

# **INTRODUCTION TO SERVER**

Module in Computer Systems Servicing  
(Grade 12)  
1<sup>st</sup> Quarter



**PAUL FRANCIS L. QUINES**  
Developer

Department of Education . Cordillera Administrative Region

Republic of the Philippines  
**DEPARTMENT OF EDUCATION**  
Cordillera Administrative Region  
**SCHOOLS DIVISION OF TABUK CITY**  
Dagupan Centro, Tabuk City

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## PREFACE

This module is a project of the Curriculum Implementation Division particularly the Learning Resource Management and Development Unit, Department of Education, Schools Division of Tabuk City which is in response to the implementation of the K to 12 Curriculum.

This Learning Material is a property of the Department of Education- CID, Schools Division of Tabuk City. It aims to improve students' performance specifically in English.

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### **DIVISION LRMDs STAFF:**

**TEOFILA P. AGSUNOD**  
Librarian II

**LORIET L. IYADAN**  
Project Development Officer II

**HELEN B. ORAP**  
EPS-LRMDs

### **CONSULTANTS:**

**RAMONCHITO A. SORIANO**  
Chief, Curriculum Implementation Division

**VIRGINIA A. BATAN**  
Officer In-charge  
Office of the Assistant Schools Division Superintendent

**IRENE S. ANGWAY, PhD, CESO VI**  
Officer In-charge  
Office of the Schools Division Superintendent

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## Welcome to the world of Computer Systems Servicing

This module contains training materials and activities for you to complete Introduction to Server. This module helps you achieve the required Third Core competency in Computer Systems Servicing. This will be the source of information for you to acquire knowledge and skills in this particular trade, with minimum supervision or help from your teacher. With the aid of this material you will acquire the competency independently and at your own pace.

This module contains activities for you to complete. It covers the knowledge, skills and attitudes required to complete the competency

You are required to go through a series of learning activities in order to complete each of the learning outcomes of this module. In each learning outcome, Learning Elements and Reference materials are available for your further reading to assist you in the required activities. You are expected to accomplish all the required activities and to answer all the activities given. Please note that you need to have 100% correct answers to each activity to be rated competent. You are required to obtain answer sheets, which are available from your teacher or at the last part of the module, to reflect your answers for each activity. If you have questions, please do not hesitate to ask your teacher for assistance.

You are expected to finish the following:

- LO 1. Elaborate the concept of server computing
- LO 2. Determine the typical types of server
- LO 3. Explain the difference between server computer vs. workstation (client)



## What I Know

Choose the LETTER of the BEST answer. Write your answer on the BLANK provided before each number. If you got a perfect score, skip this module. If you got 50%-99%, proceed with this module.

- \_\_\_\_\_ 1. Which statement about “Server” is TRUE?
- A. Server is a physical software that provide services to all client computers connected to it.
  - B. Server is a physical hardware that provide services to all client computers connected to it.
  - C. Server is a physical computer that provide services to all client computers connected to it.
  - D. Server is a physical computer that provide internet to single computers connected to it.
- \_\_\_\_\_ 2. The internet is based on web servers that respond to requests from clients such as web browsers. Which type of server is being describe?
- A. Application Server
  - B. Communication Server
  - C. Web Server
  - D. Name Servers
- \_\_\_\_\_ 3. What do you call to a server that look up addresses such as mapping a domain name to an IP.
- A. Application Server
  - B. Communication Server
  - C. Web Server
  - D. Name Servers
- \_\_\_\_\_ 4. It is a type of server that provides clients with network connectivity and other communications such as voice.
- A. Application Server
  - B. Communication Server
  - C. Web Server
  - D. Name Servers
- \_\_\_\_\_ 5. It is a type of server that implements functionality for other software by offering an API.
- A. File Server
  - B. API
  - C. Directory Service
  - D. Game Server
- \_\_\_\_\_ 6. What type of server that implements games or services for a game such as social elements of gameplay.
- A. File Server
  - B. API
  - C. Directory Service
  - D. Game Server
- \_\_\_\_\_ 7. It is a server that look up resources on a network such as users, groups and devices.
- A. File Server
  - B. API
  - C. Directory Service
  - D. Game Server

