Cisco 640-553

640-553 IINS Implementing Cisco IOS Network Security

Practice Test

Version 14.25

QUESTION NO: 1

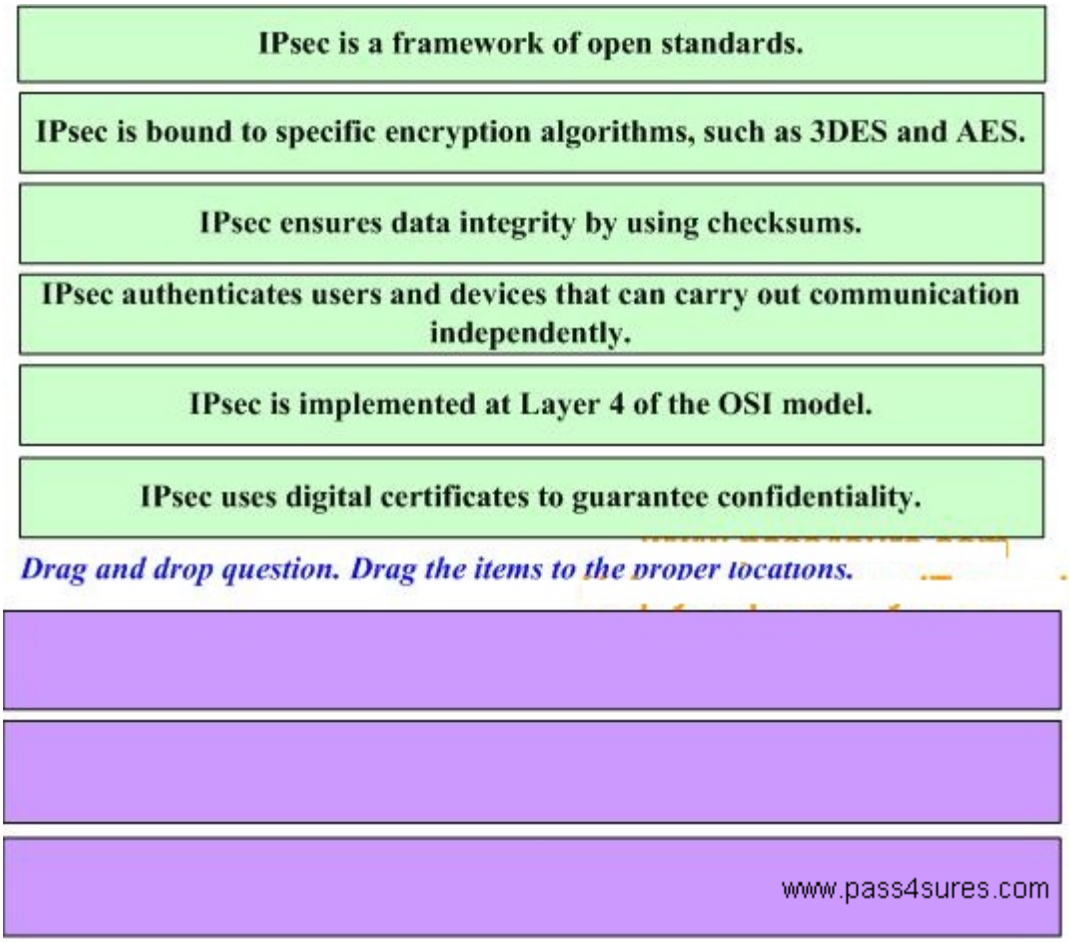
Which access list will permit HTTP traffic sourced from host 10.1.129.100 port 3030 destined to host 192.168.1.10?

A. access-list 101 permit tcp any eq 3030
B. access-list 101 permit tcp 10.1.128.0 0.0.1.255 eq 3030 192.168.1.0 0.0.0.15 eq www
C. access-list 101 permit tcp 10.1.129.0 0.0.0.255 eq www 192.168.1.10 0.0.0.0 eq www
D. access-list 101 permit tcp host 192.168.1.10 eq 80 10.1.0.0 0.0.255.255 eq 3030
E. access-list 101 permit tcp 192.168.1.10 0.0.0.0 eq 80 10.1.0.0 0.0.255.255
F. access-list 101 permit ip host 10.1.129.100 eq 3030 host 192.168.1.100 eq 80

