

# CompTIA

## Exam Questions JK0-019

CompTIA Network+ Certification Exam (JK0-019)



#### NEW QUESTION 1

In which of the following layers of the OSI model would MAC addressing be found?

- A. Network
- B. Application
- C. Data Link
- D. Transport

**Answer: C**

#### Explanation:

The ITU-T G.hn standard, which provides high-speed local area networking over existing wires (power lines, phone lines and coaxial cables), includes a complete data link layer which provides both error correction and flow control by means of a selective repeat Sliding Window Protocol.

#### NEW QUESTION 2

Which of the following LAN technologies is used to provide a MAXIMUM bandwidth of 1Gbps through singlemode fiber?

- A. 10GBaseLR
- B. 100BaseFX
- C. 100BaseTX
- D. 1000BaseX

**Answer: D**

#### Explanation:

1000BaseX identifies various Gigabit Ethernet physical layer standards as defined in IEEE802.3z, such as 1000BaseLX, 1000BaseSX, 1000BaseCX and 1000BaseLH. Basically, all standards included in 1000BaseX uses 8B/10B coding scheme with 8 bits of data and 2 bits of error- correction data. Each specification allows various cable (fiber or copper) lengths, and uses different cable media.

#### NEW QUESTION 3

Which of the following properties of DHCP would a technician use to ensure an IP address is not leased out from the active scope?

- A. Reservations
- B. Lease times
- C. Removing IPs from the active leases
- D. Configuring the DNS options

**Answer: A**

#### Explanation:

Reservations are permanent lease assignments that are used to ensure that a specified client on a subnet can always use the same IP address. You can use DHCP reservations for hosts that require a consistent IP address, but do not need to be statically configured.

#### NEW QUESTION 4

Spanning-Tree Protocol is used with which of the following network devices?

- A. Router
- B. NIC
- C. Switch
- D. DHCP server

**Answer: C**

#### Explanation:

Spanning Tree Protocol (STP) is a Layer 2 protocol that runs on bridges and switches. The specification for STP is IEEE 802.1D. The main purpose of STP is to ensure that you do not create loops when you have redundant paths in your network. Loops are deadly to a network.

#### NEW QUESTION 5

Discover, Offer, Request, and Acknowledge are the steps for which of the following protocols?

- A. DNS
- B. DOS
- C. DHCP
- D. DSL

**Answer: C**

#### Explanation:

when we install a dhcp server into our network then dhcp server works on the basis of dora process first dhcp server sends a hello message in to the network to discover the clients pc and when any client pc found in the network then, dhcp server offers the IP to client pc. When client pc selects any IP from dhcp server then client pc request for selected IP to dhcp server then dhcp server provide that IP to client pc and both send acknowledgement to each other.

#### NEW QUESTION 6

At which of the following layers of the OSI model does ASCII work?

- A. Session
- B. Transport
- C. Presentation
- D. Application

**Answer: C**

**Explanation:**

The presentation layer is responsible for the delivery and formatting of information to the application layer for further processing or display. It relieves the application layer of concern regarding syntactical differences in data representation within the end-user systems. An example of a presentation service would be the conversion of an EBCDIC-coded text computer file to an ASCII-coded file.

**NEW QUESTION 7**

Which of the following uses port 23 by default?

- A. TELNET
- B. IMAP
- C. FTP
- D. SNMP

**Answer: A**

**Explanation:**

Telnet is a network protocol used on the Internet or local area networks to provide a bidirectional interactive text-oriented communication facility using a virtual terminal connection. User data is interspersed in-band with Telnet control information in an 8-bit byte oriented data connection over the Transmission Control Protocol (TCP).

**NEW QUESTION 8**

A user is unable to access any network resources. The IP configuration of the workstation is as follows:

IP Address: 192.168.10.32

Subnet Mask: 255.255.255.240

Default Gateway: 192.168.10.46

Which of the following would allow the user to connect to network resources?

- A. Change the default gateway to 192.168.10.1
- B. Change the default gateway to 192.168.10.254
- C. Change the IP address to 192.168.10.31
- D. Change the IP address to 192.168.10.33

**Answer: D**

**Explanation:**

The given ip address is network id which we don't assign to the host so the next ip is applicable to this.

**NEW QUESTION 9**

Which of the following protocols resolves IP addresses to MAC addresses?

- A. DNS
- B. ARP
- C. RARP
- D. NTP

**Answer: B**

**Explanation:**

ARP is used to convert an IP address to a physical address such as an Ethernet address. ARP has been implemented with many combinations of network and data link layer technologies, such as IPv4, Chaosnet, DECnet and Xerox PARC Universal Packet (PUP) using IEEE 802 standards, FDDI, X.25, Frame Relay and Asynchronous Transfer Mode (ATM). IPv4 over IEEE 802.3 and IEEE 802.11 is the most common case.

**NEW QUESTION 10**

Which of the following port numbers is used for SNMP?

- A. 61
- B. 151
- C. 161
- D. 1611

**Answer: C**

**Explanation:**

Simple Network Management Protocol (SNMP) is an "Internet-standard protocol for managing devices on IP networks". Devices that typically support SNMP include routers, switches, servers, workstations, printers, modem racks, UPSes and more. It is used mostly in network management systems to monitor network-attached devices for conditions that warrant administrative attention.

**NEW QUESTION 10**

Which of the following is the definition of a DNS server?

- A. Hosts proprietary business applications
- B. Translates FQDN's to IP addresses
- C. Provides network IDS/IPS security
- D. Assigns IP addresses to network devices

**Answer: B**

**Explanation:**

Domain Name System (DNS) is the name resolution protocol for TCP/IP networks, such as the Internet. Client computers query a DNS server to resolve memorable, alphanumeric DNS names to the IP addresses that computers use to communicate with each other.

**NEW QUESTION 11**

Which of the following features can BEST be used to facilitate authorized remote access to a network?

- A. VPN concentrator
- B. Proxy server
- C. Content filter
- D. Load balancer

**Answer: A**

**Explanation:**

The VPN Concentrator is used for Remote Access VPN's. In typical use, a Remote Access VPN allows users to use an encrypted tunnel to securely access a corporate or other network via the Internet.

**NEW QUESTION 13**

In order to limit the number of dynamic addresses of hosts on a network, which of the following can be implemented?

- A. Scope options
- B. Leases
- C. Reservations
- D. DNS suffixes

**Answer: A**

**NEW QUESTION 15**

Which of the following routing protocols utilizes the DUAL algorithm for determining best path?

- A. EIGRP
- B. RIPv2
- C. OSPF
- D. RIP

**Answer: A**

**Explanation:**

Diffusing Update Algorithm guarantees loop-free operation and provides a mechanism for fast convergence.

**NEW QUESTION 20**

The network interface layer of the TCP/IP model corresponds with which of the following layers of the OSI model? (Select TWO).

- A. Transport layer
- B. Network layer
- C. Session layer
- D. Physical layer
- E. Presentation layer
- F. Data link layer

**Answer: DF**

**Explanation:**

The lowest layer of the OSI Reference Model is the physical layer, which is responsible for the "nitty gritty" details of transmitting information from one place to another on a network. The layer just above the physical layer is the data link layer, called the network interface layer or just the link layer in the TCP/IP architectural model. Its primary job is to implement networks at the local level, and to interface between the hardware-oriented physical layer, and the more abstract, software-oriented functions of the network layer and those above it.

**NEW QUESTION 22**

The APIPA address 169.254.10.123 falls into which of the following class of addresses?

- A. A
- B. B
- C. C
- D. D

**Answer: B**

**Explanation:**

As the range for class B is from 128.0.0.0 to 191.255.255.255

**NEW QUESTION 26**

A technician replaces a failed router in an office with the same model unit using the default settings. After the installation, the technician reboots all of the PCs and servers. Upon reboot

some of the PCs are receiving IP addresses on the same subnet as the new router; other PCs are receiving addresses on the same subnet as the servers. Which of the following most likely describes the issue?

- A. The DHCP lease pool was not large enough
- B. DHCP lease times were set too low
- C. The router is not the only DHCP server
- D. DHCP was not enabled on the replacement router

**Answer: C**

**Explanation:**

This happens when there are multiple DHCP servers in the same LAN subnet. Here some machines are getting ip address from the router while some are getting ip address from another DHCP server present in the same domain.

**NEW QUESTION 30**

Which of the following is the OSI layer that handles file compression such as LZMA or DEFLATE?

- A. Layer 3
- B. Layer 5
- C. Layer 6
- D. Layer 7

**Answer: C**

**Explanation:**

The presentation level is translator between the application and network format. Unlike the lower layers, its concern is with the syntax and semantics of the information transmitted. Most user programs do not exchange random binary bit strings. They exchange data such as names, addresses, dates, etc. Different computers store the data in a different way. In order to allow these computers to transmit the data to each other the presentation layer translates the data into a standard form to be used on the network. Another function is data compression which can be used to reduce the number of bits needed to send the packet of information. Security is also added at this layer by using data encryption and decryption. This prevents others from intercepting the data and being able to decipher the meaning of the bits.

**NEW QUESTION 34**

Which of the following provides secure access to a network device?

- A. SNMPv2
- B. FTP
- C. RSH
- D. SSH

**Answer: D**

**Explanation:**

Secure Shell (SSH) is a cryptographic network protocol for secure data communication, remote command-line login, remote command execution, and other secure network services between two networked computers that connects, via a secure channel over an insecure network, a server and a client (running SSH server and SSH client programs, respectively).

**NEW QUESTION 38**

Which of the following uses distance vector algorithms to determine the BEST network route to a destination address?

- A. IS-IS
- B. OSPF
- C. BGP
- D. RIP

**Answer: D**

**Explanation:**

Here the term distance vector refers to the fact that the protocol manipulates vectors (arrays) of distances to other nodes in the network

**NEW QUESTION 41**

Which of the following uses classless subnet masks across a network?

- A. Subnetting
- B. CIDR
- C. Supernetting
- D. Summarization

**Answer: B**

**Explanation:**

Classless Inter-Domain Routing is based on variable-length subnet masking (VLSM), which allows a network to be divided into variously sized subnets, providing the opportunity to size a network more appropriately for local needs and also CIDR allows an address or routing prefix to be written with a suffix indicating the number of bits of the prefix, such as 192.168.2.0/24.

**NEW QUESTION 42**

If a NIC does not have a link light, there is a failure at which of the following OSI layers?

- A. Physical
- B. Session
- C. Data link
- D. Presentation

**Answer: A**

**Explanation:**

The NIC does not have light refers to a situation that there could be a fault in the LAN cable or the ports are down and all of these fall under the physical layer. To make it simple, it falls in physical layer because blinking lights refers to the physical connectivity.

**NEW QUESTION 44**

Which of the following OSI layers allows users to access network services such as file sharing?

- A. Layer 1
- B. Layer 3
- C. Layer 4
- D. Layer 7

**Answer: D**

**Explanation:**

Basically File Transfer protocol (FTP) is responsible for file transfer which lies under Application layer (Layer 7) of OSI layers.

**NEW QUESTION 46**

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: CE**

**Explanation:**

A content-filtering web proxy server provides administrative control over the content that may be relayed in one or both directions through the proxy. A caching proxy server accelerates service requests by retrieving content saved from a previous request made by the same client or even other clients.

**NEW QUESTION 47**

An administrator notices SMTP traffic is being blocked by the company firewall. Which of the following ports should be opened?

- A. 25
- B. 53
- C. 110
- D. 443

**Answer: A**

**Explanation:**

SMTP is an Internet standard for electronic mail (e-mail) transmission across Internet Protocol (IP) networks. SMTP uses TCP port 25.

**NEW QUESTION 52**

Which of the following is an example of a Class C address?

- A. 10.19.0.79
- B. 127.34.8.197
- C. 176.96.1.222
- D. 192.168.1.105

**Answer: D**

**Explanation:**

Class C address range varies from 192.0.0.0 to 223.255.255.255.

**NEW QUESTION 57**

Which of the following protocols uses port 3389 by default?

- A. RDP
- B. TFTP
- C. IMAP
- D. DNS

**Answer:** A

**NEW QUESTION 62**

A customer has requested that a new piece of network equipment be installed so that the customer can have multiple subnets for each department, but allow network traffic from each department to reach one another without the use of a router. Which of the following network devices would satisfy this customer's requirements?

- A. Packet filter
- B. Layer 3 switch
- C. Stateful firewall
- D. Wireless bridge

**Answer:** B

**NEW QUESTION 66**

Which of the following network protocols is used to transport email across the Internet?

- A. NTP
- B. SSH
- C. SMTP
- D. SNMP

**Answer:** C

**NEW QUESTION 70**

Which of the following is MOST commonly implemented for remote access to UNIX systems?

- A. SSL
- B. RSH
- C. SSH
- D. RDP

**Answer:** C

**NEW QUESTION 74**

Which of the following network devices builds a table of ports to MAC addresses to forward packets only to necessary ports?

- A. Switch
- B. Hub
- C. Router
- D. Repeater

**Answer:** A

**NEW QUESTION 75**

A company has one public IP address, and only one device needs to be able to connect to the Internet at a time. Which of the following is the BEST option for connectivity?

- A. VLSM
- B. CIDR
- C. NAT
- D. PAT

**Answer:** C

**NEW QUESTION 76**

Which of the following protocols does DNS utilize on port 53?

- A. TCP
- B. FTP
- C. RTP
- D. ICMP

**Answer:** A

**NEW QUESTION 78**

At which of the following layers do IP addresses exist?

- A. TCP/IP model Internet layer
- B. OSI model Data Link layer

- C. TCP/IP model Transport layer
- D. OSI model Physical layer

**Answer:** A

**NEW QUESTION 79**

Which two layers of the OSI model make up the TCP/IP model Network Interface layer?

- A. Application and Transport
- B. Transport and Session
- C. Physical and Data Link
- D. Session and Presentation

**Answer:** C

**NEW QUESTION 80**

Which of the following services are affected by closing the default ports of 80 and 21 via ACL on a company router?

- A. FTP and basic Internet traffic
- B. HTTPS and IMAP traffic
- C. DNS and TELNET traffic
- D. VPN and RDP traffic

**Answer:** A

**NEW QUESTION 85**

A network administrator is tasked with blocking unwanted spam is being relayed by an internal email server. Which of the following is the FIRST step in preventing spam that is originating from bots on the network?

- A. Closing off port 25 on the firewall
- B. Closing off port 53 on the firewall
- C. Turning off the SMTP service on the email server
- D. Turning off the IMAP service on the email server

**Answer:** A

**NEW QUESTION 90**

Which of the following protocols are used to provide accurate time to network devices?

- A. SMTP
- B. FTP
- C. TLS
- D. NTP

**Answer:** D

**NEW QUESTION 94**

At which layer of the OSI model do MAC addresses operate?

- A. Data Link
- B. Network
- C. Application
- D. Physical

**Answer:** A

**NEW QUESTION 99**

A network technician recently replaced a managed switch in an enterprise network with a new managed switch. Users on the switch can communicate with each other but now cannot access other network segments. Which of the following is the MOST likely reason that the users are unable to access any network segments?

