

# Chapter 8 Quiz

**Due** No due date      **Points** 30      **Questions** 15      **Time Limit** None  
**Allowed Attempts** Unlimited

## Instructions

This quiz covers the content in **IT Essentials 6.0 Chapter 8**. It is designed to provide an additional opportunity to practice the skills and knowledge presented in the chapter and to prepare for the Chapter Exam. You will be allowed multiple attempts and the grade does not appear in the gradebook.

There are multiple task types that may be available in this quiz. Rather than having static graphics to view, **some items may require you to open a PT activity** and perform some investigation and configuration of devices before answering the question.

**NOTE:** There are some small differences in how the questions score and operate in the Quiz and how they score and operate in the Chapter Exam. Quizzes allow for partial credit scoring on all item types to foster learning. **Points on quizzes can also be deducted for answering incorrectly. This does not occur with the Chapter Exam.**

Form 30797

Take the Quiz Again

## Attempt History

	Attempt	Time	Score
KEPT	<a href="#">Attempt 2</a>	7 minutes	30 out of 30
LATEST	<a href="#">Attempt 2</a>	7 minutes	30 out of 30
	<a href="#">Attempt 1</a>	8 minutes	12 out of 30

Submitted Apr 13 at 9:51am

### Question 1

2 / 2 pts

A technician wishes to update the NIC driver for a computer. What is the best location for finding new drivers for the NIC?

**Correct!**

- ☐ the installation media that came with the NIC
- ☐ the website for Microsoft
- ☐ the installation media for Windows
- ☐ Windows Update
- ☒ the website for the manufacturer of the NIC

Refer to curriculum topic: 8.1.1

**Question 2****2 / 2 pts**

Which network service automatically assigns IP addresses to devices on the network?

**Correct!**

- ☐ traceroute
- ☒ DHCP
- ☐ Telnet
- ☐ DNS

Refer to curriculum topic: 8.3.2

Dynamic Host Configuration Protocol (DHCP) can be used to allow end devices to automatically configure IP information, such as their IP address, subnet mask, DNS server, and default gateway. The DNS service is used to provide domain name resolution, mapping hostnames to IP addresses. Telnet is a method for remotely accessing a CLI session of a switch or router. **Traceroute** is a command used to determine the path a packet takes as it traverses the network.

### Question 3

2 / 2 pts

Fill in the blank.

The process that a wireless router uses to translate a private IP address on internal traffic to a routable address for the Internet is called

Answer 1:

NAT

network address translation

Correct!

Correct Answer

Refer to curriculum topic: 8.1.2

Wireless routers use Network Address Translation to translate internal or private addresses into Internet-routable or public addresses.

### Question 4

2 / 2 pts

Which operation should a network technician perform as a part of regular preventive maintenance procedures on the network?

**Correct!**

- ☐ Ensure antivirus definitions are updated to the latest version on servers.
- ☐ Verify the bandwidth of the WAN connection to the ISP.
- ☐ Review the access log of the server farm facility.
- ☒ Check the network cable connections in the wiring closet.

Refer to curriculum topic: 8.4.1

Network preventive maintenance procedures include checking the condition of cables, network devices, servers, and computers to make sure that they are kept clean and are in good working order.

**Question 5****2 / 2 pts**

A technician is troubleshooting a computer that has lost connectivity to the network. After data is gathered from the customer, which two tasks should the technician complete next? (Choose two.)

**Correct!**

- ☒ Check that the NIC link light is lit.
- ☐ Try to log in as a different user.
- ☐ Verify that the computer has the most up to date version of the OS.

**Correct!**

- ☒ Verify that the computer has a valid IP address.
- ☐ Repair the network cable.

Refer to curriculum topic: 8.5.2

In troubleshooting, once data is gathered from the user, the technician must identify the problem.

**Question 6****2 / 2 pts**

Which security technology is used to passively monitor network traffic with the objective of detecting a possible attack?

- ☐ firewall
- ☐ proxy server
- ☒ IDS
- ☐ IPS

**Correct!**

Refer to curriculum topic: 8.3.2

An IDS system is implemented to passively monitor the traffic on a network. Both an IPS and a firewall actively monitor network traffic and take immediate actions when previously defined security criteria match. A proxy server, when it functions as a firewall, also actively monitors the traffic that travels through it and takes immediate actions.

**Question 7****2 / 2 pts**

Which command is used to manually query a DNS server to resolve a specific host name?