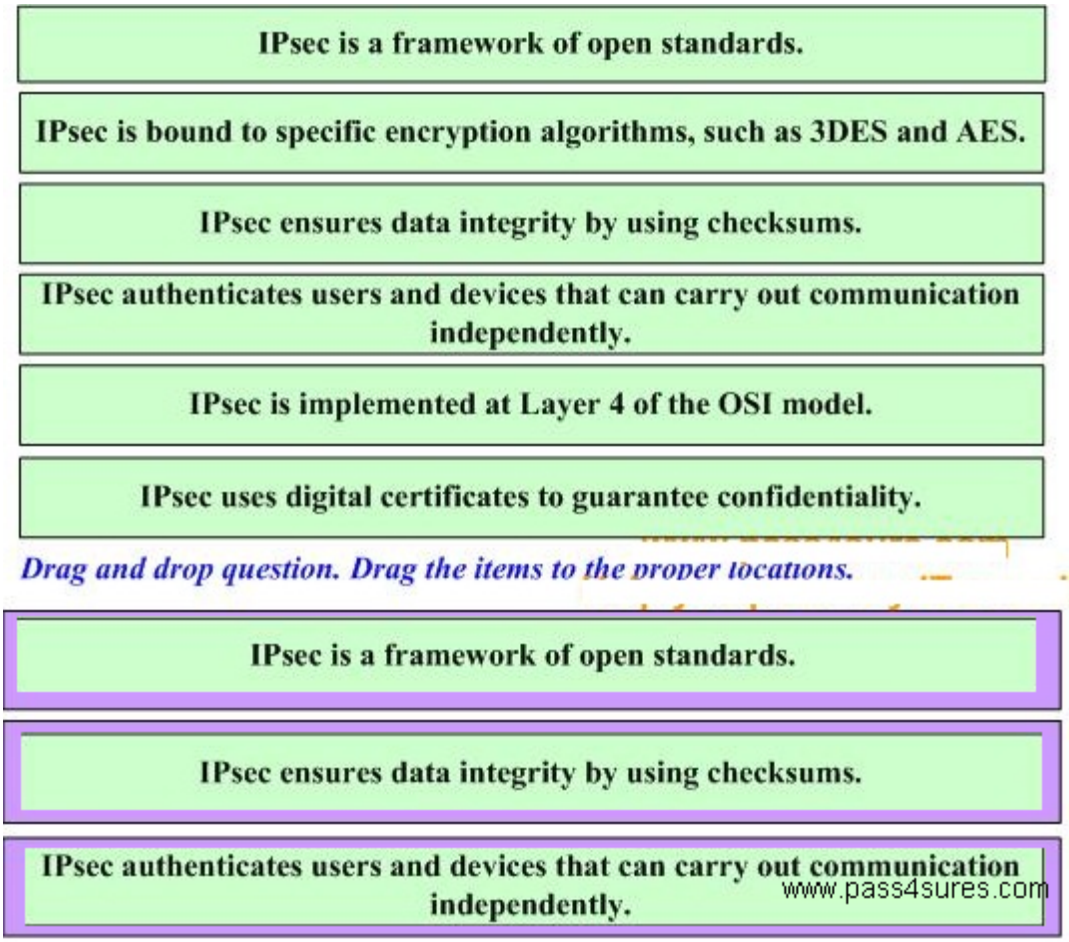
Answer: B

QUESTION NO: 2 DRAG DROP

Drag three proper statements about the IPsec protocol on the above to the list on the below.



Answer:



QUESTION NO: 3

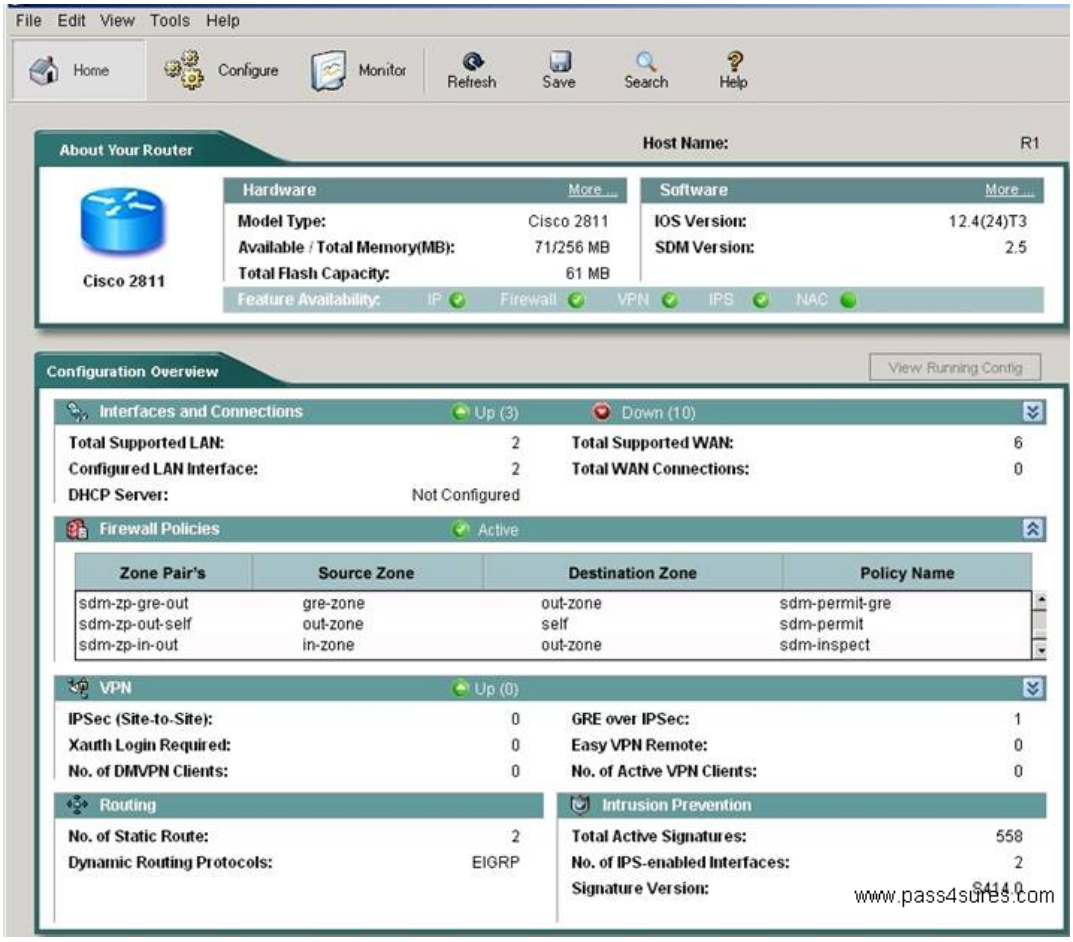
In a brute-force attack, what percentage of the keyspace must an attacker generally search through until he or she finds the key that decrypts the data?

