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QUESTION 1

Which command can be used from a PC to verify the connectivity between hosts that connect through a switch in the same LAN?

A. ping address

B. tracert address

C. traceroute address

D. arp address

Correct Answer: A

ICMP pings are used to verify connectivity between two IP hosts. Traceroute is used to verify the router hop path traffic will take but in this case since the hosts are in the same LAN there will be no router hops involved.

QUESTION 2

Which two types of NAT addresses are used in a Cisco NAT device? (Choose two.)

A. inside local

B. inside global

C. inside private

D. outside private

E. external global

F. external local

Correct Answer: AB

QUESTION 3

What are three benefits of implementing VLANs? (Choose three.)

A. A higher level of network security can be reached by separating sensitive data traffic from other network traffic.

B. A more efficient use of bandwidth can be achieved allowing many physical groups to use the same network infrastructure.

C. A more efficient use of bandwidth can be achieved allowing many logical networks to use the same network infrastructure.

D. Broadcast storms can be mitigated by increasing the number of broadcast domains, thus reducing their size.

E. Broadcast storms can be mitigated by decreasing the number of broadcast domains, thus increasing their size.

F. VLANs make it easier for IT staff to configure new logical groups, because the VLANs all belong to the same broadcast domain.

G. Port-based VLANs increase switch-port use efficiency, thanks to 802.1Q trunks.

Correct Answer: ACD

Benefits of VLANs VLAN is a network structure which allows users to communicate while in different locations by sharing one multicast domain and a single broadcast. They provide numerous networking benefits and have become popular in the market. For instance, it helps reduce administrative costs when users are geographically dispersed.

1.

 Inexpensive

The popularity of VLANs is due to the fact that changes, adds, and moves can be attained simply by making necessary configurations on the VLAN port. Time-consuming, re- addressing, and host reconfigurations is now a thing of the past,

because network configuration can be made at ease when need arises.

2.

 Better management

A VLAN typically solve the scalability issues that exist in a large network by breaking the main domain into several VLAN groups or smaller broadcast configurations, thereby encourage better control of multicast traffic as well as broadcast

domains.

3.

 Improves network security

High-security can be positioned in different VLAN groups to ensure that non-members cannot receive their broadcasts. On the other hand, a router is added and workgroups relocated into centralized locations.

4.

 Enhances performance

A more efficient use of bandwidth can be achieved allowing many logical networks to use the same network infrastructure.

5.

 Segment multiple networks

VLANs are typically used to achieve multiple purposes. They are popularly used to reduce broadcast traffic. Each VLAN creates a separate, smaller broadcast domain.

6.

 Better administration

VLANs facilitate grouping of multiple geographical stations. When VLAN users move to another physical location, the network does not have to be configured.

QUESTION 4

The following have already been configured on the router:

The basic router configuration

The appropriate interfaces have been configured for NAT inside and NAT outside.

The appropriate static routes have also been configured (since the company will be a stub network, no routing protocol will be required)

All passwords have been temporarily set to "cisco".

