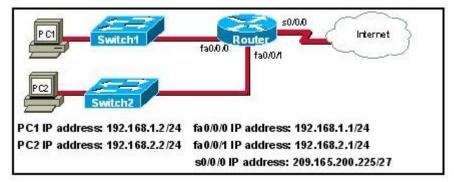
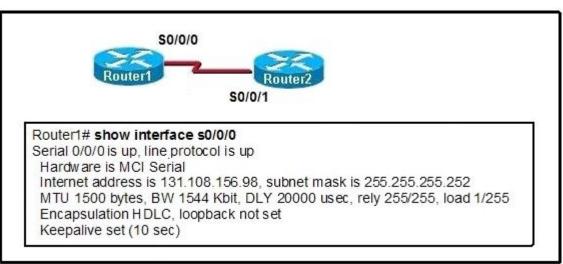
1

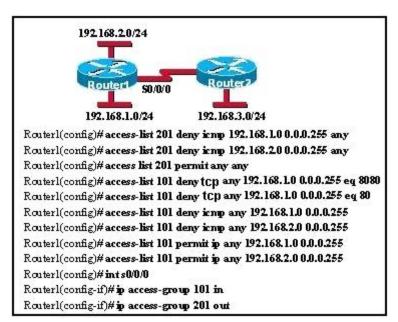


Refer to the exhibit. The network administrator creates a standard access control list t 192.168.1.0/24 network from reaching the 192.168.2.0/24 network while still permitt networks. On which router interface and in which direction should it be applied?

- interface fa0/0/0, inbound
- interface fa0/0/0, outbound
- interface fa0/0/1, inbound
- interface fa0/0/1, outbound
- 2 A network administrator is analyzing the data from a network performance baseline indicated in the baseline data?
  - the IP addressing scheme of the network
  - the most heavily used parts of the network
  - congested areas of the network
  - error rates in different parts of the network
- **3** A technician has been asked to run Cisco SDM one-step lockdown on the router of a result of this process?
  - Traffic is only forwarded from SDM-trusted Cisco routers.
  - Security testing is performed and the results are saved as a text file stored in NVI
  - The router is tested for potential security problems and any necessary changes are
  - All traffic entering the router is quarantined and checked for viruses before being



		Fer to the exhibit. A technician issues the <b>show interface s0/0/0</b> command on R1 while troubleshooting work problem. What two conclusions can be determined by from the output shown? (Choose two.)
		The bandwidth has been set to the value of a T1 line.
		This interface should be configured for PPP encapsulation.
		There is no failure indicated in an OSI Layer 1 or Layer 2.
		The physical connection between the two routers has failed.
		The IP address of S0/0/0 is invalid, given the subnet mask being used.
5	Wh	Access list entries should filter in the order from general to specific.  One access list per port per protocol per direction is permitted.  Standard ACLs should be applied closest to the source while extended ACLs should be applied closed destination.  There is an implicit deny at the end of all access lists.  Statements are processed sequentially from top to bottom until a match is found.
		The <b>inbound</b> keyword refers to traffic entering the network from the router interface where the ACl applied.

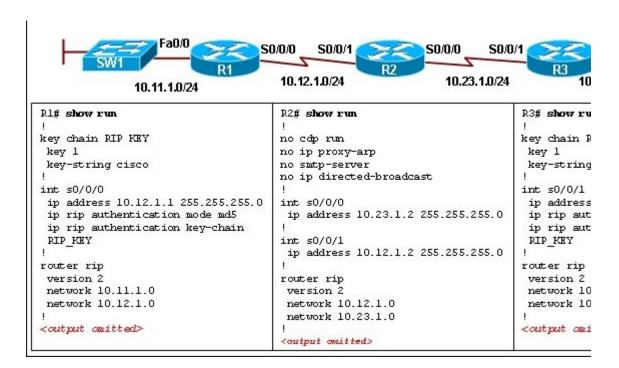


Refer to the exhibit. Which statement correctly describes how Router1 processes an FTP request enterin interface s0/0/0, destined for an FTP server at IP address 192.168.1.5?