- A. The newly installed switch is defective and must be returned.
- B. The newly installed switch is using a different MAC address than the previous switch.
- C. The technician forgot to change the VTP mode on the new switch to server.
- D. The technician did not use the correct cable when trunking the new switch.

**Answer:** D

**NEW QUESTION 102**

Users report that they are unable to access the production server with IP address 192.168.30.17. These users need to be provided access without changing any subnet to VLAN information. The VLANs configured on the network are listed below:

DepartmentVLAN #Subnet used Marketing20192.168.20.0/28 Customer Service25192.168.20.64/28 Finance30192.168.30.0/28 WHSE35192.168.30.16/28 Sales40192.168.3.16/28

The users experiencing this issue need to be added to which of the following VLANs?

- A. 25
- B. 30
- C. 35
- D. 40

**Answer: C**

**NEW QUESTION 107**

Which of the following is the minimum subnet mask to allow 172.16.1.5 and 172.16.4.3 to be on

- A. /19
- B. /21
- C. /22
- D. /24

**Answer: B**

**NEW QUESTION 108**

DHCP uses which of the following ports by default?

- A. 21
- B. 23
- C. 68
- D. 443

**Answer: C**

**NEW QUESTION 112**

A network technician visits a site that needs voice connectivity to the corporate office and installs four IP phones. The phone exchange resides at the telephone company. Which of the following technologies is being used?

- A. Virtual switch
- B. Virtual server
- C. Virtual desktop
- D. Virtual PBX

**Answer: D**

**NEW QUESTION 113**

A MAC address is a part of which of the following OSI model layers?

- A. Network
- B. Data Link
- C. Physical
- D. Transport

**Answer: B**

**NEW QUESTION 115**

The systems administrator has assigned an IP address and default gateway to a standard Layer 2 switch. Which of the following would be the primary purpose of doing this?

- A. Allow VLAN routing
- B. Enable packet filtering on the switch
- C. Allow remote administration of the switch
- D. Enable MAC filtering on the switch

**Answer: C**

**NEW QUESTION 118**

Which of the following dynamic routing protocols selects routing paths based upon hop count?

- A. BGP
- B. RIP
- C. OSPF
- D. IGRP

**Answer: B**

**NEW QUESTION 119**

A technician, Joe, visits a site that has reported a network down emergency. He immediately reboots the switches and the router since the network is down. Which of the following network troubleshooting methodology steps should Joe have performed FIRST?

- A. Determine if anything has changed
- B. Once a theory is confirmed determine the next step is to resolve the problem

- C. Implement the solution or escalate as necessary
- D. Question the obvious

**Answer:** A

**NEW QUESTION 124**

A technician finds that the network card is no longer functioning. At which of the following OSI layers is the problem occurring?

- A. Layer 1
- B. Layer 3
- C. Layer 5
- D. Layer 7

**Answer:** A

**NEW QUESTION 129**

Standards such as JPEG and ASCII operate at which of the following OSI model layers?

- A. Presentation
- B. Data link
- C. Session
- D. Application

**Answer:** A

**NEW QUESTION 133**

Which of the following protocols are used to view and send mail from a local host off of a remote server? (Select TWO).

- A. TFTP
- B. SNMP
- C. POP3
- D. IMAP4
- E. SFTP

**Answer:** CD

**NEW QUESTION 138**

Layers 5, 6, and 7 from the OSI model correspond to which of the following layers of the TCP/IP model?

- A. Transport
- B. Application
- C. Internet
- D. Network Interface

**Answer:** B

**NEW QUESTION 140**

Which of the following TCP/IP model layers does the OSI model Data Link layer map to?

- A. Application
- B. Transport
- C. Internet
- D. Network Interface

**Answer:** D

**NEW QUESTION 142**

Which of the following ports is used by Telnet?

- A. 21
- B. 23
- C. 80
- D. 143

**Answer:** B

**NEW QUESTION 145**

Which of the following network protocols would be used to transmit traps across a network to a log server?

- A. SMTP
- B. PPPoE
- C. POP3
- D. SNMP

**Answer:** D

**NEW QUESTION 149**

Which of the following port numbers needs to be open on a firewall to allow FTP traffic?

- A. 21
- B. 22
- C. 23
- D. 25

**Answer: A**

**NEW QUESTION 151**

Which of the following is considered a routing metric?

- A. Hop count
- B. QoS
- C. Subnet size
- D. IP address

**Answer: A**

**NEW QUESTION 154**

At which of the following layers of the OSI model is the Logical Link Control found?

- A. Layer 2
- B. Layer 3
- C. Layer 4
- D. Layer 5

**Answer: A**

**NEW QUESTION 158**

After a new firewall is installed, users report that they do not have connectivity to the Internet. The output of the ipconfig command shows an IP address of 169.254.0.101. Which of the following ports would need to be opened on the firewall to allow the users to obtain an IP address? (Select TWO).

- A. UDP 53
- B. UDP 67
- C. UDP 68
- D. TCP 53
- E. TCP 67
- F. TCP 68

**Answer: BC**

**NEW QUESTION 161**

Users in several departments are reporting connectivity problems. The technician examines the computer and finds the following settings. The IP address is 10.0.1.0 with a subnet mask of 255.255.252.0. The default gateway is 10.0.1.1 and the DNS server is 10.0.0.15. A user can connect to the internet but not servers on other internal subnets. The technician is not able to connect with a server with an IP of 10.0.2.25. Which of the following is MOST likely the problem?

- A. Default gateway
- B. Duplicate IP address
- C. Wrong DNS
- D. Subnet mask

**Answer: D**

**NEW QUESTION 163**

At which layer of the TCP/IP model would cabling exist?

- A. Network Interface
- B. Internet
- C. Application
- D. Transport

**Answer: A**

**NEW QUESTION 168**

Which of the following routing protocols can be utilized as both an IGP and EGP?

- A. EIGRP
- B. RIP
- C. IGRP
- D. RIPv2

**Answer: A**

**NEW QUESTION 171**

Which of the following layers of the OSI model is responsible for stripping the TCP port information before sending the packet up to the next layer?

- A. 2
- B. 3
- C. 4
- D. 5

**Answer: C**

**NEW QUESTION 174**

Which of the following IP address/CIDR combinations represent public address space? (Select TWO).

- A. 10.1.1.1/8
- B. 172.15.1.1/16
- C. 172.16.1.1/16
- D. 172.31.1.1/16
- E. 193.168.2.1/24
- F. 224.0.0.1/32

**Answer: BE**

**NEW QUESTION 176**

Which of the following contains the SYN and ACK flags?

- A. UDP header
- B. IP header
- C. TCP header
- D. ICMP header

**Answer: C**

**NEW QUESTION 178**

Which of the following remote access protocols is commonly used for command line access to a device?

- A. RAS
- B. VPN
- C. RDP
- D. SSH

**Answer: D**

**NEW QUESTION 180**

A technician wants to send management information from devices on the network to a central server and have it encrypted in the process. Which of the following protocols can be used?

- A. SNMPv3
- B. FTP
- C. TFTP
- D. Telnet

**Answer: A**

**NEW QUESTION 184**

Which of the following would be considered a Class C private address?

- A. 10.0.0.125
- B. 192.168.50.125
- C. 192.169.0.132
- D. 255.255.255.0

**Answer: B**

**NEW QUESTION 187**

Which of the following are valid hosts for the Private IP Address range 172.16.0.x /23? (Select TWO).

- A. 172.16.0.255
- B. 172.16.0.0
- C. 172.16.1.1
- D. 172.16.8.0
- E. 172.16.256.255

**Answer: AC**

**NEW QUESTION 192**

A technician has resolved a ticket to fix a user's printer and has verified that the user is able to print with no issues. Which of the following action steps should the technician perform FIRST?

- A. Document findings and outcomes
- B. Establish a theory of probably cause
- C. Upgrade the printer drivers
- D. Close out the service ticket

**Answer:** A

#### NEW QUESTION 194

Which of the following OSI model layers is used to frame packets that are sent over a medium?

- A. Session
- B. Data link
- C. Physical
- D. Transport

**Answer:** B

#### NEW QUESTION 195

Which of the following protocols occurs at Layer 4 of the OSI model?

- A. ISDN
- B. IPX
- C. GRE
- D. UDP

**Answer:** D

#### NEW QUESTION 197

Which of the following protocols exchange the latest information that has changed in the routing table?

- A. TFTP
- B. BGP
- C. OSPF
- D. IGMP

**Answer:** C

#### NEW QUESTION 200

A network administrator has been assigned the 192.168.2.64/26 network and assigns the following computer's IP addresses:

- \* 192.168.2.70
- \* 192.168.2.100
- \* 192.168.2.125
- \* 192.168.2.130

When the administrator tries to ping the other computers from 192.168.2.130, an ECHO REPLY is not received. Which of the following must the network administrator do?

- A. Change the IP of 192.168.2.130 to 192.168.1.128.
- B. Change the IP of 192.168.2.130 to 192.168.2.126.
- C. Change the default gateway of 192.168.2.130 accordingly.
- D. Reconfigure the switch for the right VLAN.

**Answer:** B

#### NEW QUESTION 203

The BEST way to determine the next hop of a packet is to check the:

- A. link state.
- B. routing table.
- C. routing metrics.
- D. convergence.

**Answer:** B

#### NEW QUESTION 206

Which of the following reside at a minimum of Layer 3 of the OSI model? (Select TWO).

- A. Hub
- B. Switch
- C. MAC address
- D. IP address
- E. Router

**Answer:** DE

**NEW QUESTION 210**

Which of the following differentiates a layer 3 switch from a layer 2 switch?

- A. Routing
- B. Bridging
- C. Switching
- D. Repeating

**Answer: A**

**NEW QUESTION 215**

Which of the following records allows for reverse DNS lookups?

- A. AAAA
- B. A
- C. PTR
- D. CNAME

**Answer: C**

**NEW QUESTION 218**

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**

**NEW QUESTION 222**

When a loop occurs, which of the following STP components determines which port to disable?

- A. Convergence
- B. Root bridge
- C. BPDU guard
- D. MAC address

**Answer: B**

**NEW QUESTION 227**

The term virtual switch refers to which of the following?

- A. A switch that has not yet been implemented in the local network
- B. Migrating an entire environment to virtualization
- C. A computer component that controls environmental elements, such as lights and thermometers
- D. A logical, rather than a physical switch device

**Answer: D**

**NEW QUESTION 231**

Which IEEE protocol is used with VLAN technology?

- A. 802.11a
- B. 802.11b
- C. 802.1m
- D. 802.1q

**Answer: D**

**NEW QUESTION 234**

A network administrator notices that load balancing is not working properly on the web cluster as previously configured. In speaking with management, a change to the IP addressing scheme was made yesterday which possibly affected one member of the cluster. Due to the timing of the events, the administrator theorizes that this change caused the problem. Which of the following should the administrator do NEXT?

- A. Escalate to the management team
- B. Change the IP address back to its previous state
- C. Test the theory by analyzing logs
- D. Create a plan of action to present to management

**Answer: C**

**NEW QUESTION 235**

A technician has been tasked to set-up a managed switch. Which of the following will the technician need to accomplish this task?

- A. IP address
- B. Switch serial number
- C. VLAN tag
- D. Loopback plug

**Answer:** A

**NEW QUESTION 238**

A user reports intermittent network connectivity from their desktop PC. A technician determines the cause to be a bad wall jack and fixes the jack. Which of the following should the technician do NEXT?

- A. Test the theory
- B. Document the outcome
- C. Verify functionality

**Answer:** D

**NEW QUESTION 243**

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

**NEW QUESTION 247**

A company pays a third-party vendor a monthly fee to connect to offsite servers and desktops. Users connect to the desktops via RDP, and administrators connect to the servers via VPN. Servers and desktops are hardware-based. Which of the following is the third-party providing?

- A. Virtual desktops
- B. Virtual servers
- C. NaaS
- D. SaaS

**Answer:** C

**NEW QUESTION 250**

A forward lookup zone converts which of the following?

- A. IP addresses to hostnames
- B. Hostnames to IP addresses
- C. MAC addresses to IP addresses
- D. IP Addresses to MAC addresses

**Answer:** B

**NEW QUESTION 254**

A user reports lack of network connectivity on their desktop. Which of the following is the FIRST step of the network troubleshooting methodology that the technician should perform?

- A. Establish a plan of action to resolve the problem.
- B. Establish a theory of probable cause by questioning the obvious.
- C. Test the theory to determine the cause.
- D. Question the user to determine if anything has changed.

**Answer:** D

**NEW QUESTION 255**

A technician has narrowed down the cause of a problem to two possible sources. Which of the following should the technician do NEXT?

- A. Implement a solution for both causes to be sure all possibilities are covered.
- B. Choose the more likely cause and test to confirm.
- C. Establish a plan of action for each.
- D. Choose the less likely cause and test to eliminate.

**Answer:** B

**NEW QUESTION 257**

In order for switching loops to be automatically disabled, which of the following needs to be implemented?

- A. Routing tables
- B. Collision domains
- C. Port mirroring

D. Spanning-tree protocol

**Answer:** D

**NEW QUESTION 259**

A number of remote users have reported being unable to securely log on to the company's network. Upon speaking with some of the employees experiencing the issue, no changes were made to their configurations, usernames, or passwords. The technician establishes a theory that one of the VPN concentrators may be down. Which of the following should the technician do NEXT?

- A. Plan to reboot the concentrator as the potential solution
- B. Escalate the problem to management
- C. Continue to speak to users, questioning if changes have been made
- D. Test access to the concentrator to confirm the status

**Answer:** D

**NEW QUESTION 262**

Which of the following standards can operate at either 20MHz or 40MHz channel spacing?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer:** D

**Explanation:**

The 2.4 GHz ISM band is fairly congested. With 802.11n, there is the option to double the bandwidth per channel to 40 MHz which results in slightly more than double the data rate. However, when in 2.4 GHz, enabling this option takes up to 82%[10] of the unlicensed band, which in many areas may prove to be infeasible. The specification calls for requiring one primary 20 MHz channel as well as a secondary adjacent channel spaced  $\pm 20$  MHz away. The primary channel is used for communications with clients incapable of 40 MHz mode. When in 40 MHz mode, the center frequency is actually the mean of the primary and secondary channels.

**NEW QUESTION 264**

Which of the following wireless standards has a MAXIMUM transfer rate of 11Mbps?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer:** B

**Explanation:**

The 802.11b standard allows for a maximum data transfer speed of 11 Mbps, at a range of about 100 m indoors and up to 200 metres outdoors (or even beyond that, with directional antennas.) Hypothetical speed  
Range(indoors) Range(outdoors) 11 Mbits/s  
50 m  
200 m

**NEW QUESTION 266**

During a disaster recovery test, several billing representatives need to be temporarily setup to take payments from customers. It has been determined that this will need to occur over a wireless network, with security being enforced where possible. Which of the following configurations should be used in this scenario?

