Past-paper walk-through

Protecting Networks: Firewalls ▪ 3.4

eXercise

Questions in this set

- 2026 Q4 ▪ 1 mark

Question 4

2026 ▪ Q4 ▪ 1 mark

A network technician is unable to access a server using port 443 from a machine with an IP address of 192.168.45.37. Consider the server's firewall access control list (ACL): rules 1-2 allow inbound TCP 22 and 80 from ALL; rule 3 denies inbound TCP 443 from 192.168.0.0-192.168.255.255; rule 7 allows inbound TCP 443 from ALL; rule 10 denies ALL. ACL rules are checked in order and the first match wins. Which of the following changes to the firewall would allow the network technician to access the server? **[1]**

A Swap firewall rule 1 with firewall rule 10

B Swap firewall rule 3 with firewall rule 4

C Swap firewall rule 3 with firewall rule 7

D Swap firewall rule 4 with firewall rule 7

Question 4

Rule Number	Allow/Deny	Direction	Protocol	Port	Source
1	Allow	Inbound	TCP	22	ALL
2	Allow	Inbound	TCP	80	ALL
3	Deny	Inbound	TCP	443	192.168.0.0 - 192.168.255.255
4	Allow	Inbound	ICMP	ALL	ALL
5	Allow	Inbound	TCP	3306	ALL
6	Deny	Inbound	TCP	3389	ALL
7	Allow	Inbound	TCP	443	ALL
8	Allow	Inbound	TCP	587	ALL
9	Deny	Inbound	TCP	8140	192.168.45.0 - 192.168.45.255
10	Deny	Inbound	ALL	ALL	ALL

Solution 4

A Swap firewall rule 1 with firewall rule 10

B Swap firewall rule 3 with firewall rule 4

C Swap firewall rule 3 with firewall rule 7 ✅

D Swap firewall rule 4 with firewall rule 7

Answer: **C**