- It matches the incoming packet to the access-list 201 permit any any statement and allows the packet router.
- It reaches the end of ACL 101 without matching a condition and drops the packet because there is n access-list 101 permit any any statement.
- It matches the incoming packet to the access-list 101 permit ip any 192.168.1.0 0.0.0.255 statemer ignores the remaining statements in ACL 101, and allows the packet into the router.
- It matches the incoming packet to the access-list 201 deny icmp 192.168.1.0 0.0.0.255 any statemer continues comparing the packet to the remaining statements in ACL 201 to ensure that no subseque statements allow FTP, and then drops the packet.

7A network administrator is instructing a technician on best practices for applying ACLs. Which suggestion should the administrator provide?

- Named ACLs are less efficient than numbered ACLs.
- Standard ACLs should be applied closest to the core layer.
- ACLs applied to outbound interfaces are the most efficient.
- Extended ACLs should be applied closest to the source that is specified by the ACL.



Refer to the exhibit. RIPv2 has been configured on all routers in the network. Routers R1 and R3 do not receive RIP routing updates. On the basis of the provided configuration, what should be enabled on router R2 to remedy the problem?

- proxy ARP
- CDP updates
- SNMP services
- RIP authentication
- 9 When configuring a Frame Relay connection, what is the purpose of Inverse ARP?
  - to assign a DLCI to a remote peer
  - to disable peer requests from determining local Layer 3 addresses
  - to negotiate LMI encapsulations between local and remote Frame Relay peers
  - to create a mapping of DLCI to Layer 3 addresses that belong to remote peers
- 10 What effect would the Router1(config-ext-nacl)# permit tcp 172.16.4.0 0.0.0.255 any eq www comma when implemented inbound on the f0/0 interface?
  - All TCP traffic is permitted, and all other traffic is denied.
  - The command is rejected by the router because it is incomplete.
  - All traffic from 172.16.4.0/24 is permitted anywhere on any port.
  - Traffic originating from 172.16.4.0/24 is permitted to all TCP port 80 destinations.

```
Serial0/0/0 is up, line protocol is down
Hardware is HD64570
Internet address is 10.1.1.1/24
MTU 1500 bytes, BW 1544 Kbit, DLY 20000 usec, rely 255/255, load 1/255
Encapsulation PPP, loopback not set, keepalive set (10 sec)
LCP Closed
Closed: LEXCP, BRIDGECP, IPCP, CCP, CDPCP, LLC2, BACP
<output omitted>
Queueing strategy: weighted fair
5 minute input rate 0 bits/sec, 0 packets/sec
5 minute output rate 0 bits/sec, 0 packets/sec
  0 packets input, 0 bytes, 0 no buffer
  Received 0 broadcasts, 0 runts, 0 giants, 0 throttles
  0 input errors, 0 CRC, 0 frame, 0 overrun, 0 ignored, 0 abort
  0 packets output, 0 bytes, 0 underruns
  0 output errors, 0 collisions, 1 interface resets
  0 output buffer failures, 0 output buffers swapped out
  0 carrier transitions
  DCD=up DSR=up DTR=up RTS=up CTS=up
```

Refer to the exhibit. This serial interface is not functioning correctly. Based on the output shown, what i most likely cause?

- improper LMI type
- interface reset
- PPP negotiation failure
- unplugged cable

12

PVC Statisti	cs for	interface S	SerialO /O	(Frame	Relay DTE)
Ac	tive	Inactive	Deleted	Stati	ic
Local	1	0	0	0	
Switched	0	0	0	0	
Unused	0	0	0	0	
DLCI = 100, Serial0	DLCIU	ISAGE = L	OCAL, P\	C STAT	rus = active, interface =
out bytes: in BECN pl in DE pkts out bcast p	218020 ts 192 12 okts 10	i00 dn outl outDE; 7 out	opped pkt FECN pkts okts 34 bcast byt	s 4 : 259 es 1972	out BECN pkts 214

Refer to the exhibit. Which two conclusions can be drawn from the output shown? (Choose two.)