A. Roughly 50 percent
B. Roughly 66 percent
C. Roughly 75 percent
D. Roughly 10 percent

Answer: A

QUESTION NO: 4

The information of Cisco Router and Security Device Manager(SDM) is shown below:


File Edit View Tools Help
Home
Configure
Monitor
Refresh
Save
Search
Help
About Your Router
Host Name: R1
Cisco 2811
Hardware
More ...
Model Type: Cisco 2811
Available / Total Memory(MB): 71/256 MB
Total Flash Capacity: 61 MB
Software
More ...
IOS Version: 12.4(24)T3
SDM Version: 2.5
Feature Availability: IP Firewall VPN IPS NAC
Configuration Overview
View Running Config
Interfaces and Connections
Up (3)
Down (10)
Total Supported LAN: 2
Configured LAN Interface: 2
DHCP Server: Not Configured
Total Supported WAN: 6
Total WAN Connections: 0
Firewall Policies
Active
Zone Pair's
Source Zone
Destination Zone
Policy Name
sdm-zp-gre-out
gre-zone
out-zone
sdm-permit-gre
sdm-zp-out-self
out-zone
self
sdm-permit
sdm-zp-in-out
in-zone
out-zone
sdm-inspect
VPN
Up (0)
IPSec (Site-to-Site): 0
Xauth Login Required: 0
No. of DMVPN Clients: 0
GRE over IPSec: 1
Easy VPN Remote: 0
No. of Active VPN Clients: 0
Routing
No. of Static Route: 2
Dynamic Routing Protocols: EIGRP
Intrusion Prevention
Total Active Signatures: 558
No. of IPS-enabled Interfaces: 2
Signature Version:
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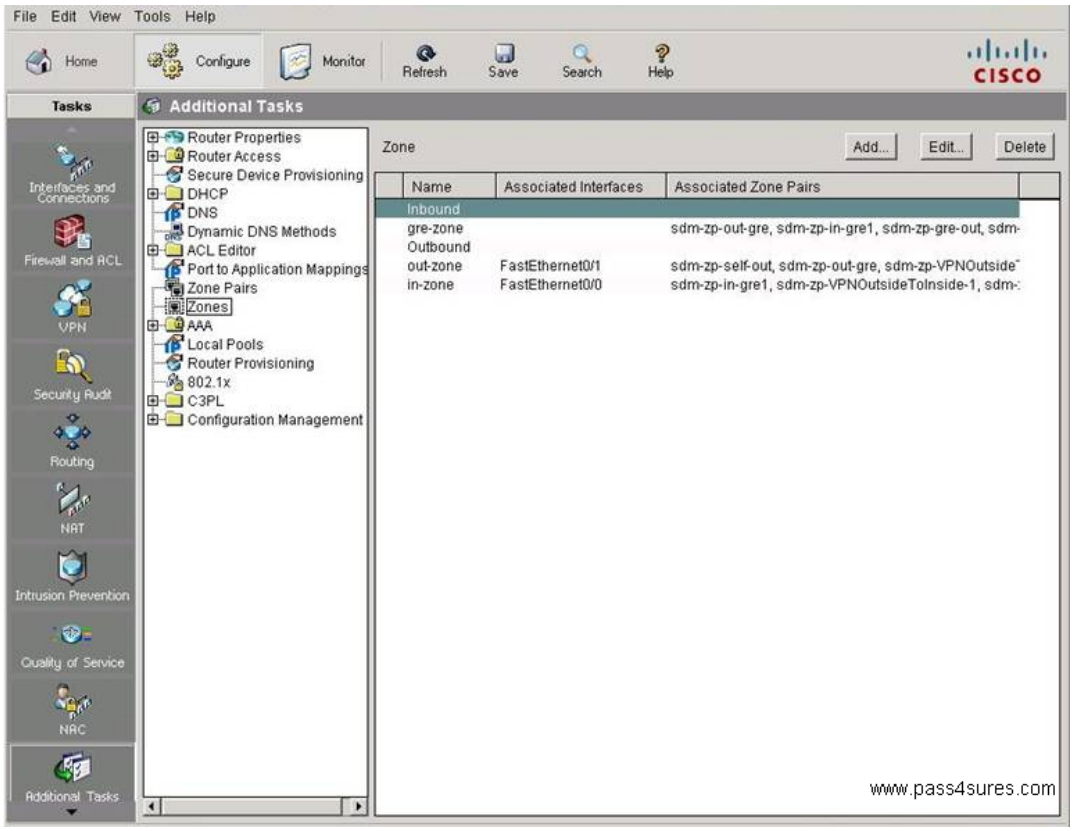