- A. WPA2, SSID enabled, and 802.11n.
- B. WEP, SSID enabled, and 802.11b.
- C. WEP, SSID disabled, and 802.11g.
- D. WPA2, SSID disabled, and 802.11a.

**Answer:** D

**Explanation:**

WPA2 is a security technology commonly used on Wi-Fi wireless networks. WPA2 (Wireless Protected Access 2) replaced the original WPA technology on all certified Wi-Fi hardware since 2006 and is based on the IEEE 802.11i technology standard for data encryption.

**NEW QUESTION 267**

Which of the following wiring distribution types, often found in company closets, is used to connect wiring from individual offices to the main LAN cabling?

- A. MDF
- B. 66 block
- C. IDF
- D. Patch panel

**Answer:** D

**Explanation:**

A patch panel, patch bay, patch field or jack field is a number of circuits, usually of the same or similar type, which appear on jacks for monitoring, interconnecting, and testing circuits in a convenient, flexible manner.

**NEW QUESTION 271**

Which of the following is the difference between 802.11b and 802.11g?

- A. Distance
- B. Frequency
- C. Speed
- D. Transmission power

**Answer: C**

**Explanation:**

\* 802.11b has a maximum speed of 11Mbps whereas 802.11g has a speed of 54Mbps.

**NEW QUESTION 273**

Which of the following connectors is usable in SFP modules?

- A. ST
- B. LC
- C. LX
- D. SX

**Answer: B**

**Explanation:**

LC connector is used in SFP modules.



**NEW QUESTION 277**

A customer is having problems connecting to a wireless network in a shared office space. The customer can detect several other wireless network signals. All of the wireless networks have different SSIDs but several are using the same encryption type. Which of the following should be configured on the customer's wireless network to improve connectivity to the wireless network?

- A. Change the SSID to match other wireless networks for increased throughput.
- B. Change the encryption type to a different mechanism to avoid interference.
- C. Change the channel to a different channel than the other wireless networks.
- D. Change the WAP to a different manufacturer than the other wireless networks.

**Answer: C**

**Explanation:**

To reduce interference between wireless APs, ensure that wireless APs with overlapping signals use unique channel frequencies. The 802.11b standard reserves 14 frequency channels for use with wireless APs. You can use any other channel instead of the one that you are using.

**NEW QUESTION 280**

Which of the following is the BEST way to prevent new users from connecting to a wireless access point, but still allow already connected users to continue to connect?

- A. Create a MAC filter containing the current users.
- B. Turn off SSID broadcast.
- C. Change the encryption type to AES 256-bit for current users.
- D. Reduce the signal strength to 0 percent.

**Answer:** A

**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.

**NEW QUESTION 283**

A user cannot access the LAN after working successfully most of the day. Which of the following should the network administrator check FIRST?

- A. VLAN settings
- B. History logs
- C. Patch cable
- D. Port security

**Answer:** C

**Explanation:**

A patch cable or patch cord or patch lead is an electrical or optical cable used to connect ("patch- in") one electronic or optical device to another for signal routing.

**NEW QUESTION 288**

A network administrator is adding 24 - 802.3af class 2 VoIP phones and needs to purchase a single PoE switch to power the phones. Which of the following is the MINIMUM PoE dedicated wattage the switch supports to power all of the phones at full power?

- A. 96W
- B. 168W
- C. 240W
- D. 369.6W

**Answer:** B

**Explanation:**

The switch supports 168W to power all the phones at full power.

**NEW QUESTION 292**

A technician is reviewing the following company diagram to determine proper connectivity settings:

Device	Connection Type	Distance
ServerA	CAT6e	380ft
LaptopB	802.11g	310ft
PC1	CAT5	300ft
LaptopC	802.11n	100ft
ServerE	Single Mode	500ft

Which of the following device configurations is out of specifications?

- A. LaptopC
- B. ServerE
- C. LaptopB
- D. ServerA
- E. PC1

**Answer:** D

**Explanation:**

no legitimate Category 6e standard exists

**NEW QUESTION 294**

A company is looking for the simplest solution to help prioritize VoIP traffic on its congested network. Which of the following would BEST accomplish this?

- A. MPLS
- B. Caching engines
- C. QoS
- D. Load balancing

**Answer:** C

**Explanation:**

QoS is the service where you can prioritize traffic running over one protocol as compared to the other. It is very similar to the term where you are opening a VIP queue for allowing that traffic to pass.

**NEW QUESTION 295**

Which of the following commands will provide an administrator with the number of hops a packet takes from host to host?

- A. nslookup
- B. ping
- C. traceroute
- D. route

**Answer: C**

**Explanation:**

In computing, traceroute is a computer network diagnostic tool for displaying the route (path) and measuring transit delays of packets across an Internet Protocol (IP) network. The history of the route is recorded as the round-trip times of the packets received from each successive host (remote node) in the route (path); the sum of the mean times in each hop indicates the total time spent to establish the connection.

**NEW QUESTION 297**

A technician has a network with a mix of newer and older equipment. Which of the following settings would dynamically configure whether to use full or half duplex?

- A. Transmission speed
- B. Frequency
- C. Auto-negotiate
- D. Distance

**Answer: C**

**Explanation:**

Autonegotiation is an Ethernet procedure by which two connected devices choose common transmission parameters, such as speed, duplex mode, and flow control. In this process, the connected devices first share their capabilities regarding these parameters and then choose the highest performance transmission mode they both support.

**NEW QUESTION 302**

DRAG DROP

GigSwitch1 is currently configured with a speed of 100 and Duplex is set to Auto on all interfaces.

Interface 2 will be connected to GigSwitch2 which is used for all departments. Interface 1 will be used for HR traffic only.

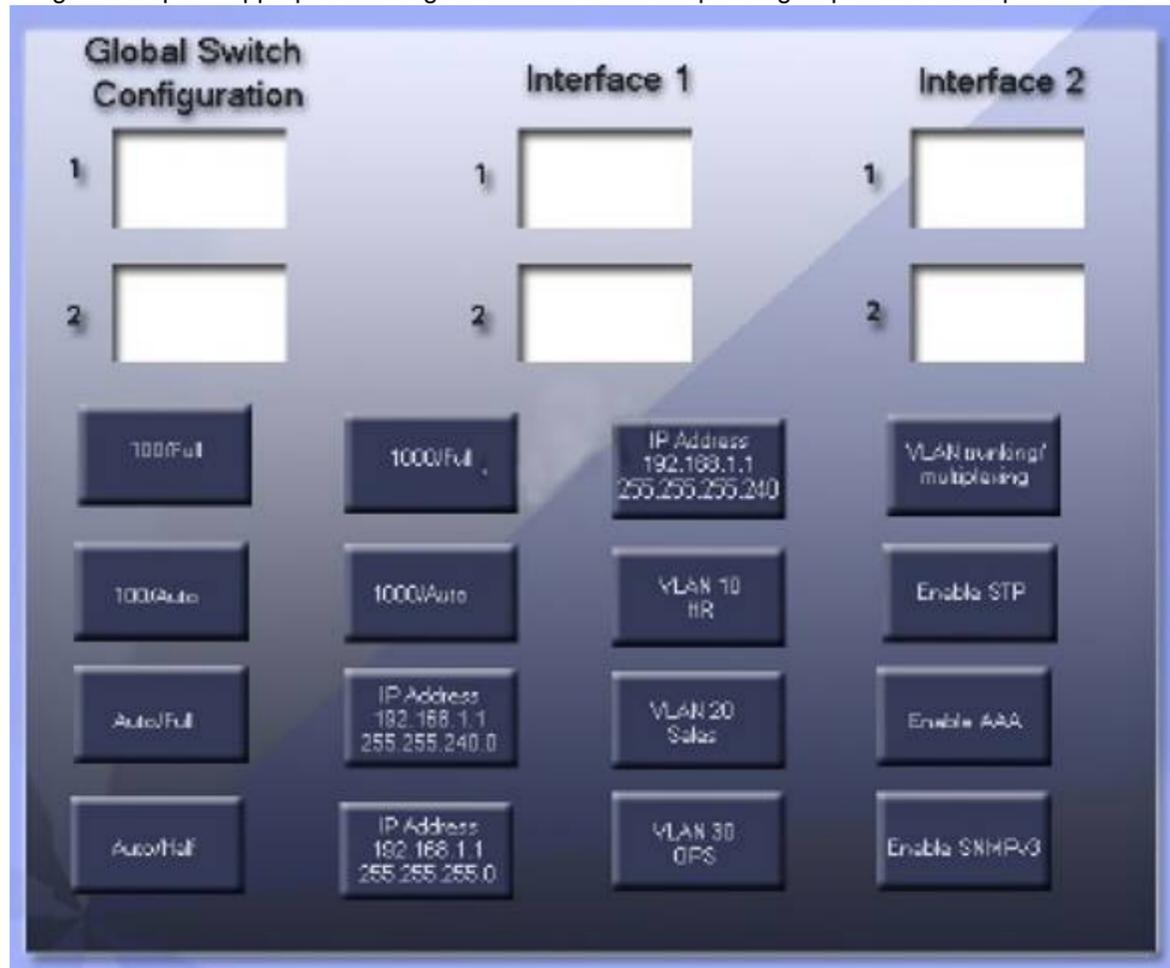
GigSwitch1 needs to be configured with the following parameters: Configure the necessary protocol to prevent switching loops

Configure GigSwitch1 with a /24 IP address for management

Traffic across Interface 1 needs to be forced to accept and receive up to 100Mbps data at the same time

Traffic across Interface 2 needs to be forced to use Gigabit speeds and maximum performance

Drag and drop the appropriate configurations to their corresponding requirements. All placeholders must be filled. Not all configurations will be used.

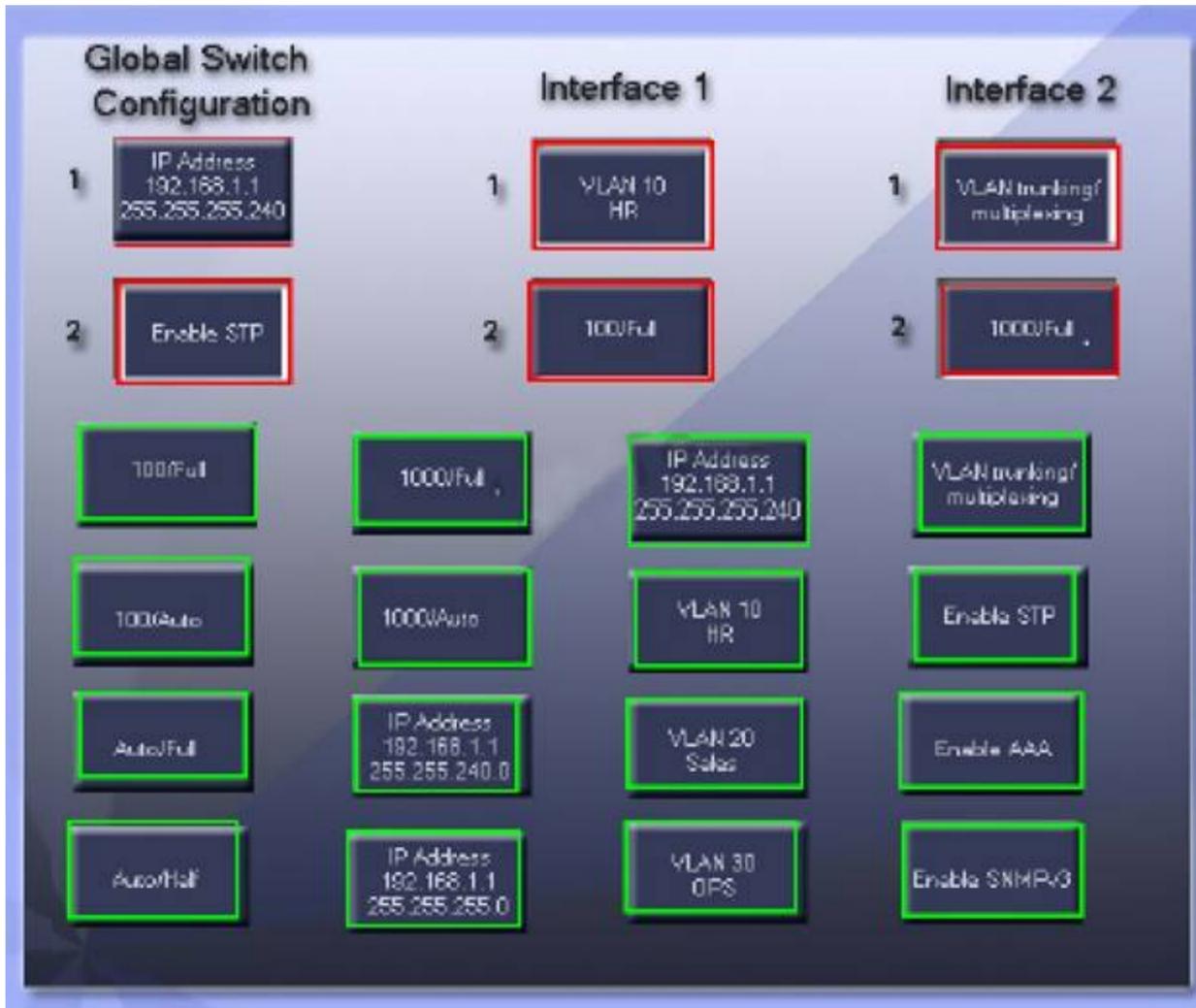


Global Switch Configuration	Interface 1	Interface 2
1	1	1
2	2	2
100/Full	1000/Full	IP Address 192.168.1.1 255.255.255.240
100/Auto	1000/Auto	VLAN 10 HR
Auto/Full	IP Address 192.168.1.1 255.255.240.0	VLAN 20 Sales
Auto/Half	IP Address 192.168.1.1 255.255.255.0	VLAN 30 OPS
		VLAN trunking multiplexing
		Enable STP
		Enable AAA
		Enable SNMPv3