This network is experiencing congestion.

The Frame Relay connection is in the process of negotiation.

Data is not flowing in this network.

#### CCNA4U.NET

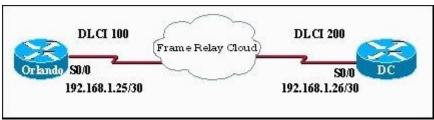
### CCNA4U.TK

The network is discarding eligible packets.
The DLCI is globally significant.
ich two statements are true about IPv6? (Choose two.)
Security options are build into IPv6.
IPv6 addresses require less router overhead to process.
IPv6 can only be configured on an interface that does not have IPv4 on it.
There is no way to translate between IPv4 addresses and IPv6 addresses.

When enabled on a router, IPv6 can automatically configure link-local IPv6 addresses on all interfa-

14

13



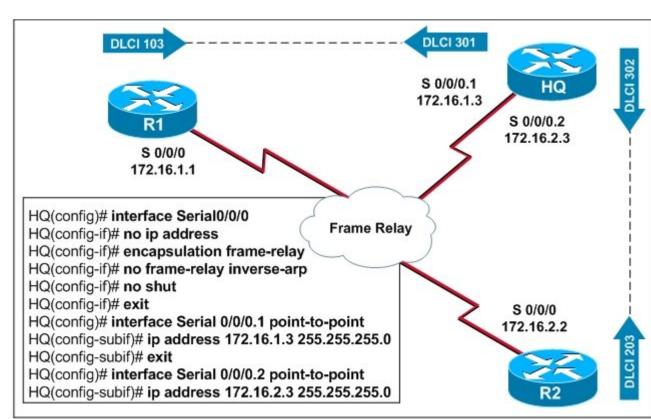
Refer to the exhibit. What is placed in the address field in the header of a frame that will travel from the office of ABC Company to the Orlando office?

- MAC address of the Orlando router
- MAC address of the DC router
- 192.168.1.25
- 192.168.1.26
- DLCI 100
- DLCI 200
- 15 What is a major characteristic of a worm?
  - malicious software that copies itself into other executable programs
  - tricks users into running the infected software
  - a set of computer instructions that lies dormant until triggered by a specific event
  - exploits vulnerabilities with the intent of propagating itself across a network
- 16 A technician is talking to a colleague at a rival company and comparing DSL transfer companies. Both companies are in the same city, use the same service provider, and I plan. What is the explanation for why Company A reports higher download speeds th
  - Company B has a higher volume of POTS voice traffic than Company A.
  - Company B shares the conection to the DSLAM with more clients than Company
  - Company A only uses microfilters on branch locations.

