10/16/2019

TestOut LabSim Exam Report: 7.3.6 Practice Questions Candidate: Garsteck, Matthew Date: 10/16/2019 1:25:42 am Time Spent: 6:43 Login: mGarsteck **Overall Performance** Your Score: 80% Passing Score: 80% View results by: Objective Analysis Individual Responses **Individual Responses ▼** Question 1: Correct Which of the following techniques allows incoming traffic addressed to a specific port to move through a NAT router and be forwarded to a specific host?) EIGRP Spanning tree protocol Port address translation Port forwarding **Explanation** Port forwarding is a type of static NAT implementation where a specific port is mapped to a private IP address. Incoming traffic that is addressed to a specific port is then forwarded to the specified host. Port address translation (PAT) is used to keep track of which request goes to which host on the internal network. EIGRP is a routing protocol used to exchange information about known routes with other routers. The spanning tree protocol is used to eliminate switching loops within a network. References LabSim for Network Pro. Section 7.3. [netpro18v5 all questions en.exm *NP15 NETWORK ADDRESS TRANSLATION 01] ▼ Question 2: Correct Your computer has an IP address of 161.13.5.15. Your computer is on a: Private network Multi-cast network

Explanation

Most IP addresses are public IP addresses. However, certain ranges have been reserved for private networks. These are:

• 10.0.0.0 - 10.255.255.255

Public network

Class C network

- 172.16.0.0 172.31.255.255
- 192.168.0.0 192.168.255.255

10/16/2019 TestOut LabSim

Because your computer's IP address does not fall into these ranges, it is a public IP address.

References

LabSim for Network Pro, Section 7.3.

[netpro18v5_all_questions_en.exm NP05_2-8 #23]

▼ Question 3:

Incorrect

Which of the following IP addresses is a valid IP address for a host on a public network?

172.16.254.12

192.168.16.45

10.3.125.2

142.15.6.1

Explanation

A public network is a network that does not limit traffic to members of a corporation or other group. The internet is an example of a public network. Certain sets of IP addresses are reserved for private networks only and cannot be used on public networks. They are:

- 10.0.0.0 to 10.255.255.255
- 172.16.0.0 to 172.31.255.255
- 192.168.0.0 to 192.168.255.255

References

LabSim for Network Pro, Section 7.3. [netpro18v5_all_questions_en.exm NP05_2-8 #15]

▼ Question 4: Correct

Which of the following is not one of the ranges of IP addresses defined in RFC 1918 that are commonly used behind a NAT server?

172.16.0.1 - 172.31.255.254

169.254.0.1 - 169.254.255.254

192.168.0.1 - 192.168.255.254

10.0.0.1 - 10.255.255.254

Explanation

169.254.0.1 - 169.254.255.254 is the range of IP addresses assigned to Windows DHCP clients if a DHCP server does not assign the client an IP address. This range is known as the Automatic Private IP Addressing (APIPA) range.

The other three ranges listed in this question are defined as the private IP addresses from RFC 1918, which are commonly used behind a NAT server.

References

LabSim for Network Pro, Section 7.3. [netpro18v5 all questions en.exm NP05 2-8 #7]

▼ Question 5: Correct

Which of the following associates a port number with a host on a private network?

CIDR

VLSM

→ PAT

10/16/2019 TestOut LabSim

○ NAT

Explanation

Port address translation (PAT) associates a port number with the translated address. Use PAT to allow multiple private hosts to share a single public address. Each private host is associated with a unique port number.

Technically speaking, NAT translates one address to another. With only NAT, you would have to have a public address for each private host. NAT would associate a single public address with a single private address. Because virtually all NAT routers perform port address translation, most routers that are configured with NAT are really performing PAT. When you use a NAT router, you normally use PAT, not just NAT. (NAT is typically used synonymously with PAT.)

Classless inter-domain routing (CIDR) allows non-default subnet masks (variable-length subnet masks, or VLSMs).

References

LabSim for Network Pro, Section 7.3. [netpro18v5_all_questions_en.exm NP09_1-4 #13]

▼ Question 6: Correct

You have a small network at home that is connected to the internet. On your home network, you have a server with the IP address of 192.168.55.199/16. You have a single public address that is shared by all hosts on your private network.

You want to configure the server as a web server and allow internet hosts to contact the server to browse a personal website.

