

ICS361 - Case study 2: Network Services

Scenario:

You have been contracted by a local company to give them advice about computer networks. This company is moving to a new office building and will be installing a new computer network.

The office has fifty desktop computers that are used by the staff. The staff share many files including MS word documents, MS excel files, and MS access data. They also need to print out copies of the orders from their customers.

The sales team consists of 20 staff. They each have a company laptop that they use to connect wirelessly to the network when they are in the office building.

There are five managers. These managers require access to confidential information that includes the accounts, payroll and future business plans.

The company manages its own web site. The web site is hosted so that both the public and the staff can access the web pages.

The company will employ two network administrators to look after the computers, web site and network.

Assignment:

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

Report:

In your report give details of:

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