- \_\_\_\_\_ 8. Complete the statement, “File server provides access to \_\_\_\_\_ . “
- A. Internet  
B. Hardware  
C. Software  
D. Files
- \_\_\_\_\_ 9. Server are designed and manufactured for operation in how much long period of time?
- A. Once a week operation  
B. 24 x 5 operation  
C. Twice a week operation  
D. 24 x 7 operation
- \_\_\_\_\_ 10. It is a personal computer that is used for high end applications such as graphics design, video editing, CAD, 3-D Design, or other CPU and RAM intensive programs.
- A. Server  
B. Workstation  
C. Computer  
D. PC



## **What I Need to Know**

### Lesson 1 Intro to Server Computing

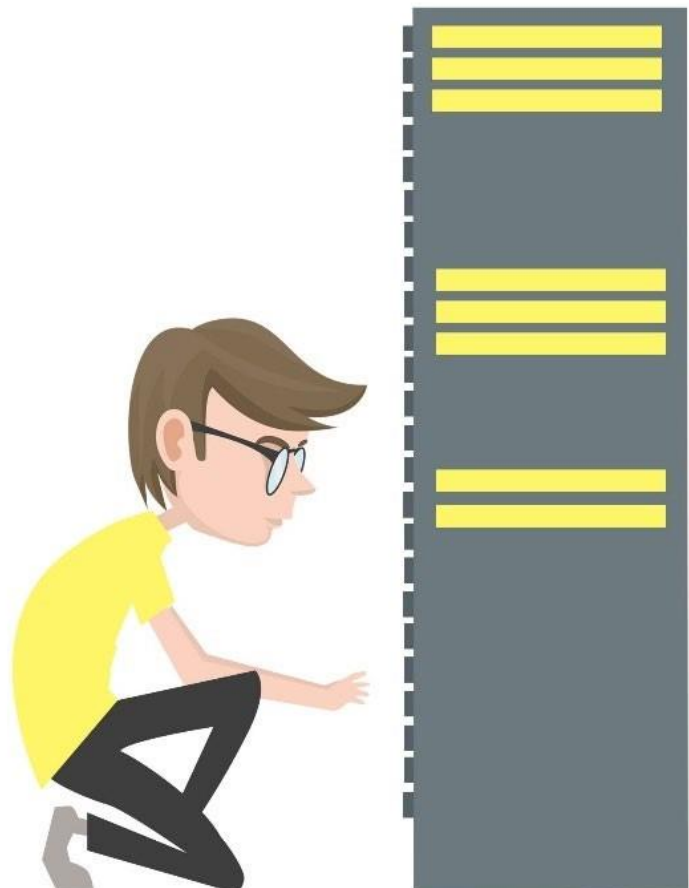
#### Server

It is a physical computer that provide services to all client computers connected to it, allowing them (client computer) to access available information or resources.

An entity in the client/server programming model, where the server is a software or a program, running on one or multiple

computers, that manages resources and services of the network, while handling requests from different computers to access said resources.

In short, server is a software or hardware that gives services to other hardware and software entity.







## What's Is It

### MATCHING TYPE

**Directions:** This is the time for you to do hand exercise. Match the meaning and functions in Column A with the terms in Column B by connecting them with a line. Write only the letter of your answer. After finishing the module check you answer using the answers key, if your score is below 10 you go back until you will perfect your score.

COLUMN A	COLUMN B
The internet is based on web servers that respond to requests from clients such as web browsers.	<b>API</b>
Servers that provide clients with network connectivity and other communications such as voice. For example, a telecommunications device that provides 3G or WiFi to phones and other clients.	<b>Name Servers</b>
Servers that look up addresses such as mapping a domain name to an IP. This is basic infrastructure for networks such as the internet.	<b>File Server</b>
Servers that look up resources on a network such as users, groups and devices. Acts as infrastructure that is essential to network security such as authenticating users.	<b>Web Servers</b>
A server that implements functionality for other software by offering an API.	<b>Proxy Server</b>
Provides access to files.	<b>System Services</b>
Servers that implement games or services for a game such as social elements of gameplay.	<b>Directory Service</b>
A server that provides services to applications such as a mobile app. For example, a weather app on your phone might contact to a server for weather data.	<b>Database Server</b>
Acts as an intermediary between clients and servers to implement functions such as security, monitoring or anonymization.	<b>Game Server</b>
A system is software that performs automation, calculations and other functions that aren't directly used by people. They are often implemented with a service that run on servers such as microservices.	<b>Application Server</b>
Delivers media such as streaming video or audio.	<b>Media Server</b>
Provides access to a database.	<b>Communications Server</b>



## What's In

Arrange the following Jumbled letters to come up the Typical Type of Server.

