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QUESTION 1

A technician is in a large room that contains a large amount of industrial equipment. The technician would like to record the usable bandwidth between devices in a wireless network and the access point. Which of the following should the technician document?

A. Goodput

B. EMI

C. Latency

D. Jitter

E. Overhead

Correct Answer: A

QUESTION 2

A technician needs to limit the amount of broadcast traffic on a network and allow different segments to communicate with each other. Which of the following options would satisfy these requirements?

A. Add a router and enable OSPF.

B. Add a layer 3 switch and create a VLAN.

C. Add a bridge between two switches.

D. Add a firewall and implement proper ACL.

Correct Answer: B

We can limit the amount of broadcast traffic on a switched network by dividing the computers into logical network segments called VLANs.

A virtual local area network (VLAN) is a logical group of computers that appear to be on the same LAN even if they are on separate IP subnets. These logical subnets are configured in the network switches. Each VLAN is a broadcast domain meaning that only computers within the same VLAN will receive broadcast traffic.

To allow different segments (VLAN) to communicate with each other, a router is required to establish a connection between the systems. We can use a network router to route between the VLANs or we can use a `Layer 3\\' switch. Unlike layer 2 switches that can only read the contents of the data-link layer protocol header in the packets they process, layer 3 switches can read the (IP) addresses in the network layer protocol header as well.

QUESTION 3

A national cable company providing TV, telephone, and Internet service to home users over its IP network, has been tracking a large increase of network bandwidth due to P2P file sharing. Which of the following should the company deploy to ensure excellent TV and telephone service?

A. QoS

B. Load balancing

C. High availability

D. Fiber optics

Correct Answer: A

QUESTION 4

A user moves from one office to another. When the user logs onto their computer, it has local access to shared drives but no Internet access. A technician determines that the computer has an IP address in the wrong subnet. Which of the following is MOST likely the cause?

A. Incorrect VLAN

B. MTU mismatch

C. Hijacked HOSTS file

D. Missing routes

Correct Answer: A

QUESTION 5

Which of the following WAP security features offers the STRONGEST encryption?

A. WPA

B. WPA2

C. WEP

D. Hidden SSID

Correct Answer: B

QUESTION 6

Which of the following devices is utilized to ensure traffic does not become congested while traveling over redundant links?

A. Access control list

B. Load balancer

C. Content filter

D. Proxy server

Correct Answer: B

Load balancing is a computer networking method for distributing workloads across multiple computing resources, such as computers, a computer cluster, network links, central processing units or disk drives. Load balancing aims to optimize resource use, maximize throughput, minimize response time, and avoid overload of any one of the resources.

QUESTION 7

A patch panel was recently installed in a new IDF. The technician was reviewing the ports on the patch panel, and though they looked correct, they were too small to receive patch cables with RJ-45 connectors. Which of the following types of connectors should be used on this patch panel?

A. RJ-11

B. RJ-48C

C. RS-232

D. DB-25

Correct Answer: A

QUESTION 8

A network architect is designing a highly redundant network with a distance vector routing protocol in order to prevent routing loops, the architect has configured the routers to advertise failed routes with the addition of an infinite metric. Which of the following methods has the architect chosen?

A. Spanning tree

B. Split horizon

C. Route poisoning

D. Hold down timers

Correct Answer: C

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QUESTION 9

Which of the following should a technician upgrade to if the existing wireless standard only allows for three non-overlapping channels and more non-overlapping channels are needed?

A. 802.11b

B. 802.11g

C. 802.11n

D. 802.1q

Correct Answer: C

QUESTION 10

A client is concerned with theft of equipment from the datacenter. Which of the following would provide the highest level of physical security for the client?

A. Cipher lock

B. Proximity reader

C. Magnetic key swipe

D. Man trap

E. CCTV

Correct Answer: D

QUESTION 11

A technician is setting up a new network and wants to create redundant paths through the network. Which of the following should be implemented to prevent performance degradation?

A. Port mirroring

B. Spanning tree

C. ARP inspection

D. VLAN

Correct Answer: B

QUESTION 12

Which of the following is used to define how much bandwidth can be used by various protocols on the network?

A. Traffic shaping

B. High availability

C. Load balancing

D. Fault tolerance

Correct Answer: A

If a network connection becomes saturated to the point where there is a significant level of contention, network latency can rise substantially. Traffic shaping is used to control the bandwidth used by network traffic. In a corporate environment, business-related traffic may be given priority over other traffic. Traffic can be prioritized based on the ports used by the application sending the traffic. Delayed traffic is stored in a buffer until the higher priority traffic has been sent.

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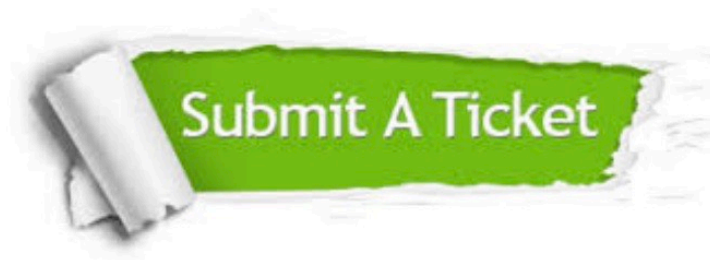Multi-Platform capabilities - Windows, Mac, Android, iPhone, iPod, iPad, Kindle

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