

 Congratulations! You passed!

TO PASS 80% or higher

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Networking Services

LATEST SUBMISSION GRADE

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1. Question

1 / 1 point

A technique that's used to route traffic to different destinations, depending on factors like location, congestion, or link health, is known as ____.

☐ unicast

☒ anycast

☐ multicast

☐ broadcast

Correct

You got it! Anycast lets you route traffic depending on many factors.
2. Question

1 / 1 point

A concept that involves iterating over a list of items one by one in an orderly fashion is known as ____.

☒ round robin

☐ recursion

☐ authoritative lookup

☐ multiplexing

Correct

Nice job! Round robin ensures a fairly equal distribution across its members.
3. Question

1 / 1 point

Administration and definition of TLDs are handled by a non-profit organization known as ____.

☒ ICANN

☐ FQDN

☐ DHCP

☐ CNAME

Correct

Wowoo! ICANN is responsible for maintaining the global domain name system.
4. Question

1 / 1 point

The final step of the DHCP Discovery process is known as ____.

☒ DHCPACK

☐ DHCPPOFFER

☐ DHCPDISCOVER

☐ DHCPREQUEST

Correct

That's right! A DHCPACK is the final step in the DHCP Discovery process.
5. Question

1 / 1 point

When NAT hides the source IP of an originating device, this is known as ____.

☐ port forwarding

☐ routing

☐ switching

☒ IP masquerading

Correct

Correct! IP masquerading means that the destination will never know the actual IP of the source.
6. Question

1 / 1 point

At the very lowest level, what data does a computer understand?

☐ IP (Internet Protocol) addresses

☐ Media Access Control (MAC) addresses

☒ Binary numbers

☐ Hexadecimal digits

Correct

Right on! Binary numbers are zeros and ones. Fortunately, computers present data in a much friendlier way.
7. Question

1 / 1 point

A video conferencing application isn't working due to a Domain Name System (DNS) port error. Which record requires modification to fix the issue?

☒ Service record (SRV)

☐ Canonical name (CNAME)

☐ Host (A)

☐ Text (TXT)

Correct

Great work! A service record is used to set parameters, like the protocol and ports used for a service with a domain name.
8. Question

1 / 1 point

Which of the following allows computers on a network to automatically receive address assignment information?

☒ Dynamic Host Protocol (DHCP)

☐ Domain Name System (DNS)

☐ Time to Live (TTL)

☐ Primary gateway

Correct

Right on! DHCP is used to automatically assign IP addresses to devices on a network.
9. Question

1 / 1 point

Network Address Translation (NAT) is typically implemented with which hardware devices? Check all that apply.

☐ Hubs

☐ Switches

☒ Routers

Correct

You got it! A router is used on a network for a number of reasons, including NAT.

Correct

Great work! A firewall provides network protection. Most firewalls can provide NAT services.

Correct

Great, you got all the right answers.

10. Question

1 / 1 point

Which technology uses a tunneling protocol?

☐ Network Address Translation (NAT)

☐ Dynamic Host Configuration Protocol (DHCP)

☐ Domain Name System (DNS)

☒ Virtual Private Network (VPN)

Correct

You got it! A VPN uses a tunnel to maintain private and secure communications.

11. Question

1 / 1 point

What port on a name server is used for User Datagram Protocol (UDP) name request packets?

☐ 25

☐ 22

☐ 80

☒ 53

Correct

Woohoo! DNS uses port 53 over UDP for name resolution communications.

12. Question

1 / 1 point

A company with a large number of hosts creates three subdomains under a main domain. For easier management of the host records, how many zones should be used?

☐ 3

☒ 4

☐ 2

☐ 1

Correct

You nailed it! Four (4) zones would include the parent and the three (3) subdomains.

13. Question

1 / 1 point

What term defines keeping the address of one computer secret from another?

☐ Rewriting

☐ Translation

☒ Masquerading

☐ Preservation

Correct

Right on! Masquerading is when NAT is used to hide the IP of a computer from another.

14. Question

1 / 1 point

An internal system behind a firewall needs to be configured for remote access. How should Network Address Translation be configured?

☐ Rewriting

☐ Preservation

☐ One-to-many NAT

☒ Port forwarding

Correct

Nice job! Forwarding external traffic to the system by using port forwarding maintains internal address secrecy.

15. Question

1 / 1 point

What service acts on behalf of a client in order to access another service?

☒ Proxy Server

☐ Virtual Private Network (VPN) Tunnel

☐ Domain Name System (DNS)

☐ Dynamic Host Configuration Protocol (DHCP)

Correct

Nice job! Proxies sit between clients and other servers to facilitate connections.

16. Question

1 / 1 point

When a client computer sends a request to a Domain Name System (DNS) server, what type of packet is sent?

☐ TCP

☒ SYN

☐ SYN/ACK

☐ ACK

Correct

Awesome! The requesting client initiates a query with a DNS server by sending a Synchronize (SYN) packet as a first step in the three-way handshake.