JUMBLD LETTERS	CORRECT ANSWER
1. BEW VERRES	_____
2. PAPIACTONI RVEERS	_____
3. OMCUNICMTAON VSEERR	_____
4. IREDTROY VEERRS	_____
5. MAEN SEERV	_____
6. I P A	_____
7. ILFE EERVRS	_____
8. AMEG REEVRS	_____
9. OXPXR REEVS	_____
10. AIEDM SEEVRR	_____



## What's It

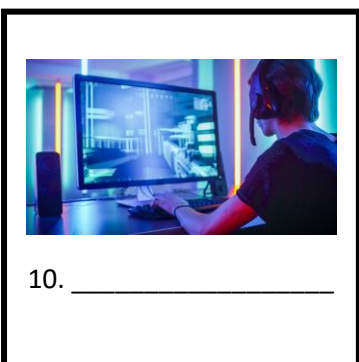
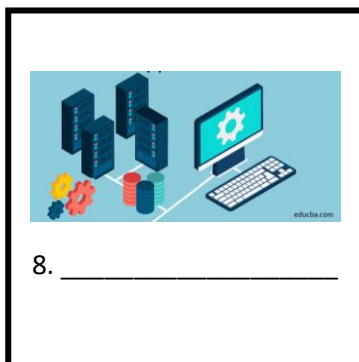
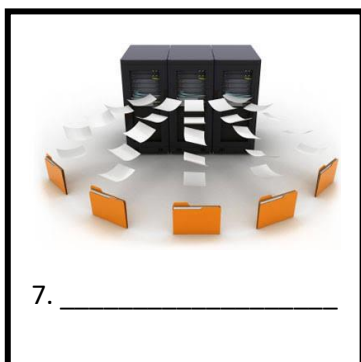
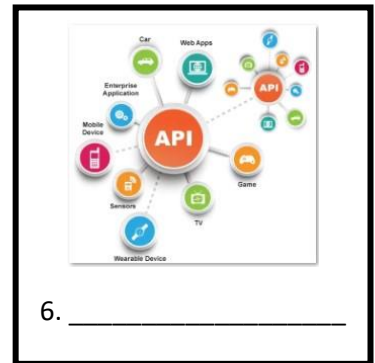
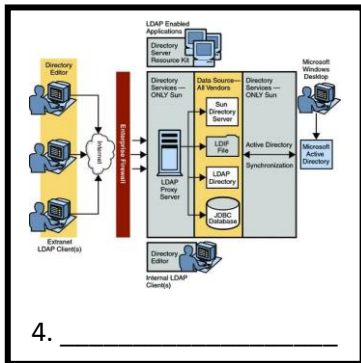
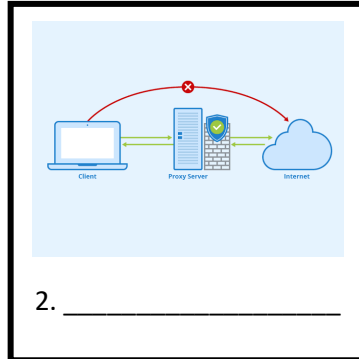
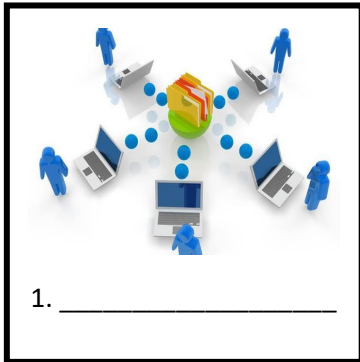
### TYPICAL TYPES OF SERVER