# CCNA4U.NET

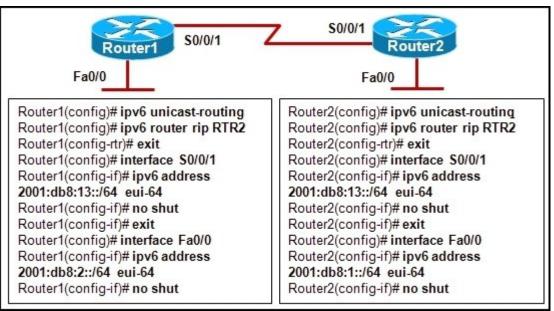
### CCNA4U.TK

	0	Company A is closer to the service provider.
17		at are the symptoms when the s0/0/0 interface on a router is attached to an operational CSU/DSU that the signal, but the far end router on the point-to-point link has not been activated?  show controllers indicates cable type DCE V.35. show interfaces s0/0/0 indicates serial down, line protocol down.  show controllers indicates cable type DCE V.35. show interfaces s0/0/0 indicates serial up, line prodown.  show controllers indicates cable type DTE V.35. show interfaces s0/0/0 indicates serial up, line prodown.
	0	down.  show controllers indicates cable type DTE V.35. show interfaces s0/0/0 indicates serial down, line protocol down.
18	assi	ystem administrator must provide Internet connectivity for ten hosts in a small remote office. The IS igned two public IP addresses to this remote office. How can the system administrator configure the rough vide Internet access to all ten users at the same time?  Configure DHCP and static NAT.  Configure dynamic NAT for ten users.  Configure static NAT for all ten users.
	0	Configure dynamic NAT with overload.
19	Wh	
		exchange information about the status of virtual circuits
		map DLCIs to network addresses
		provide flow control provide error notification
		provide error notification  provide congestion notification
		send keepalive packets to verify operation of the PVC



Refer to the exhibit. You are a network administrator who has been tasked with completing the Frame R topology that interconnects two remote sites. How should the point-to-point subinterfaces be configured to complete the topology?

- HQ(config-subif)#frame-relay interface-dlci 103 on Serial 0/0/0.1 HQ(config-subif)#frame-relay interface-dlci 203 on Serial 0/0/0.2
- O HQ(config-subif)#frame-relay interface-dlci 301 on Serial 0/0/0.1 HQ(config-subif)# frame-relay interface-dlci 302 on Serial 0/0/0.2
- O HQ(config-subif)#frame-relay map ip 172.16.1.1 103 broadcast on Serial 0/0/0.1 HQ(config-subif)#frame-relay map ip 172.16.2.2 203 broadcast on Serial 0/0/0.2
- O HQ(config-subif)#frame-relay map ip 172.16.1.1 301 broadcast on Serial 0/0/0.1 HQ(config-subif)#frame-relay map ip 172.16.2.2 302 broadcast on Serial 0/0/0.2



Refer to the exhibit. A network administrator has issued the commands that are shown on Router1 and R A later review of the routing tables reveals that neither router is learning the LAN network of the neighbrouter. What is most likely the problem with the RIPng configuration?

- The serial interfaces are in different subnets.
- The RIPng process is not enabled on interfaces.
- The RIPng network command is not configured.
- The RIPng processes do not match between Router1 and Router2.
- 22 What are two LCP options that can be configured for PPP? (Choose two.)
  - $\square$  EAP
  - $\Box$  CHAP
  - $\Box$  IPCP
  - $\Box$  CDPCP
  - □ stacker

### CCNA4U.TK

R1(config)# interface FastEthernet 0/0
R1(config-if)# ip address 10.0.1.254 255.255.255.0

R1(config-if)# exit

R1(config)# ip dhcp excluded

R1(config)# ip dhcp excluded-address 10.0.1.2 10.0.1.16

R1(config)# ip dhcp excluded-address 10.0.1.254

R1(config)# ip dhcp pool TEST

R1(dhcp-config)# network 10.0.1.0 255.255.255.0

R1(dhcp-config)# default-router 10.0.1.254

R1(dhcp-config)# dns-server 10.0.1.3

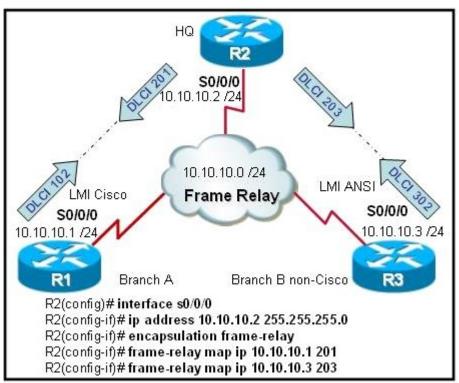
R1(dhcp-config)# domain-name netacad.net

Refer to the exhibit. How is the TCP/IP configuration information specified by the **default-router** and **configuration** server commands made available?