- A. Mastered
- B. Not Mastered

**Answer: A**

**Explanation:**



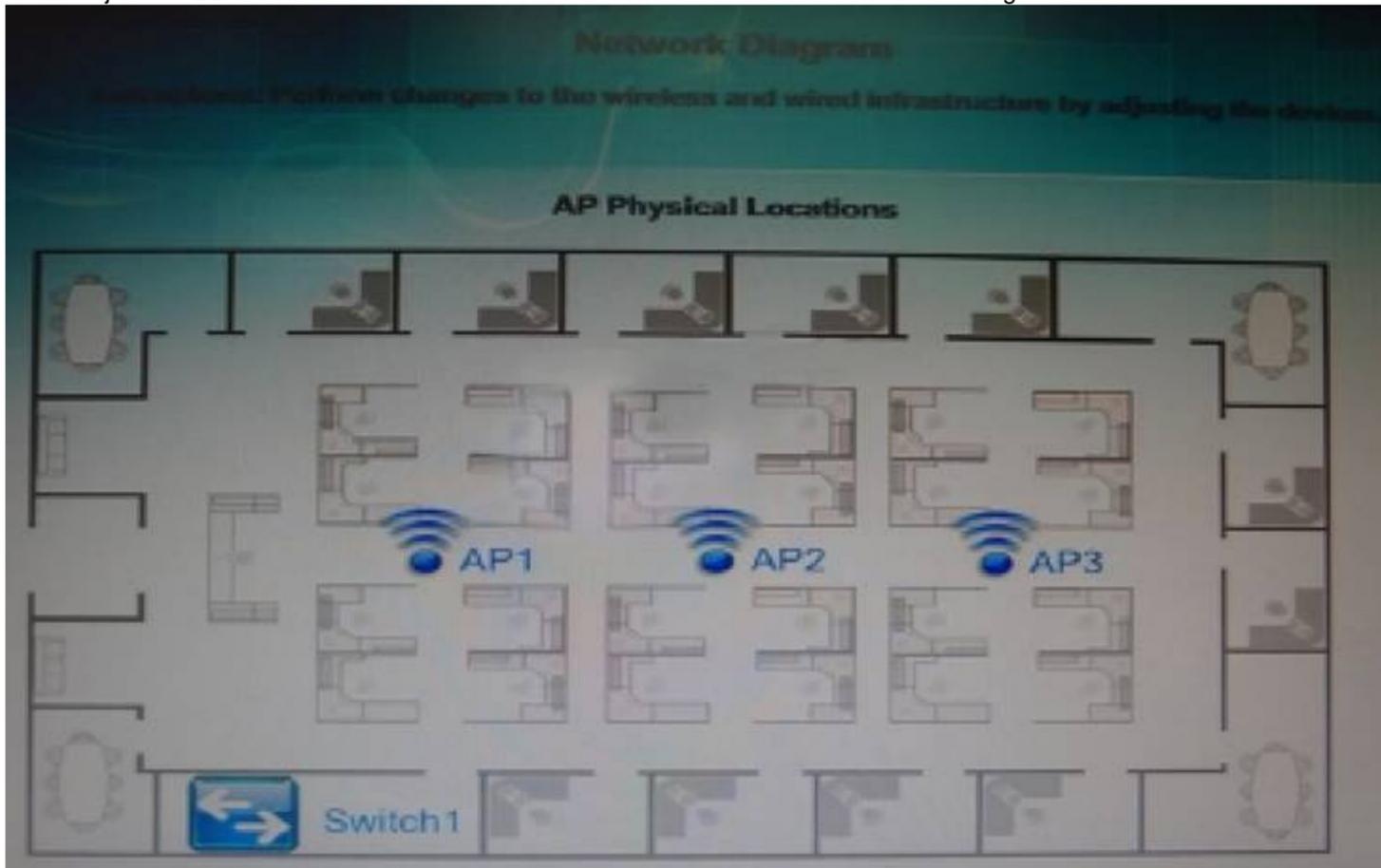
**NEW QUESTION 303**

CORRECT TEXT

Wireless network users recently began experiencing speed and performance issues after access point 2 (AP2) was replaced due to faulty hardware. The original network was installed according to a consultant's specifications and has always worked without a problem.

You a network technician, have been tasked with evaluating the situation and resolving the issues to improve both performance and connectivity. Refer to the following diagram and perform any Necessary changes to the wireless and wired infrastructure by adjusting devices.

NotE. Adjust the LEAST number of devices needed to fix the issue all blue icons in the image are clickable.



http://ap1.surepassexam.com

### Wireless AP Configuration Settings

**Basic Configuration**

Access Point Name: AP1  
IP Address: 192.168.100.151 / 24  
Gateway: 192.168.100.1  
SSID: CorpNET  
SSID Broadcast:  Yes  No

**Wireless**

Mode: G  
Channel: 1

**Wired**

Speed:  Auto  100  1000  
Duplex:  Auto  Half  Full

**Security**

Security Settings:  None  WEP  WPA  
Key or Passphrase: 123456789b

Reset Submit

http://ap2.surepassexam.com

### Wireless AP Configuration Settings

**Basic Configuration**

Access Point Name: AP2  
IP Address: 192.168.100.152 / 24  
Gateway: 192.168.100.1  
SSID: CorpNET  
SSID Broadcast:  Yes  No

**Wireless**

Mode: B  
Channel: 1

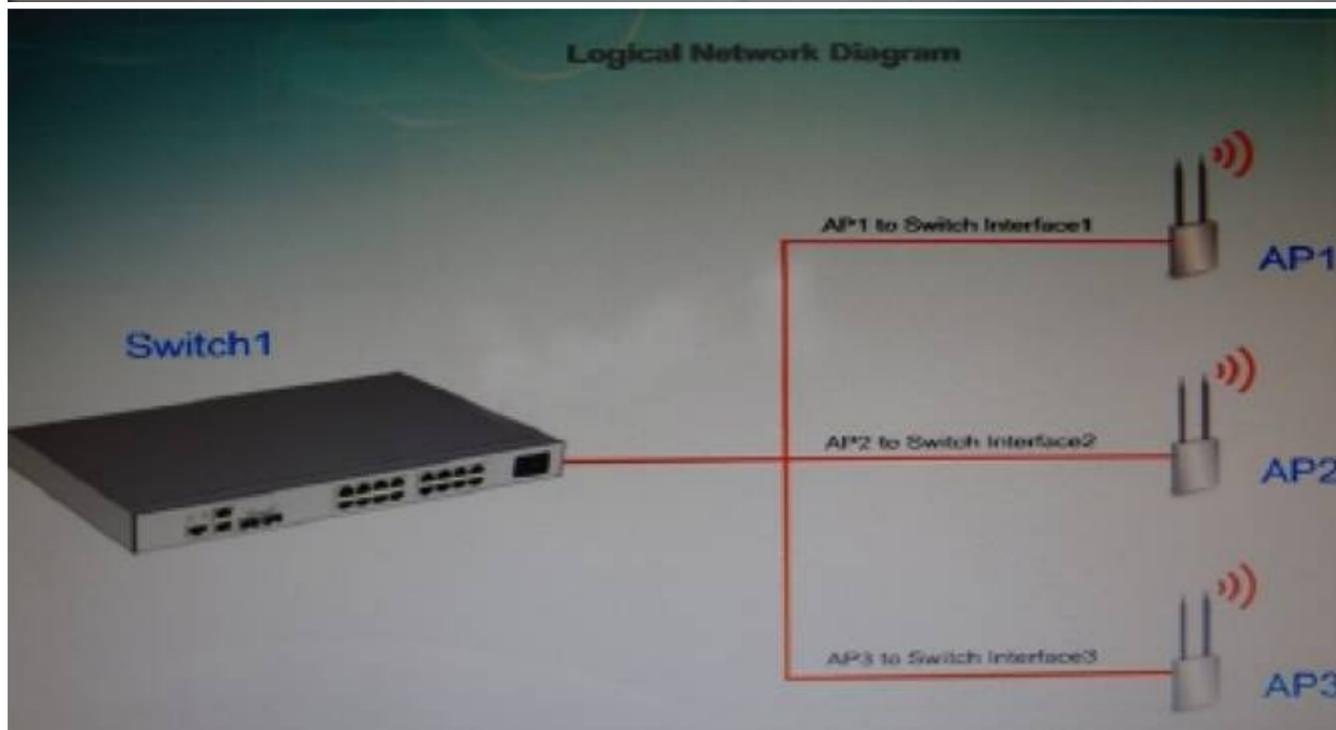
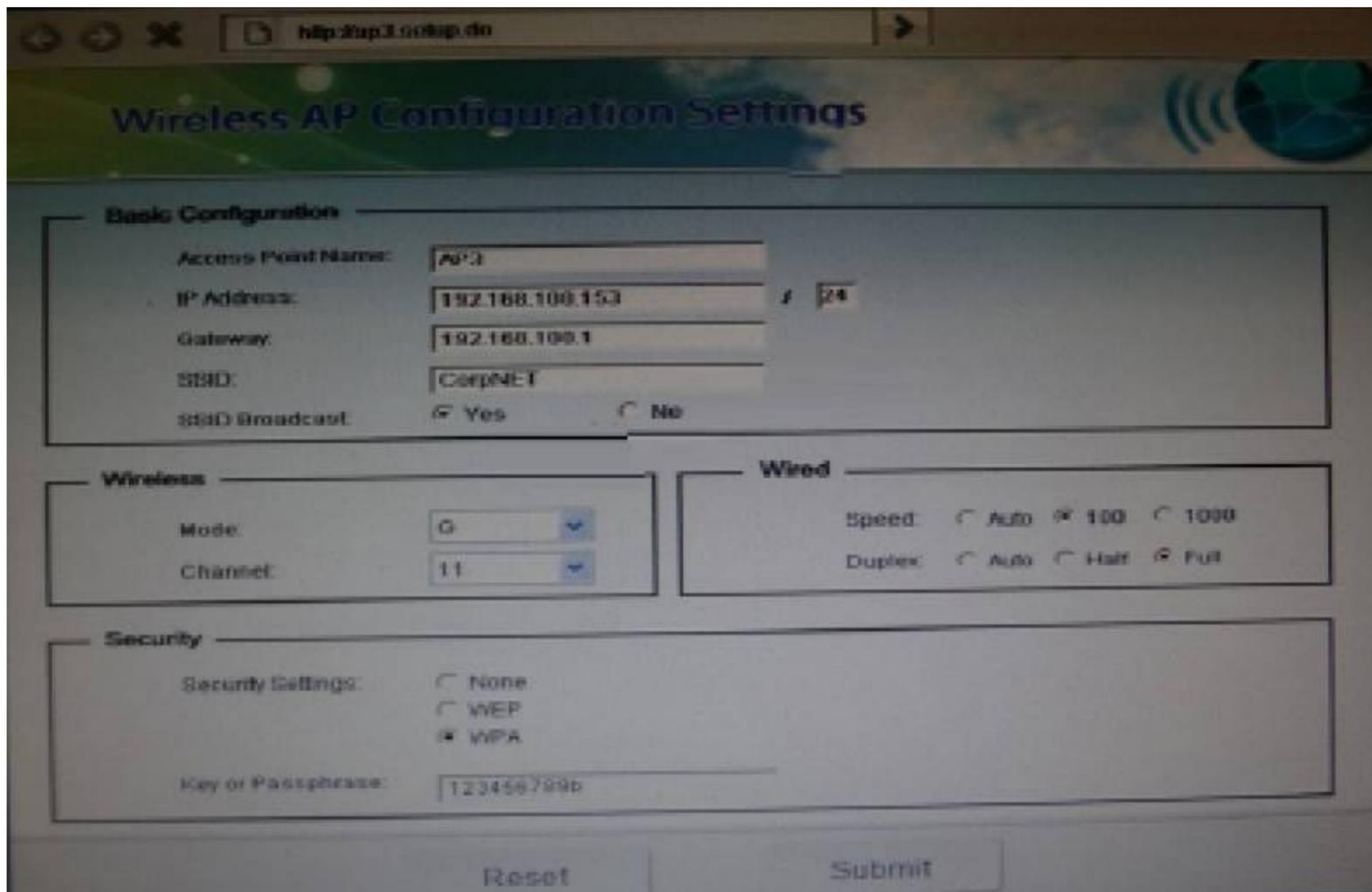
**Wired**

Speed:  Auto  100  1000  
Duplex:  Auto  Half  Full

**Security**

Security Settings:  None  WEP  WPA  
Key or Passphrase: 123456789b

Reset Submit



- A. Mastered
- B. Not Mastered

Answer: A

**Explanation:**

AP2 configuration is not correct. The wireless mode should be 'G' and channel should be '11'. For the wired interface, the speed should be set to 100 and duplex to 'Full'. Click 'Submit'.

**NEW QUESTION 305**

The DHCP server leases IP addresses 10.162.233.158 to WBAC11 for a period of 14 days. At which of the following times would WBAC11 send an initial request to the DHCP server to renew the IP address lease?

- A. Day 4
- B. Day 6
- C. Day 8
- D. Day 10

Answer: C

**NEW QUESTION 308**

An administrator has set up a NIPS and connected it to the same switch as the internal firewall interface and the internal router. The device, however, only detects traffic from itself to the firewall or router. Which of the following explains why additional corporate traffic cannot be detected?

- A. The spanning tree protocol is preventing the traffic.

- B. Port Mirroring is set up incorrectly.
- C. The switch needs to be a layer 3 switch.
- D. The traffic is in a classless IP range and not classful IP range.

**Answer: B**

**NEW QUESTION 313**

A company wants to ensure that a wireless signal from their WAP only sends down one specific corridor. Which of the following can be done to achieve this?

- A. Disable the SSID.
- B. Change the broadcast channel.
- C. Lower the signal strength.
- D. Change the antennas.

**Answer: D**

**NEW QUESTION 318**

Which of the following DHCP options is used to exclude IP addresses from being distributed to other computers?

- A. Reservations
- B. Suffixes
- C. Leases
- D. Gateways

**Answer: A**

**NEW QUESTION 320**

A new WAP is configured to only use 802.11g with SSID broadcasts enabled. The encryption is set to WPA and the key is given to the user. A user near the WAP is using a laptop equipped with a 5GHz wireless card and is not able to see the SSID. Which of the following is the problem?

- A. Latency
- B. Incorrect encryption type
- C. EUI-64
- D. Incompatible hardware

**Answer: D**

**NEW QUESTION 325**

A user is trying to connect to the wireless network in the office but is unable to establish a consistent connection. The computer alternates connecting between several similarly configured access points. Which of the following would be the BEST way to address this issues?

- A. Adjust the signal strength of the access points with minimal coverage overlap.
- B. Increase the pool in each of the access points to avoid running out of IPs.
- C. Configure each access point to use a different method of encryption than the others.
- D. Reconfigure each of the access points so that they broadcast different SSIDs.

**Answer: A**

**NEW QUESTION 326**

After deploying a network switch, the network administrator is unable to remotely administer the device. The network administrator notices that the switch has the following configuration. Which of the following is the MOST likely cause of this issue?

Management LAN: 192.168.10.0/24  
Management interfaceE. 192.168.10.2 255.255.255.0  
Default gateway: 192.168.11.1 STP is enabled

- A. VLAN assignment
- B. Wrong subnet mask
- C. Switching loop
- D. Wrong gateway

**Answer: D**

**NEW QUESTION 330**

Users have contacted the helpdesk stating that they have been having difficulties staying connected to the wireless network. They report that their laptops connect to one access point, drop the connection and then connect to a different access point in a never-ending cycle. Which of the following would BEST remediate this?

- A. Reconfigure the access points from 802.11b to 802.11g.
- B. Establish procedures which limit user connections during peak hours.
- C. Configure the access points so that they all use different SSIDs.
- D. Move one or more access points, minimizing signal overlap.

**Answer: D**

**NEW QUESTION 334**

If a technician does not assign an IP address to a device, the DHCP server will assign the device a:

- A. static IP address.
- B. reservation.
- C. dynamic IP address.
- D. MAC address.

