Department of Education

SPTVE

COMPUTER SYSTEMS SERVICING 10
PERFORM TESTING
Quarter 2 - Week 8 Module

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EXPECTATIONS

This is the EIGHT content under the Learning Competencies **LO3 PERFORM TESTING, DOCUMENTAION, AND PREDEPLOYMENT PROCEDURES** of the lesson **SETTING UP COMPUTER SERVERS (SUCS)**. In this topic content, you should be able to:

1. understand network connection tool;
2. appreciate the ping command; and
3. follow the steps involving ping command.

PRE-TEST

Before we start the lesson content on this module, you will need to answer the questions below in order to recognize your prior learning and competencies.

Directions: Match the steps to its coresppnding pictures. Write the answer on the space provided.
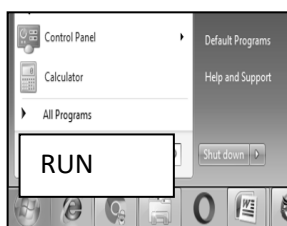
Steps in testing connections from client to server:

____ 1. Go to the search bar of the client computer
____ 2. Type Run then press enter
____ 3. Type cmd then press enter
____ 4. In the command prompt type: ping 192.168.1.1
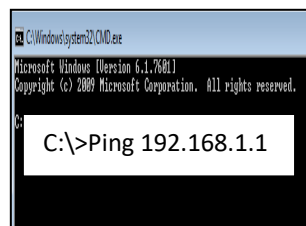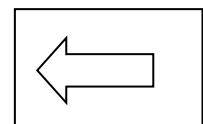____ 5. Press Enter key
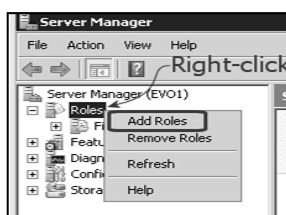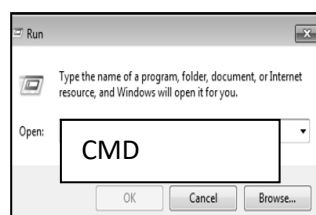
Pictures:
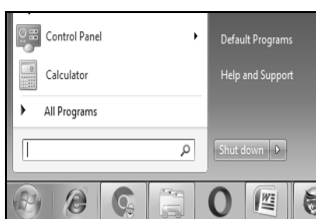
A

B

C

D

E

F

LOOKING BACK

Previously, you have been acquired knowledge, skills, and attitude gained from the preceding lesson about the printer server. Plelease answer the questions below as part of the continuing process in the attainment of further competencies.

Directions: Rearrange the following steps according to their proper order. Write a number on the space provided for to indicate the order of precedence.

A – Add Printer Server Roles:

_____ 1. From the Start, open the Server Manager.

_____ 2. Right click Roles and then click Add Roles

_____ 3. Tick Print Services from the Server Roles and then click Next.

_____ 4. Tick Print Server from the Role Services and then click Next.

_____ 5. Click Install to confirm the Printer Server.

B – Sharing A Printer:

_____ 6. On the Device and Printer, right-click the installed printer to share and choose Printer Properties

_____ 7. On the opened box click Sharing tab.

_____ 8. Choose Share this printer option to allow the printer to be shared on the network.

_____ 9. Use the default shared name of the printer In Share Name field.

_____ 10. Click OK button to share the printer.

BRIEF INTRODUCTION

Windows Server 2008 includes many tools for network troubleshooting and testing TCP/IP connectivity. Intermittently, a network cables may be unplugged or the network adapter might experience a problem that temporarily prevents it from working. Plugging the cable back will resolve a connectivity problem automatically.

The ping is a network utility tool Command Prompt command used to test the ability of the source computer to reach a specified destination computer. The ping command is usually used as a simple way to verify that a computer can communicate over the network with another computer or network device.

The ping command operates by sending Internet Control Message Protocol (ICMP) Echo Request messages to the destination computer and waiting for a response. How many of those responses are returned, and how long it takes for them to return, are the two major pieces of information that the ping command provides.

ACTIVITIES

Ping command is the most frequently used DOS command in testing a network connection through a networked device IP address.

