

The network administrator enters these commands into the R1 router: R1# copy running-config tftp; Address or name of remote host []? When the router prompts for an address or remote host name, what IP address should the administrator enter at the prompt? TFTP application address – 192.168.11.252

Which 3 statements characterize the transport layer protocols? TCP and UDP port number are used by application layer protocols. TCP uses windowing and sequencing to provide reliable transfer of data. TCP is a connection-oriented protocol. UDP is a connectionless protocol.

What is the purpose of ICMP messages: To provide feedback of IP packet transmissions

A technician uses the ping 127.0.0.1 command. What is the technician testing? The TCP/IP stack on a network host.

What will a Layer 2 switch do when the destination MAC address of a received frame is not in the MAC table? It forwards the frame out of all ports except for the port at which the frame was received.

What is a characteristic of the LLC sublayer? It places information in the frame that allows multiple Layer 3 protocols to use the same network interface and media.

On which switch interface would an administrator configure an IP address so that the switch can be managed remotely?
VLAN 1

A network engineer is measuring the transfer of bits across the company backbone for a mission critical database application. The engineer notices that the network throughput appears lower than the bandwidth expected. Which three factors could influence the differences in throughput? The amount of traffic that is currently crossing the network; The type of traffic that is crossing the network; The latency that is created by the number of network devices that the data is crossing.

When applied to a router, which command would help mitigate brute-force password attacks against the router? Login block-for 60 attempts 5 within 60;

Which two statements correctly describe a router memory type and its contents? ROM is non-volatile and contains basic diagnostic software. RAM is volatile and stores the IP routing table.

Which two components are necessary for a wireless client to be installed on a WLAN? Wireless NIC; Wireless client software

Fill in the blank: The server0 message is.... Winner

A host is accessing a Web server on a remote network. Which three functions are performed by intermediary network devices during this conversation? Applying security settings to control the flow of data; Notifying other devices when errors occur; Regenerating data signals

Copper Cables - Horizontal cabling structure; Desktop PC in an enterprise office

Fiber Optic - Backbone cabling in an enterprise; Long-haul networks

Wireless - Guest access in a coffee shop; Waiting rooms in a hospital

PDU encapsulation: Frame header; Network header; Transport Header; Data; Frame Trailer

Which address on a PC does not change, even if the PC is moved to a different network? MAC address

What will happen if the default gateway address is incorrectly configured on a host? The host cannot communicate with hosts in other networks.

A host PC has just booted and is attempting to lease an address through DHCP. Which two messages with the client typically broadcast on the network? DHCPREQUEST; DHCPDISCOVER

Which technology provides a solution to IPv4 address depletion by allowing multiple devices to share one public IP address? NAT

What is the purpose of the routing process? To select the paths that are used to direct traffic to destination networks.

Three bank employees are using the corporate network. The first employee uses a web browser to view a company web page in order to read some announcements. The second employee accesses the corporate database to perform some financial transactions. The third employee participates in an important live audio conference with other corporate managers in branch offices. If QoS is implemented on this network, what will be the priorities from highest to lowest of the different data types? Audio conference, financial transactions, web page

What is the purpose of the network security accounting function? To keep track of the actions of a user

Which publicly available resources describe protocols, processes, and technologies for the Internet but do not give implementation details? Request for Comments

A PC is configured to obtain an IP address automatically from network 192.168.1.0/24. The network administrator issues the `arp -a` command and notices an entry of 192.168.1.255 ff-ff-ff-ff-ff-ff. Which statement describes this entry?
This is a static map entry.

Which subnet would include the address 192.168.1.96 as a usable host address? 192.168.1.64/26

A particular website does not appear to be responding on a Windows 7 computer. What command could the technician use to show any cached DNS entries for this web page? `ipconfig /displaydns`

Which type of wireless security generates dynamic encryption keys each time a client associates with an AP? WPA.

A frame is transmitted from one networking device to another. Why does the receiving device check the FCS field in the frame? To check the frame for possible transmission errors.

The network on site 2 addressing scheme should be changed.

What is the effect of configuring the IPv6 unicast-routing command on a router? To enable the router as an IPv6 router.

Which three IP addresses are private? 10.1.1.1; 172.16.4.4; 192.168.5.5

What is a description of the default gateway address? It is the IP address of the Router1 interface that connects the PC1 LAN to Router1.