**Answer: C**

**NEW QUESTION 339**

Ann, a new user, is unable to communicate on the network from her computer. A technician has verified that the cables are functioning properly. Based on the information below, which action should the technician take to correct Ann's problem?

Computer\_ASwitch\_A IP: 10.0.0.60Int VLAN10

SM: 255.255.255.0IP address 10.0.0.1/28

GW: 10.0.0.1Speed 100 Duplex Full

- A. Change the duplex on the switch interface to half
- B. Change the speed on the switch interface to 10Mbps
- C. Change the subnet mask of the computer to 255.255.255.240
- D. Change the IP address of the computer to 10.0.0.12

**Answer: D**

**NEW QUESTION 341**

A client has just leased a new office space in a busy commercial building and would like to install a wireless network. Several other tenants are on the same floor. Multiple wireless networks are present in the building. Which of the following can be changed on the client's wireless network to help ensure that interference from other wireless networks is at a minimum?

- A. WPA encryption key selection
- B. Channel selection
- C. Antenna types
- D. Disable SSID

**Answer: B**

**NEW QUESTION 342**

Which of the following is the reason why a company's network may contain a DHCP server?

- A. To assign IP addresses to devices on the network
- B. To convert IP addresses to fully qualified domain names
- C. To provide POP3 and IMAP email functionality
- D. To allow secure remote access

**Answer: A**

**NEW QUESTION 347**

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: BD**

**NEW QUESTION 351**

A network administrator wishes to limit the number of potential wireless clients to 20 on a specific

- A. The network address translation IP range.
- B. The signal strength of the router.
- C. The DHCP lease time.
- D. The number of allowable MAC addresses.

**Answer: D**

**NEW QUESTION 353**

A SOHO had their wireless network breached on several occasions. The user turned off the SSID and enabled WEP encryption, but breaches are still occurring. Which of the following will improve security and MOST likely prevent future breaches?

- A. Turn down the signal strength
- B. Replace the WAP and enable WEP
- C. Change both the SSID and WEP key
- D. Enable WPA2 encryption

**Answer: D**

#### NEW QUESTION 358

During a blizzard, a technician decides to work from home but is unable to connect to the company's network. Which of the following is MOST likely taking place at the office?

- A. Switching loop
- B. Wrong DNS
- C. Power failure
- D. Duplicate IP address

**Answer: C**

#### NEW QUESTION 361

A technician is attempting to set up a new laptop for a user. The user's old laptop connects to the corporate wireless network "CompanyWiFi" automatically. However, when the technician looks for the "CompanyWiFi" network on the new laptop, he does not find it in the list of available networks. Both laptops have 802.11g wireless network adapters and are sitting next to each other on the user's desk. Which of the following would MOST likely be the reason that the new laptop cannot see the "CompanyWiFi" network?

- A. Loss of signal strength
- B. Incorrect WEP key was input
- C. RFID interference from other electronic devices
- D. SSID broadcasting is disabled on the WAP

**Answer: D**

#### NEW QUESTION 362

A small office is looking to deploy wireless to cover one half of the work area only. The technician is restricted to suspending the WAP in the middle of the office due to network jack limitations. Which of the following antenna types would BEST meet these requirements?

- A. Dipole
- B. Parabolic
- C. Directional
- D. Omni-directional

**Answer: C**

#### NEW QUESTION 365

A technician is troubleshooting a wireless network that was setup previously. The network is a hybrid of 802.11g and 802.11n WAPs. Users are not able to view or connect to the 802.11n WAPs. Which of the following is MOST likely the cause?

- A. The 802.11g WAPs are not setup for backwards compatibility.
- B. The 802.11n WAPs are using a 2.4 GHz frequency channel.
- C. The 802.11n WAPs are using a 5 GHz frequency channel.
- D. The 802.11g WAPs all have disabled SSID broadcast.

**Answer: C**

#### NEW QUESTION 370

A user is on a network with two upstream connections to the Internet and is experiencing intermittent issues while connecting to websites. Some websites are available but others are not. Which of the following is the MOST likely cause of the condition?

- A. Incorrect VLAN assignment
- B. Bad or missing routes
- C. Switching loop
- D. Wrong subnet mask

**Answer: B**

#### NEW QUESTION 374

A network has a large number of users who connect for short periods of time and the network needs to maximize the number of devices that can be configured using DHCP. Which of the following should be configured to solve this issue?

- A. Increase the number of reservations
- B. Increase exclude list
- C. Decrease lease times
- D. Decrease the scope

**Answer: C**

#### NEW QUESTION 376

A technician is troubleshooting a network camera. The technician restarted the modem and now the camera is no longer available from a mobile device. Which of the following has MOST likely occurred?

- A. The public IP address of the network has changed.
- B. The camera has received a new firmware update.
- C. The camera's secure shell has been disabled.
- D. The router has changed the IP of the mobile device.

Answer: A

**NEW QUESTION 381**

A user informs the network administrator of increasingly common wireless connection problems. The administrator determines the user has recently received a new cordless phone. The phone is MOST likely causing which of the following conditions?

- A. Signal strength latency
- B. Bouncing signal
- C. Interference
- D. Crosstalk

Answer: C

**NEW QUESTION 382**

A network administrator has just been notified about the loss of Internet connectivity. Another technician had just performed non-scheduled maintenance and mentioned that some cabling may have been moved. Which of the following MOST likely caused the loss of Internet connectivity?

- A. Broadcast storm
- B. TX/RX cables reversed
- C. Mismatched MTU
- D. Incorrect routing table

Answer: B

**NEW QUESTION 384**

A new SOHO wireless network is set up using two access points with separate SSIDs on the same frequency. However, the users are experiencing intermittent connectivity on both SSIDs. Which of the following is the problem?

- A. Wrong DNS
- B. SSID mismatch
- C. Encryption type
- D. Incorrect channel

Answer: D

**NEW QUESTION 389**

A user at a small business states that they cannot connect to the Internet via the company's wireless network every time their cordless phone rings. Which of the following is MOST likely occurring?

- A. Interference
- B. Incorrect encryption type
- C. Latency
- D. SSID mismatch

Answer: A

**NEW QUESTION 394**

A technician is troubleshooting a desktop computer that will not power on. After replacing the power supply, the technician tries to start the desktop, but it still fails to power on. Which of the following troubleshooting steps should the technician do NEXT?

- A. Question users to determine if anything has changed
- B. Re-establish theory of probable cause
- C. Escalate problem to upper management
- D. Document replacement of power supply

Answer: B

**NEW QUESTION 396**

A technician grabs a network cable and connects two switches together. However, the ports fail to come up as indicated by the link lights. Which of the following is MOST likely the issue?

- A. Wrong subnet mask on the interfaces
- B. Mismatched MTU size
- C. Straight through instead of cross over cable
- D. SSID mismatch between the switches

Answer: C

**NEW QUESTION 401**

A stateful point to point wireless connection going down for a few hours at a time is MOST likely due to which of the following?

- A. Interference
- B. Configuration
- C. Incorrect MTU size
- D. Incorrect IP

**Answer:** A

**NEW QUESTION 406**

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

**NEW QUESTION 410**

When a patch cable is plugged into a switch, all port activity indicators turn on and users instantly lose network connectivity. Which of the following is the MOST likely diagnosis?

- A. Denial of service attack
- B. MTU black hole
- C. Switching loop
- D. Defective patch cable

**Answer:** C

**NEW QUESTION 415**

A technician receives a work order that a user can no longer access any external websites. The user is the only one affected, but can still access websites by IP address. Which of the following is the MOST likely cause?

- A. The workstation has been removed from the domain and needs to be re-added in directory services.
- B. The workstation is configured to use the IPv4 protocol instead of IPv6.
- C. The workstation is configured with an incorrect IP address of the DNS server.
- D. The workstation's DHCP IP address has expired and has assigned itself an APIPA address.

**Answer:** C

**NEW QUESTION 417**

Linking two or more switches together so that they can share VLAN information is known as which of the following?

- A. Port replicating
- B. Filtering
- C. Trunking
- D. Spoofing

**Answer:** C

**NEW QUESTION 419**

Which of the following can MOST likely cause intermittent connection problems with a CAT5 network cable?

- A. Cable has been looped too many times.
- B. Cable has a twist tie attached too close to the connector.
- C. Cable is too warm.
- D. Cable is run too close to a fluorescent light.

**Answer:** D

**Explanation:**

Cat 5 is a twisted pair cable for carrying signals. This type of cable is used in structured cabling for computer networks such as Ethernet. The cable standard provides performance of up to 100 MHz and is suitable for 10BASE-T, 100BASE-TX (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet).

**NEW QUESTION 424**

Which of the following components of wiring distribution is referred to as the core communications closet for an organization?

- A. MDF
- B. Smart jack
- C. IDF
- D. Demarc extension

**Answer:** A

**Explanation:**

MDF stands for Main Distribution Frame and is the main computer room for servers, hubs, routers, DSL's, etc. to reside.

**NEW QUESTION 425**

Management wants to be sure that the existing wiring infrastructure conforms to CAT5e standards. Which of the following is the correct tool?

- A. Cable certifier
- B. Cable tester
- C. OTDR
- D. Protocol analyzer

**Answer:** A

**Explanation:**

A cable certifier is used to verify that a cable meets its specifications such as the bandwidth and frequency. For example, it can verify a CAT 5e cable meets specifications and supports speeds of 1000Mbps.

**NEW QUESTION 426**

A CAT5e network cable run needs to be installed over fluorescent lighting arrays in an office building. Which of the following cable types would be BEST suited for such an installation?

- A. UTP
- B. Plenum
- C. Coaxial
- D. STP

**Answer:** D

**Explanation:**

Shielded twisted pair is a special kind of copper telephone wiring used in some business installations. An outer covering or shield is added to the ordinary twisted pair telephone wires; the shield functions as a ground.

Twisted pair is the ordinary copper wire that connects home and many business computers to the telephone company. To reduce crosstalk or electromagnetic induction between pairs of wires, two insulated copper wires are twisted around each other. Each signal on twisted pair requires both wires

**NEW QUESTION 428**

Which of the following supports faster wireless broadband speeds?

- A. Satellite
- B. Wi-MAX
- C. ISDN
- D. OC-3

**Answer:** B

**Explanation:**

Wi-MAX (Worldwide Interoperability for Microwave Access) is

a wireless communications standard designed to provide 30 to 40 megabit-per-second data rates with the 2011 update providing up to 1 G bit/s for fixed stations

**NEW QUESTION 431**

Which of the following WAN technologies has the HIGHEST latency?

- A. ADSL
- B. LTE
- C. Satellite
- D. WiMAX

**Answer:** C

**Explanation:**

Satellite WAN latency is the delay caused by the physical distance a signal must travel from earth, to the satellite, and back to earth to complete a round-trip transmission. Because of the physics involved in the round-trip-time (RTT), end-to-end latency can take 600 milliseconds or more due to geosynchronous satellites orbiting miles above the earth.

**NEW QUESTION 435**

Which of the following connectors are MOST commonly used on a POTS line?

- A. RJ-45
- B. MTRJ
- C. DB-9
- D. RJ-11

**Answer:** D

**Explanation:**

The six-position plug and jack commonly used for telephone line connections may be used for RJ11, RJ14 or even RJ25, all of which are actually names of interface standards that use this physical connector. The RJ11 standard dictates a 2-wire connection, while RJ14 uses a 4-wire configuration, and RJ25 uses all six wires. The RJ abbreviations, though, only pertain to the wiring of the jack (hence the name "registered jack"); it is commonplace but not strictly correct to refer to an unwired plug connector by any of these names. Typically you'll find the RJ-11 and RJ-14 on your Plain Old Telephone Service (POTS)

**NEW QUESTION 436**

Which of the following technologies can cause interference for 802.11g?

- A. RADAR

- B. 802.11a
- C. IrDA
- D. Bluetooth

**Answer:** D

**Explanation:**

This wireless communication standard has a maximum transmission speed of 54 Mbits per second and a typical indoor range of 30 meters. It uses the 2.4 GHz band. This band may have to deal with interference from cordless telephones, Bluetooth devices, and various appliances.

**NEW QUESTION 441**

Which of the following reduces the deployment cost of a wireless LAN?

- A. WPA
- B. 802.1x
- C. MIMO
- D. PoE

**Answer:** D

**Explanation:**

Power over Ethernet or PoE describes any of several standardized or ad-hoc systems which pass electrical power along with data on Ethernet cabling. This allows a single cable to provide both data connection and electrical power to devices such as wireless access points or IP cameras.

**NEW QUESTION 445**

Which of the following connector types would be found with a VoIP system utilizing CAT6 cabling?

- A. SC
- B. RJ-45
- C. RJ-11
- D. BNC

**Answer:** B

**Explanation:**

The heavier wire in some Cat 6 cables makes them too thick to attach to standard 8P8C (RJ-45) connectors without a special modular piece

**NEW QUESTION 449**

A technician notices a newly installed CAT5 cable is longer than the standard maximum length. Which of the following problems would this MOST likely cause?

- A. Split cable
- B. EMI
- C. DB loss
- D. Crosstalk

**Answer:** C

**Explanation:**

The maximum length for a cable segment is 100 m per TIA/EIA 568-5-A. If longer runs are required, the use of active hardware such as a repeater or switch is necessary. The specifications for 10BASE-T networking specify a 100metre length between active devices. This allows for 90metres of solid-core permanent wiring, two connectors and two stranded patch cables of 5metres, one at each end.

**NEW QUESTION 451**

Which of the following 802.11 standards transmits the signals the GREATEST distance?

- A. a
- B. b
- C. g
- D. n

**Answer:** D

**Explanation:**

\* 802.11n uses multiple antennas to increase data rates.

**NEW QUESTION 452**

Which of the following fiber types is MOST often used indoors?

- A. Plenum
- B. Modal conditioning
- C. Multimode
- D. Singlemode

**Answer:** C

**Explanation:**

Multi-mode optical fiber is a type of optical fiber mostly used for communication over short distances, such as within a building or on a campus. Typical multimode

links have data rates of 10 Mbit/s to 10 Gbit/s over link lengths of up to 600 meters (2000 feet) and 10 Gbit/s for 300m (1000 feet) — more than sufficient for the majority of premises applications.

**NEW QUESTION 457**

Users are reporting wired connectivity drops in a new office with brand new CAT6 infrastructure. Which of the following tools should a technician use to BEST troubleshoot this issue?

- A. OTDR
- B. Protocol analyzer
- C. Toner probe
- D. Cable certifier

**Answer: D**

**Explanation:**

A cable certifier is an electronic device used to verify the source of electric current, voltage and a switching matrix used to connect the current source and the volt meter to all of the contact points in a cable.

**NEW QUESTION 459**

Which of the following wireless technologies only uses the 5GHz spectrum but reaches a theoretical throughput of only 54Mbps?

