOM? (Choose two.)

- A. FortiGuard web filter queries
- B. PKI
- C. Traffic shaping
- D. DNS

Answer: AD

Explanation:

FortiGate Infrastructure 7.2 Study Guide (p.73): "What about traffic originating from FortiGate? Some system daemons, such as NTP and FortiGuard updates, generate traffic coming from FortiGate. Traffic coming from FortiGate to those global services originates from the management VDOM. One, and only one, of the VDOMs on a FortiGate device is assigned the role of the management VDOM. It is important to note that the management VDOM designation is solely for traffic originated by FortiGate, such as FortiGuard updates, and has no effect on traffic passing through FortiGate."

NEW QUESTION 9

FortiGate is operating in NAT mode and is configured with two virtual LAN (VLAN) subinterfaces added to the same physical interface. In this scenario, what are two requirements for the VLAN ID? (Choose two.)

- A. The two VLAN subinterfaces can have the same VLAN ID, only if they have IP addresses in the same subnet.
- B. The two VLAN subinterfaces can have the same VLAN ID, only if they belong to different VDOMs.
- C. The two VLAN subinterfaces must have different VLAN IDs.
- D. The two VLAN subinterfaces can have the same VLAN ID, only if they have IP addresses in different subnets.

Answer: BC

Explanation:

<https://community.fortinet.com/t5/FortiGate/Technical-Note-How-to-use-vmac-vlan-to-share-the-same-VLAN/t> When FortiGate is operating in NAT mode, it means that it uses network address translation (NAT) to modify the source or destination IP addresses of the traffic passing through it¹. NAT mode allows FortiGate to hide the IP addresses of the internal network from the external network, and to conserve IP addresses by using a single public IP address for multiple private IP addresses¹.

A virtual LAN (VLAN) subinterface is a logical interface that allows traffic from different VLANs to enter and exit the FortiGate unit². A VLAN subinterface is created by adding a VLAN ID to a physical interface or an aggregate interface². A VLAN ID is a numerical identifier that distinguishes one VLAN from another².

In this scenario, there are two requirements for the VLAN ID of the VLAN subinterfaces added to the same physical interface:

➤ The two VLAN subinterfaces must have different VLAN IDs. This is because the VLAN ID is used to tag the traffic with the appropriate VLAN information, and to separate the traffic into different VLANs². If the two VLAN subinterfaces have the same VLAN ID, they will not be able to distinguish the traffic from each other, and they will not be able to forward the traffic to the correct destination.

➤ The two VLAN subinterfaces can have the same VLAN ID, only if they belong to different VDOMs. This is because VDOMs are virtual instances of FortiGate that can have their own interfaces, policies, and routing tables³. Each VDOM operates independently from other VDOMs, and can have its own VLAN subinterfaces with different or identical VLAN IDs³. However, this requires inter-VDOM links to allow traffic between different VDOMs³.

NEW QUESTION 10

Which of the following SD-WAN load balancing method use interface weight value to distribute traffic? (Choose two.)

- A. Source IP
- B. Spillover
- C. Volume
- D. Session

Answer: CD

Explanation:

<https://docs.fortinet.com/document/fortigate/6.0.0/handbook/49719/configuring-sd-wan-load-balancing>

NEW QUESTION 10

In which two ways can RPF checking be disabled? (Choose two)

- A. Enable anti-replay in firewall policy.
- B. Disable the RPF check at the FortiGate interface level for the source check
- C. Enable asymmetric routing.
- D. Disable strict-arc-check under system settings.

Exhibit A Exhibit B

Edit Override
Type Application Filter
Action Block
Filter BHVR Excessive-Bandwidth
FaceTime
Name Category Technology
Application Signature 1/1262
FaceTime VoIP Client-Server

Edit Override
Type Application Filter
Action Monitor
Filter VENDOR Apple
FaceTime
Name Category Technology
Application Signature 1/33
FaceTime VoIP Client-Server

Based on the configuration, what will happen to Apple FaceTime if there are only a few calls originating or incoming?

- A. Apple FaceTime will be allowed, based on the Categories configuration.
- B. Apple FaceTime will be blocked, based on the Excessive-Bandwidth filter configuration.
- C. Apple FaceTime will be allowed, based on the Apple filter configuration.
- D. Apple FaceTime will be allowed only if the Apple filter in Application and Filter Overrides is set to Allow.