- **Web Servers**  
The internet is based on web servers that respond to requests from clients such as web browsers.
- **Application Server**  
A server that provides services to applications such as a mobile app. For example, a weather app on your phone might contact to a server for weather data.
- **Communications Server**  
Servers that provide clients with network connectivity and other communications such as voice. For example, a telecommunications device that provides 3G or WiFi to phones and other clients.
- **Name Servers**  
Servers that look up addresses such as mapping a domain name to an IP. This is basic infrastructure for networks such as the internet.
- **Directory Service**  
Servers that look up resources on a network such as users, groups and devices. Acts as infrastructure that is essential to network security such as authenticating users.
- **API**  
A server that implements functionality for other software by offering an API.
- **Database Server**  
Provides access to a database.
- **File Server**  
Provides access to files.
- **Game Server**  
Servers that implement games or services for a game such as social elements of gameplay.
- **Media Server**  
Delivers media such as streaming video or audio.
- **Proxy Server**  
Acts as an intermediary between clients and servers to implement functions such as security, monitoring or anonymization.
- **System Services**  
A system is software that performs automation, calculations and other functions that aren't directly used by people. They are often implemented with a service that run on servers such as microservices.



## What's More

Identify the following pictures that best describes the Types of Server. Write the type of server below the pictures.



## ACTIVITY I

**Multiple Choice.** Read and analyze each statement and encircle the letter of your choice.



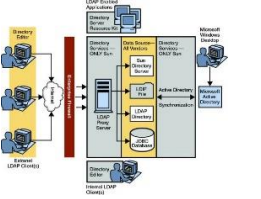
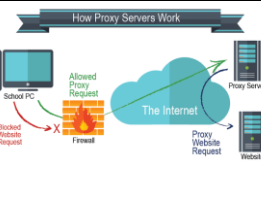
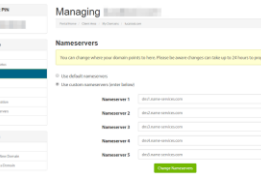
1. Server that provides clients with network connectivity and other communications such as voice. For example, a telecommunications device that provides 3G or WiFi to phones and other clients.
  - a. Communications server
  - b. Name Server
  - c. Proxy server
  - d. Media server
2. Delivers media such as streaming video or audio.
  - a. Communications server
  - b. Name Server
  - c. Proxy server
  - d. Media server
3. A server that implements functionality for other software by offering an API.
  - a. Proxy server
  - b. File server
  - c. API server
  - d. Media Server
4. Servers that provide clients with network connectivity and other communications such as voice.
  - a. Proxy server
  - b. File server
  - c. API server
  - d. Communication Server
5. Servers that implement games or services for a game such as social elements of gameplay.
  - a. Proxy server
  - b. Game server
  - c. API server
  - d. Communication Server
6. Acts as an intermediary between clients and servers to implement functions such as security, monitoring or anonymization.
  - a. Proxy server
  - b. System server
  - c. Communication Server
  - d. Directory Services
7. server that provides services to applications such as a mobile app. For example, a weather app on your phone might contact to a server for weather data.
  - a. Proxy server
  - b. Application server
  - c. Communication Server
  - d. Directory Services
8. A server that provides access to files.
  - a. File server
  - b. Application server
  - c. Communication Server
  - d. Directory Services
9. is a popular Linux distribution OS developed by Red Hat and targets toward the commercial computer market.
  - a. Ubuntu OS

- b. CentOS
  - c. Windows Server
  - d. Red Hat Enterprise Linux
10. It is a server operating system developed by Microsoft
- a. Windows Server
  - b. CentOS
  - c. Windows Server
  - d. Red Hat Enterprise Linux



