Portfolio Exercise 5a: Design/Implement a Peer-Peer Network Between 2 PC's

Objectives

- Design a simple peer-peer network between two PC's
- Set-up a network connection to between two PC's
- Verify a network connection to between two PC's
- *Collect portfolio evidence for part of Grading Criteria P2 and P5*

Task1: Design

Carry out the following task with another member of the class.

a. Design Your Network

Discuss the TCP/IP settings of your peer-peer network with the other member of your group and decide on any common network settings. Make sure you choose an IP address and subnet mask from within a private IP address range. Also, ensure you have not chosen the same IP address or subnet mask as any other group. Write down the network settings you have decided on below.

Private IP address range you will use_____

Your computer's IP address _____

Your network's subnet mask _____

Your computers host name _____

Find out and document the following information on your own.

Briefly describe how you will configure TCP/IP on your computer _____

_____

_____

_____

Explain why you do not have to specify a gateway and DNS IP address

_____

_____

Give details of your network card, including manufacturer, bus slot type, bandwidth and connector type required.

_____

_____

What type of cable will you use to connect to the other computer? _____

What category of cable will you use? _____

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Task2: Implementation

a. Install the Network Cable

Plug the network cable into your network adapter. Explain how you can tell if the connector is plugged into the NIC card properly.

_____

b. Configure TCP/IP

*Run the **ipconfig /all** command and take a screenshot or write down the current TCP/IP settings of your computer. This is so you can change the return the computer to its original configuration.*

Configure the TCP/IP settings of your network adapter, using the values you specified in Task 1

~~Screenshot Required~~

When you have finished, run the **ipconfig /all** command and take a **screenshot** as proof.

c. Verify your local adapter is functioning

Which command could you use to test the adapter is functioning properly?

_____

~~Screenshot Required~~

Run the command and take a **screenshot** as proof.

d. Verify the connection to the other computer

Which command could you use to test you can connect to the other computer?

_____

~~Screenshot Required~~

Run the command and take a screenshot as proof you can connect to the other machine.

e. Draw your network

Draw your network showing the topology, devices, cables and configuration

Evidence

Please supply the following evidence to support your implementation of this task

- This document filled in.
- Task 2b screenshot showing the command you used to verify your network card is working.
- Task 2c screenshot showing the command you used to verify a connection to the other PC.
- Task 2e drawing of your network

Please annotate, sign, date, put the portfolio exercise number and task number on all evidence pages