What is one type of built-in protocol mechanism?   **0 / 1 point**

○ Time to Live (TTL) expiration

○ Error detection

● IPv6

○ Misconfiguration error

⊗ **Incorrect**
Please review the video about <u>troubleshooting and the future of</u>
<u>networking</u> for a refresher.

2. What does ICMP stand for?   **1 / 1 point**

○ Interactive Control Message Protocol

● Internet Control Message Protocol

○ Internet Client Message Protocol

○ Internet Control Mail Protocol

⊘ **Correct**

3. The Linux and macOS program traceroute is known by a slightly different name   **1 / 1 point**
on Windows. It's referred to as _____.

○ Ping

○ ipconfig

● tracert

○ Tracepath

⊘ **Correct**

4. A tech uses the netcat tool on a Linux system. Of the choices, which has proper syntax?

1 / 1 point

- ○ nc google.com
- ◉ nc google.com 80
- ○ nc -v 80
- ○ nc google.com -z

✓ **Correct**

5. You need to find the Internet Protocol (IP) address for a website. Which command do you use on a Windows system?

1 / 1 point

- ○ Netcat
- ○ Pathping
- ○ Ping
- ◉ Nslookup

✓ **Correct**

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

1 / 1 point

- ○ Virtualization services
- ○ Port connectivity
- ○ Paths between nodes
- ◉ ICMP echo requests

✓ **Correct**

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

1 / 1 point

- ○ Domain Name System (DNS) service model
- ● Cloud computing
- ○ Subnetting
- ○ Network Address Translation (NAT)

  ✓ **Correct**

8. An Internet Protocol (IP) v6 address is how many bits in size?

1 / 1 point

- ○ 64
- ○ 256
- ○ 32
- ● 128

  ✓ **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.
- ☐ Removing all leading ones.
- ☑ Replace groups of zeros with colons.

  ✓ **Correct**

- ☑ Removing all leading zeros.

  ✓ **Correct**

10. Which Internet Protocol (IP) v6 header field is used to determine the quality of service level for a datagram?

1 / 1 point

○ Next header

◉ Flow label

○ Version

○ Payload length

✓ **Correct**