The task is to complete the NAT configuration using all IP addresses assigned by the ISP to provide Internet access for the hosts in the Weaver LAN. Functionality can be tested by clicking on the host provided for testing.
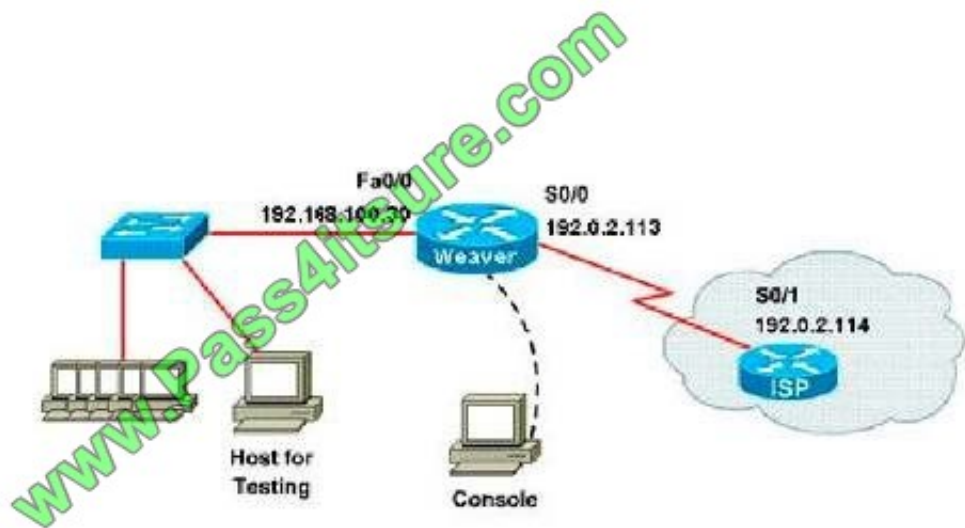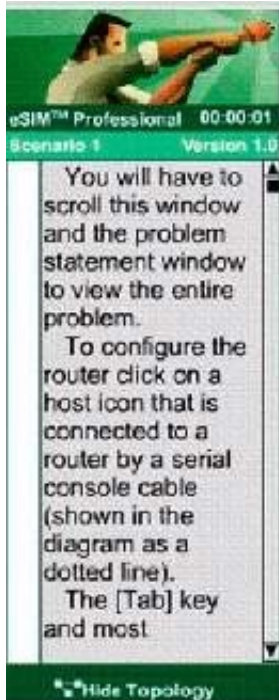
Configuration information:

router name – Weaver

inside global addresses – 198.18.184.105 - 198.18.184.110/29

inside local addresses - 192.168.100.17 – 192.168.100.30/28

number of inside hosts – 14

A network associate is configuring a router for the weaver company to provide internet access. The ISP has provided the company six public IP addresses of 198.18.184.105 198.18.184.110. The company has 14 hosts that need to access the internet simultaneously. The hosts in the company LAN have been assigned private space addresses in the range of 192.168.100.17 – 192.168.100.30.

Correct Answer:

The company has 14 hosts that need to access the internet simultaneously but we just have 6 public IP addresses from 198.18.184.105 to 198.18.184.110/29.

Therefore we have to use NAT overload (or PAT)

Double click on the Weaver router to open it

Router>enable

Router#configure terminal

First you should change the router\\'s name to Weaver

Router(config)#hostname Weaver

Create a NAT pool of global addresses to be allocated with their netmask.

Weaver(config)#ip nat pool mypool 198.18.184.105 198.18.184.110 netmask 255.255.255.248

Create a standard access control list that permits the addresses that are to be translated.

Weaver(config)#access-list 1 permit 192.168.100.16 0.0.0.15

Establish dynamic source translation, specifying the access list that was defined in the prior step.

Weaver(config)#ip nat inside source list 1 pool mypool overload

This command translates all source addresses that pass access list 1, which means a source address from 192.168.100.17 to 192.168.100.30, into an address from the pool named mypool (the pool contains addresses from 198.18.184.105

to 198.18.184.110).

Overload keyword allows to map multiple IP addresses to a single registered IP address (many-to-one) by using different ports.

The question said that appropriate interfaces have been configured for NAT inside and NAT outside statements.

This is how to configure the NAT inside and NAT outside, just for your understanding:

Weaver(config)#interface fa0/0

Weaver(config-if)#ip nat inside

Weaver(config-if)#exit

Weaver(config)#interface s0/0

Weaver(config-if)#ip nat

outsideWeaver(config-if)#end

Finally, we should save all your work with the following command:

Weaver#copy running-config startup-config

Check your configuration by going to "Host for testing" and type:

C :\>ping 192.0.2.114

The ping should work well and you will be replied from 192.0.2.114

QUESTION 5

Which two statements about Ethernet standards are true? (Choose two)

A. Ethernet is defined by IEEE standard 802.2.

B. Ethernet is defined by IEEE standard 802.3.

C. Ethernet 10BASE-T does not support full-duplex.

D. When an Ethernet network uses CSMA/CD, it terminates transmission as soon as a collision occurs.

E. When an Ethernet network uses CSMA/CA. it terminates transmission as soon as a collision occurs.

Correct Answer: BD

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