Answer: B

Explanation:

FortiGate Security 7.2 Study Guide (p.310): "Then, FortiGate scans packets for matches, in this order, for the application control profile: 1. Application and filter overrides: If you have configured any application overrides or filter overrides, the application control profile considers those first. It looks for a matching override starting at the top of the list, like firewall policies. 2. Categories: Finally, the application control profile applies the action that you've configured for applications in your selected categories."

NEW QUESTION 19

Which three security features require the intrusion prevention system (IPS) engine to function? (Choose three.)

- A. Web filter in flow-based inspection
- B. Antivirus in flow-based inspection
- C. DNS filter
- D. Web application firewall
- E. Application control

Answer: ABE

Explanation:

<https://docs.fortinet.com/document/fortigate/7.0.0/new-features/739623/dns-filter-handled-by-ips-engine-in-flow>

NEW QUESTION 24

What is the limitation of using a URL list and application control on the same firewall policy, in NGFW policy-based mode?

- A. It limits the scanning of application traffic to the DNS protocol only.
- B. It limits the scanning of application traffic to use parent signatures only.
- C. It limits the scanning of application traffic to the browser-based technology category only.
- D. It limits the scanning of application traffic to the application category only.

Answer: C

Explanation:

FortiGate Security 7.2 Study Guide (p.317): "You can configure the URL Category within the same security policy; however, adding a URL filter causes application control to scan applications in only the browser-based technology category, for example, Facebook Messenger on the Facebook website."

NEW QUESTION 26

Which three statements are true regarding session-based authentication? (Choose three.)

- A. HTTP sessions are treated as a single user.

- B. IP sessions from the same source IP address are treated as a single user.
- C. It can differentiate among multiple clients behind the same source IP address.
- D. It requires more resources.
- E. It is not recommended if multiple users are behind the source NAT

Answer: ACD

NEW QUESTION 28

A network administrator has enabled SSL certificate inspection and antivirus on FortiGate. When downloading an EICAR test file through HTTP, FortiGate detects the virus and blocks the file. When downloading the same file through HTTPS, FortiGate does not detect the virus and the file can be downloaded.

What is the reason for the failed virus detection by FortiGate?

- A. The website is exempted from SSL inspection.
- B. The EICAR test file exceeds the protocol options oversize limit.
- C. The selected SSL inspection profile has certificate inspection enabled.
- D. The browser does not trust the FortiGate self-signed CA certificate.

Answer: AC

Explanation:

SSL Inspection Profile, on the Inspection method there are 2 options to choose from, SSL Certificate Inspection or Full SSL Inspection. FG SEC 7.2 Studi Guide: Full SSL Inspection level is the only choice that allows antivirus to be effective.

NEW QUESTION 31

Which of the following are purposes of NAT traversal in IPsec? (Choose two.)

- A. To detect intermediary NAT devices in the tunnel path.
- B. To dynamically change phase 1 negotiation mode aggressive mode.
- C. To encapsulation ESP packets in UDP packets using port 4500.
- D. To force a new DH exchange with each phase 2 rekey.

Answer: AC

NEW QUESTION 33

FortiGuard categories can be overridden and defined in different categories. To create a web rating override for example.com home page, the override must be configured using a specific syntax.

Which two syntaxes are correct to configure web rating for the home page? (Choose two.)

- A. www.example.com:443
- B. www.example.com
- C. example.com
- D. www.example.com/index.html

Answer: BC

Explanation:

When using FortiGuard category filtering to allow or block access to a website, one option is to make a web rating override and define the website in a different category. Web ratings are only for host names - no URLs or wildcard characters are allowed.

OK: google.com or www.google.com

NO OK: www.google.com/index.html or google.* FortiGate_Security_6.4 page 384

When using FortiGuard category filtering to allow or block access to a website, one option is to make a web rating override and define the website in a different category. Web ratings are only for host names-- "no URLs or wildcard characters are allowed".

NEW QUESTION 38

Refer to exhibit.

An administrator configured the web filtering profile shown in the exhibit to block access to all social networking sites except Twitter. However, when users try to access twitter.com, they are redirected to a FortiGuard web filtering block page.