- The TCP/IP information is forwarded to a 10.0.1.3 to be supplied to DHCP clients.
- The TCP/IP information is used by DNS clients to forward all data to the default gateway on R1 of
- The TCP/IP information is supplied to any DHCP client on the network connected to the FastEtherr interface of R1.
- The TCP/IP information is applied to each packet that enters R1 through the FastEthernet 0/0 interfare are hosts on the 10.0.1.0 /24 network except packets from addresses 10.0.1.2, 10.0.1.16, and 10.0.1.

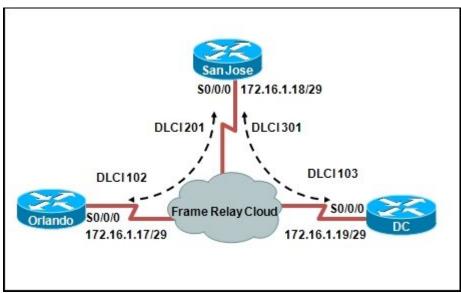
Wh	ich three statements accurately describe a security policy? (Choose three.)
	It creates a basis for legal action if necessary.
	It defines a process for managing security violations.
	It defines acceptable and unacceptable use of network resources.
	The remote access policy is a component of the security policy that governs acceptable use of e-massystems.
	It is kept private from users to prevent the possibility of circumventing security measures.
	It provides step-by-step procedures to harden routers and other network devices.

24



Refer to the exhibit. Branch A has a Cisco router. Branch B has a non-Cisco router set for IETF encapsu After the commands shown are entered, R2 and R3 fail to establish the PVC. The R2 LMI is Cisco, and LMI is ANSI. The LMI is successfully established at both locations. Why is the PVC failing?

- The PVC to R3 must be point-to-point.
- LMI types must match on each end of a PVC.
- The **ietf** parameter is missing from the **frame-relay map ip 10.10.10.3 203** command.
- The PVCs at R2 use different encapsulation types. A single port can only support one encapsulation



Refer to the exhibit. What is placed in the address field in the header of a frame that will travel from the router to the DC router?

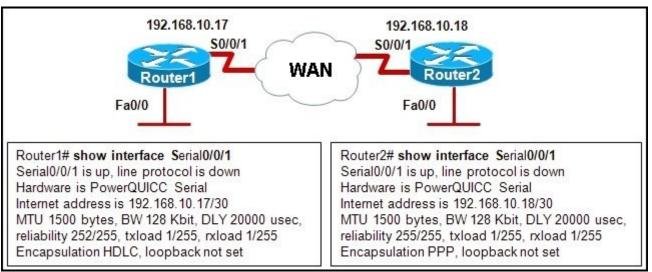
- DLCI 103
- DLCI 301
- 0 172.16.1.18
- 172.16.1.19

27

Router(config)# ip access-list extended Managers Router(config-ext-nacl)# deny tcp 192.168.1.0 0.0.0.255 any eq telnet Router(config-ext-nacl)# deny tcp 192.168.1.0 0.0.0.255 any eq www Router(config-ext-nacl)# deny tcp 192.168.1.0 0.0.0.255 any eq ftp

Refer to the exhibit. What happens if the network administrator issues the commands shown when an A called Managers already exists on the router?

- The commands overwrite the existing Managers ACL.
- The commands are added at the end of the existing Managers ACL.
- The network administrator receives an error stating that the ACL already exists.
- The commands will create a duplicate Managers ACL containing only the new commands being en



Refer to the exhibit. From the output of the show interface commands, at which OSI layer is a fault ind

- application
- transport
- network
- data link
- physical
- **29** When configuring remote access to a router, what is the significance of the **no password** command on a line?

**30** What functionality do access control lists provide when implementing dynamic NAT on a Cisco router?

- Logins are prevented on that line.
- No password is required to log in to that line.
- The remote user is not allowed to change the password for that line.
- The remote user is prompted to change the line password after connecting to the router.
- - defines which addresses can be translated
  - defines which addresses are assigned to a NAT pool
  - defines which addresses are allowed out of the router
  - defines which addresses can be accessed from the inside network

<sup>46</sup> An administrator is unable to receive e-mail. While troubleshooting the problem, the ping the local mail server IP address successfully from a remote network and can suc server name to an IP address via the use of the **nslookup** command. At what OSI laye likely to be found?