- ☐ net
- ☒ nslookup
- ☐ ipconfig /displaydns
- ☐ tracert

**Correct!**

Refer to curriculum topic: 8.1.2

The **nslookup** command was created to allow a user to manually query a DNS server to resolve a given host name. The **ipconfig /displaydns** command only displays previously resolved DNS entries. The **tracert** command was created to examine the path that packets take as they cross a network and can resolve a hostname by automatically querying a DNS server. The **net** command is used to manage network computers, servers, printers, and network drives.

### Question 8

2 / 2 pts

A technician needs to check the system settings on a remote computer to make sure it will be compatible with a new software update that will be sent out. The technician will use an administrator account to log in and start a user session on the remote PC. Which Windows tool will the technician use to accomplish this?

- ☐ Windows VPN remote access client
- ☐ Windows file sharing services
- ☐ Windows Update Assistant
- ☒ Windows Remote Desktop

Correct!

Refer to curriculum topic: 8.1.4

Windows Remote Desktop allows a technician to log in to a remote computer through an existing user account. The technician can run programs and view and manipulate files within the system of the remote computer.

**Question 9****2 / 2 pts**

What is the difference between a data center and cloud computing?



Data centers require cloud computing but cloud computing does not require data centers.

**Correct!**

Cloud computing provides access to shared computing resources, while a data center is a facility that stores and processes data.



There is no difference. These terms can be used interchangeably.



The data center makes use of more devices to process data.



Of the two, only cloud computing is located off-site.

Refer to curriculum topic: 8.3.1

Cloud service providers use one or more data centers for services and resources such as data storage. A data center is a data storage facility located inside the company and maintained by the IT staff or leased from a co-location provider where the maintenance can be done by the provider or the corporate IT staff.

**Question 10****2 / 2 pts**

Users in a recently installed wireless network are complaining of slow data transfer and frequent loss of connectivity. The technician checks that the wireless security is correctly implemented, and there is no evidence of unauthorized users on the network. Which two problems might the technician suspect? (Choose two.)

**Correct!**☒ There is interference from outside sources.☐ The DHCP server is faulty.☐ The antenna on the access point is too powerful.**Correct!**☒ The wireless signal is too weak.☐ The network passwords need to be reissued to the users.

Refer to curriculum topic: 8.5.2

Normally, the closer a wireless NIC is to an access point, the faster the connectivity. This problem does not require the network password to be reissued. The combination of the low bandwidth and the intermittent connectivity is pointing towards a weak signal or interference from outside sources.

**Question 11****2 / 2 pts**

Fill in the blank.

technology uses different frequencies to transmit multiple signals simultaneously over the same cable.

**Answer 1:**

broadband

**Correct!****Correct Answer**

broad band



Refer to curriculum topic: 8.2.1

Broadband technology uses different frequencies, divided into different channels, to allow simultaneous transmission of multiple different signals on the same cable. DSL, cable, and satellite are examples of broadband network connections.

## Question 12

2 / 2 pts

Which cloud computing opportunity would provide the use of network hardware such as routers and switches for a particular company?

- ☐ software as a service (SaaS)
- ☐ browser as a service (BaaS)
- ☒ infrastructure as a service (IaaS)
- ☐ wireless as a service (WaaS)

Correct!

Refer to curriculum topic: 8.3.1

This item is based on information contained in the presentation.

Routers, switches, and firewalls are infrastructure devices that can be provided in the cloud.

## Question 13

2 / 2 pts

A technician has just installed a new NIC in a laptop. When the cable is plugged in, the technician notices that the LEDs on the NIC are green and one LED is flashing. What does this usually signify?

**Correct!**

The NIC is functioning and the cable is operating at the maximum data rate.



The NIC is functioning and there is network activity.



The NIC is doing a POST function to detect possible errors.



The NIC is connected to the wrong port on the wireless router.



The NIC is attempting to establish a VPN connection but the configuration of the NIC is missing security settings.

Refer to curriculum topic: 8.1.1

If the LEDs are unlit, it could mean that either the NIC, the switch port, or the cable is faulty. It might also indicate an issue with the NIC configuration. Green or amber lights typically mean that the NIC is functioning correctly. A flashing green or amber light often indicates network activity.

**Question 14****2 / 2 pts**

Which technology requires customers to be within a particular range of the service provider facility in order to be provided the maximum bandwidth for Internet access?



ISDN



cable



satellite



DSL

**Correct!**

Refer to curriculum topic: 8.2.1

Look in the curriculum graphics. The closer to the CO the connection is located, the higher the possible DSL speed.

### Question 15

2 / 2 pts

Which special character must be included at the end of a folder name to identify a folder as an administrative share?

☐ \*

☐ !

☒ \$

☐ #

Correct!

Refer to curriculum topic: 8.1.3

The dollar sign (\$) at the end of a folder name will identify that folder as an administrative share.