Directions: Given the following steps on **HOW TO PING A COMPUTER,** study the picture and describe it briefly. Write the answer in the box provided below each picture.
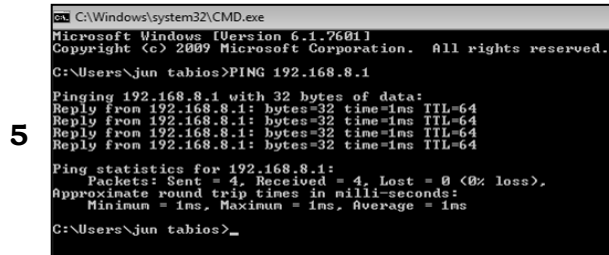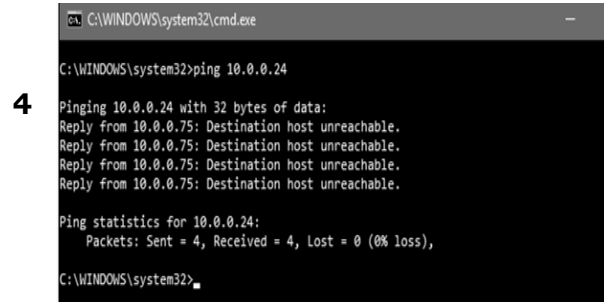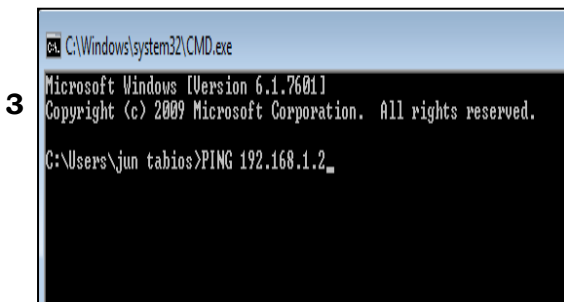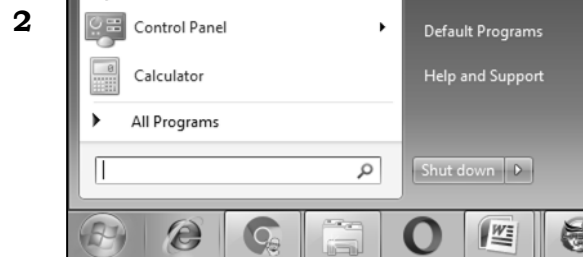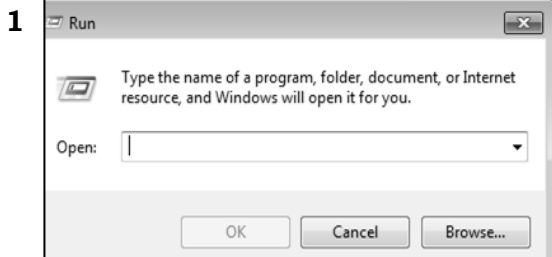
Steps:

1. Go to search bar
2. Type Run then press enter
3. Type cmd then press enter
4. In the command prompt type: ping 192.168.1.2
5. Press Enter key

Note: If the ping connection successful, an IP address of the computer will reply a message showing the bytes, time, TTL (time-to-leave), and the approximate roundtrip time.

Otherwise, "Request time out" or "Destination host unreachable" will display instead.

Pictures:

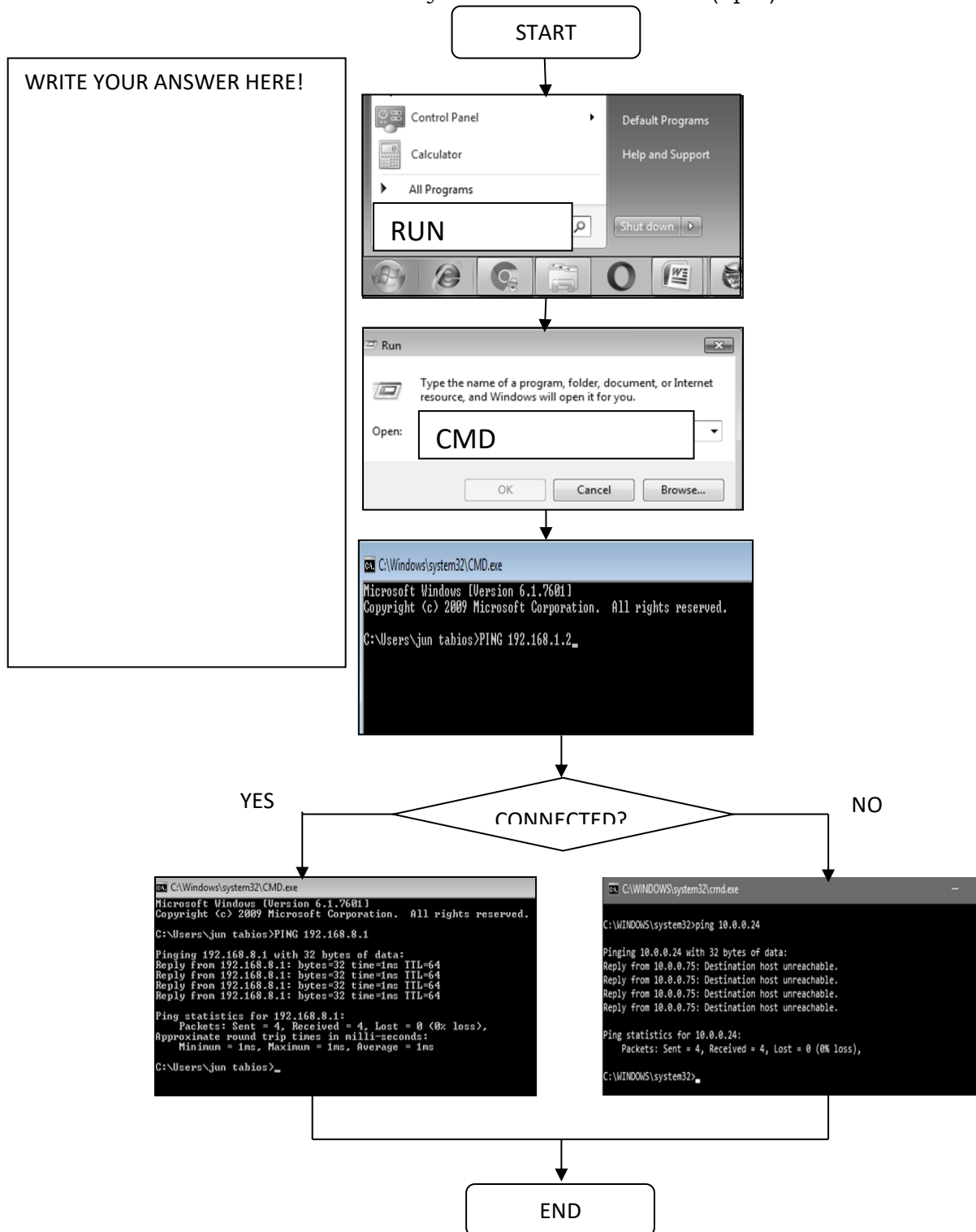**1**

2

3

4

5

REMEMBER

You have now learned the ideas from this lesson content on how to perform test a network connection by following its procedural steps.

Directions: Given the PICTUREFLOW on **How To PING A Computer,** translate it into words. Write your answer in the box. (5pts)

START

WRITE YOUR ANSWER HERE!

Control Panel ▸   Default Programs

Calculator   Help and Support

▸ All Programs

RUN   Shut down ▸

Run

Type the name of a program, folder, document, or Internet resource, and Windows will open it for you.

Open: CMD ▾

OK   Cancel   Browse...

C:\Windows\system32\CMD.exe

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\jun tabios>PING 192.168.1.2_

YES   CONNECTED?   NO

C:\Windows\system32\CMD.exe

Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation. All rights reserved.