## What's In It

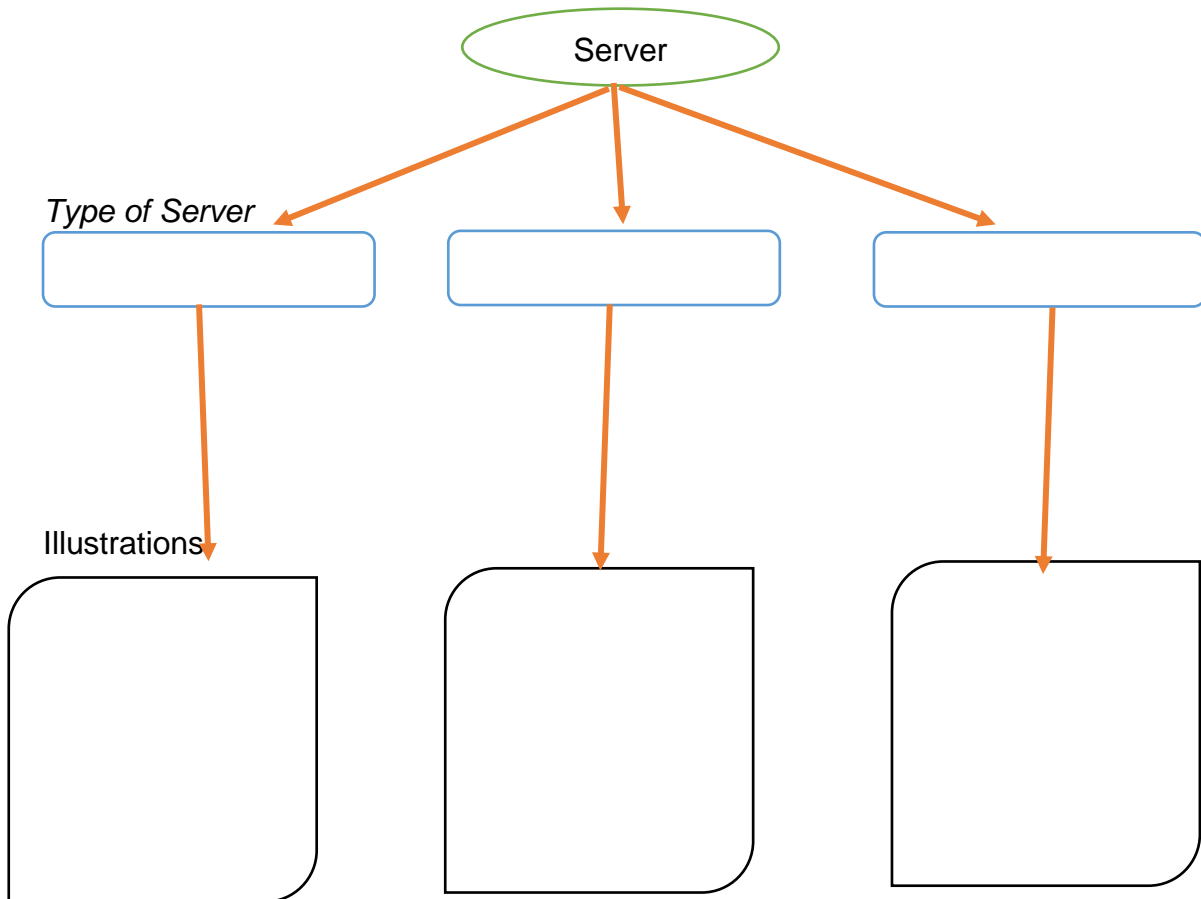
Study the photos below and identify what type of server is being describe and write a brief meaning of it. Use the box below.

ILLUSTRATIONS	TYPE OF SERVER	Definition
<p>1.</p> 		
<p>2.</p> 		
<p>3.</p> 		
<p>4.</p> 		
<p>5.</p> 		



## What's New

Fill in the concept map below by giving at least three types of server. Give one sample of illustration that describe each of the server.





## What I Have Learned

Find 10 types of server in the box by encircling the word. Define these words on your own below. In the end, identify the 10<sup>th</sup> device and define as well.

