

ICS361 - Case study 3: Network Services

Scenario:

You have been contracted by a small business to give them advice about computer networks. This is a family run business which is based at their home.

The office has two full-time staff and a part-time worker. The two full-time staff have desktop computers and the part-time worker brings their own laptop computer into the office.

The staff share MS word documents and MS excel files. They also need to print out copies of the orders from their customers.

The owner of the business has confidential information (accounts, payroll and future business plans) that should not be accessible by the other staff.

They also want to create a website for the business so that they can advertise their products and services on the Internet.

Class Assignment:

Your goals are to make suggestions on the best options for this business. Using what you have studied so far you should be able to prepare a detailed list of the type of network, computers and services that this company needs.

You should consider the following details:

- topology
- connection devices
- type of network
- computer hardware and operating systems
- IP addressing scheme
- server roles
- network services
- network administration
- network security
- fault tolerance