

# 642-503

## Cisco

### Securing Networks with Cisco Routers and Switches

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**QUESTION 1:**

Please study the exhibit carefully.

What traffic will be matched to the "qt-class" traffic class?

```
Certkiller2 (config)#class-map type queue-threshold qt-snmpp-class
Certkiller2 (config-cmap)# match protocol snmp
Certkiller2 (config-cmap)# class-map type queue-threshold qt-telnet-class
Certkiller2 (config-cmap)# match protocol telnet
Certkiller2 (config-cmap)# class-map type queue-threshold qt-class
Certkiller2 (config-cmap)# match host-protocols
Certkiller2 (config-cmap)# exit
Certkiller2 (config)# policy-map type queue-threshold qt-policy
Certkiller2 (config-pmap)# class qt-snmpp-class
Certkiller2 (config-pmap-c)# queue-limit 50
Certkiller2 (config-pmap-c)# class qt-telnet-class
Certkiller2 (config-pmap-c)# queue-limit 50
Certkiller2 (config-pmap-c)# class qt-class
Certkiller2 (config-pmap-c)# queue-limit 150
Certkiller2 (config-pmap-c)# end
```

- A. all traffic matched by the "host-protocols" named access list
- B. all other traffic arriving at the interface where the "qt-policy" policy map is applied
- C. all TCP and UDP protocol ports open on the router not specifically matched
- D. all traffic other than SNMP and Telnet to the router
- E. all traffic matched by the "host-protocols" nested class map

Answer: A

Explanation:

Defining Queue-threshold Packet Classification Criteria

SUMMARY STEPS

1. enable
2. configure terminal
3. class-map type queue-threshold [match-all | match-any] class name
4. match protocol [bgp | dns | ftp | http | igmp | snmp | ssh | syslog | telnet | tftp] [cr]

## DETAILED STEPS

	Command or Action	Purpose
Step 1	<b>enable</b> Example: Router> enable	Enables privileged EXEC mode. <ul style="list-style-type: none"><li>• Enter your password if prompted.</li></ul>
Step 2	<b>configure terminal</b> Example: Router# configure terminal	Enters the global configuration mode.
Step 3	<b>class-map type <i>queue-threshold</i> [match-all   match-any] <i>class name</i></b> Example: Router(config)#class-map type queue-threshold match-all cpr-pf	Applies a class map for the queue-threshold and enables the queue-threshold class-map configuration mode. <ul style="list-style-type: none"><li>• <b>match-all</b>—performs a logical AND on the match criteria</li><li>• <b>match-any</b>—performs a logical OR on the match criteria</li><li>• <i>class-name</i>—Name of a service policy class. The name can be a maximum of 40 alphanumeric characters.</li></ul>
Step 4	<b>match protocol [bgp dns ftp http igmp snmp ssh syslog telnet tftp host-protocols]</b> Example: Router(config-cmap)# match protocol bgp	Specifies the upper layer protocol match criteria for the class-map. <ul style="list-style-type: none"><li>• <b>bgp</b>—Border Gateway Protocol</li><li>• <b>dns</b>—Domain Name Server lookup</li><li>• <b>ftp</b>—File Transfer Protocol</li><li>• <b>http</b>—World Wide Web traffic</li><li>• <b>igmp</b>—Internet Group Management Protocol</li><li>• <b>snmp</b>—Simple Network Management Protocol</li><li>• <b>ssh</b>—Secure Shell Protocol</li><li>• <b>syslog</b>—Syslog Server</li><li>• <b>telnet</b>—Telnet</li><li>• <b>tftp</b>—Trivial File Transfer Protocol</li><li>• <b>host-protocols</b>—any open TCP/UDP port on the router.</li></ul>

**QUESTION 2:**

## DRAG DROP

You work as a network technician at Certkiller .com. Your boss, miss Certkiller, is interested in IBNS 802.1x authentication features. Match the proper features with appropriate descriptions.