Name: Allow_Twitter
Comments: Write a comment... 0/255
Feature set: **Flow-based** Proxy-based
FortiGuard Category Based Filter

Allow Monitor Block Warning Authenticate

Name	Action
Medicine	Allow
News and Media	Allow
Social Networking	Block
Political Organizations	Allow
Reference	Allow
Global Religion	Allow
Shopping	Allow
Society and Lifestyles	Allow
Sports	Allow

Static URL Filter

Block invalid URLs
URL Filter

Create New Edit Delete Search

URL	Type	Action	Status
twitter.com	Wildcard	Allow	Enable

Block malicious URLs discovered by FortiSandbox
Content Filter

Based on the exhibit, which configuration change can the administrator make to allow Twitter while blocking all other social networking sites?

- A. On the FortiGuard Category Based Filter configuration, set Action to Warning for Social Networking
- B. On the Static URL Filter configuration, set Type to Simple
- C. On the Static URL Filter configuration, set Action to Exempt.
- D. On the Static URL Filter configuration, set Action to Monitor.

Answer: C

NEW QUESTION 43

By default, FortiGate is configured to use HTTPS when performing live web filtering with FortiGuard servers. Which CLI command will cause FortiGate to use an unreliable protocol to communicate with FortiGuard servers for live web filtering?

- A. set fortiguard-anycast disable
- B. set webfilter-force-off disable
- C. set webfilter-cache disable
- D. set protocol tcp

Answer: A

Explanation:

y default, "fortiguard-anycast" is enabled, and this setting only works with "set protocol https". To use udp (ie. "set protocol udp"), "fortiguard-anycast" must be disabled.

NEW QUESTION 45

An administrator observes that the port1 interface cannot be configured with an IP address. What can be the reasons for that? (Choose three.)

- A. The interface has been configured for one-arm sniffer.
- B. The interface is a member of a virtual wire pair.
- C. The operation mode is transparent.
- D. The interface is a member of a zone.
- E. Captive portal is enabled in the interface.

Answer: ABC

Explanation:

https://help.fortinet.com/fos50hlp/54/Content/FortiOS/fortigate-whats-new-54/Top_VirtualWirePair.htm

NEW QUESTION 48

A team manager has decided that, while some members of the team need access to a particular website, the majority of the team does not Which configuration option is the most effective way to support this request?

- A. Implement a web filter category override for the specified website
- B. Implement a DNS filter for the specified website.
- C. Implement web filter quotas for the specified website
- D. Implement web filter authentication for the specified website.

Answer: D

NEW QUESTION 52

Refer to the exhibit.


```
# diagnose test application ipsmonitor
1: Display IPS engine information
2: Toggle IPS engine enable/disable status
3: Display restart log
4: Clear restart log
5: Toggle bypass status
98: Stop all IPS engines
99: Restart all IPS engines and monitor
```

Examine the intrusion prevention system (IPS) diagnostic command.

Which statement is correct If option 5 was used with the IPS diagnostic command and the outcome was a decrease in the CPU usage?

- A. The IPS engine was inspecting high volume of traffic.
- B. The IPS engine was unable to prevent an intrusion attack .
- C. The IPS engine was blocking all traffic.
- D. The IPS engine will continue to run in a normal state.

Answer: A

Explanation:

fortinet-fortigate-security-study-guide-for-fortios-72 page 417 If there are high-CPU use problems caused by the IPS, you can use the diagnose test application ipsmonitor command with option 5 to isolate where the problem might be. Option 5 enables IPS bypass mode. In this mode, the IPS engine is still running, but it is not inspecting traffic. If the CPU use decreases after that, it usually indicates that the volume of traffic being inspected is too high for that FortiGate model.

NEW QUESTION 56

Refer to the exhibit to view the application control profile.

Priority	Details	Type	Action
1	Excessive-Bandwidth	Filter	Block
2	Apple	Filter	Monitor

Name	Category	Technology	Popularity
Application Signature: 1/1659			
FaceTime	VoIP	Client-Server	★★★★★

Based on the configuration, what will happen to Apple FaceTime?

- A. Apple FaceTime will be blocked, based on the Excessive-Bandwidth filter configuration
- B. Apple FaceTime will be allowed, based on the Apple filter configuration.
- C. Apple FaceTime will be allowed only if the filter in Application and Filter Overrides is set to Learn
- D. Apple FaceTime will be allowed, based on the Categories configuration.

Answer: A

NEW QUESTION 60

An administrator wants to configure timeouts for users. Regardless of the userTMs behavior, the timer should start as soon as the user authenticates and expire after the configured value.