What should you use to allow access?

()	Γ,	, n n r	~:~	NAT
()	11	na.	111(IVAI

DNS	CNAME	record
	DNS	DNS CNAME

_	Sta	⊢io.	NIA	т
	 717	116	INA	١ı

ONS A record

Multicast

Explanation

Static NAT maps an internal IP address to a static port assignment. Static NAT is typically used to take a server on the private network (such as a web server) and make it available on the internet. External hosts contact the internal server using the public IP address and the static port. Using a static mapping allows external hosts to contact internal hosts.

Dynamic NAT automatically maps internal IP addresses with a dynamic port assignment. On the NAT device, the internal device is identified by the public IP address and the dynamic port number. Dynamic NAT allows internal (private) hosts to contact external (public) hosts, but not vice versa. External hosts cannot initiate communications with internal hosts.

DNS records associate a host name with an IP address. Multicast can forward a single data stream to all computers that are members of the same multicast group.

References

LabSim for Network Pro, Section 7.3. [netpro18v5_all_questions_en.exm NP09_1-4 #8]

▼ Question 7: Incorrect

You are the network administrator for a small company that implements NAT to access the internet. You recently acquired five servers that must be accessible from outside your network. Your ISP has provided you with five additional registered IP addresses to support these new servers, but you don't want the public to access these servers directly. You want to place these

10/16/

/2019	TestOut LabSim
•	ewall on the inside network, yet still allow them to be accessible to the translation should you implement for these five servers?
Restricted	
→ ○ Static	
Overloading	
Dynamic	
Explanation	
address on a one-to-on	stently maps an unregistered IP address to the same registered IP are basis. Static NAT is particularly useful when a device needs to be ress so it can be accessed from outside the network, such as web ar devices.
address to any available addresses. Accessing a	ould not work for these servers because it maps an unregistered host IP e IP address configured in a pool of one or more registered IP server assigned one of these addresses would be nearly impossible are still shared by multiple hosts.
References	
LabSim for Network Pro [netpro18v5_all_questi	o, Section 7.3. ons_en.exm SSCP-3 NEW [408]]
Question 8:	Correct
single IP address that is	our small company network to the internet. Your ISP provides you with a s to be shared between all hosts on your private network. You do not want le to initiate connections to internal hosts. What type of network address d you implement?
Static	
Restricted	
Shared	
Dynamic	
Explanation	
-	are public addresses with multiple private hosts. Dynamic NAT allows the internet, but does not allow internet hosts to initiate contact with
References	
LabSim for Network Pro [netpro18v5_all_questi	o, Section 7.3. ons_en.exm SSCP-3 NEW [416]]
Question 9:	Correct
private addressing sche	hat is connected to the internet through a NAT router. You want to use a eme for your computer. Which of the following IP addresses could you? (Select all that apply.)
→ 172.18.188.67	,
32.188.99.10	

127.0.0.1

→ √ 192.168.12.253

10/16/2019 TestOut LabSim

	240.12.188.1
→	10.0.12.15
	224.15.166.12

Explanation

Of the addresses listed here, the following are in the private IP address ranges:

- 10.0.12.15 (private range = 10.0.0.0 to 10.255.255.255)
- 172.18.188.67 (private range = 172.16.0.0 to 172.31.255.255)
- 192.168.12.253 (private range = 192.168.0.0 to 192.168.255.255)

References

LabSim for Network Pro, Section 7.3. [netpro18v5_all_questions_en.exm NP05_2-8 #39]

▼ Question 10: Correct

You have a small network at home that is connected to the internet. On your home network, you have a server with the IP address of 192.168.55.199/16. All computers on your home network can connect to the internet.

From your work office, you try to access your home computer using its IP address, but are unable to communicate with the server. You are able to connect to other hosts on the internet.

Why can't you access the server?

Private addresses are not accessible through the internet.
The server isn't using the default subnet mask.
 The server has been assigned a multicast address.
The server must have an entry on a DNS server that exists on the internet.

Explanation

The server has been assigned a private IP address. Private addresses are not accessible from the internet. Instead, a NAT router translates the private address into a public address, and the public address is used to gain access to the private host.

References

LabSim for Network Pro, Section 7.3. [netpro18v5 all questions en.exm NP09 1-4 #7]