Note: not all features are used.

**Options, select from these**

Access VLAN

Guest VLAN

Authentication policy for a Network Access Profile (NAP)

Network Access Filters (NAFs)

Radius Authorization Components (RACs)

Restricted VLAN

**Definitions**

Allows logical grouping of the Network Access Devices (NADs)

Defines the RADIUS attributes downloaded to the switch upon successful authorization

Provides limited network access to clients without an 802.1x supplicant

Provides limited network access to clients with an 802.1x supplicant but failed authentication

**Options, place here**

*Place here*

*Place here*

*Place here*

*Place here*

Answer:

**Options, select from these**

Access VLAN

Authentication policy for a Network Access Profile (NAP)

**Definitions**

Allows logical grouping of the Network Access Devices (NADs)

Defines the RADIUS attributes downloaded to the switch upon successful authorization

Provides limited network access to clients without an 802.1x supplicant

Provides limited network access to clients with an 802.1x supplicant but failed authentication

**Options, place here**

Network Access Filters (NAFs)

Radius Authorization Components (RACs)

Guest VLAN

Restricted VLAN

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**QUESTION 3:**

Please study the exhibit carefully.

Which two statements are true about the configurations shown? (Choose two.)

```
webvpn gateway Certkiller -GW
hostname Certkiller1
ip address 10.0.1.3 port 443
http-redirect port 80
ssl trustpoint TP-self-signed-1898720763
inservice
!
webvpn context SSLVPN
title "SNRS WebVPN Page"
title-color darkseagreen
secondary-color darkgreen
secondary-text-color white
ssl encryption rc4-md5
ssl authenticate verify all
!
uri-list "MYLINKS"
heading "Quicklinks"
uri-text "Homepage" uri-value "home.certkiller.com"
uri-text "Test-URL" uri-value "certkiller.net"
uri-text "server-URL" uri-value "certkillerserver.com"
!
login-message "Please enter your credentials"
!
policy group SSL-Policy
uri-list "MYLINKS"
banner "Login Successful!"
default-group-policy SSL-Policy
gateway SNRS-GW
max-users 300
inservice
```

- A. The clickable links will have a heading entitled "MYLINKS".
- B. ACS will be used for remote-user authentication by default.
- C. This is an example of a clientless configuration.
- D. The home page will have three clickable links on it.
- E. Thin client (port forwarding) has been enabled using the url-text command.

Answer: C,D

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**QUESTION 4:**

Please study the exhibit carefully.

What can you determine about the configuration?

```
crypto ipsec transform-set MINE esp-des
!  
crypto map MYMAP 10 ipsec-isakmp
  set peer 172.30.5.2
  set transform-set MINE
  match address 101
```

- A. 3DES encryption will be used.
- B. The authentication method used between the IPsec peers is pre-shared key.
- C. This is a dynamic crypto map.
- D. Traffic matched by ACL 101 will not be encrypted.
- E. HMAC-MD5 authentication will be used.
- F. ESP tunnel mode will be used.

Answer: F

Explanation:

Configuring IPsec Policies

After configuring the Phase 1 parameters, configure the Phase 2 parameters. These parameters include a transform set and global IPsec SA lifetimes. In addition to the transform set, you can change the mode that the tunnel operates in. There are two modes: tunnel mode and transport mode. Tunnel mode is the default mode. In tunnel mode, the original IP addresses are tunneled inside the encrypted header. In transport mode, the original IP addresses in the header are not encrypted and are used in the routing of the packet.

Reference: CCSP Quick Reference Sheets

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## QUESTION 5:

Cisco Easy VPN Server pushes parameters such as the client internal IP address, DHCP server IP address, and WINS server IP address to the Cisco Easy VPN Remote client during which of these phases?

- A. IKE mode configuration
- B. IKE XAUTH
- C. IKE Phase 1 first message exchange
- D. IKE quick mode
- E. IKE Phase 2 last message exchange

Answer: A

Explanation:

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