- A. A
- B. B
- C. G
- D. N

**Answer: A**

**Explanation:**

\* 802.11a standard uses the same core protocol as the original standard, operates in 5 GHz band, and uses a 52-subcarrier orthogonal frequency-division multiplexing (OFDM) with a maximum raw data rate of 54 Mbit/s, which yields realistic net achievable throughput in the mid-20 Mbit/s. The data rate is reduced to 48, 36, 24, 18, 12, 9 then 6 Mbit/s if required.

**NEW QUESTION 461**

Which of the following WAN technology types has the GREATEST latency?

- A. ISDN
- B. Fiber
- C. Satellite
- D. Cable

**Answer: C**

**Explanation:**

Because satellites provide a microwave radio relay technology complementary to that of communication cables. They are also used for mobile applications such as communications to ships, vehicles, planes and hand-held terminals, and for TV and radiobroadcasting.

**NEW QUESTION 462**

802.11n can operate at which of the following frequencies? (Select TWO).

- A. 2.4Mhz
- B. 2.5Mhz
- C. 5Mhz
- D. 2.4Ghz
- E. 2.5Ghz
- F. 5Ghz

**Answer: DF**

**Explanation:**

\* 802.11n is an amendment which improves upon the previous 802.11 standards by adding multiple-input multiple-output antennas (MIMO). 802.11n operates on both the 2.4 GHz and the lesser used 5 GHz bands

**NEW QUESTION 467**

Which of the following would be used to connect a singlemode fiber cable to a CAT6 connection?

- A. Media converter
- B. T1-crossover
- C. Multimode cable
- D. Coaxial

**Answer: A**

**Explanation:**

Media converters support many different data communication protocols including Ethernet, Fast Ethernet, Gigabit Ethernet, T1/E1/J1, DS3/E3, as well as multiple cabling types such as coax, twisted pair, multi-mode and single-mode fiber optics.

#### NEW QUESTION 470

A small office client is requesting a network redesign. Both wired and wireless devices must connect to the network. All of the wireless devices can communicate using the latest standards. The building has a long courtyard in the middle with reinforced walls, which extends up through all the floors. The distance from the switch to the furthest drop is 88 meters. Which of the following is the correct network redesign choice?

- A. Fiber optic cabling is necessary due to distance limitations.
- B. The wireless network should be 802.11b due to equipment limitations.
- C. One WAP will be sufficient to provide wireless coverage to the floor.
- D. The wired network should be run with at least CAT6 cabling.

**Answer: D**

#### Explanation:

The Category 6 cable, also known as Cat-6, is backward compatible with the Category 5/5 e and Category 3 cable standards. It can create a high speed computer network and operate at an optimal performance if other components in the network are compatible with gigabit speeds.

Advantage. Speed and Performance

The cable can handle speed performance of up to 250 MHz. This fast performance makes it possible to use with a fast ethernet network including Gigabit Ethernet and 10-Gigabit Ethernet. The whole generation of the Cat 6 cable was introduced to complement the Gigabit Ethernet which includes interface cards, patch panels, routers, switches, and other components which is developed to achieve a full gigabit network. Many IT professionals realized that the Cat 6 cable provide very fast network performance and can deliver gigabit speeds.

Advantage. Similar Structure with Cat 5 Cable

Cat 6 cable has a similar structure to the Cat 5 and Cat 5e. The Cat 6, Cat 5 and Cat 5e cables have 8 wires that are twisted together to form four pairs. The difference is that one pair of the wires in the Cat 6 cable is kept from contacting with others so that it can produce double the bandwidth of the Cat 5 and Cat 5e.

Advantage. Backward Compatible

The plug and port of the Cat 6 cable is the same as the Cat 5 and Cat 5e. Therefore, it can be plugged into any port or connection that supports both of those cables. If you use the Cat 5 port, it will not yield the full speed that it is capable of handling. Instead, it will operate at the speed of the computer or cable. However, the speed will be acceptable.

Advantage. Upgradable

If upgrading to a more optimal network, the Cat 6 cable should be included in part of the upgrade. The Cat 6 cable will not operate at the full speed if other units in the network does not support gigabit speeds. Small businesses that are starting should consider installing the Cat 6 cable since it is becoming the industry standard.

#### NEW QUESTION 472

A network administrator tests a multimode fiber cable from end-to-end on a new link that is down and notices that the dB loss is -.09. Which of the following is the MOST likely cause?

- A. TXRX reversed
- B. dB loss too high
- C. dB loss too low
- D. Bad connectors

**Answer: A**

#### Explanation:

Some Ethernet switches support medium dependent interface crossover (MDIX), which allows a switch port to properly configure its leads as transmit (Tx) or receive (Rx) leads. You can interconnect such switches with a straight-through cable (as opposed to a crossover cable). However, if a network device does not support MDIX, it needs an appropriate cable (that is, a crossover cable) to allow its Tx leads to connect to the Rx leads on a connected device, and vice versa. Therefore, care must be taken when selecting cable types interconnecting network components.

#### NEW QUESTION 476

A network administrator is deploying a new wireless network with over 50 thin WAPs and needs to ensure all WAPs use consistent firmware and settings. Which of the following methods provides this functionality?

- A. Use WAP auto-configuration
- B. Use a wireless controller
- C. Use PXE to load and track WAPs
- D. Use DHCP scope options

**Answer: B**

#### Explanation:

A wireless controller is used in combination with the Lightweight Access Point Protocol (LWAPP) to manage light-weight access points in large quantities by the network administrator or network operations center. The wireless LAN controller is part of the Data Plane within the Cisco Wireless Model. The WLAN controller automatically handles the configuration of anywhere from 6 to 6000 wireless access-points, depending on the model.

#### NEW QUESTION 479

Which of the following technologies allows multiple staff members to connect back to a centralized office?

- A. Peer to Peer
- B. VPN
- C. PKI
- D. VLAN

**Answer: B**

#### Explanation:

VPN enables a computer to send and receive data across shared or public networks as if it were directly connected to the private network, while benefiting from the functionality, security and management policies of the private network. This is done by establishing a virtual point-to-point connection through the use of dedicated connections, encryption, or a combination of the two.

**NEW QUESTION 484**

Which of the following can operate on BOTH the 2.4GHz and 5.8GHz frequencies?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer: D**

**NEW QUESTION 489**

Which of the following wireless standards can transmit data up to 540Mbps?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer: D**

**NEW QUESTION 493**

Which of the following wireless standards can operate on the same frequency but are not compatible?

- A. 802.11a / 802.11b
- B. 802.11a / 802.11n
- C. 802.11b / 802.11g
- D. 802.11g / 802.11n

**Answer: B**

**NEW QUESTION 497**

Which wireless standard works at a MAXIMUM data rate of up to 11Mbps?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.1q

**Answer: B**

**NEW QUESTION 498**

In the event of a fire in an office building, which of the following cable types should be installed to prevent toxic gas from burning PVC cable coatings?

- A. CAT6a
- B. Plenum
- C. Crossover
- D. STP

**Answer: B**

**NEW QUESTION 500**

Which of the following 802.3 classifications has a MAXIMUM segment distance of 984 feet (300 meters)?

- A. 1000Base
- B. 100BaseFX
- C. 1000BaseSX
- D. 1000BaseT

**Answer: C**

**NEW QUESTION 505**

Which of the following is MOST likely used with RG-6 media?

- A. MTRJ
- B. RJ-11
- C. RJ-45
- D. F-connector

**Answer: D**

**NEW QUESTION 510**

A technician can increase the bandwidth of an 802.11n cell by:

- A. doubling the channel width.

- B. enabling diversity.
- C. disabling MIMO.
- D. adding a second access point.

**Answer:** A

**NEW QUESTION 515**

Which of the following WAN technologies has the highest latency?

- A. POTS
- B. Cable
- C. Satellite
- D. DSL

**Answer:** C

**NEW QUESTION 517**

The phone company has provided a channelized T1 line. Which of the following should this line be connected to?

- A. Switch
- B. CSU/DSU
- C. IDF
- D. MDF

**Answer:** B

**NEW QUESTION 522**

Which of the following WAN technologies utilizes an optical SONET carrier and has a maximum bandwidth of 155.54Mbps?

- A. DS3
- B. E3
- C. OC3
- D. T3

**Answer:** C

**NEW QUESTION 527**

Which of the following network topologies is ONLY possible between two users?

- A. Star
- B. Client-server
- C. Hybrid
- D. Peer-to-peer

**Answer:** D

**NEW QUESTION 530**

A company recently added an addition to their office building. A technician runs new plenum network cables from the switch on one side of the company's gymnasium 80 meters (262 ft.) to the new offices on the other side, draping the wires across the light fixtures. Users working out of the new offices in the addition complain of intermittent network connectivity. Which of the following is MOST likely the cause of the connectivity issue?

- A. dB loss
- B. Distance
- C. Incorrect connector type
- D. EMI
- E. Crosstalk

**Answer:** D

**NEW QUESTION 535**

Which of the following characteristics allows an 802.11g WAP to have transfer speeds up to 108Mbps?

- A. MIMO technology
- B. Channel bonding
- C. Encryption type
- D. Frequency

**Answer:** B

**NEW QUESTION 536**

An administrator has added four switches to a campus network. The switch in wiring closet A is only connected to the switch in wiring closet C. The switch in wiring closet B is connected to the switch in wiring closet C as well as wiring closet D. The switch in wiring closet D is only connected to the switch in wiring closet B. Which of the following topologies is represented in this design?

- A. Ring

- B. Star
- C. Bus
- D. Mesh

**Answer: C**

**NEW QUESTION 540**

Which of the following cable types is employed to protect against interference in the physical environment or when security is a concern?

- A. STP
- B. RG-6
- C. Fiber
- D. RG-59

**Answer: C**

**NEW QUESTION 543**

Which of the following WAN technologies has a MAXIMUM speed of 155.52Mbps?

- A. OC-3
- B. T3
- C. OC-12
- D. E1

**Answer: A**

**NEW QUESTION 547**

A technician is not getting a link light on two switches connected by a fiber cable. After the cable tests good, which of the following should the technician check NEXT?

- A. Open shorts
- B. Excessive DB loss
- C. TXRX reversed
- D. Split cables

**Answer: C**

**NEW QUESTION 549**

Which of the following wiring distribution is used to connect wiring from equipment inside a company to carrier cabling outside a building?

- A. 66 block
- B. IDF
- C. MDF
- D. Patch panel

**Answer: C**

**NEW QUESTION 554**

The cost of installing fiber cable in a factory environment is too high. Which of the following cables should be used to minimize the effect of EMI?

- A. CAT6
- B. UTP
- C. Coaxial
- D. Crossover

**Answer: C**

**NEW QUESTION 559**

Which of the following is rated for speeds over 800Mbps?

- A. Coaxial
- B. DB-9
- C. CAT6
- D. CAT5e

**Answer: C**

**NEW QUESTION 561**

Which of the following connector types is only used with copper media?

- A. ST
- B. SC
- C. MTRJ
- D. DB-9

Answer: D

**NEW QUESTION 564**

Which of the following technologies has more non-overlapping channels to utilize in a wireless LAN?

- A. 802.11a
- B. 802.11b
- C. 802.11i

Answer: A

**NEW QUESTION 569**

Which of the following wiring components is used as a central point of termination for all network jacks through a building area?

- A. Demarc
- B. CSU
- C. Patch Panel
- D. Smart Jack

Answer: C

**NEW QUESTION 573**

Which of the following network topologies is MOST commonly used by online file sharing websites?

- A. Point to multipoint
- B. Peer-to-peer
- C. Ring
- D. Hybrid

Answer: B

**NEW QUESTION 575**

Which of the following WAN technology types are mainly used over POTS lines to provide Internet connectivity? (Select TWO).

- A. Dialup
- B. DSL
- C. SONET
- D. Cable
- E. WiMAX
- F. LTE

Answer: AB

**NEW QUESTION 579**

Which of the following connector types is MOST commonly used for serial connections?

- A. MTRJ
- B. RJ-11
- C. RS-232
- D. RJ-45

Answer: C

**NEW QUESTION 584**

A technician is tasked with replacing some older RS-232 serial printers. Which of the following ports would the technician most likely find on these printers?

- A. BNC
- B. DB-9
- C. LC
- D. RJ-11

Answer: B

**NEW QUESTION 587**

A technician is installing 802.11a wireless access points in an open warehouse 300 feet (91.44 meters) long and 200 feet (60.96 meters) wide. Which of the following would be the LEAST number of devices needed to provide coverage to the entire building?

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

Answer: B

**NEW QUESTION 591**

A technician is sorting patch cables into four bins labeled coaxial, crossover, straight-through, and fiber. The technician has a cable with RJ-45 ends. The wires at one end of the cable start with an orange-white wire, while the wires at the other end of the cable start with a green wire. Into which of the following bins should this cable be placed?

- A. Crossover
- B. Fiber
- C. Straight-through
- D. Coaxial

**Answer: A**

**NEW QUESTION 596**

An 802.11a wireless network is functioning at which of the following frequencies?

- A. 1.0 GHz
- B. 1.5 GHz
- C. 2.4 GHz
- D. 5.0 GHz

**Answer: D**

**NEW QUESTION 597**

A cable with visible space between the ends of the copper wires and the RJ-45 connector will cause which of the following problems to occur?

- A. EMI
- B. Short
- C. Reversed TXRX
- D. dB loss

**Answer: B**

**NEW QUESTION 601**

Which of the following network media connectors can use a MAXIMUM of two copper wire pairs?

- A. F-connector
- B. RJ-11
- C. MTRJ
- D. RJ-45

**Answer: B**

**NEW QUESTION 606**

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**

**NEW QUESTION 611**

Which of the following allows 802.11n higher transfer speeds than the previous wireless standards?

- A. Dual frequency
- B. Enhanced encryption
- C. MIMO technology
- D. Backwards compatibility

**Answer: C**

**NEW QUESTION 616**

Which of the following would a technician do to monitor remote traffic through an access point?

- A. Enable an SNMP agent
- B. Enable network mapping
- C. Set monitoring SSID
- D. Select WPA2

**Answer: A**

**Explanation:**

Large networks with hundreds or thousands of nodes are difficult to manage without a large staff to monitor every computer. SNMP, which is widely used in local area networks (LANs), lets you monitor network nodes from a management host. You can monitor network devices such as servers, workstations, printers, routers, bridges, and hubs, as well as services such as Dynamic Host Configuration Protocol (DHCP) or Windows Internet Name Service (WINS).

**NEW QUESTION 620**

Which of the following reasons would MOST likely be used to implement QoS and traffic shaping solutions?

- A. Redundancy
- B. Fault tolerance
- C. Unified communications
- D. Uptime requirements

**Answer: C**

**Explanation:**

In unified communication video, voice, data have only one end gateway so to give priority to avoid delay in voice and video we use QoS.

**NEW QUESTION 623**

A network technician is troubleshooting a user's connectivity problem, and has determined a probable cause. The technician is at which step in the troubleshooting methodology?

