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CompTIA JK0-019

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QUESTION NO: 1

Which of the following BEST describes a load balancer?

A. A device that splits traffic between multiple nodes of a clustered service.

B. A device that allows multiple computers to access the internet through a single public IP address.

C. A device that filters internet content based on rules and ACLs.

D. A device that separates users onto separate WAPs for even distribution.

ANSWER: A

QUESTION NO: 2

A technician is setting up a wireless access point and wants to keep it as secure as possible. Which of the following settings should be configured for security purposes? (Select TWO).

A. Channel

B. Encryption

C. Diversity

D. SSID broadcast

E. Frequency

ANSWER: B D

QUESTION NO: 3

Which of the following tools would a technician use to determine if a CAT6 cable is properly terminated?

A. Cable tester

B. Punch down tool

C. Crimper

D. Multimeter

ANSWER: A

QUESTION NO: 4

A technician is troubleshooting a network connectivity issue on a laptop. The technician wants to verify the NIC is functioning on the laptop. Which of the following commands should the technician use?

A. ping 127.0.0.1

B. ping 169.254.0.1

C. tracert 192.168.0.1

D. nslookup 10.4.0.1

ANSWER: A

QUESTION NO: 5

Various desktop computers are not getting a link light even though the patch cables were replaced. Cables on a 110-block patch panel are suspected to be causing the issues. Which of the following hardware tools would MOST likely be used to troubleshoot and resolve the issue? (Select TWO).

A. Cable certifier

B. Ping command

C. Punch down tool

D. Crimper

E. Toner probe

ANSWER: A C

QUESTION NO: 6

A customer is implementing a VoIP infrastructure using an existing network. The customer currently has all network devices on the same subnet and would like the phones to be powered without the use of an AC adapter. Which of the following features should be enabled and configured to allow for reliable performance of the VoIP system? (Select THREE).

A. WEP

B. PoE

C. VLANs

D. SSL VPN

E. IDS

F. QoS

ANSWER: B C F

QUESTION NO: 7

Which of the following uses SSL encryption?

A. SMTP

B. FTP

C. HTTPS

D. SNMP

ANSWER: C

Explanation:

HTTPS is the result of simply layering the Hypertext Transfer Protocol (HTTP) on top of the SSL/TLS protocol, thus adding the security capabilities of SSL/TLS to standard HTTP communications.

QUESTION NO: 8

A network technician is setting up a wireless access point that would only allow a certain laptop to be able to access the WAP. By using ACL, which of the following would be filtered to ensure only the authorized laptop can access the WAP?

A. NetBIOS name filtering

B. IP address filtering

C. MAC address filtering

D. Computer name filtering

ANSWER: C

Explanation:

MAC Filtering (or EUI filtering, or layer 2 address filtering) refers to a security access control method whereby the 48-bit address assigned to each network card is used to determine access to the network.

MAC addresses are uniquely assigned to each card, so using MAC filtering on a network permits and denies network access to specific devices through the use of blacklists and whitelists. While the restriction of network access through the use of lists is straightforward, an individual person is not identified by a MAC address, rather a device only, so an authorized person will need to have a whitelist entry for each device that he or she would use to access the network.

QUESTION NO: 9

Which of the following connector types are used in terminating singlemode fiber cables? (Select TWO).

A. LC

B. F-connector

C. DB-9

D. BNC

E. RJ-11

F. SC

ANSWER: A F

Explanation:

A variety of optical fiber connectors are available, but SC and LC connectors are the most common types of connectors on the market.[citation needed] Typical connectors are rated for 500–1,000 mating cycles. The main differences among types of connectors are dimensions and methods of mechanical coupling. Generally, organizations will standardize on one kind of connector, depending on what equipment they commonly use. Different connectors are required for multimode, and for single-mode fibers

QUESTION NO: 10

A customer with a SOHO requires fast, secure, cost-effective access to the Internet. Which of the following would be the MOST appropriate solution? (Select TWO).

A. OC3 line with built-in firewall

B. DS3 line with a separate firewall

C. Cable modem with a separate firewall

D. Dial-up modem with separate firewall

E. DSL router with firewall capabilities

ANSWER: C E

QUESTION NO: 11

Which of the following OSI model layers are present in the application layer of the TCP/IP model? (Select TWO).

A. Data Link

B. Transport

C. Network

D. Session

E. Presentation

ANSWER: D E

QUESTION NO: 12

A technician is installing a switch that will be used for VoIP and data traffic. The phones do not support the 802.3af standard. Which of the following should the technician configure on the switch?

A. VLAN

B. PoE

C. VTP

D. QoS

ANSWER: D

QUESTION NO: 13

Which of the following is used to describe trunking VLANs on a network?

A. 802.11a

B. 802.11i

C. 802.1q

D. 802.1x

ANSWER: C

QUESTION NO: 14

A proxy server would MOST likely be installed to provide which of the following functions? (Select TWO).

A. Combined DNS and DHCP hosting

B. Encryption

C. Content filtering

D. Fault tolerance

E. Website caching

ANSWER: C E

QUESTION NO: 15

Which of the following network topologies is MOST likely used in remote access VPN?

A. Point to Point

B. Bus

C. Ring

D. Mesh

ANSWER: A

QUESTION NO: 16

Which of the following performance optimization techniques would be MOST beneficial for a network-wide VoIP setup? (Select TWO).

A. Proxy server

B. Traffic shaping

C. Caching engines

D. Load balancing

E. Quality of service

ANSWER: B E

Explanation:

Things to consider are:

Latency: Delay for packet delivery

Jitter: Variations in delay of packet delivery

Packet loss: Too much traffic in the network causes the network to drop packets

Burstiness of Loss and Jitter: Loss and Discards (due to jitter) tend to occur in bursts

QUESTION NO: 17

An administrator configuring remote access opens ports 500/UDP and 10000/UDP on the firewall. Which of the following services are MOST likely being allowed? (Select TWO).

A. SSL

B. IPSec

C. Kerberos

D. RDP

E. L2TP

F. PPTP

ANSWER: B E

QUESTION NO: 18

Which of the following DNS records is used in conjunction with 192:168::1:10?

A. AAAA

B. MX

C. TXT

D. PTR

ANSWER: A

QUESTION NO: 19

Which of the following should be mitigated by employing proper coding techniques when developing software?

A. Distributed denial of service attacks

B. Buffer overflows

C. War driving

D. Packet sniffing

ANSWER: B

QUESTION NO: 20

An administrator needs to open ports in the firewall for both DNS and eDNS. Which of the following default ports would need to be opened on the firewall? (Select TWO).

A. TCP 23

B. TCP 53

C. TCP 123

D. UDP 23

E. UDP 53

F. UDP 123

ANSWER: B E

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