File Edit View Tools Help
Home
Configure
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Help
CISCO
Tasks
Additional Tasks
Router Properties
Router Access
Secure Device Provisioning
DHCP
DNS
Dynamic DNS Methods
ACL Editor
Port to Application Mappings
Zone Pairs
Zones
AAA
Local Pools
Router Provisioning
802.1x
C3PL
Configuration Management
Zone
Add...
Edit...
Delete
Name
Associated Interfaces
Associated Zone Pairs
Inbound
gre-zone
sdm-zp-out-gre, sdm-zp-in-gre1, sdm-zp-gre-out, sdm-
Outbound
out-zone
FastEthernet0/1
sdm-zp-self-out, sdm-zp-out-gre, sdm-zp-VPNOutside
in-zone
FastEthernet0/0
sdm-zp-in-gre1, sdm-zp-VPNOutsideToInside-1, sdm-
Interfaces and Connections
Firewall and ACL
VPN
Security Audit
Routing
NAT
Intrusion Prevention
Quality of Service
NAC
Additional Tasks
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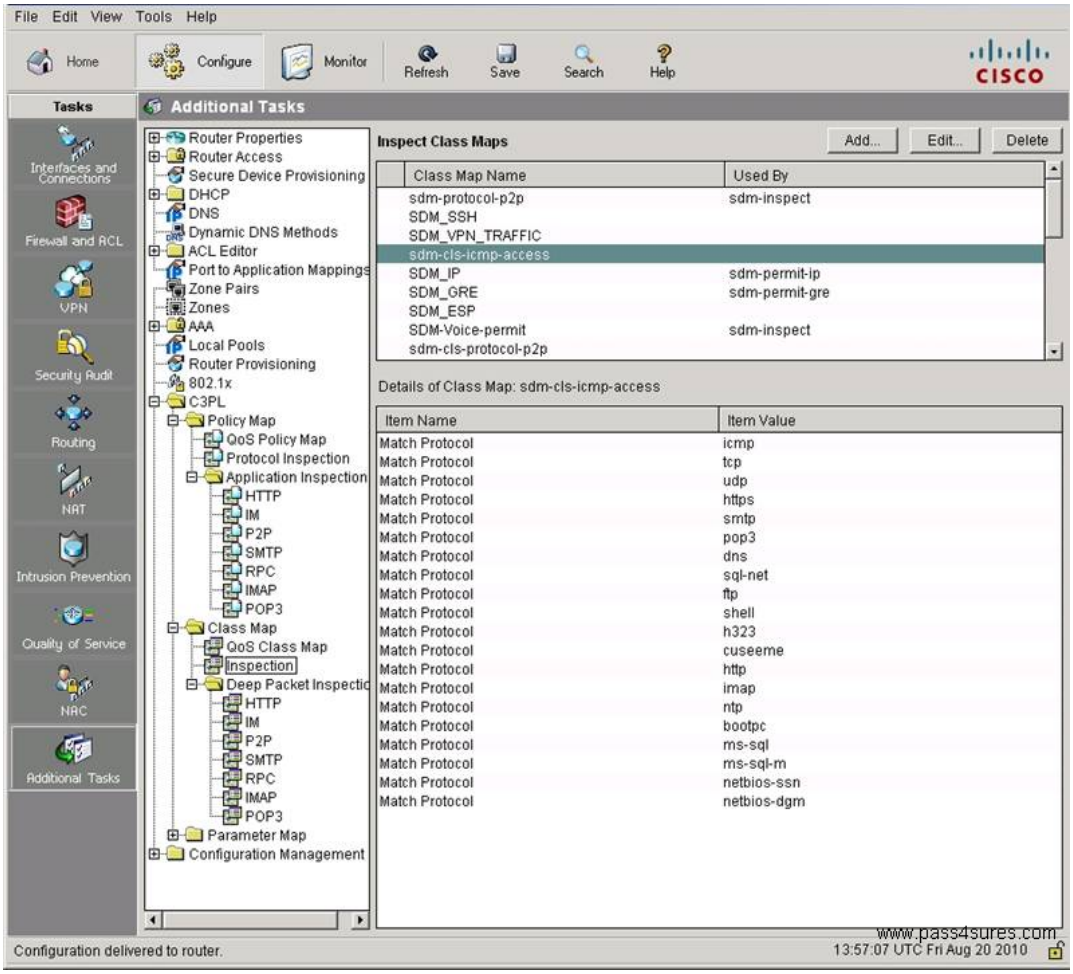
File Edit View Tools Help
Home
Configure
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Save
Search
Help
Tasks
Additional Tasks
Router Properties
Router Access
Secure Device Provisioning
DHCP
DNS
Dynamic DNS Methods
ACL Editor
Port to Application Mappings
Zone Pairs
Zones
AAA
Local Pools
Router Provisioning
802.1x
C3PL
Policy Map
QoS Policy Map
Protocol Inspection
Application Inspection
HTTP
IM
P2P
SMTP
RPC
IMAP
POP3