- A. Verify full system functionality
- B. Identify the problem
- C. Establish a theory
- D. Implement the solution

**Answer: C**

**Explanation:**

Establish a theory means to correlate the finding and cause of a problem in order to fix the problem.

**NEW QUESTION 626**

In a SOHO environment, placing a VoIP unit on the outside edge of a LAN router enhances which of the following network optimization methods?

- A. Load balancing
- B. Quality of service
- C. Fault tolerance
- D. Traffic shaping

**Answer: B**

**Explanation:**

In unified communication video, voice, data have only one end gateway so to give priority to avoid delay in voice and video we use QoS.

**NEW QUESTION 631**

Which of the following would a network administrator recommend to satisfy fault tolerance needs within the datacenter?

- A. Multimode fiber
- B. Setting up a new hot site
- C. Central KVM system
- D. Central UPS system

**Answer: D**

**Explanation:**

For uninterrupted power supply we need ups as from this no power issue will come and our systems will remain safe.

**NEW QUESTION 632**

A company has just installed a new network switch for an expanding department. The company is also piloting the use of a VoIP phone system for this department. Which of the following should be enabled on the new network switch?

- A. WINS
- B. QoS
- C. NAT
- D. DHCP

**Answer: B**

**Explanation:**

QoS provide the voice packet priority over the data packets to avoid jitter and delay.

**NEW QUESTION 637**

A user is having difficulty connecting a laptop to the company's network via a wireless connection. The user can connect to the network via a wired NIC. The technician suspects the laptop's wireless NIC has failed. The technician performs hardware diagnostics on the wireless NIC and discovers the hardware is working fine. Which of the following network troubleshooting methodology steps should the technician do NEXT?

- A. Establish a plan of action to resolve the problem.
- B. Test the theory to determine a cause.

- C. Re-establish a new theory or escalate.
- D. Implement the solution or escalate as necessary.

**Answer:** C

**Explanation:**

As first theory doesn't work he will establish a new theory or escalate it to the vendor hardware company to work on it.

**NEW QUESTION 642**

An administrator is using a packet sniffer to try to determine what is causing the traffic on the network. The administrator sees a lot of packets on port 25. Which of the following traffic types is MOST likely using port 25?

- A. SMTP
- B. SSH
- C. DNS
- D. TELNET

**Answer:** A

**Explanation:**

Port no. 25 is assigned to smtp as documented by iana.

**NEW QUESTION 647**

Which of the following should be used when throughput to the destination network is a priority?

- A. MTU
- B. Hop count
- C. Reliability of the path
- D. Bandwidth

**Answer:** D

**NEW QUESTION 650**

A network technician is concerned that a user is utilizing a company PC for file sharing and using a large amount of the bandwidth. Which of the following tools can be used to identify the IP and MAC address of the user's PC?

- A. System log
- B. History log
- C. Network sniffer
- D. Nslookup

**Answer:** C

**Explanation:**

Network sniffer is a computer program or a piece of computer hardware that can intercept and log traffic passing over a digital network or part of a network. As data streams flow across the network, the sniffer captures each packet and, if needed, decodes the packet's raw data, showing the values of various fields in the packet, and analyzes its content according to the appropriate RFC or other specifications.

**NEW QUESTION 652**

A recent flood in the office caused a lot of equipment to be damaged and the manager of the IT department would like a way to prevent such an incident in the future. Which of the following is the BEST way to mitigate such an equipment failure?

- A. Reduce the power input on the replacement servers.
- B. Cover the servers with plastic tarps.
- C. Purchase twice as many servers to create high availability clusters.
- D. Transfer the replacement servers offsite to a data center.

**Answer:** D

**Explanation:**

As we replace replacement servers offsite to datacenter this will cause lower traffic on over lan and will not cause failure of these server also.

**NEW QUESTION 653**

A network administrator suspects that recent traffic problems could be caused by a high CPU load on company routers. Which of the following would BEST be used to monitor CPU cycles on the routers?

- A. TACACS+
- B. SNMP
- C. Syslog
- D. DOCSIS

**Answer:** B

**Explanation:**

SNMP, which is widely used in local area networks (LANs), lets you monitor network nodes from a management host. You can monitor network devices such as servers, workstations, printers, routers, bridges, and hubs, as well as services such as Dynamic Host Configuration Protocol (DHCP) or Windows Internet Name Service (WINS).

**NEW QUESTION 656**

When troubleshooting a connectivity issue, which of the following commands will give the technician a list of the host names connected to the network?

- A. ping
- B. nbtstat
- C. arp
- D. msconfig

**Answer: B**

**Explanation:**

The Nbtstat command is a great command to use when you need to display the NetBIOS over TCP/IP protocol statistics. The Nbtstat command can also be used to display NetBIOS name tables for both local and remote computers.

**NEW QUESTION 657**

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: CE**

**NEW QUESTION 659**

A user's workstation is experiencing multiple errors when trying to open programs. Which of the following log files should the technician review to assist in troubleshooting these errors?

- A. History Log
- B. Application Log
- C. System Log
- D. Security Log

**Answer: B**

**Explanation:**

As application logs provide the user whether application is compatible with system or not. Or what is the cause which is making trouble.

**NEW QUESTION 661**

Users inform an administrator that the network is slow. The administrator notices the bulk of the traffic is SIP and RTP traffic. Which of the following could the administrator do to help BEST alleviate the traffic congestion for the users?

- A. Create an ACL on the switches and routers that are dropping SIP and RTP packets.
- B. Create a QoS policy prioritizing users over RTP and SIP traffic.
- C. Create another VLAN for SIP and RTP traffic.
- D. Create a rule to throttle SIP and RTP to 10Kbps or less.

**Answer: C**

**Explanation:**

As if we will create a vlan for sip and rtp traffic only this traffic will flow from the ports then .

**NEW QUESTION 665**

Which of the following tools allows an administrator to identify a cable?

- A. Multimeter
- B. Cable stripper
- C. Toner
- D. Punch down tool

**Answer: C**

**NEW QUESTION 669**

The technician is working on a DNS problem. Which of the following software tool is the technician MOST likely to use to troubleshoot this issue?

- A. nslookup
- B. ipconfig
- C. ping
- D. nbtstat

**Answer: A**

**NEW QUESTION 672**

Which of the following security devices can receive and process HTTP requests from hosts to allow or deny traffic for web browsing purposes only?

- A. Load balancer
- B. VPN concentrator
- C. Proxy server
- D. DNS server

**Answer: C**

**NEW QUESTION 677**

A technician is unable to easily trace physical connections within a network rack. Which of the following practices would save time in the future?

- A. Change management
- B. Cable management
- C. Asset management
- D. Setting baselines

**Answer: B**

**NEW QUESTION 679**

Which of the following syslog severity codes indicates an emergency and that the system is unusable?

- A. 1
- B. 6
- C. 7

**Answer: A**

**NEW QUESTION 681**

Due to a recent change in company policy, all users managing network infrastructure devices must use SSH v2 and all administrative activity must be collected on a central store. Which of the following should the network administrator deploy to comply with the new collection requirements?

- A. Network intrusion detection
- B. Traffic analysis tool
- C. Syslog server
- D. Network sniffer

**Answer: C**

**NEW QUESTION 685**

A network is having problems with traffic flowing to several critical websites that are used for necessary company work. Which of the following appliances would BEST handle network traffic to increase network performance?

- A. Caching engine
- B. Traffic shaper
- C. Network based firewall
- D. Packet sniffer

**Answer: B**

**NEW QUESTION 687**

A company needs to find a way to best route latency-sensitive traffic appropriately on an already congested network. Which of the following would be BEST suited for this purpose?

- A. QoS
- B. PPPoE
- C. RADIUS
- D. VPN

**Answer: A**

**NEW QUESTION 691**

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**

**NEW QUESTION 694**

Which of the following can a technician use when installing a wireless network in a lounge to prevent inappropriate website images?

- A. Content filter

- B. VPN concentrator
- C. Load balancer
- D. Proxy server

**Answer:** A

**NEW QUESTION 696**

A network administrator is reviewing logs and notices that a device with a public IP address is trying to access the web server RDP port. Which of the following tools can be used to resolve the domain of the public IP address?

- A. arp
- B. nslookup
- C. ipconfig
- D. netstat

**Answer:** B

**NEW QUESTION 699**

A technician is having issues accessing the Internet from the workstation. They are able to ping the DNS server and their default gateway. Which of the following commands can be used to verify

- A. nslookup
- B. netstat
- C. traceroute
- D. nbtstat

**Answer:** A

**NEW QUESTION 704**

Which of the following would be used on a network to ensure access to resources if a critical host becomes unavailable?

- A. QoS
- B. CARP
- C. VLAN
- D. DHCP server

**Answer:** B

**NEW QUESTION 706**

Which of the following is used to ensure traffic flows efficiently on multiple T-1 circuits?

- A. DNS server
- B. Content filter
- C. Proxy server
- D. Load balancer

**Answer:** D

**NEW QUESTION 709**

Which of the following commands would be used to identify how many hops a data packet makes before reaching its final destination?

- A. route
- B. netstat
- C. traceroute
- D. ping 127.0.0.1

**Answer:** C

**NEW QUESTION 710**

A company has asked the network administrator to restrict access to any websites with unauthorized material. Which of the following technologies would BEST accomplish this?

- A. Content filter
- B. Packet filter
- C. IPS
- D. IDS

**Answer:** A

**NEW QUESTION 711**

Which of the following commands can be used on a server to display IP information for a given interface?

- A. nbtstat
- B. dig
- C. ifconfig

D. msconfig

**Answer: C**

**NEW QUESTION 712**

Which of the following switches is used with ARP to display the cache entry for a specific IP address?

- A. -a
- B. -d
- C. -g
- D. -s

**Answer: A**

**NEW QUESTION 714**

A user reports that one of their critical programs no longer functions after a recent router upgrade in the office. A network technician is called in to troubleshoot the issue and documentation shows that the software needs full open connections over ports 558, 981, and 382 in order to function. Which of the following tools could the technician BEST use to troubleshoot this issue?

- A. NET USE
- B. IPCONFIG
- C. TRACEROUTE
- D. TELNET

**Answer: D**

**NEW QUESTION 716**

A network administrator opens up the RDP port to access network resources from home. Several months later, the administrator's account is getting locked out constantly. After closing the port, which of the following should be used to identify the source of the attack?

- A. Network maps
- B. Change management
- C. Log analysis
- D. Protocol analyzer

**Answer: C**

**NEW QUESTION 717**

A company has been just opened a new site in another country. Both sites share information across the WAN continuously throughout the business day. Which of the following should be implemented to ensure both sites are accessible?

- A. Traffic shaping
- B. QoS
- C. Caching engines
- D. High availability

**Answer: D**

**NEW QUESTION 719**

Users are reporting that all of a sudden some of the files stored on the remote file server share are becoming corrupted and cannot be opened. A technician is dispatched to the server room to troubleshoot. The technician verifies that no changes to the network infrastructure occurred recently. Which of the following tools is MOST likely to reveal why files are becoming corrupted?

- A. Environmental monitor
- B. OTDR
- C. Cable tester
- D. Punch down tool

**Answer: A**

**NEW QUESTION 721**

A company wants an administrator to perform a vulnerability test. The administrator finds the company has a POTS phone system. Which of the following can the administrator use to point out the phone system vulnerability?

- A. Honey pot
- B. Butt set
- C. Spyware
- D. Blue jacking

**Answer: B**

**NEW QUESTION 725**

A technician is looking to create a new network cable. Which of the following tools would assist in creating and testing a cable properly? (Select TWO).

- A. Toner probe

- B. Cable certifier
- C. Butt set
- D. Crimper
- E. Network analyzer

**Answer:** BD

**NEW QUESTION 730**

A technician has noticed that the RJ-45 connector on the end of a user's patch cable was stripped too far back from the connector allowing for cross talk. Which of the following tools would a technician use to attach a new connector to eliminate this issue?

- A. Crimper
- B. Cable certifier
- C. Loopback plug
- D. Punch down tool

**Answer:** A

**NEW QUESTION 734**

Which of the following tools would a technician use to determine if a CAT6 patch cable has an open or short?

- A. OTDR
- B. Cable tester
- C. Toner probe
- D. Protocol analyzer

**Answer:** B

**NEW QUESTION 735**

An administrator has set up several IPSec and SSL tunnels to terminate on a single device. Which of the following has the administrator deployed?

- A. Proxy Server
- B. Load Balancer
- C. VPN Concentrator
- D. Web-Application Firewall

**Answer:** C

**NEW QUESTION 736**

Which of the following configuration management documents is used to describe how a computer performs after initial installation onto a network?

- A. Baseline
- B. Network map
- C. Asset management
- D. Installation guide

**Answer:** A

**NEW QUESTION 737**

When implementing video streaming from the Internet to an always on device, it is best to employ which of the following services to minimize latency issues?

- A. QoS
- B. EIGRP
- C. PPTP
- D. OSPF

**Answer:** A

**NEW QUESTION 738**

A technician is having trouble identifying a computer on a network. The technician has the IP address of the computer, but needs to find the hostname of the computer. Which of the following commands should the technician use?

- A. ipconfig /a
- B. ping -t
- C. ping -a

**Answer:** C

**NEW QUESTION 743**

A public website using round robin DNS is an example of:

- A. load balancing
- B. QoS
- C. Caching engines
- D. Traffic shaping

**Answer:** A

**NEW QUESTION 746**

A technician sets up a network with multiple WAN connections, backup power sources, multiple firewalls, and a mesh configuration for network switching. All of the software and hardware has fault detection designed to provide a system with minimal down time. Which of the following is the BEST example of this optimization method?

- A. Load balancing
- B. High availability
- C. Caching engines
- D. Quality of Service

**Answer:** B

**NEW QUESTION 748**

An administrator has been experiencing slower than normal performance on a server. The administrator suspects that a developer is currently uploading large files to it from an internal network PC. Which of the following will display established connections to the server on the FTP port?

- A. ifconfig
- B. nslookup
- C. netstat
- D. arp

**Answer:** C

**NEW QUESTION 752**

A content filter is MOST likely installed on which of the following servers?

- A. Proxy server
- B. TACACS+ server
- C. DNS server
- D. DHCP server

**Answer:** A

**NEW QUESTION 756**

A network technician has been asked to look into a report from the IDS to determine why traffic is being sent from an internal FTP server to an external website. Which of the following tools can be used to inspect this traffic?

- A. Router firewall
- B. Ping and traceroute
- C. Throughput tester
- D. Protocol analyzer

**Answer:** D

**NEW QUESTION 761**

Users are reporting a large decrease in network performance. After further investigation, the network administrator notices large amounts of traffic coming from a specific IP address. The network administrator needs to identify the payload of the network traffic. Which of the following could be used to collect that information?

- A. ipconfig
- B. ping
- C. sniffer
- D. route

**Answer:** C

**NEW QUESTION 762**

Which of the following can be used to decrypt SSL packets which encapsulate internal network addresses in the payload?

