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QUESTION 1

Refer to exhibit.

```
Router#show running-config
Building configuration...

Current configuration : 659 bytes
!
version 12.4
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
!
hostname Router
!
enable secret 5 $1$mERr$hx5rvt7rPN0S4wqbXKX7m0
!

interface FastEthernet0/0
 ip address 192.168.1.1 255.255.255.0
 ip access-group 101 in
 duplex auto
 speed auto
!
access-list 101 deny tcp any any eq 22
access-list 101 permit ip any any
!
line con 0
 password 7 0822455D0A16
 login
line vty 0 4
 login
line vty 5 14
 login
!
end
```

A network administrator cannot establish a Telnet session with the indicated router. What is the cause of this failure?

- A. A Level 5 password is not set.
- B. An ACL is blocking Telnet access.
- C. The vty password is missing.
- D. The console password is missing.

Correct Answer: C

The login keyword has been set, but not password. This will result in the "password required, but none set" message to users trying to telnet to this router.



QUESTION 2

Which feature can you use to monitor traffic on a switch by replicating it to another port or ports on the same switch?

- A. copy run start
- B. traceroute
- C. the ICMP Echo IP SLA
- D. SPAN

Correct Answer: D

Explanation: A source port, also called a monitored port, is a switched or routed port that you monitor for network traffic analysis. In a single local SPAN session or RSPAN source session, you can monitor source port traffic, such as received

(Rx), transmitted (Tx), or bidirectional (both). The switch supports any number of source ports (up to the maximum number of available ports on the switch) and any number of source VLANs.

A source port has these characteristics:

It can be any port type, such as EtherChannel, Fast Ethernet, Gigabit Ethernet, and so forth.

It can be monitored in multiple SPAN sessions.

It cannot be a destination port.

Each source port can be configured with a direction (ingress, egress, or both) to monitor. For EtherChannel sources, the monitored direction applies to all physical ports in the group.

Source ports can be in the same or different VLANs. For VLAN SPAN sources, all active ports in the source VLAN are included as source ports.

QUESTION 3

Which statement describes the process of dynamically assigning IP addresses by the DHCP server?

- A. Addresses are allocated after a negotiation between the server and the host to determine the length of the agreement.
- B. Addresses are permanently assigned so that the hosts uses the same address at all times.
- C. Addresses are assigned for a fixed period of time, at the end of the period, a new request for an address must be made.
- D. Addresses are leased to hosts, which periodically contact the DHCP server to renew the lease.

Correct Answer: D

The DHCP lifecycle consists of the following:

Allocation: A client begins with no active lease, and hence, no DHCP-assigned address. It acquires a lease through a process of allocation. Reallocation: If a client already has an address from an existing lease, then when it reboots or



starts

up after being shut down, it will contact the DHCP server that granted it the lease to confirm the lease and acquire operating parameters. This is sometimes called reallocation; it is similar to the full allocation process but shorter. Normal

Operation: Once a lease is active, the client functions normally, using its assigned IP address and other parameters during the "main part" of the lease. The client is said to be bound to the lease and the address. Renewal: After a certain

portion of the lease time has expired, the client will attempt to contact the server that initially granted the lease, to renew the lease so it can keep using its IP address.

Rebinding. If renewal with the original leasing server fails (because, for example, the server has been taken offline), then the client will try to rebind to any active DHCP server, trying to extend its current lease with any server that will allow it to

do so.

Release: The client may decide at any time that it no longer wishes to use the IP address it was assigned, and may terminate the lease, releasing the IP address.

QUESTION 4

What is the first step in the NAT configuration process?

- A. Define inside and outside interfaces.
- B. Define public and private IP addresses.
- C. Define IP address pools.
- D. Define global and local interfaces.

Correct Answer: A

QUESTION 5

Refer to the exhibit.



```
R1
interface Loopback0
  ip address 172.16.1.1 255.255.255.255

interface FastEthernet0/0
  ip address 192.168.12.1 255.255.255.0

interface FastEthernet0/1
  ip address 192.168.10.1 255.255.255.0

router ospf 1
  router-id 172.16.1.1
  network 172.16.1.1 0.0.0.0 area 0
  network 192.168.10.0.0.0.255 area 0
```

You have discovered that computers on the 192.168.10.0/24 network can ping their default gateway, but they cannot connect to any resources on a remote network. Which reason for the problem is most likely true?

- A. The 192.168.12.0/24 network is missing from OSPF
- B. The OSPF process ID is incorrect
- C. The OSPF area number is incorrect.
- D. An ARP table entry is missing for 192.168.10.0.
- E. A VLAN number is incorrect for 192.168.10.0.

Correct Answer: A

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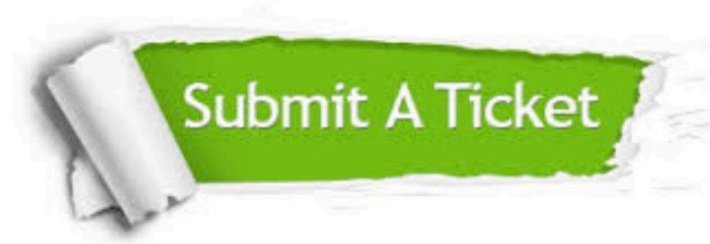
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