During normal operation, from which location do most CISCO switches and routers run the IOS? RAM

What is an important function of the physical layer of the OSI model? It encodes frames into electrical, optical, or radio wave signals.

Which procedure is used to reduce the effect of crosstalk in copper cables? Twisting opposing circuit wire pairs together

What are the three primary functions provided by Layer 2 data encapsulation? Detection of errors through CRC calculations; Delimiting groups of bits into frames; Data link layer addressing

What method is used to manage contention-based access on a wireless network? CSMA/CA

What happens when part of an Internet radio transmission is not delivered to the destination? The transmission continues without the missing portion.

Which function is provided by TCP? Detection of missing packets

How does a Layer 3 switch differ from a Layer 2 switch? An IP address can be assigned to a physical port of a Layer 3 switch. However, this is not supported in a layer 2 switch.

Which two notations are usable nibble boundaries when subnetting in IPv6? /68 /64

What is the purpose of having a converged network? To reduce the cost of deploying and maintaining the communication infrastructure.

What two preconfigured settings that affect security are found on most new wireless routers? Default administrator password; broadcast SSID

Which parameter does the router use to choose the path to the destination when there are multiple routes available? The lower metric value that is associated with the destination network.

Show file systems – star represents the default file system.

Router boot process: POST; load bootstrap program; locate and load Cisco IOS; locate and load the config file

During data communications, a host may need to send a single message to a specific group of destination hosts simultaneously. This is called a multicast message.

Ctrl-Shift-6 key combination on a switch after issuing the ping command. What is the purpose? To interrupt the ping process.

Link-Local: FE80.56BA.FFEE.A0B4.47FF.FE36.532B; FE80::1

Multicast: FE02::2; FF02.1.FF3A.25C9

Global Unicast: 2001.DB8.10..12; 2001..DB8.A1.0B.C78..1

User Exec Mode – limited number of basic monitoring commands; the first entrance into the CLI of and IOS device

Privileged EXEC Mode – accessed by entering the enable command; identified by the # prompt

Global configuration Mode – changes affect the operation of the device; accessed with config term command

A router will search for startup configuration information in NVRAM, TFTP, setup mode

What is contained in the trailer of a data-link frame? Error detection

Acknowledgment – used to identify missing segments of data

Retransmission – received by a sender before transmitting more segments in a session

FCS – method of managing segments of data loss

Sequence Number – Number of bytes a destination device can accept and process at one time

```
router> enable
router# configure terminal
router(config)# hostname R1
R1(config)# banner motd "No unauthorized access
allowed!"
R1(config)# service password-encryption
R1(config)# security passwords min-length 10
R1(config)# enable secret class12345
R1(config)# username admin secret danscourses
R1(config)# ip ssh version 2
R1(config)# ip domain-name danscourses.com
R1(config)# crypto key generate rsa modulus[512]
1024
R1(config)# interface GigabitEthernet0/0
R1(config-if)# ip address 192.168.4.65
255.255.255.192
R1(config-if)# ipv6 address FE80::1 link-local
R1(config-if)# ipv6 address 2001:DB8:CCCC:1::1/64
R1(config-if)# no shutdown
R1(config-if)# interface GigabitEthernet0/1
R1(config-if)# ip address 192.168.4.193
255.255.255.240
R1(config-if)# ipv6 address FE80::1 link-local
R1(config-if)# ipv6 address
2001:DB8:CCCC:2::1/64
R1(config-if)# no shutdown

R1(config-if)# exit
R1(config)# line con 0
R1(config-line)# exec-timeout 5 0
R1(config-line)# login local
R1(config-line)# line vty 0 4
R1(config-line)# exec-timeout 5 0
R1(config-line)# login local
R1(config-line)# transport input ssh
```

```
R1(config-line)#exit
R1(config-line)#copy run start
S1
switch> enable
switch# configure terminal
switch(config)# hostname S1
S1(config)# banner motd "No unauthorized access
allowed!"
S1(config)# service password-encryption
S1(config)# enable secret class12345
S1(config)# username admin secret danscourses
S1(config)# ip ssh version 2
S1(config)# ip domain-name danscourses.com
S1(config)# crypto key generate rsa modulus[512]
1024
S1(config)# interface vlan 1
S1(config-if)# ip address 192.168.4.126
255.255.255.192
S1(config-if)# no shut
S1(config-if)# exit
S1(config)# ip default-gateway 192.168.4.65
S1(config)# line con 0
S1(config-line)# exec-timeout 5 0
S1(config-line)# login local
S1(config-line)# line vty 0 4
S1(config-line)# exec-timeout 5 0
S1(config-line)# login local
S1(config-line)# transport input ssh>
S1(config-line)# line vty 5 15
S1(config-line)# exec-timeout 5 0
S1(config-line)# login local
S1(config-line)# transport input ssh
S1(config-line)# exit
S1(config-line)# copy run start
S2
```

```
switch> enable
switch# configure terminal
switch(config)# hostname S2
S2(config)# banner motd "No unauthorized access
allowed!"
S2(config)# service password-encryption
S2(config)# enable secret class12345
S2(config)# username admin secret danscourses
S2(config)# ip ssh version 2
S2(config)# ip domain-name danscourses.com
S2(config)# crypto key generate rsa
modulus[512] 1024
S2(config)# interface vlan 1

S2(config-if)# ip address 192.168.4.206
255.255.255.240
S2(config-if)# no shut
S2(config-if)# exit
S2(config)# ip default-gateway 192.168.4.193
S2(config)# line con 0
S2(config-line)# exec-timeout 5 0
S2(config-line)# login local
S2(config-line)# line vty 0 4
S2(config-line)# exec-timeout 5 0

S2(config-line)# login local
S2(config-line)# transport input ssh>
```

```
S2(config-line)# line vty 5 15
S2(config-line)# exec-timeout 5 0
S2(config-line)# login local
S2(config-line)# transport input ssh
S2(config-line)# exit
S2(config-line)# copy run start
```

