

1. A Cyclical Redundancy Check (CRC) is an example of what type of built-in protocol mechanism?

1 / 1 point

☐ Time To Live (TTL) expiration

☐ Error recovery

☐ Misconfiguration error

☒ Error detection

☒ Correct

2. A support technician uses the ping utility on a system that is online, yet no response is received. What should be allowed through a firewall, for ping to operate correctly?

1 / 1 point

☐ Echo request

☐ Echo reply

☐ TTL

☒ ICMP

☒ Correct

3. Which two tools function similar to traceroute? (Choose all that apply)

1 / 1 point

☐ netcat

☐ Nslookup

☒ Mtr

☒ Correct

☒ pathping

☒ Correct

4. When using the netcat command to test a network port, which option will provide output that is not useful for scripting, but is useful for the human eye?

1 / 1 point

☐ -Port

☐ -z

☒ -v

☐ No option is required

☒ Correct

5. While in an interactive nslookup session, you'd use the \_\_\_\_\_ keyword to change the DNS server you're using.

0 / 1 point

☐ FQDN

☒ DNS

☐ Client

☐ Server

☒ Incorrect

Please review the video about [name resolution tools](#).

6.

When troubleshooting Domain Name System (DNS) problems, which helpful feature do public servers usually support?

1 / 1 point

☐

Virtualization services

☐

Paths between nodes

☒

ICMP echo requests

☐

Port connectivity

☒

Correct

7.

What is the name of the provision of services based around hardware virtualization?

1 / 1 point

☒

Cloud computing

☐

Network Address Translation (NAT)

☐

Subnetting☐

☒

Correct

8.

Internet Protocol (IP) v6 addresses are written out in which format?

1 / 1 point

☐

6 groups of 32 bits

☐

4 groups of 16 bits☐

☒

8 groups of 16 bits

☒

Correct

9.

When shortening an Internet Protocol (IP) v6 address, which two rules are used? Select two that apply.

1 / 1 point

☐

Replace groups of ones with semicolons.

☒

Replace groups of zeros with colons.

☒

Correct

☒

Removing all leading zeros.

☒

Correct

☐

Removing all leading ones.

10.

Which Internet Protocol (IP) v6 field is identical in purpose to the TTL field in an IPv4 header?

1 / 1 point

☐

Traffic class

☐

Next header☐

☒

Hop Limit

☒

Correct