 **Congratulations! You passed!**
TO PASS 80% or higher

[Keep Learning](#)

GRADE
100%

Troubleshooting and the Future of Networking

LATEST SUBMISSION GRADE
100%

1. Question 1 / 1 point

When you send an echo request message with the ping program, a successful attempt will return a(n) _____ message.

- ☐ pong
- ☒ echo reply
- ☐ blank
- ☐ error

 **Correct**
Yep! A successful echo request will return an echo reply.

2. Question 1 / 1 point

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

- ☐ tracepath
- ☐ ping
- ☐ ipconfig
- ☒ tracert

 **Correct**
You nailed it! These programs operate slightly differently and have slightly different names.

3. Question 1 / 1 point

The IPv6 loopback address is _____.


- ☐ 127.0.0.1
- ☐ 0000:0000:0000:0000:0000:0000:0000:0000
- ☒ 0000:0000:0000:0000:0000:0000:0000:0001

 **Correct**
Correct! The IPv6 loopback address is a great example of how IPv6 address compaction works.

4. Question 1 / 1 point

PaaS stands for _____.

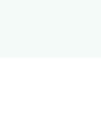
- ☒ Platform as a Service
- ☐ Packets as a Service
- ☐ Preamble as a Service
- ☐ Platform as a Schedule

 **Correct**
Great job! PaaS enables you to run applications without requiring an entire server to do so.

5. Question 1 / 1 point

The equivalent of the TTL field in an IPv4 header is known as the _____ field in an IPv6 header.


- ☒ hop limit
- ☐ traffic class
- ☐ next header
- ☐ flow label

 **Correct**
Yep! The hop limit field corresponds to the IPv4 TTL field.


6. Question 1 / 1 point

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

- ☒ Error recovery

 **Correct**
Right on! If a CRC value doesn't match, it is discarded. The transport layer will decide if the data needs to be resent.

- ☒ Error detection

 **Correct**
You got it! If a CRC value doesn't match, it is discarded. The transport layer will decide if the data needs to be resent.

- ☐ Misconfiguration error
- ☐ Time To Live (TTL) expiration

 **Correct**
Great, you got all the right answers.

7. Question 1 / 1 point

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


- ☐ pathping
- ☐ ping
- ☒ nslookup
- ☐ netcat

 **Correct**
You got it! Using the nslookup command with a domain will return a host (A) record.

8. Question 1 / 1 point

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

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

 **Correct**
Great work! Hardware virtualization is a core concept of how cloud computing technologies work.

9. Question 1 / 1 point

Which option is NOT provided with cloud storage?

- ☐ Security
- ☐ Accessibility
- ☒ Physical hardware
- ☐ Availability

 **Correct**
Right on! Cloud storage is internet based disk space. Optional local physical disk space is provided by the user.

10. Question 1 / 1 point

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

- ☒ Flow label
- ☐ Payload length
- ☐ Version
- ☐ Next header

 **Correct**
Nice job! The flow label field is used in conjunction with the traffic class field for routers, to make decisions about the quality of service level for a specific datagram.

11. Question 1 / 1 point

The first field of an Internet Control Message Protocol (ICMP) packet specifies the message type. Which choices represent message type examples? Check all that apply.

- ☒ Destination unreachable

 **Correct**
Great work! The type field specifies the message type. A code field further breaks down the message type to be more specific.

- ☐ Destination network unreachable
- ☒ Time exceeded

 **Correct**
You nailed it! The type field specifies the message type. A code field further breaks down the message type to be more specific.

- ☐ Destination port unreachable

 **Correct**
Great, you got all the right answers.

12. Question 1 / 1 point

You would like to use the nslookup command in interactive mode. How is the mode accessed?

- ☐ By providing a port number with the command.
- ☐ By providing a domain name with the command.
- ☒ By providing the command with no options.
- ☐ By providing the command with the interactive option.

 **Correct**
You nailed it! When using the nslookup command with no options, the command provides a prompt to enter additional information in what is called an interactive mode.

13. Question 1 / 1 point

A web developer requires an environment to perform application testing. Which cloud service type does the developer choose to use?

- ☒ Platform as a Service
- ☐ Infrastructure as a Service
- ☐ Software as a Service
- ☐ Virtualization service

 **Correct**
You got it! With a platform as a service environment, software applications can be developed, run, and tested without the concern for the underlying technologies.

14. Question 1 / 1 point

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

- ☒ 8 groups of 16 bits
- ☐ 4 groups of 16 bits
- ☐ 8 groups of 12 bits
- ☐ 6 groups of 32 bits

 **Correct**
Awesome! IPv6 addresses are usually written out as 8 groups of 16 bits each. Each of these groups is further made up of 4 hexadecimal digits.

15. Question 1 / 1 point


When the ping command is used, output is similar across operating systems. Which two values are displayed as part of the output? Check all that apply.

- ☐ Gateway address
- ☒ Round-trip time

 **Correct**
Well done! Every line of output will generally display how long it took for the round-trip communications.

- ☐ Port number
- ☒ Message byte size

 **Correct**
You got it! Every line of output will generally display how large the message is in bytes.

 **Correct**
Great, you got all the right answers.

16. Question 1 / 1 point

What size is an Internet Protocol (IP) v6 payload field?

- ☐ 8-bit
- ☐ 32-bit
- ☒ 16-bit
- ☐ 20-bit

 **Correct**
Awesome! The payload length field is a 16-bit field that defines how long the data payload section of the datagram is.