- A. Proxy server
- B. Content filter
- C. Load balancer
- D. VPN concentrator

**Answer:** D

**NEW QUESTION 764**

A company has a server with redundant power supplies. Which of the following is this an example of?

- A. Traffic shaping
- B. Caching engines
- C. Fault tolerance
- D. Load balancing

Answer: C

**NEW QUESTION 767**

A technician needs to verify the time of a power outage. Which of the following may be used to determine this information?

- A. Network baseline
- B. Tracert
- C. System logs
- D. Protocol analyzer

Answer: C

**NEW QUESTION 772**

A technician is troubleshooting a host name being directed to the wrong system. The 'arp -a' command line utility is used to identify and display which of the following?

- A. All TCP/IP connections and listening ports
- B. Internet-to-adapter translation tables
- C. Information to help diagnose DNS issues
- D. Active sockets and connections

Answer: B

**NEW QUESTION 777**

Several users are reporting connectivity issues with their laptops. Upon further investigation, the network technician identifies that their laptops have been attacked from a specific IP address outside of the network. Which of the following would need to be configured to prevent any further attacks from that IP address?

- A. Port security
- B. IDS
- C. Firewall rules
- D. Switch VLAN assignments

Answer: C

**Explanation:**

Firewall rules block or allow specific traffic passing through from one side of the router to the other. Inbound rules (WAN to LAN) restrict access by outsiders to private resources, selectively allowing only specific outside users to access specific resources. Outbound rules (LAN to WAN) determine what outside resources local users can have access to.

**NEW QUESTION 782**

The company is setting up a new website that will be requiring a lot of interaction with external users. The website needs to be accessible both externally and internally but without allowing access to internal resources. Which of the following would MOST likely be configured on the firewall?

- A. PAT-
- B. DHCP--
- C. DMZ--
- D. NAT--

Answer: C

**Explanation:**

DMZ-is a physical or logical subnetwork that contains and exposes an organization's external-facing services to a larger and untrusted network, usually the Internet. The purpose of a DMZ is to add an additional layer of security to an organization's local area network (LAN); an external attacker only has access to equipment in the DMZ, rather than any other part of the network.

**NEW QUESTION 784**

Which of the following can a network technician change to help limit war driving?

- A. Signal strength
- B. SSID
- C. Frequency
- D. Channel

Answer: A

**Explanation:**

War driving is a term used to describe the process of a hacker who, armed with a laptop and a wireless adapter card and traveling via a car, bus, subway train, or other form of mechanized transport, goes around sniffing for WLANs. Over time, the hacker builds up a database comprising the network name, signal strength, location, and ip/namespaces in use..

**NEW QUESTION 787**

Which of the following monitoring devices are used only to recognize suspicious traffic from specific software?

- A. Signature based IPS
- B. Application based IDS

- C. Anomaly based IDS
- D. Application based IPS

**Answer:** B

**Explanation:**

An APIDS monitors the dynamic behavior and state of the protocol and will typically consist of a system or agent that would typically sit between a process, or group of servers, monitoring and analyzing the application protocol between two connected devices.

**NEW QUESTION 790**

Which of the following security appliances are used to only identify traffic on individual systems?

- A. Host based IPS
- B. Application based IPS
- C. Network based IDS
- D. Host based IDS

**Answer:** D

**Explanation:**

A host-based intrusion detection system (HIDS) is an intrusion detection system that monitors and analyzes the internals of a computing system as well as the network packets on its network interfaces.

**NEW QUESTION 792**

Management has decided that they want a high level of security. They do not want Internet requests coming directly from users. Which of the following is the BEST recommendation?

- A. Content filter
- B. Proxy server
- C. Layer 3 switch
- D. Firewall

**Answer:** B

**Explanation:**

A proxy server is a server (a computer system or an application) that acts as an intermediary for requests from clients seeking resources from other servers.

**NEW QUESTION 793**

The security measure used to reduce vulnerabilities for MOST network devices that require regular application and monitoring is:

- A. patch management
- B. security limitations
- C. documentation
- D. social engineering

**Answer:** A

**Explanation:**

A patch is a piece of software designed to fix security vulnerabilities and other bugs, and improving the usability or performance.

**NEW QUESTION 796**

A network administrator is responding to a statement of direction made by senior management to implement network protection that will inspect packets as they enter the network. Which of the following technologies would be used?

- A. Packet sniffer
- B. Stateless firewall
- C. Packet filter
- D. Stateful firewall

**Answer:** D

**Explanation:**

Stateful firewall keeps track of the state of network connections (such as TCP streams, UDP communication) traveling across it. The firewall is programmed to distinguish legitimate packets for different types of connections. Only packets matching a known active connection will be allowed by the firewall; others will be rejected.

**NEW QUESTION 799**

A network administrator is looking to implement a solution allowing users to utilize a common password to access most network resources for an organization. Which of the following would BEST provide this functionality?

- A. RADIUS
- B. Single sign on
- C. Multifactor authentication
- D. Two-factor authentication

**Answer:** B

**Explanation:**

Single sign-on (SSO) is a session/user authentication process that permits a user to enter one name and password in order to access multiple applications. The process authenticates the user for all the applications they have been given rights to and eliminates further prompts when they switch applications during a particular session.

**NEW QUESTION 804**

A small office has created an annex in an adjacent office space just 20 feet (6 meters) away. A network administrator is assigned to provide connectivity between the existing office and the new office. Which of the following solutions provides the MOST security from third party tampering?

- A. CAT5e connection between offices via the patch panel located in building's communication closet.
- B. CAT5e cable run through ceiling in the public space between offices.
- C. VPN between routers located in each office space.
- D. A WEP encrypted wireless bridge with directional antennae between offices.

**Answer: C**

**Explanation:**

A VPN connection across the Internet is similar to a wide area network (WAN) link between the sites. From a user perspective, the extended network resources are accessed in the same way as resources available from the private network.

**NEW QUESTION 809**

Users at a remote site are unable to establish a VPN to the main office. At which of the following layers of the OSI model does the problem MOST likely reside?

- A. Presentation
- B. Application
- C. Physical
- D. Session

**Answer: D**

**NEW QUESTION 813**

A network technician has configured a new firewall with a rule to deny UDP traffic. Users have reported that they are unable to access Internet websites. The technician verifies this using the IP address of a popular website. Which of the following is the MOST likely cause of the error?

- A. Implicit deny
- B. HTTP transports over UDP
- C. Website is down
- D. DNS server failure

**Answer: A**

**Explanation:**

In a network firewall ruleset if a certain type of traffic isn't identified it will be denied or stopped by Implicit Deny.

**NEW QUESTION 815**

A network administrator is implementing a wireless honeypot to detect wireless breach attempts. The honeypot must implement weak encryption to lure malicious users into easily breaking into the network. Which of the following should the network administrator implement on the WAP?

- A. WPA
- B. WPA2
- C. WEP
- D. VPN

**Answer: C**

**Explanation:**

Wired Equivalent Privacy (WEP) is a security algorithm for IEEE 802.11 wireless networks. Introduced as part of the original 802.11 standard ratified in September 1999, its intention was to provide data confidentiality comparable to that of a traditional wired network. WEP, recognizable by the key of 10 or 26 hexadecimal digits, is widely in use and is often the first security choice presented to users by router configuration tools

**NEW QUESTION 818**

Which of the following wireless security measures, although widely implemented, does not provide strong security?

- A. IPSec
- B. WPA2
- C. MAC address filtering
- D. 802.1x

**Answer: C**

**Explanation:**

By MAC address filtering you can only filter layer 2 traffic but in security system layer 4 and layer 4 security is also essential.

**NEW QUESTION 823**

The network administrator has been tasked to create a network segment where resources can be placed for public web access.

Which of the following should be implemented?

- A. DMZ
- B. Honeynet
- C. PAT
- D. Port security

**Answer:** A

**Explanation:**

In computer security, a DMZ is a physical or logical subnetwork that contains and exposes an organization's external-facing services to a larger and untrusted network, usually the Internet.

**NEW QUESTION 825**

A corporate office recently had a security audit and the IT manager has decided to implement very strict security standards. The following requirements are now in place for each employee logging into the network:

Biometric fingerprint scan  
Complex 12 character password  
5 digit pin code authorization  
Randomized security question prompt upon login

Which of the following security setups does this company employ?

- A. Single factor authentication
- B. Three factor authentication
- C. Two factor authentication
- D. Single sign-on

**Answer:** C

**Explanation:**

According to proponents, two-factor authentication could drastically reduce the incidence of online identity theft, phishing expeditions, and other online fraud, because the victim's password would no longer be enough to give a thief access to their information.

**NEW QUESTION 826**

Which of the following remote access types requires a certificate for connectivity?

- A. SSH
- B. PPP
- C. HTTPS
- D. WEP

**Answer:** A

**Explanation:**

Secure Shell (SSH) is a cryptographic network protocol for secure data communication, remote command-line login, remote command execution, and other secure network services between two networked computers that connects, via a secure channel over an insecure network, a server and a client (running SSH server and SSH client programs, respectively)

**NEW QUESTION 828**

Which of the following wireless standards uses a block encryption cipher rather than a stream cipher?

- A. WPA2-CCMP
- B. WPA
- C. WEP
- D. WPA2-TKIP

**Answer:** A

**Explanation:**

Counter Cipher Mode with Block Chaining Message Authentication Code Protocol or CCMP (CCM mode Protocol) is an encryption protocol designed for Wireless LAN products that implement the standards of the IEEE 802.11i amendment to the original IEEE 802.11 standard. CCMP is an enhanced data cryptographic encapsulation mechanism designed for data confidentiality and based upon the Counter Mode with CBC-MAC (CCM) of the AES standard. It was created to address the vulnerabilities presented by WEP, a dated, insecure protocol.

**NEW QUESTION 829**

A user is connecting to the Internet at an airport through an ad-hoc connection. Which of the following is the MOST likely security threat?

- A. Man-in-the-middle
- B. Social engineering
- C. Phishing
- D. DoS

**Answer:** A

**Explanation:**

A man in the middle attack is one in which the attacker intercepts messages in a public key exchange and then retransmits them, substituting his own public key for the requested one, so that the two original parties still appear to be communicating with each other.

#### NEW QUESTION 834

An application server is placed on the network and the intended application is not working correctly. Which of the following could be used to make sure sessions are being opened properly?

- A. Antivirus scanner
- B. IDS
- C. Packet sniffer
- D. Toner probe

**Answer: C**

#### Explanation:

Packet Sniffer is a tool that can help you locate network problems by allowing you to capture and view the packet level data on your network. So we can capture the session and find the cause of failure.

#### NEW QUESTION 839

An administrator determines there are an excessive number of packets being sent to a web server repeatedly by a small number of external IP addresses. This is an example of which of the following attacks?

- A. DDoS
- B. Viruses
- C. Worms
- D. Man-in-the-middle

**Answer: A**

#### Explanation:

DDoS attack, a type of attack on a network that is designed to bring the network to its knees by flooding it with useless traffic. Many DoS attacks, such as the Ping of Death and Teardrop attacks, exploit limitations in the TCP/IP protocols

#### NEW QUESTION 842

Which of the following authentication solutions use tickets that include valid credentials to access additional network resources?

- A. Kerberos
- B. RADIUS
- C. Multi-factor authentication
- D. TACACS+

**Answer: A**

#### NEW QUESTION 845

Which of the following would be used in a firewall to block incoming TCP packets that are not from established connections?

- A. Access control lists
- B. Port address translation
- C. Blocking unauthorized ports
- D. Stateful inspection

**Answer: D**

#### NEW QUESTION 850

Which of the following wireless router security measures provides access to a network by allowing only devices on an approved physical address list?

- A. Port filtering
- B. MAC filtering
- C. SSID masking
- D. Port forwarding

**Answer: B**

#### NEW QUESTION 852

Which of the following BEST describes a firewall that can be installed via Add/Remove programs on a Windows computer?

- A. Managed
- B. Software
- C. Hardware
- D. Wireless

**Answer: B**

#### NEW QUESTION 853

Which of the following tools could attempt to detect operating system vulnerabilities?

- A. nslookup
- B. honeynet
- C. netstat

D. nessus

**Answer:** D

**NEW QUESTION 855**

An administrator wants to restrict traffic to FTP sites regardless of which PC the request comes from. Which of the following would BEST accomplish this?

- A. An IP filtering ACL
- B. A MAC filtering ACL
- C. A port filtering ACL
- D. A class matching ACL

**Answer:** C

**NEW QUESTION 857**

Which of the following provides the STRONGEST security for a tunneled connection over the Internet?

- A. RDP
- B. SMTP
- C. RAS
- D. IPSec

**Answer:** D

**NEW QUESTION 862**

A technician enters a username and password once and can access multiple databases without being prompted to reenter their password. This is an example of which of the following?

- A. Two-factor authentication
- B. Network access control
- C. Multifactor authentication
- D. Single sign-on

**Answer:** D

**NEW QUESTION 867**

A network administrator decides to secure their small network by allowing only specific MAC addresses to gain access to the network from specific switches. Which of the following is described by this example?

- A. Packet filtering
- B. Hardware firewalls
- C. Port security
- D. Stateful inspection

**Answer:** C

**NEW QUESTION 872**

Which of the following can use a third party back-end LDAP user database for authentication?

- A. ISAKMP
- B. TACACS+
- C. PKI
- D. CHAP

**Answer:** B

**NEW QUESTION 874**

Which of the following firewall rules will block destination telnet traffic to any host with the source IP address 1.1.1.2/24?

- A. Deny any source host on source port 23 to destination any
- B. Deny any source network 1.1.1.0/24 to destination any on port 23
- C. Deny source host 1.1.1.2 on source port 23 to destination any
- D. Deny any source network 1.1.1.0/24 with source port 23 to destination any

**Answer:** B

**NEW QUESTION 877**

Which of the following are authentication methods that can use AAA authentication? (Select TWO).

- A. Kerberos
- B. PKI
- C. TKIP/AES
- D. MS-CHAP
- E. RADIUS
- F. TACACS+

**Answer:** EF

**NEW QUESTION 879**

Which of the following are considered AAA authentication methods? (Select TWO).

- A. Kerberos
- B. Radius
- C. MS-CHAP
- D. TACACS+
- E. 802.1X

**Answer:** BD

**NEW QUESTION 884**

A company wants to simplify network authentication for their users. Which of the following would be used to implement wireless security with single sign-on?

- A. WPA2 enterprise
- B. WEP
- C. Stateful firewall
- D. PAT

**Answer:** A

**NEW QUESTION 885**

A technician is asked to filter inbound and outbound traffic of a specific service on the network. Which of the following would BEST allow the technician to comply with the request?

- A. MAC filtering
- B. IP filtering
- C. Port filtering
- D. Content filtering

**Answer:** C

**NEW QUESTION 888**

A user enters a password into a logon box on a PC. The server and the PC then compare one-way hashes to validate the password. Which of the following methods uses this process?

- A. PKI
- B. Kerberos
- C. Single sign-on
- D. CHAP

**Answer:** D

**NEW QUESTION 889**

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