Class Map
QoS Class Map
Inspection
Deep Packet Inspectio
Parameter Map
Configuration Management
Inspect Class Maps
Add...
Edit...
Delete
Class Map Name
Used By
sdm-protocol-p2p
sdm-inspect
SDM_SSH
SDM_VPN_TRAFFIC
sdm-cls-icmp-access
SDM_IP
sdm-permit-ip
SDM_GRE
sdm-permit-gre
SDM_ESP
SDM-Voice-permit
sdm-inspect
sdm-cls-protocol-p2p
Details of Class Map: sdm-cls-icmp-access
Item Name
Item Value
Match Protocol
icmp
tcp
udp
https
smtp
pop3
dns
sql-net
ftp
shell
h323
cuseeme
http
imap
ntp
bootpc
ms-sql
ms-sql-m
netbios-ssn
netbios-dgm
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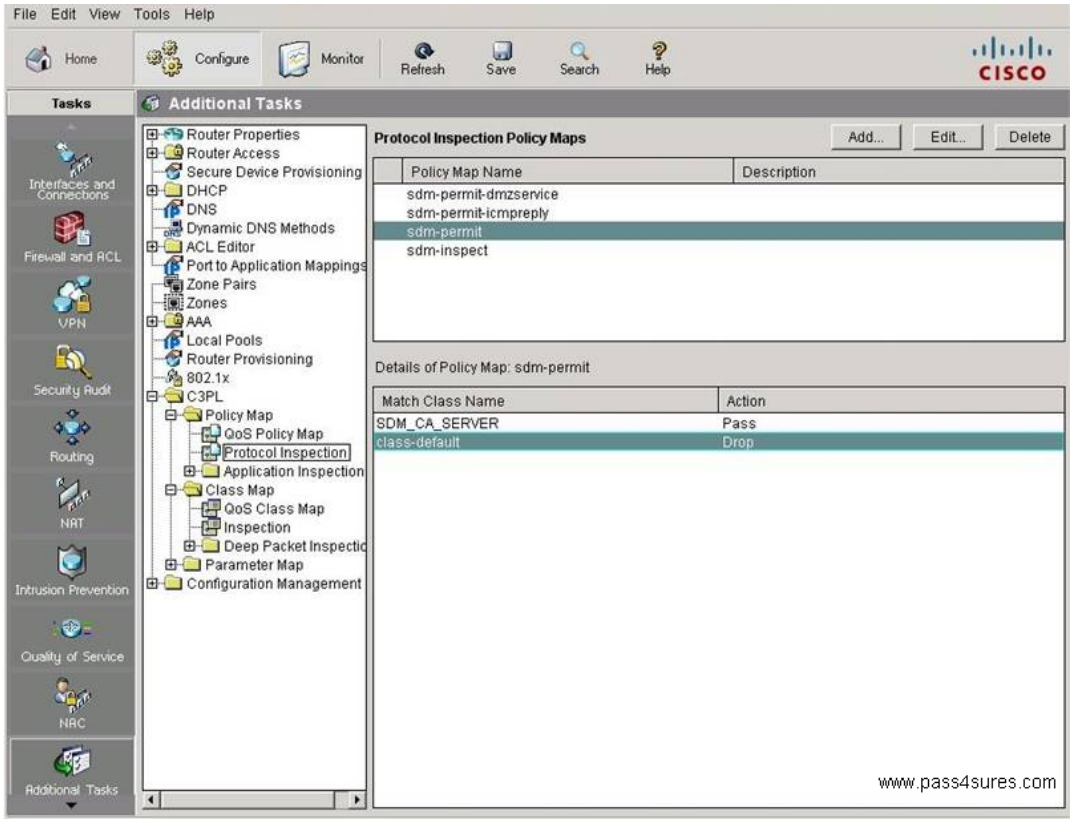
Configuration delivered to router.
13:57:07 UTC Fri Aug 20 2010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Policy Map
QoS Policy Map
Protocol Inspection
Application Inspection
Class Map
QoS Class Map
Inspection
Deep Packet Inspectio
Parameter Map
Configuration Management
Protocol Inspection Policy Maps
Add...
Edit...
Delete
Policy Map Name
Description
sdm-permit-dmzservice
sdm-permit-icmpreply
sdm-permit
sdm-inspect
Details of Policy Map: sdm-permit
Match Class Name
Action
SDM_CA_SERVER
Pass
class-default
Drop
Interfaces and Connections
Firewall and ACL
VPN
Security Audit
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NAT
Intrusion Prevention
Quality of Service