Which timeout option should be configured on FortiGate?

- A. auth-on-demand
- B. soft-timeout
- C. idle-timeout
- D. new-session
- E. hard-timeout

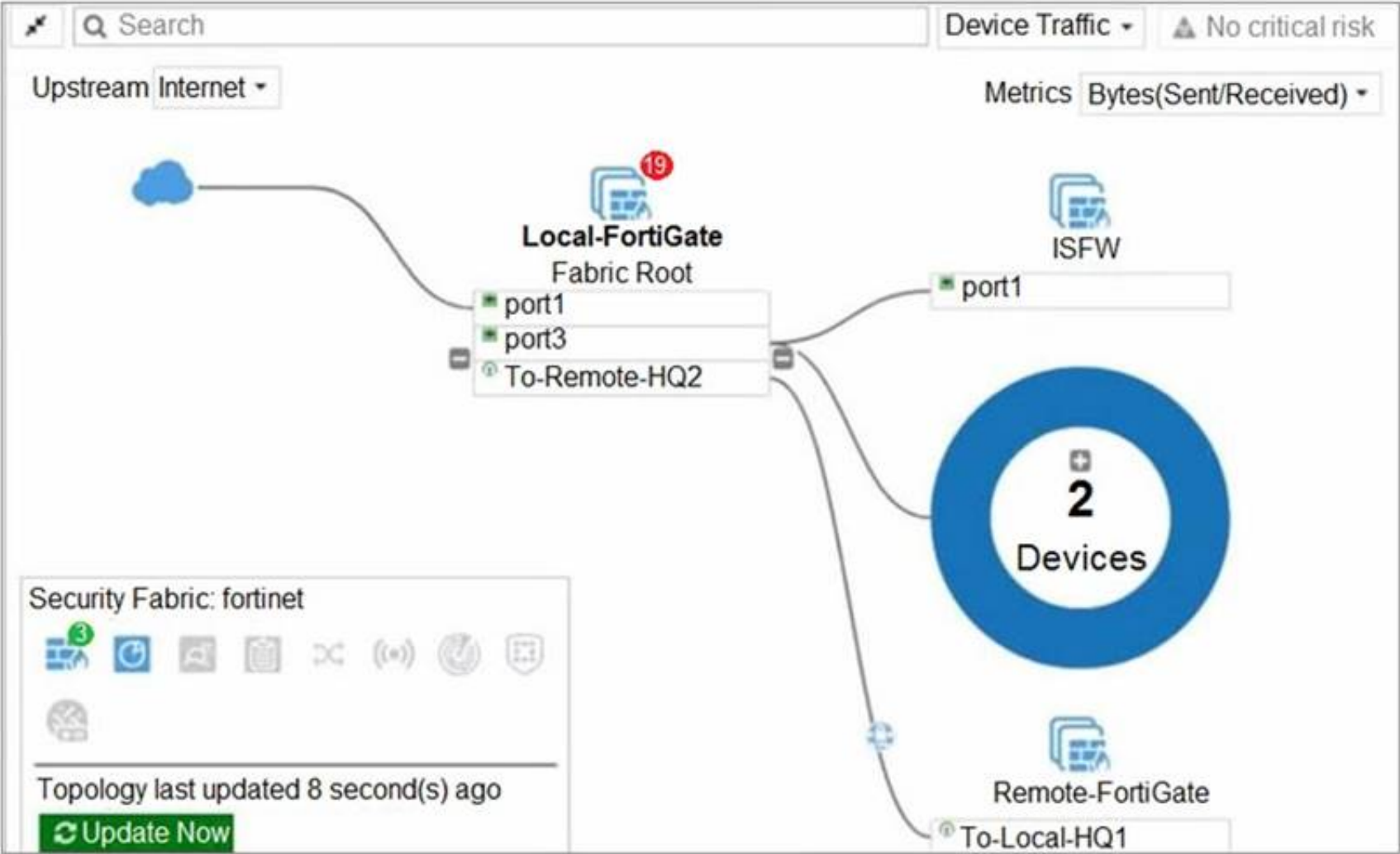
Answer: E

Explanation:

<https://community.fortinet.com/t5/FortiGate/Technical-TipExplanation:-of-auth-timeout-types-for-Firewall/ta-p/>

NEW QUESTION 61

Refer to the exhibit.