Which statement describes signaling at the physical layer? Sending the signals asynchronously means that they are transmitted without a clock signal.*

What acronym is used to reference the data link sub layer that identifies the network layer protocol encapsulated in the frame? "LLC"

What is true concerning physical and logical topologies? Logical topologies determine the media access control method used.*

What are two characteristics of 802.11 wireless networks? (Choose two.) Collisions can exist in the networks. *They use CSMA/CA technology.*

A network administrator is required to upgrade wireless access to end users in a building. To provide data rates up to 1.3 Gb/s and still be backward compatible with older devices, which wireless standard should be implemented? 802.11ac*

What is a service provided by the Flow Label field of the IPv6 header? It informs network devices to maintain the same path for real time application packets.*

In a router, "ROM" is the nonvolatile memory where the diagnostic software, the boot up instructions, and a limited IOS are stored.

Which two files, if found, are copied into RAM as a router with the default configuration register setting boots up? (Choose two.) startup configuration *IOS image file*

When would the Cisco IOS image held in ROM be used to boot the router? when the full IOS cannot be found*

Which IPv6 address is most compressed for the full FE80:0:0:0:2AA:FF:FE9A:4CA3 address? FE80::2AA:FF:FE9A:4CA3*

What are three parts of an IPv6 global unicast address? (Choose three.) an interface ID that is used to identify the local host on the network *a subnet ID that is used to identify networks inside of the local enterprise site *a global routing prefix that is used to identify the network portion of the address that has been provided by an ISP*

Which network migration technique encapsulates IPv6 packets inside IPv4 packets to carry them over IPv4 network infrastructures? tunneling*

When an IPv6 enabled host needs to discover the MAC address of an intended IPv6 destination, which destination address is used by the source host in the NS message? solicited-node multicast address*

When a Cisco router is being moved from an IPv4 network to a complete IPv6 environment, which series of commands would correctly enable IPv6 forwarding and interface addressing?

```
Router# configure terminal Router(config)# interface fastethernet 0/0
```

```
Router(config-if)# ipv6 address 2001:db8:bced:1::9/64
```

```
Router(config-if)# no shutdown
```

```
Router(config-if)# exit
```

```
Router(config)# ipv6 unicast-routing *****
```

What two statements describe characteristics of Layer 3 broadcasts? (Choose two.) Routers create broadcast domains.* A limited broadcast packet has a destination IP address of 255.255.255.255.*

What are two types of IPv6 unicast addresses? (Choose two.) any cast link-local* loopback*