C:\Users\jun tabios>PING 192.168.8.1

Pinging 192.168.8.1 with 32 bytes of data:
Reply from 192.168.8.1: bytes=32 time=1ms TTL=64
Reply from 192.168.8.1: bytes=32 time=1ms TTL=64
Reply from 192.168.8.1: bytes=32 time=1ms TTL=64
Reply from 192.168.8.1: bytes=32 time=1ms TTL=64

Ping statistics for 192.168.8.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 1ms, Average = 1ms

C:\Users\jun tabios>_

C:\WINDOWS\system32\cmd.exe

C:\WINDOWS\system32>ping 10.0.0.24

Pinging 10.0.0.24 with 32 bytes of data:
Reply from 10.0.0.75: Destination host unreachable.
Reply from 10.0.0.75: Destination host unreachable.
Reply from 10.0.0.75: Destination host unreachable.
Reply from 10.0.0.75: Destination host unreachable.

Ping statistics for 10.0.0.24:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
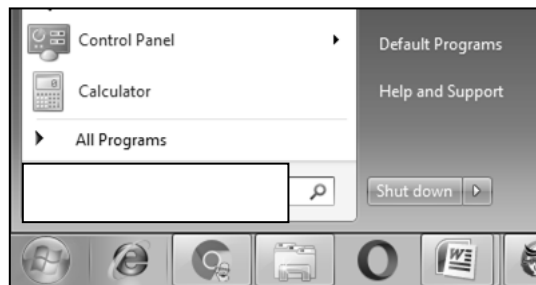
C:\WINDOWS\system32>_
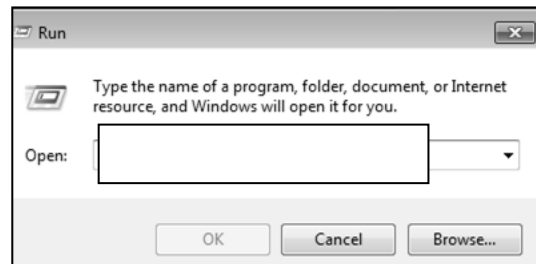

END

CHECK YOUR UNDERSTANDING

This part presents an activity that will allow you to transfer the knowledge/skills/attitude you gained or learned into real-life concerns/situations.

Directions: Given a descriptive word, study the picture below and write its corresponding command inside the box.
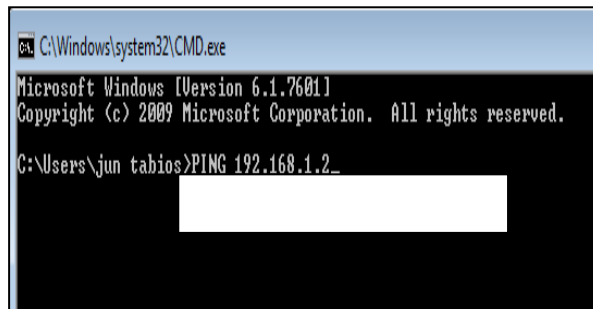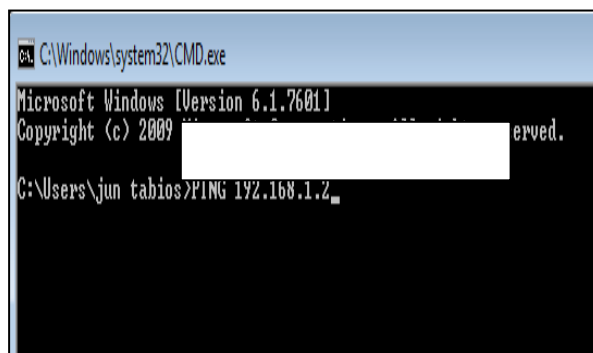
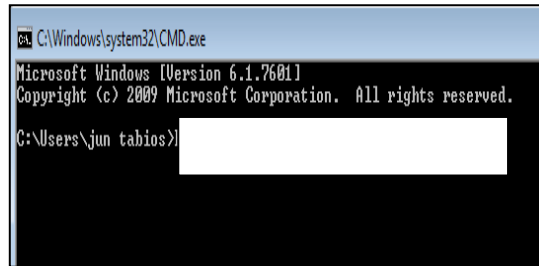1. **Open a Run window**

2. Open a **Command** window

3. Test connection to an IP address 192.168.1.1

4. Test connection to a web address GOOGGLE.COM

5. Show the IP configurations

POST TEST

Directions: **Match the steps to its corresppnding pictures.** Write the answer on the space provided.