Given the security fabric topology shown in the exhibit, which two statements are true? (Choose two.)

- A. There are five devices that are part of the security fabric.
- B. Device detection is disabled on all FortiGate devices.
- C. This security fabric topology is a logical topology view.
- D. There are 19 security recommendations for the security fabric.

Answer: CD

Explanation:

References: <https://docs.fortinet.com/document/fortigate/5.6.0/cookbook/761085/results>
<https://docs.fortinet.com/document/fortimanager/6.2.0/new-features/736125/security-fabric-topology>

NEW QUESTION 62

Refer to the exhibit.

The image shows a configuration form for a FortiGate Administrator account. The form has the following fields and options:

- Username:** Administrator
- Type:** Local User (highlighted in green). Other options include: Match a user on a remote server group, Match all users in a remote server group, Use public key infrastructure (PKI) group.
- Comments:** Write a comment... (0/255 characters)
- Administrator Profile:** prof_admin (dropdown menu)
- Email Address:** admin@xyz.com
- Security Options (all are currently disabled, indicated by radio buttons):**
 - SMS
 - Two-factor Authentication
 - Restrict login to trusted hosts
 - Restrict admin to guest account provisioning only
- Change Password:** (button)

The global settings on a FortiGate device must be changed to align with company security policies. What does the Administrator account need to access the FortiGate global settings?

- A. Change password
- B. Enable restrict access to trusted hosts
- C. Change Administrator profile
- D. Enable two-factor authentication

Answer: C

NEW QUESTION 67

Which of the following statements about backing up logs from the CLI and downloading logs from the GUI are true? (Choose two.)

- A. Log downloads from the GUI are limited to the current filter view
- B. Log backups from the CLI cannot be restored to another FortiGat
- C. Log backups from the CLI can be configured to upload to FTP as a scheduled time
- D. Log downloads from the GUI are stored as LZ4 compressed files.

Answer: AB

NEW QUESTION 69

Which certificate value can FortiGate use to determine the relationship between the issuer and the certificate?

- A. Subject Key Identifier value
- B. SMMIE Capabilities value
- C. Subject value
- D. Subject Alternative Name value

Answer: A

NEW QUESTION 73

What is the limitation of using a URL list and application control on the same firewall policy, in NGFW policy-based mode?

- A. It limits the scope of application control to the browser-based technology category only.
- B. It limits the scope of application control to scan application traffic based on application category only.
- C. It limits the scope of application control to scan application traffic using parent signatures only
- D. It limits the scope of application control to scan application traffic on DNS protocol only.

Answer: B

NEW QUESTION 77

You have enabled logging on a FortiGate device for event logs and all security logs, and you have set up logging to use the FortiGate local disk. What is the default behavior when the local disk is full?

- A. No new log is recorded after the warning is issued when log disk use reaches the threshold of 95%.
- B. No new log is recorded until you manually clear logs from the local disk.
- C. Logs are overwritten and the first warning is issued when log disk use reaches the threshold of 75%.
- D. Logs are overwritten and the only warning is issued when log disk use reaches the threshold of 95%.

Answer: C

Explanation:

config log disk setting

set diskfull [overwrite | nolog]

Action to take when disk is full. The system can overwrite the oldest log messages or stop logging when the disk is full. (default --> overwrite)

config log memory global-setting

set full-first-warning-threshold {integer}

Log full first warning threshold as a percent. (default --> 75)

NEW QUESTION 80

Which statement is correct regarding the inspection of some of the services available by web applications embedded in third-party websites?

- A. The security actions applied on the web applications will also be explicitly applied on the third-party websites.
- B. The application signature database inspects traffic only from the original web application server.
- C. FortiGuard maintains only one signature of each web application that is unique.
- D. FortiGate can inspect sub-application traffic regardless where it was originate

Answer: D

NEW QUESTION 84

Which three methods are used by the collector agent for AD polling? (Choose three.)

- A. FortiGate polling
- B. NetAPI
- C. Novell API
- D. WMI
- E. WinSecLog

Answer: BDE

Explanation:

FortiGate Infrastructure 7.2 Study Guide (p.127-128): "As previously stated, collector agent-based polling mode has three methods (or options) for collecting login information. The order on the slide from left to right shows most recommend to least recommended: (WMI, WinSecLog, and NetAPI)"

NEW QUESTION 86

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