# CCNA4U.NET

# CCNA4U.TK

	$\circ$	physical layer
	$\circ$	data link layer
	$\circ$	network layer
	$\circ$	application layer
47		nat will be the result of adding the command <b>ip dhcp excluded-address 172.16.4.1 172.16.4.5</b> to the affiguration of a local router that has been configured as a DHCP server?
	0	Traffic that is destined for 172.16.4.1 and 172.16.4.5 will be dropped by the router.
	$\circ$	Traffic will not be routed from clients with addresses between 172.16.4.1 and 172.16.4.5.
	$\circ$	The DHCP server function of the router will not issue the addresses between 172.16.4.1 and 172.16
	0	The router will ignore all traffic that comes from the DHCP servers with addresses 172.16.4.1 and 172.16.4.5.
48		cause of a remote-procedure call failure, a user is unable to access an NFS server. At what layer of th del does this problem occur?
	$\circ$	network layer
	$\circ$	data link layer
	$\circ$	physical layer
	0	application layer
49	Wh	nich three guidelines would help contribute to creating a strong password policy? (Choose three.)
		Once a good password is created, do not change it.
		Deliberately misspell words when creating passwords.
		Create passwords that are at least 8 characters in length.
		Use combinations of upper case, lower case, and special characters.
		Write passwords in locations that can be easily retrieved to avoid being locked out.
		Use long words found in the dictionary to make passwords that are easy to remember.

```
<output omitted>
!
username sdm privilege 15 password 0 sdm
!
ip http server
ip http authentication local
ip http secure-server
ip http timeout-policy idle 600 life 86400 requests 10000
!
<output omitted>
!
line con 0
line aux 0
line vty 0 4
privilege level 15
login local
transport input none
```

Refer to the exhibit. A network administrator is trying to configure a router to use SDM but it is not function correctly. What could be the problem?

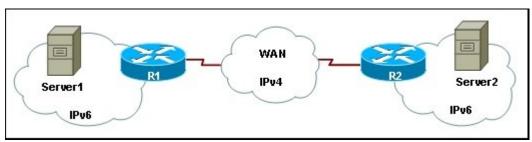
- The username and password are not configured correctly.
- The authentication method is not configured correctly.
- The HTTP timeout policy is not configured correctly.
- The vtys are not configured correctly.

51

```
coutput omitted>
ip dhcp pool 172N etwork
network 172.16.1.128 255.255.255.128
default-router 172.16.1.1
dns-server 172.16.1.2
!
interface FastEthernet0/0
ip address 172.16.1.1 255.255.255.128
duplex auto
speed auto
!
```

Refer to the exhibit. A host that is connected to Fa0/0 is unable to acquire an IP address dynamically fro DHCP server. The output of the **debug ip dhcp server** command shows "DHCPD: there is no address p 172.16.1.1". What is the problem?

- The default router for the 172Network pool is incorrect.
- The 172.16.1.1 address is already configured on Fa0/0.
- The pool of addresses for the 172Network pool is incorrect.
- The **ip helper-address** command should be implemented on the Fa0/0 interface.



Refer to the exhibit. Company ABC expanded its business and recently opened a new branch office in a country. IPv6 addresses have been used for the company network. The data servers Server1 and Server2 applications which require end-to-end functionality, with unmodified packets that are forwarded from the to the destination. The edge routers R1 and R2 support dual stack configuration. What solution should be deployed at the edge of the company network in order to successfully interconnect both offices?

- a new WAN service supporting only IPv6
- NAT overload to map inside IPv6 addresses to outside IPv4 address
- a manually configured IPv6 tunnel between the edge routers R1 and R2
- static NAT to map inside IPv6 addresses of the servers to an outside IPv4 address and dynamic NA' rest of the inside IPv6 addresses