

UNIT 5

NETWORKING

Objectives: at the end of the lesson, students will be able to:

1. use the target vocabulary in speech;
2. read for specific information;
3. collaborate in a group work;
4. use present continuous to describe a process.

Lead-in: Conduct a survey “Find someone who...”

Name	Who traveled a lot	Who speaks multiple languages	Who has a unique or uncommon skill	Who is passionate about a hobby

Students have to mingle and network with others to find individuals who meet the criteria in each square. When they find someone who fits a specific square, they would write that person's name in the square. The goal is within 10 minutes to fill as many squares as possible by networking and connecting with different people in the room.

Vocabulary Building

Key Terms

DHCP – (Dynamic Host Configuration Protocol) is a system for computer networks to receive IP addresses and other configuration information.

***Example:** Dynamic Host Configuration Protocol (DHCP) is a network protocol used to automate the process of configuring devices on IP networks, thus allowing them to use network services such as DNS, NTP, and any communication protocol based on UDP or TCP.*

CAT-5 cable – a standard cable that connects computers to networks

Example: A cat 5—or category 5 (5e, or 6)—is an Ethernet cable, or cabling used to support computer networks.

Router – a device that allows more than one computer to connect to a network at the same time

Example: A router is a device that connects two or more packet-switched networks or subnetworks.

Network – a group of computers that are connected in order to share data or communicate

Example: Computer networking refers to interconnected computing devices that can exchange data and share resources with each other.

Cycle – to cycle a device on a network means to turn it off and then turn it on again or to unplug it from its power source

Example: The instruction cycle is the cycle that the central processing unit (CPU) follows from boot-up until the computer has shut down.

WLAN – Wireless Local Area Network that connects computers to a network without cables

Example: A wireless local-area network (WLAN) is a group of colocated computers or other devices that form a network based on radio transmissions rather than wired connections. A Wi-Fi network is a type of WLAN; anyone connected to Wi-Fi while reading this webpage is using a WLAN.

Configuration – the configuration of a network is the group of settings that control how information is sent and received on a network

Example: A configuration is the arrangement - or the process of making the arrangement - of the parts that make up a whole.

IP address – a group of numbers that identify a computer on a network

Example: An Internet Protocol (IP) address is the unique identifying number assigned to every device connected to the internet. An IP address definition is a numeric label assigned to devices that use the internet to communicate.

LAN – Local Area Network is a computer network that interconnects computers within a limited area such as a residence, school, laboratory, university campus, or office building

Example: *A local area network (LAN) is a collection of devices connected together in one physical location, such as a building, office, or home. A LAN can be small or large, ranging from a home network with one user to an enterprise network with thousands of users and devices in an office or school.*

Activity: Fill in the blanks with the correct words or phrases from the word bank.

DHCP	CAT5-cable	router	network	cycle	WLAN	Internet	configuration
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1. Routers need a correct _____ to work properly.

2. A LAN is a type of _____.

3. The _____ lets a network connect to the internet.

4. Businesses communicate on the _____.

5. We do not use cables for our network. We have a _____.

6. Businesses with a LAN use _____ to connect computers.

7. It is sometimes necessary to _____ a network to make it work.

8. The _____ provides different IP addresses for computers.

Reading

Linko Connect

Linko Connect provides a wide variety of products and services. Are you in need of a network? Linko Connect has many different networking packages.

Get our lowest available price with the bronze package. Link multiple home or office computers together with a LAN. We use enhanced CAT-5 cables to connect your machines.

Don't like wires and cables? Don't worry! With our silver package, you'll get a WLAN. Our wireless networks transmit signals through a central router. Each router's antenna can transmit a signal from blocks away.

Finally, our gold package includes our best high-speed broadband. You'll surf the Internet at 50 Mbps!

All packages come with separate or built-in modems.

Activity: Read the webpage. Then, mark the following statements as True (T) or False (F).

1. ___ The bronze package includes a wireless network.
2. ___ The silver package connects computers through a router.
3. ___ The gold package is the least expensive option.

Grammar Focus: Present Continuous in Active and Passive Voice

The present continuous tense is used to talk about actions that are happening now or around the current time. In the active voice, the subject performs the action. For example, "I am eating lunch" - "I" is the subject and is performing the action of eating.

S + am/is/are + V +ing

In the passive voice, the subject receives the action. The passive voice is formed by using a form of "to be" (am, is, are) followed by the past participle of the main verb. For example, "The lunch is being eaten by me" - "The lunch" is the subject and is receiving the action of being eaten.

S + am/is/are +being + V+ing

In the active voice:

Active: "The programmer is writing the code."

Explanation: This sentence describes the action of the programmer writing the code.

In the passive voice:

Passive: "The code is being written by the programmer."

Explanation: In this sentence, the code is receiving the action of being written by the programmer.

Activity 1: Write these sentences in passive voice.

The IT team is updating the software. The programmer is writing code for the new feature. The software developer is testing the application for bugs. The programmer is debugging the software. The team is developing a new mobile application.

Activity 2: Make up the sentences in the Present Continuous in passive voice and give your work to your peer to rewrite those sentences in active voice.

Home assignment

Answer the questions in written form

1. If you feel there is a lack of security for data, which is because of?
2. If you think that the network is not performing well, what is the reason for the poor performance of the network according to your view?
3. What suggestions will you give to improve the performance of the network, if you are one of the network design engineers?