



# NSE7\_EFW<sup>Q&As</sup>

NSE7 Enterprise Firewall - FortiOS 5.4

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### QUESTION 1

An administrator is running the following sniffer in a FortiGate:

diagnose sniffer packet any "host 10.0.2.10" 2

What information is included in the output of the sniffer? (Choose two.)

- A. Ethernet headers.
- B. IP payload.
- C. IP headers.
- D. Port names.

Correct Answer: BC

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### QUESTION 2

View the exhibit, which contains the partial output of an IKE real-time debug, and then answer the question below.

ike 0: comes 10.0.0.2:500->10.0.0.1:500, ifindex=7....

ike 0: IKEv1 exchange=Aggressive id=baf47d0988e9237f/2f405ef3952f6fda len=430

ike 0: in

BAF47D0988E9237F2F405EF3952F6FDA0110040000000000000001AE0400003C000000010000000100  
0000300101000

ike 0:RemoteSite:4: initiator: aggressive mode get 1st response... ike 0:RemoteSite:4: VID RFC 3947  
4A131c81070358455C5728F20E95452F ike 0:RemoteSite:4: VID DPD AFCAD71368A1F1C96B8696FC77570100

ike 0:RemoteSite:4: VID FORTIGATE 8299031757A36082C6A621DE000502D7

ike 0:RemoteSite:4: peer is FortiGate/Fortios (v5 b727)

ike 0:RemoteSite:4: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3

ike 0:RemoteSite:4: VID FRAGMENTATION 4048B7D56EBCE88525E7DE7F00D6C2D3C0000000

ike 0:RemoteSite:4: received peer identifier FQDN `remote\\`

ike 0:RemoteSite:4: negotiation result

ike 0:RemoteSite:4: proposal id = 1:

ike 0:RemoteSite:4: protocol id = ISAKMP:



ike 0:RemoteSite:4: trans\_id = KEY\_IKE.

ike 0:RemoteSite:4: encapsulation = IKE/none

ike 0:RemoteSite:4: type=OAKLEY\_ENCRYPT\_ALG, val=AES\_CBC, key ?en=128 ike 0:RemoteSite:4:

type=OAKLEY\_HASH\_ALG, val=SHA.

ike 0:RemoteSite:4: type-AUTH\_METHOD, val=PRESHARED\_KEY.

ike 0:RemoteSite:4: type=OAKLEY\_GROUP, val=MODP1024.

ike 0:RemoteSite:4: ISAKMP SA lifetime=86400

ike 0:RemoteSite:4: ISAKMP SA baf47d0988e9237f/2f405ef3952f6fda key 16:

B25B6C9384D8BDB24E3DA3DC90CF5E73

ike 0:RemoteSite:4: PSK authentication succeeded

ike 0:RemoteSite:4: authentication OK

ike 0:RemoteSite:4: add INITIAL-CONTACT

ike 0:RemoteSite:4: enc

BAF47D0988E9237F405EF3952F6FDA081004010000000000000080140000181F2E48BFD8E9D603F

ike 0:RemoteSite:4: out

BAF47D0988E9237F405EF3952F6FDA08100401000000000000008C2E3FC9BA061816A396F009A12 ike

0:RemoteSite:4: sent IKE msg (agg\_i2send): 10.0.0.1:500-10.0.0.2:500, len=140,

id=baf47d0988e9237f/2 ike 0:RemoteSite:4: established IKE SA baf47d0988e9237f/2f405ef3952f6fda Which statements about this debug output are correct? (Choose two.)

- A. The remote gateway IP address is 10.0.0.1.
- B. It shows a phase 1 negotiation.
- C. The negotiation is using AES128 encryption with CBC hash.
- D. The initiator has provided remote as its IPsec peer ID.

Correct Answer: BD

### QUESTION 3

Which of the following statements is true regarding a FortiGate configured as an explicit web proxy?

- A. FortiGate limits the number of simultaneous sessions per explicit web proxy user. This limit CANNOT be modified by the administrator.
- B. FortiGate limits the total number of simultaneous explicit web proxy users.
- C. FortiGate limits the number of simultaneous sessions per explicit web proxy user The limit CAN be modified by the



administrator

D. FortiGate limits the number of workstations that authenticate using the same web proxy user credentials. This limit CANNOT be modified by the administrator.

Correct Answer: C

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#### QUESTION 4

Four FortiGate devices configured for OSPF connected to the same broadcast domain. The first unit is elected as the designated router. The second unit is elected as the backup designated router. Under normal operation, how many OSPF full adjacencies are formed to each of the other two units?

- A. 1
- B. 2
- C. 3
- D. 4

Correct Answer: B

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#### QUESTION 5

An LDAP user cannot authenticate against a FortiGate device. Examine the real time debug output shown in the exhibit when the user attempted the authentication; then answer the question below.



```
# debug application fnbamd -1
# diagnose debug enable
# diagnose test authserver ldap WindowsLDAP student password
fnbamd_fsm.c[1819] handle_req-Rcvd auth req 5 for student in WindowsLDAP opt=27 prot=0
fnbamd_fsm.c[336] __compose_group_list_from_req-Group 'WindowsLDAP'
fnbamd_pop3.c[573] fnbamd_pop3_start-student
fnbamd_cfg.c[932] __fnbamd_cfg_get_ldap_list_by_server-Loading LDAP server
'WindowsLDAP'
fnbamd_ldap.c[992] resolve_ldap_FQDN-Resolved address 10.0.1.10, result 10.0.1.10
fnbamd_fsm.c[428] create_auth_session-Total 1 server(s) to try
fnbamd_ldap.c[437] start_search_dn-base: 'cn=user,dc=trainingAD,dc=training,dc=lab'
filter:cn=student
fnbamd_ldap.c[1730] fnbamd_ldap_get_result-Going to SEARCH state
fnbamd_fsm.c[2407] auth_ldap_result-Continue pending for req 5
fnbamd_ldap.c[480] get_all_dn-Found no DN
fnbamd_ldap.c[503] start_next_dn_bind-No more DN left
fnbamd_ldap.c[2028] fnbamd_ldap_get_result-Auth denied
fnbamd_auth.c[2188] fnbamd_auth_poll_ldap-Result for ldap svr 10.0.1.10 is denied
fnbamd_comm.c[169] fnbamd_comm_send_result-Sending result 1 for req 5
fnbamd_fsm.c[568] destroy_auth_session-delete session 5
authenticate 'student' against 'WindowsLDAP' failed!
```

Based on the output in the exhibit, what can cause this authentication problem?

- A. User student is not found in the LDAP server.
- B. User student is using a wrong password.
- C. The FortiGate has been configured with the wrong password for the LDAP administrator.
- D. The FortiGate has been configured with the wrong authentication schema.

Correct Answer: A

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