An IPv6 enabled device sends a data packet with the destination address of FF02::1. What is the target of this packet? all IPv6 enabled nodes on the local link*

When developing an IP addressing scheme for an enterprise network, which devices are recommended to be grouped into their own subnet or logical addressing group? hosts accessible from the Internet*

A network administrator needs to monitor network traffic to and from servers in a data center. Which features of an IP addressing scheme should be applied to these devices? predictable static IP addresses for easier identification*

Which two reasons generally make DHCP the preferred method of assigning IP addresses to hosts on large networks? (Choose two.) It eliminates most address configuration errors.* It reduces the burden on network support staff.*

When subnetting a /64 IPv6 network prefix, which is the preferred new prefix? /72*

What is the subnet address for the address 2001:DB8:BC15:A:12AB::1/64? 2001:DB8:BC15:A::0*

Which two notations are useable nibble boundaries when subnetting in IPv6? (Choose two.) /64*/68*

In dotted decimal notation, the IP address "172.25.0.126" is the last host address for the network 172.25.0.64/26.

In dotted decimal notation, the subnet mask "255.255.254.0" will accommodate 500 hosts per subnet.

Consider the following range of addresses:

2001:0DB8:BC15:00A0:0000::

2001:0DB8:BC15:00A1:0000::

2001:0DB8:BC15:00A2:0000::

...

2001:0DB8:BC15:00AF:0000::

The prefix for the range of addresses is "60" .

Which two tasks are functions of the presentation layer?(Choose two.) compression*encryption*

Select three protocols that operate at the Application Layer of the OSI model. (Choose three.) FTP*POP3*DHCP*

A manufacturing company subscribes to certain hosted services from their ISP. The services required include hosted world wide web, file transfer, and e-mail. Which protocols represent these three key applications? (Choose three.)FTP*HTTP*SMTP*

What are two characteristics of peer-to-peer networks? (Choose two.) decentralized resources* resource sharing without a dedicated server*

What is an example of network communication that uses the client-server model? A workstation initiates a DNS request when the user typeswww.cisco.com in the address bar of a web browser.*

What is an advantage for small organizations of adopting IMAP instead of POP? Messages are kept in the mail servers until the client manually deletes them.*

Which two actions are taken by SMTP if the destination email server is busy when email messages are sent? (Choose two.) SMTP tries to send the messages at a later time.* SMTP periodically checks the queue for messages and attempts to send them again.*

Which application layer protocol uses message types such as GET, PUT, and POST?HTTP*

A DHCP-enabled client PC has just booted. During which two steps will the client PC use broadcast messages when communicating with a DHCP server? (Choose two.)DHCPDISCOVER*DHCPREQUEST*

Which DNS server in the DNS hierarchy would be considered authoritative for the domain name records of a company named netacad? netacad.com*

Which three statements describe a DHCP Discover message?(Choose three.)The destination IP address is 255.255.255.255.* The message comes from a client seeking an IP address. *All hosts receive the message, but only a DHCP server replies.*

Which phrase describes an FTP daemon? a program that is running on an FTP server*

What is true about the Server Message Block protocol? Clients establish a long term connection to servers.*

When would it be more efficient to use SMB to transfer files instead of FTP? when downloading large numbers of files from the same server*

What is the acronym for the protocol that is used when securely communicating with a web server? “ HTTPS “

Refer to the exhibit. What command was used to resolve a given host name by querying the name servers? “nslookup ”

Place the options in the following order:

a message that is used to identify the explicit server and lease offer to accept: dhcp request

a message that is used to locate any available DHCP server on a network: dhcpdiscover

a message that is used to suggest a lease to a client: dhcp offer

a message that is used to acknowledge that the lease is successful: dhcpc

[+] no dedicated server is required: p-p network

[+] client and server roles are set on a per request basis: p-p network

[#] requires a specific user interface: p-p application

[#] a background service is required: p-p application

What is the Layer 2 multicast MAC address that corresponds to the Layer 3 IPv4 multicast address 224.139.34.56? 01-00-5E-0B-22-38*

What is the purpose of the preamble in an Ethernet frame? is used for timing synchronization*

A Layer 2 switch is used to switch incoming frames from a 1000BASE-T port to a port connected to a 100Base-T network. Which method of memory buffering would work best for this task? shared memory buffering*