F	G	G	H	D	I	J	P	V	M	D	E	W	C	A	S	A	S
E	R	A	J	O	C	P	O	R	D	F	G	A	A	A	D	F	B
N	M	U	M	F	B	O	D	T	O	R	V	F	S	D	V	Y	F
U	B	N	M	E	F	F	M	T	R	X	I	N	I	M	S	D	F
Q	A	Y	W	F	F	S	N	M	E	B	Y	U	R	L	V	S	D
I	Y	P	Y	W	Q	E	O	B	U	Y	O	E	M	B	E	B	T
M	P	A	P	B	I	B	W	Z	R	N	B	M	F	O	Y	S	E
O	K	P	E	L	B	H	M	O	J	R	I	Q	Y	W	I	P	Q
G	I	G	C	O	I	I	T	J	E	Q	B	C	F	P	R	M	G
J	N	K	Z	N	K	C	K	S	J	E	F	R	A	V	E	W	J
M	J	A	K	P	E	W	A	Y	Z	Q	O	Y	E	T	A	K	G
O	Z	B	I	R	E	K	O	T	V	A	R	Q	S	Y	I	W	Y
M	B	H	I	O	C	J	N	H	I	G	W	Y	A	G	U	O	M
J	N	D	M	A	O	B	V	D	G	O	S	G	V	P	W	H	N
A	N	A	W	B	I	M	E	N	P	Z	N	A	P	M	U	J	U
O	Z	B	C	A	C	M	O	M	J	Z	G	M	V	W	A	N	K

1. \_\_\_\_\_ SERVER - \_\_\_\_\_
2. \_\_\_\_\_ SERVER - \_\_\_\_\_
3. \_\_\_\_\_ SERVER - \_\_\_\_\_
4. \_\_\_\_\_ SERVER - \_\_\_\_\_
5. \_\_\_\_\_ SERVER - \_\_\_\_\_
6. \_\_\_\_\_ SERVER - \_\_\_\_\_
7. \_\_\_\_\_ SERVER - \_\_\_\_\_
8. \_\_\_\_\_ SERVER - \_\_\_\_\_
9. \_\_\_\_\_ SERVER - \_\_\_\_\_
10. \_\_\_\_\_ SERVER - \_\_\_\_\_





## What I Can Do

Create a Poster in relation to the Computer System Servicing qualification that emphasizes connection between server and client computers. Follow the guidelines given below.

Guidelines:

1. Draw 1 server and 5 client computers.
2. Create a connection on a Local Area Network type of connection of the Server and Client computers.
3. Drawings should be appropriate on what computer parts is being drawn.
4. Write at the Upper Center of the poster what type of server is being used in the connection.

Rubric:

Originality	-	10
Organization	-	5
Visual Impact	-	5
TOTAL	-	30 points



## Assessment

Choose the LETTER of the BEST answer. Write your answer on the BLANK provided before each number.

- \_\_\_\_\_ 1. Which statement about “Server” is TRUE?  
A. Server is a physical computer that provide services to all client computers connected to it.  
B. Server is a physical hardware that provide services to all client computers connected to it.  
C. Server is a physical software that provide services to all client computers connected to it.  
D. Server is a physical computer that provide internet to single computers connected to it.
- \_\_\_\_\_ 2. It is a personal computer that is used for high end applications such as graphics design, video editing, CAD, 3-D Design, or other CPU and RAM intensive programs.  
A. Server  
B. Workstation  
C. Computer  
D. PC
- \_\_\_\_\_ 3. Complete the statement, “File server provides access to \_\_\_\_\_ . “  
A. Internet  
B. Hardware  
C. Software  
D. Files

- \_\_\_\_\_ 4. It is a type of server that provides clients with network connectivity and other communications such as voice.
- A. Application Server  
B. Communication Server  
C. Web Server  
D. Name Servers
- \_\_\_\_\_ 5. The internet is based on web servers that respond to requests from clients such as web browsers. Which type of server is being describe?
- A. Application Server  
B. Communication Server  
C. Web Server  
D. Name Servers
- \_\_\_\_\_ 6. It is a type of server that implements functionality for other software by offering an API.
- A. File Server  
B. API  
C. Directory Service  
D. Game Server
- \_\_\_\_\_ 7. What do you call to a server that look up addresses such as mapping a domain name to an IP.
- A. Application Server  
B. Communication Server  
C. Web Server  
D. Name Servers
- \_\_\_\_\_ 8. What type of server that implements games or services for a game such as social elements of gameplay.
- A. File Server  
B. API  
C. Directory Service  
D. Game Server
- \_\_\_\_\_ 9. It is a server that look up resources on a network such as users, groups and devices.
- A. File Server  
B. API  
C. Directory Service  
D. Game Server
- \_\_\_\_\_ 10. Server are designed and manufactured for operation in how much long period of time?
- A. Once a week operation  
B. 24 x 5 operation  
C. Twice a week operation  
D. 24 x 7 operation



### **Additional Activities**

Choose at least two five type of server and write a reaction paper comparing and contrasting the five server. Be guided by the questions and rubric below.