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Additional Tasks
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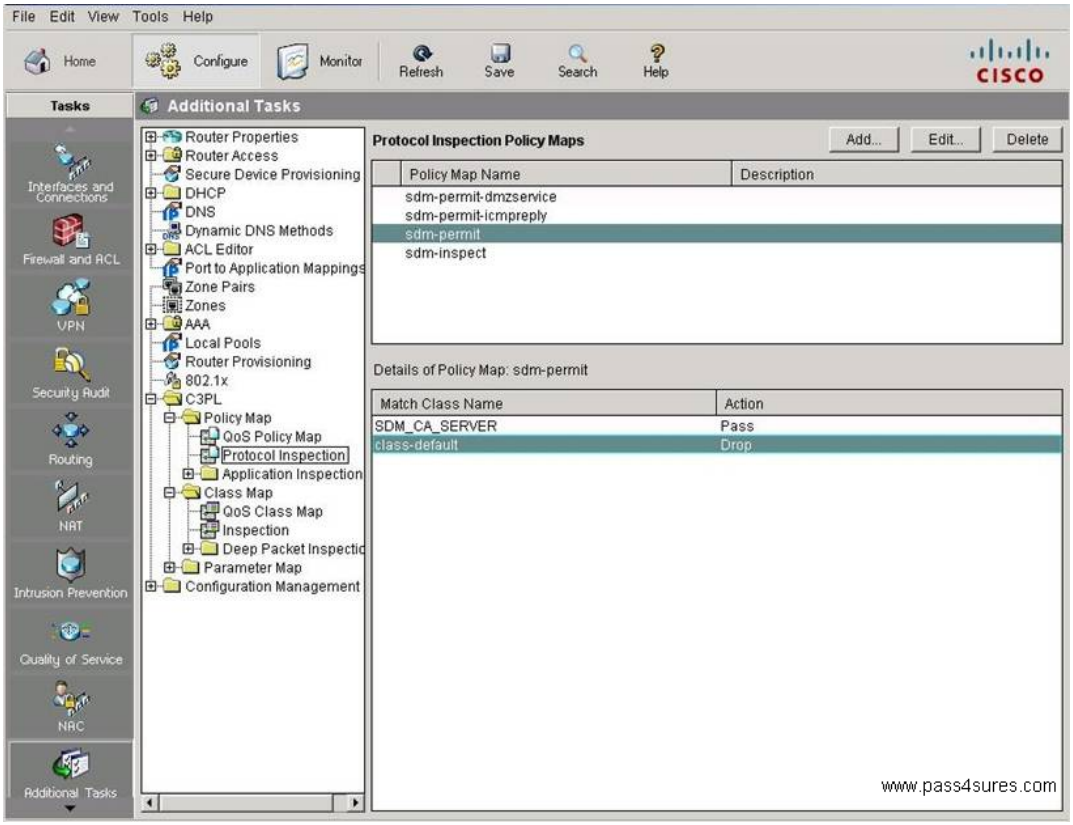
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Intrusion Prevention
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Additional Tasks
Protocol Inspection Policy Maps
Add...
Edit...
Delete
Policy Map Name
Description
sdm-permit-dmzservice
sdm-permit-icmpreply
sdm-permit
sdm-inspect
Details of Policy Map: sdm-permit
Match Class Name
Action
SDM_CA_SERVER
Pass
class-default
Drop
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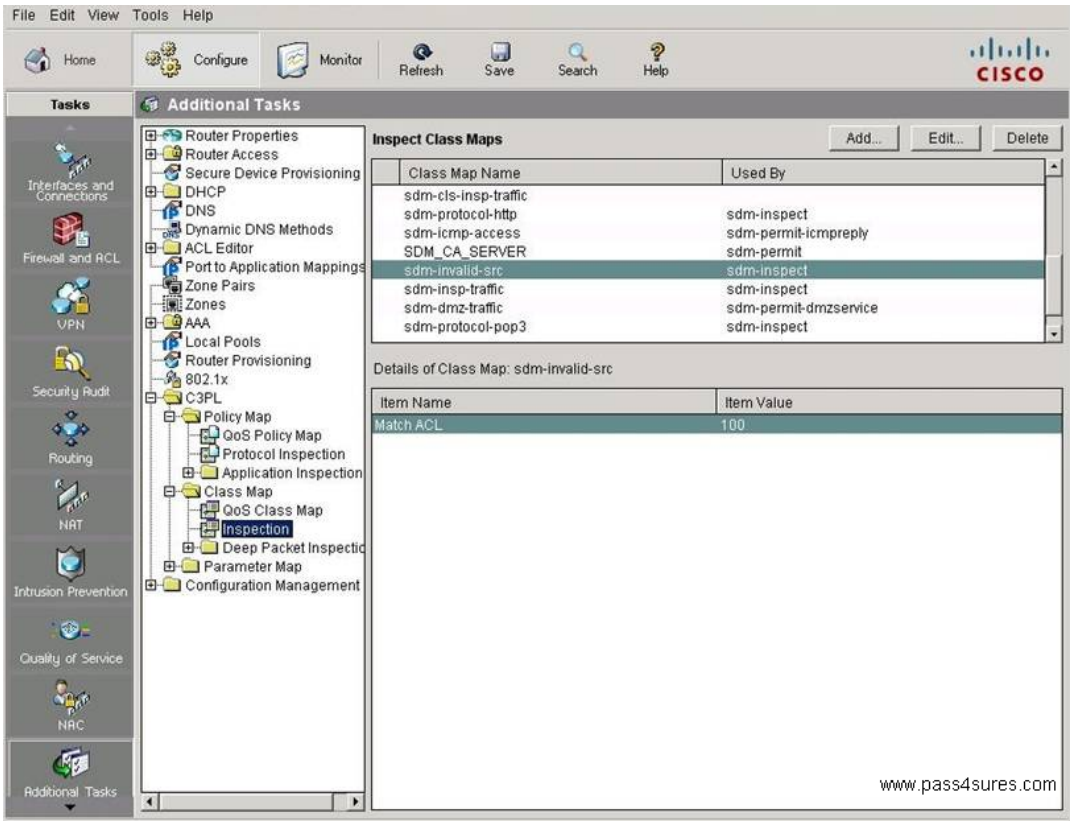
File Edit View Tools Help
Home
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Firewall and ACL
VPN
Security Audit
Routing
NAT
Intrusion Prevention
Quality of Service
NAC
Additional Tasks
Inspect Class Maps
Add...
Edit...
Delete
Class Map Name
Used By
sdm-cls-insp-traffic
sdm-protocol-http
sdm-inspect
sdm-icmp-access
sdm-permit-icmpreply
SDM_CA_SERVER
sdm-permit
sdm-invalid-src
sdm-inspect
sdm-insp-traffic
sdm-inspect
sdm-dmz-traffic
sdm-permit-dmzservice
sdm-protocol-pop3
sdm-inspect
Details of Class Map: sdm-invalid-src
Item Name
Item Value
Match ACL
100
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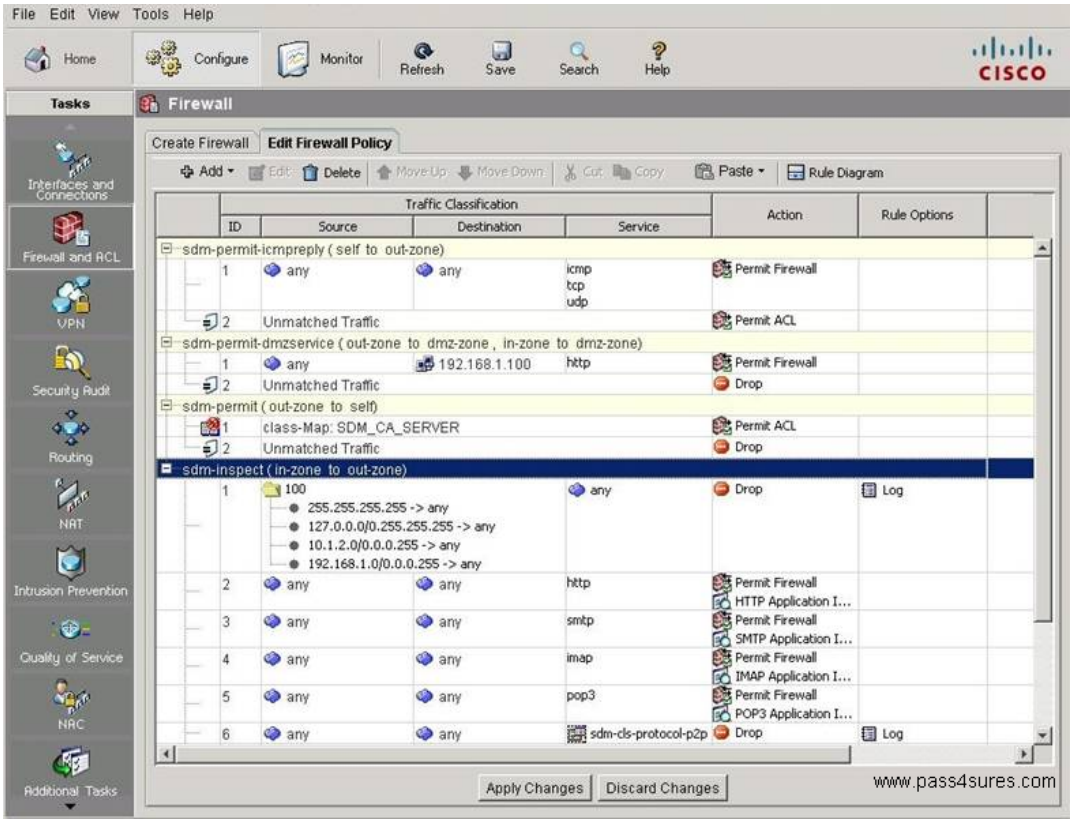
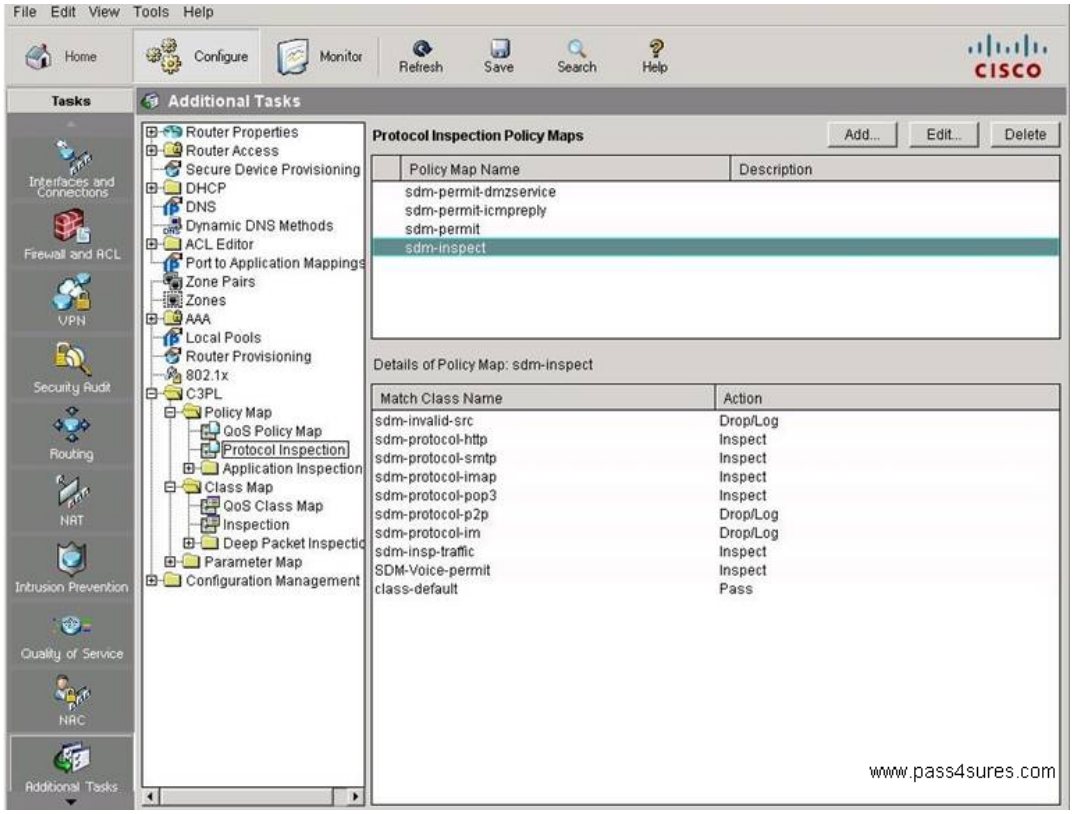