Which two statements describe a fixed configuration Ethernet switch? (Choose two.) A fixed configuration switch may be stackable.* The number of ports on the switch cannot be increased.*

Which two statements about a service set identifier (SSID) are true? (Choose two.) all wireless devices on the same WLAN must have the same SSID tells a wireless device to which WLAN it belongs

Which type of network attack involves the disabling or corruption of networks, systems, or services? denial of service attacks

Which command will backup the configuration that is stored in NVRAM to a TFTP server? copy startup-config tftp

How long will a user be blocked if the user exceeds the maximum allowed number of unsuccessful login attempts? 3 minutes

Fill in the blank. Do not use abbreviations. The " show version " command that is issued on a router is used to verify the value of the software configuration register

What is a security feature of using NAT on a network? allows internal IP addresses to be concealed from external users

A network administrator has determined that various computers on the network are infected with a worm. Which sequence of steps should be followed to mitigate the worm attack? containment, inoculation, quarantine, and treatment

Which WLAN security protocol generates a new dynamic key each time a client establishes a connection with the AP? WPA

Refer to the exhibit. Baseline documentation for a small company had ping round trip time statistics of 36/97/132 between hosts H1 and H3. Today the network administrator checked connectivity by pinging between hosts H1 and H3 that resulted in a round trip time of 1458/2390/6066. What does this indicate to the network administrator? Something is causing a time delay between the networks.

When should an administrator establish a network baseline? at regular intervals over a period of time

A ping fails when performed from router R1 to directly connected router R2. The network administrator then proceeds to issue the show cdp neighbors command. Why would the network administrator issue this command if the ping failed between the two routers? The network administrator wants to verify Layer 2 connectivity.

Which statement is true about CDP on a Cisco device? CDP can be disabled globally or on a specific interface.

What is the purpose of issuing the commands cd nvram: thendir at the privilege exec mode of a router? to list the content of the NVRAM

A network administrator checks the security log and notices there was unauthorized access to an internal file server over the weekend. Upon further investigation of the file system log, the administrator notices several important documents were copied to a host located outside of the company. What kind of threat is represented in this scenario? information theft

If a configuration file is saved to a USB flash drive attached to a router, what must be done by the network administrator before the file can be used on the router? Edit the configuration file with a text editor.

Which network design consideration would be more important to a large corporation than to a small business? redundancy

Which protocol supports rapid delivery of streaming media? RTP

Refer to the exhibit. An administrator is trying to troubleshoot connectivity between PC1 and PC2 and uses the tracert command from PC1 to do it. Based on the displayed output, where should the administrator begin troubleshooting?R1

Which two statements characterize wireless networksecurity? (Choose two.) Using the default IP address on an access point makes hacking easier.With SSID broadcast disabled, an attacker must know the SSID to connect.

Which two actions can be taken to prevent a successful attack on an email server account? (Choose two.)Never send the password through the network in a clear text. Limit the number of unsuccessful attempts to log in to the server.

How should traffic flow be captured in order to best understand traffic patterns in a network? during peak utilization times

What do WLANs that conform to IEEE 802.11 standards allow wireless user to do? connect wireless hosts to hosts or services on a wired Ethernet network

Fill in the blank." VoIP " defines the protocols and technologies that implement the transmission of voice data over an IP network.

24 Fill in the blank. Do not use abbreviations. The show " file systems " command provides information about the amount of available and free flash memory and its permissions for reading or writing data

A company is developing an Internet store for its website. Which protocol should be used to transfer credit card information from customers to the company web server? HTTPS

A medium-sized business is researching available options for connecting to the Internet. The company is looking for a high speed option with dedicated, symmetric access. Which connection type should the company choose? leased line

What are two characteristics of a scalable network? (Choose two.)
grows in size without impacting existing users
suitable for modular devices that allow for expansion

Refer to the exhibit. A network engineer is attempting to connect to a new router to perform the initial configuration. The engineer connects a rollover cable from the serial port of a PC to the Aux port on the router, then configures HyperTerminal as shown. The engineer cannot get a login prompt in HyperTerminal. What would fix the problem? Move the cable to the router console port.