Guide Questions:

1. What are the differences of the following server?
2. Which is the most common server used in networking?
3. What type of server will you recommend on users?


Rubric:

Content (comparison and contrast)	8
Organization (style of writing)	7
Mechanics (grammar)	5
TOTAL	20 points

You may use these links:


<https://www.youtube.com/watch?v=ikogcHbUNeM>

<https://www.youtube.com/watch?v=t6Hw5h6aIPo>




### What I Know

1. D
2. C
3. D
4. B
5. B
6. D
7. C
8. D
9. D
10. A

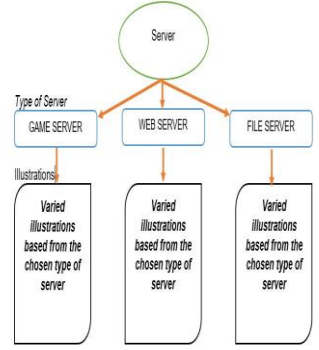



### What's More

1. FILE SERVER
2. PROXY SERVER
3. SYSTEM SERVER
4. DIRECTORY SERVER
5. WEB SERVER
6. A P I
7. FILE SERVER
8. DIRECTORY SERVER
9. MEDIA SERVER
10. GAME SERVER



### What's New





### What's Is It

COLUMN A	COLUMN B
The internet is based on web servers that respond to requests from clients such as web browsers.	API
Servers that provide clients with network connectivity and other communications such as voice. For example, a telecommunications device that provides 3G or WiFi to phones and other clients.	Name Servers
Servers that look up addresses such as mapping a domain name to an IP. This is basic infrastructure for networks such as the internet.	File Server
Servers that look up resources on a network such as users, groups and devices. Acts as infrastructure that is essential to network security such as authenticating users.	Web Servers
A server that implements functionality for other software by offering an API.	Proxy Server
Provides access to files.	System Services
Servers that implement games or services for a game such as social elements of gameplay.	Directory Service
A server that provides services to applications such as a mobile app. For example, a weather app on your phone might connect to a server for weather data.	Database Server
Acts as an intermediary between clients and servers to implement functions such as security, monitoring or anonymization.	Game Server
A system is software that perform automation, calculations and other functions that aren't directly used by people. They are often implemented with a service that run on servers such as microservices.	Application Server
Delivers media such as streaming video or audio.	Media Server
Provides access to a database.	Communications Server

### ACTIVITY I

1. A
2. D
3. C
4. D
5. B
6. A
7. B
8. A
9. D
10. A




### Assessment

1. A
2. A
3. D
4. B
5. C
6. B
7. D
8. D
9. C
10. D








### What's In

1. WEB SERVER
2. APPLICATION SERVER
3. COMMUNICATION SERVER
4. DIRECTORY SERVER
5. NAME SERVER
6. A P I
7. FILE SERVER
8. GAME SERVER
9. PROXY SERVER
10. MEDIA SERVER



### What's In It

ILLUSTRATIONS	TYPE OF SERVER	Definition
	GAME SERVER	Servers that implement games or services for a game such as social elements of gameplay.
	FILE SERVER	Provides access to files.
	DIRECTORY SERVER	Servers that look up resources on a network such as users, groups and devices. Acts as infrastructure that is essential to network security such as authenticating users.
	PROXY SERVER	Acts as an intermediary between clients and servers to implement functions such as security, monitoring or anonymization.
	NAME SERVER	Acts as an intermediary between clients and servers to implement functions such as security, monitoring or anonymization.

## REFERENCES

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<https://brainly.in/question/5033862> <https://techglamour.com/apps/alternative-apps/>

<https://techglamour.com/server-operating-system/> <https://techglamour.com/linux-distribution-versions-os/> <https://www.communitybrands.com/products/aptify/>

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