



Building a Secure Home Network

Introduction

This project is going to be constructing a secure home network, most home networks once set-up are left on the defaults setting and never get changed, this can cause problems if not addressed quickly, during this project it's going to be looking at the various issues that can affect a home network and cover how you can avoid said issues by making sure you have the best possible home network security you can have.

Aims and Objectives

The main aim of this project is to have a secure home network and gain a better understanding of home networking including the security issues that could cause issues within home networking.

- Gain an understanding of security issues with home networking
- To understanding the multiple threats that can affect networking and how to deal with them

Method

Taking the information learned from the research construction of the network can begin with a layout of the average household in this case the network will be covering 3 floors.

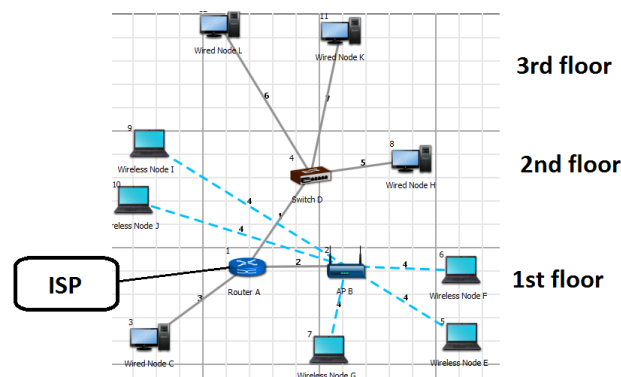


Figure 1 – planned network layout

As you can see from Figure 1 above there is going to be wireless aspect to the network, since most homes have Wi-Fi the project will also include different wireless security settings that come with standard wireless routers for example WEP, WPA, WPA2 since most newly set-up home networks have default admin names and password.

Expected results/outcomes

Towards the end of the project the main expected result is to have a working and secure home network with wireless aspect, once that is achieved the information gained from the research and building of the network will be put into a report stating which security settings recommended to use for home networking.

Time Scale

Task Name	Duration
Building a Secure Home Network	202 days
Research Home networking	21 days
Determine whats best for the network	12 days
Identify possible equipment and compare	21 days
Plan out equipment costs + Shipping	
Shipping duration	
Construct a blueprint/layout of network	7 days
Create a back up plan	14 days
begin building network	36 days
testing different security settings	21 days
Results Analysis	7 days
constuct final report	60 days