A - Steps in testing connections from client to server:

_____ 1.   Go to the search bar of the client computer
_____ 2.   Type Run then press enter
_____ 3.   Type cmd then press enter
_____ 4.   In the command prompt type: ping 192.168.1.1
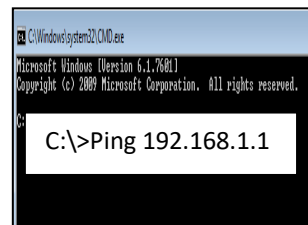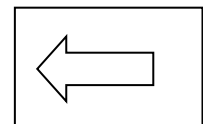_____ 5.   Press Enter key
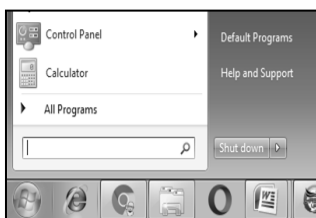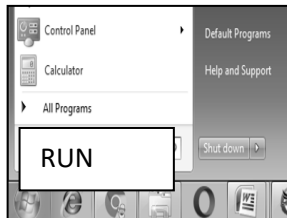
Pictures:

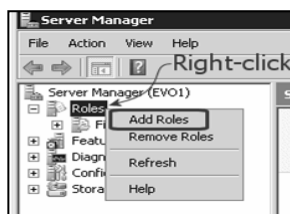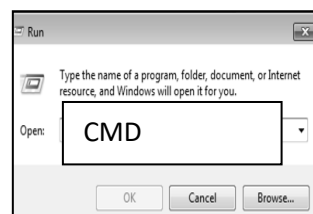A   B   C   D
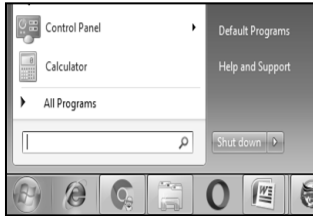

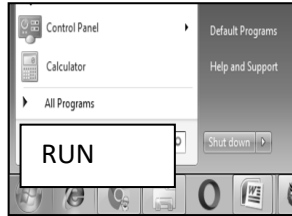
E   F

B – Steps in testing connections from server to client:

_____ 6.   Go to the search bar of the client computer
_____ 7.   Type Run then press enter
_____ 8.   Type cmd then press enter
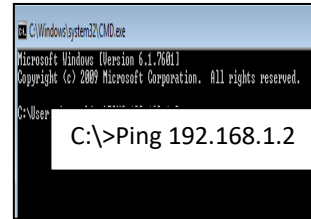_____ 9.   In the command prompt type: ping 192.168.1.2
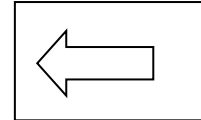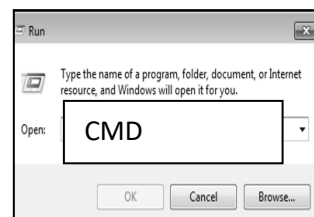_____ 10. Press Enter key

Pictures:

A

B

C:\>Ping 192.168.1.2

C

D

E

CMD

F

KEY ANSWERS

PRE TEST	LOOKING BACK	ACTIVITIES	REMEMBER	CHECK YOUR UNDERSTANDING	POST TEST
1. A	1. 1	1. Run a program	The pictureflow states the process on how to test a connection using PING COMMAND.	1. RUN	1. A
2. B	2. 2	2. Open a comman window		2. CMD	2. B
3. F	3. 3	3. Typing a ping commnd at cmd window		3. PING 192.168.1.1	3. F
4. C	4. 4	4. Ping reply with no connection		4. PING GOOGLE.COM	4. C
5. D	5. 5	5. Ping reply with connection		5. IPCONFIG	5. D
	6. 6				6. A
	7. 7				7. B
	8. 8				8. F
	9. 9				9. C
	10. 10				10. D

Reference:

CHS GRADE 10 CBLM. DEPED