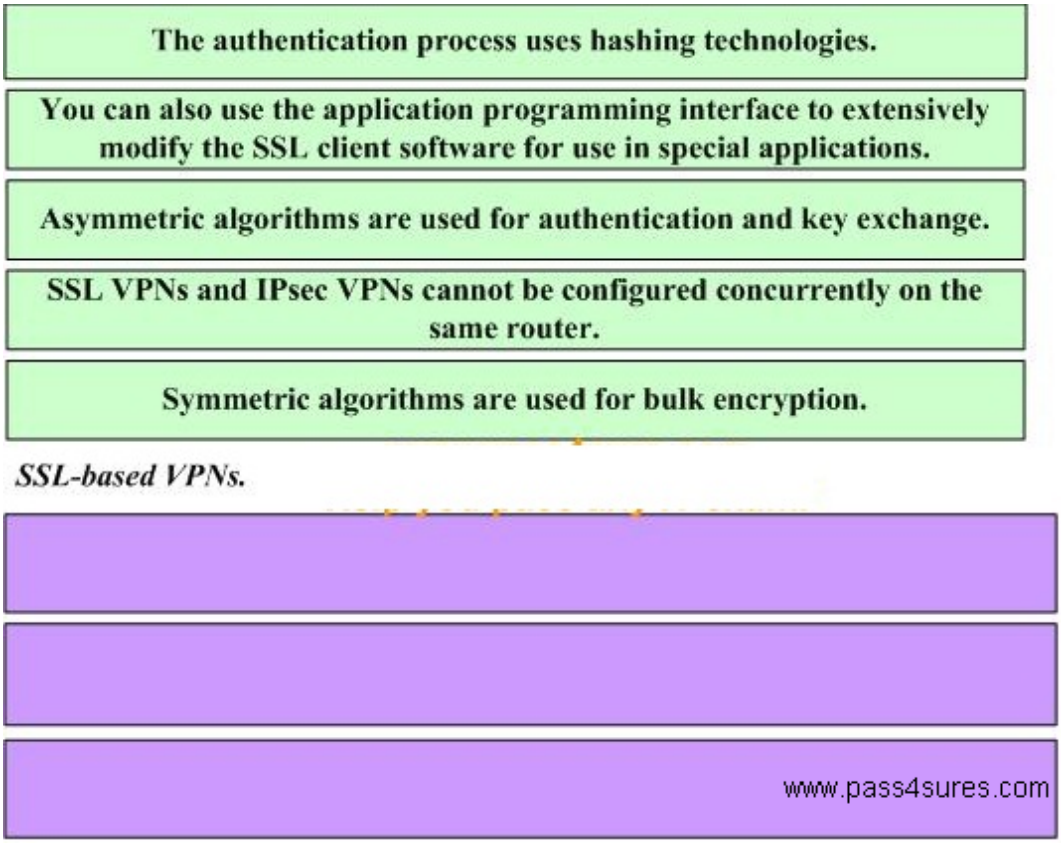
Within the "sdm-permit" policy map, what is the action assigned to the traffic class "class-default"?