Refer to the exhibit. From global configuration mode, an administrator is attempting to create a message-of-the-day banner by using the command banner motd V Authorized access only! Violators will be prosecuted! V When users log in using Telnet, the banner does not appear correctly. What is the problem? The delimiting character appears in the banner message

Top of Form

A user is attempting to do an `http://www.cisco.com/` without success. Which two configuration values must be set on the host to allow this access? (Choose two.)

Bottom of Form

DNS server

Default gateway

A network team is comparing physical WAN topologies for connecting remote sites to a headquarters building. Which topology provides high availability and connects some, but not all, remote sites? partial mesh

Which two statements are correct in a comparison of IPv4 and IPv6 packet headers? (Choose two.) The Source Address field name from IPv4 is kept in IPv6.

The Time-to-Live field from IPv4 has been replaced by the Hop Limit field in IPv6.

Using default settings, what is the next step in the router boot sequence after the IOS loads from flash? The configuration file is missing from NVRAM.

What are two ways that TCP uses the sequence numbers in a segment? (Choose two.)

to identify missing segments at the destination

to reassemble the segments at the remote location



Refer to the exhibit. Using VLSM, what is the largest and smallest subnet mask required on this network in order to minimize address waste? 255.255.254.0 and 255.255.255.252

A network administrator has been issued a network address of 192.31.7.64/26. How many subnets of equal size could be created from the assigned /26 network by using a /28 prefix?4

A small satellite office has been given the overall network number of 192.168.99.0/24 and the network technician can subdivide the network addresses as needed. The office needs network access for both wired and wireless devices. However, because of the security consideration, these two networks should be separate. The wired network will have 20 devices. The wireless network has a potential connection of 45 devices. Which addressing scheme would be most efficient for these two networks? 192.168.99.0/26

192.168.99.64/27

Which IPv6 address notation is valid? 2001:DB8:0:1111::200

What are the three parts of an IPv6 global unicast address? (Choose three.) global routing prefix
subnet ID, interface id

Which statement describes a characteristic of the traceroute utility? It identifies the routers in the path from a source host to a destination host.

What three statements describe features or functions of media access control? (Choose three.) It is responsible for detecting transmission errors in transmitted data.
Data link layer protocols define the rules for access to different media. Ethernet utilizes CSMA/CD.

Top of Form

A network administrator is troubleshooting connectivity issues on a server. Using a tester, the administrator notices that the signals generated by the server NIC are distorted and not usable. In which layer of the OSI model is the error categorized?
physical layer

Bottom of Form

Which router configuration mode would an administrator use to configure the router for SSH or Telnet login access? Line

A user calls the help desk to report that a Windows XP workstation is unable to connect to the network after startup and that a popup window says "This connection has limited or no connectivity." The technician asks the user to issue the ipconfig /all command. The user reports the IP address is 169.254.69.196 with subnet mask of 255.255.0.0 and nothing is displayed for the DNS server IP address. What is the cause of the problem? The workstation is unable to obtain an IP address from a DHCP server.

To revert to a previous configuration, an administrator issues the command copy tftp startup-config on a router and enters the host address and file name when prompted. After the command is completed, why does the current configuration remain unchanged? The configuration should have been copied to the running configuration instead.

Refer to the exhibit. Which two settings could be changed to improve security on the wireless network? (Choose two.)
SSID SSID broadcast

Refer to the exhibit. A new branch office has been added to the corporate network and a new router is to be installed to allow branch office users to access the database server at headquarters. How should the serial 0/0/0 interface of the new branch office router be configured to connect to the headquarters router? branch_23(config-if)# encapsulation ppp
branch_23(config-if)# ip address 192.168.5.21 255.255.255.240
branch_23(config-if)# no shutdown

Which two commands ensure that any password that permits access to the privileged EXEC mode is not shown in plain text when the configuration files are displayed? (Choose two.)

Router(config)# enable secret cisco

- Router(config)# service password-encryption

A new network is to be configured on a router. Which of the following tasks must be completed to configure this interface and implement dynamic IP routing for the new network? (Choose three.)

- Select the routing protocol to be configured.
- Assign an IP address and subnet mask to the interface

Configure the routing protocol with the new network IP address.

How does TCP ensure the reliable transfer of data? TCP uses the SYN-ACK portion of the three-way handshake to ensure that all data has been received.

Which statement is true about FTP implementations? FTP requires two connections, one for control and one for data.

