

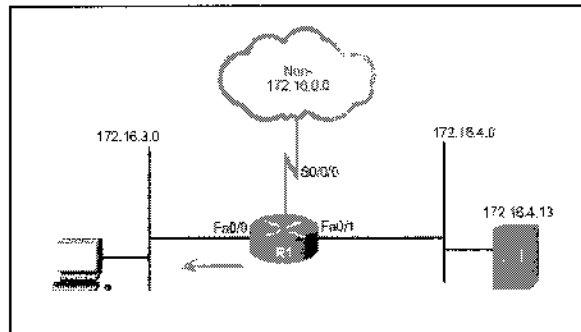


Kafrelsheikh University - Faculty of Engineering			
Course	Network Security	Date	20/6/2021
Time	2 Hours	Mark	40
Students	4 th year Computers and Systems		

Answer all the following questions:

Q1: In the following configuration:

- R1(config)# access-list 1 deny 172.16.4.0 0.0.0.255
- R1(config)# access-list 1 permit any
- R1(config)# interface FastEthernet 0/0
- R1(config-if)# ip access-group 1 out



- Explain each line in the configuration code. (4 Marks)
- What happens if the second line in the configuration code is omitted? Explain your answer. (3 Marks)
- What happens if the access list is moved as close to the source? Explain your answer. (3 Marks)

Q3. For the following configuration:

```

R1# conf t
R1(config)# username JR-ADMIN password cisco12345
R1(config)# username ADMIN secret cisco54321
R1(config)# line con 0
R1(config-line)# login local
R1(config-line)# end
R1#
R1# show run | include username
username JR-ADMIN password 7 060506324F41584B364347
username ADMIN secret 5 $16G2c0RnDvad5iz76WJmS0vtza8T0
R1#

```

- a. Explain the configuration code. (4 Marks)
- b. Explain the difference between the password and the secret commands. (3 Marks)
- c. Change the following code to enforce a minimum password length of 6. (3 Marks)

Q3. In the following Configuration.

```

R1# configure terminal
R1(config)# username ADMIN secret cisco54321
R1(config)# line vty 0 4
R1(config-line)# login local
R1(config-line)# exit
R1(config)# login block-for 120 attempts 3 within 60
R1(config)# access-list standard PERMIT-ADMIN
R1(config-std-nacl)# remark Permit only Administrative hosts
R1(config-std-nacl)# permit 192.168.10.10
R1(config-std-nacl)# permit 192.168.11.10
R1(config-std-nacl)# exit
R1(config)# login quiet-mode access-class PERMIT-ADMIN
R1(config)# login delay 10
R1(config)# login on-success log
R1(config)# login on-failure log
R1(config)# exit

```

- a- Explain the configuration code. (4 Marks)
- b- Change the above configuration to allow ip address 192.168.32.12 to access the router in the Quiet mode. (3 Marks)
- c- In the above configuration, what will happen if the login delay is changed to 20 seconds? (3 Marks)

Q4: Explain the following terms of IPS Signature Alarms: (10 Marks)

- a- Pattern-Based Detection b-Anomaly-Based Detection c- Policy-Based Detection

Good Luck and Best Wishes

Dr. Ibrahim Elashry