A. inspect
B. pass
C. drop
D. police
E. log

Answer: C

QUESTION NO: 5 DRAG DROP

On the basis of the description of SSL-based VPN, place the correct descriptions in the proper locations.



Answer:

The authentication process uses hashing technologies.

You can also use the application programming interface to extensively modify the SSL client software for use in special applications.

Asymmetric algorithms are used for authentication and key exchange.

SSL VPNs and IPsec VPNs cannot be configured concurrently on the same router.

Symmetric algorithms are used for bulk encryption.

SSL-based VPNs.

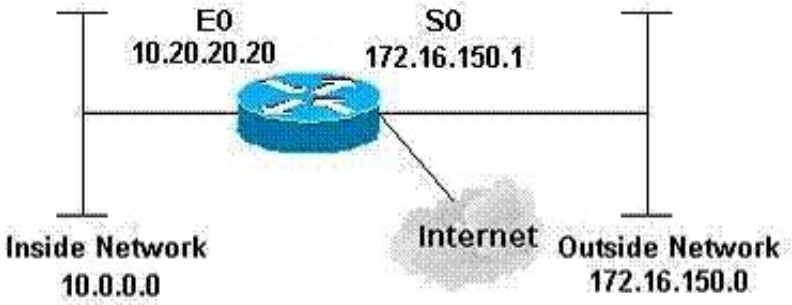
The authentication process uses hashing technologies.

Asymmetric algorithms are used for authentication and key exchange.

Symmetric algorithms are used for bulk encryption.

QUESTION NO: 6

Refer to the exhibit and partial configuration. Which statement is true?




```
interface Ethernet0
 ip address 10.20.20.20 255.255.255.0
 ip access-group 101 in
...
access-list 101 permit tcp 10.20.20.0 0.0.0.255 any
access-list 101 permit udp 10.20.20.0 0.0.0.255 any
access-list 101 permit icmp 10.20.20.0 0.0.0.255 any
```

A. All traffic destined for network 172.16.150.0 will be denied due to the implicit deny all.
B. All traffic from network 10.0.0.0 will be permitted.
C. Access-list 101 will prevent address spoofing from interface E0.
D. This is a misconfigured ACL resulting in traffic not being allowed into the router in interface S0.
E. This ACL will prevent any host on the Internet from spoofing the inside network address as the source address for packets coming into the router from the Internet.

Answer: C

QUESTION NO: 7

Which of these can be used to authenticate the IPsec peers during IKE Phase 1?

A. Diffie-Hellman Nonce
B. pre-shared key
C. XAUTH
D. integrity check value
E. ACS
F. AH

Answer: B

Explanation:
Internet Key Exchange (IKE) executes the following phases:
+ IKE Phase 1: Two IPsec peers perform the initial negotiation of SAs. Phase 1 generates an Internet Security Association and Key Management Protocol (ISAKMP) SA, used for management traffic. Public key techniques or, alternatively, a pre-shared key, are used to mutually authenticate the communicating parties. Phase 1 operates in either Main Mode or Aggressive Mode. Main Mode protects the identity of the peers, Aggressive Mode does not.
+ IKE Phase 2: SAs are negotiated by the IKE process ISAKMP on behalf of other services, such as IPsec, that need encryption key material for operation. IKE Phase 2 is used to build IPsec SAs, which are for passing end-user data. Additional service negotiations occur in IKE Phase 1, DPD, Mode Config, and so on

QUESTION NO: 8

Which description about asymmetric encryption algorithms is correct?

A. They use the same key for encryption and decryption of data.
B. They use different keys for decryption but the same key for encryption of data.
C. They use different keys for encryption and decryption of data.