A network administrator is asked to design a system to allow simultaneous access to the Internet for 250 users. The ISP for this network can only supply five public IPs. What can be used to accomplish this task? • port address translation

A user is able to ping an FTP server across a WAN but is unable to download files from the server. What should be checked to resolve this problem? firewall settings

What is the most commonly used exterior routing protocol?

- BGP

Refer to the exhibit. The network administrator needs to configure the router with a name. Which command will the administrator use to configure the router name? Router(config)# hostname Boise

Refer to the exhibit. R1 and R2 are configured with the commands that are displayed. All interfaces are properly configured, but neither router is receiving routing updates. What two things can be done to solve the problem? (Choose two.)

Configure the routing protocol on R1 for network 10.0.0.0.

Configure the routing protocol on R2 for network 10.0.0.0.

Why are port numbers included in the TCP header of a segment? to determine which Layer 3 protocol should be used to encapsulate the data

What is the purpose of the routing process? to select the paths that are used to direct traffic to destination networks

11. Which two statements are true about the use of the debug ip rip command on a Cisco router? (Choose two.)

- The debug ip rip command displays RIP routing activity in real time.
- The debug ip rip command can be issued at the user EXEC configuration mode.

What minimum configurations must be set on a host to allow a request to be sent to <http://www.cisco.com/>? (Choose four.) DNS server IP address subnet mask

- default gateway

A Catalyst 2960 switch has been taken out of storage to be used as a temporary replacement for another switch that needs to be repaired. About a minute after the switch has started, the SYST LED on the front of the switch transitions from blinking green to amber. What is the meaning of the amber SYST LED? The switch has failed POST and must be sent for service.

After an unsuccessful ping to the local router, the technician decides to investigate the router. The technician observes that the lights and fan on the router are not operational. In which layer of the OSI model is the problem most likely occurring? Physical

Which two statements are true about resolvers in the DNS hierarchy? (Choose two.) The DNS server queries the resolvers to translate the domain name to an IP address. The DNS server uses the resolver to forward the name resolution request to another DNS server

Refer to the exhibit. A new router has been configured for the first time with the commands that are displayed. Which two facts can be determined about the interface of this router? (Choose two.) It will act as a DCE device.

What are two reasons for issuing the show ip protocols command on a router? (Choose two.) It displays the routing protocol in use It displays the networks that are being advertised by the router.

. Which statement correctly describes an SLA? It lists the terms of the agreement between the user and the manufacturer of the system.

What is the effect of issuing the hostname RouterA command on a router? The router prompt will change from Router(config)# to RouterA(config)#

Which routing protocol excludes the subnet information from routing updates? RIPv1

Which statement correctly describes MIB? It is a communication protocol that is used between the management station and the management agent.

A customer reports connectivity problems to an ISP technician. Upon questioning the customer, the technician discovers that all network applications are functioning except for FTP. What should the technician suspect is the problem?
misconfigured firewall

While troubleshooting a connectivity issue between two directly connected routers, the network administrator checks the encapsulation settings on the serial interfaces of both routers. Which layer of the OSI model is the administrator troubleshooting?
physical layer

Which statement correctly describes the difference between HTTP and HTTPS? HTTPS authenticates and encrypts the data being transferred between the client and the web server.

A hacker attempts to reach confidential information that is stored on a server inside the corporate network. A network security solution inspects the entire packet, determines that it is a threat, and blocks the packet from entering the inside network. Which security measure protected the network?
an IPS

Which statement describes a feature of TCP? It acknowledges the receipt of packets.

Which routing protocol depends on the DUAL algorithm to calculate the shortest path to a destination? EIGRP

What is a characteristic of Syslog? It enables devices to send information to a daemon that runs on a management station.

Refer to the exhibit. Devices need to connect to the file server from remote networks. What method should be used to provide the file server with an IP address to allow these connections?
static NAT

Which two statements are true about the c:> ping command? (Choose two.)
It tests the accessibility of an IP address. It sends an ICMP echo request packet to the destination address.

Which type of cable may be used for backbone cabling between data centers that are located on different floors and that are separated by a distance of 1640 feet (500 meters)?
fiber-optic

Which WAN connection provides a dedicated circuit with fixed bandwidth available at all times?
point-to-point

When does a router enter the setup mode? when the configuration is missing in NVRAM