Ocean Graham

Abstract

[Draw your reader in with an engaging abstract. It is typically a short summary of the document.   
When you’re ready to add your content, just click here and start typing.]

400IT - Networking

Network Infrastructure Report



Table of Contents

[Table of Figures 1](#_Toc198635579)

[Introduction 2](#_Toc198635580)

[Tools and method 2](#_Toc198635581)

[Topology 2](#_Toc198635582)

[Security 2](#_Toc198635583)

[Addressing Schemes 2](#_Toc198635584)

[Reliabilty 2](#_Toc198635585)

[Network testing 3](#_Toc198635586)

[Conclusion 3](#_Toc198635587)

[References 3](#_Toc198635588)

# Table of Figures

**No table of figures entries found.**

400IT – Networking

# Introduction

This report will detail the design of the network infrastructure spanning three locations, with a head office in London and two branch offices in Wroclaw and York. for the Green Wood Company. The report shall elaborate crucial points such as topology, security and schemes for IP addresses in different departments.

## Tools and method

Cisco Packet Tracer was utilised to develop a virtual network framework to display the design in relation to the expectations for the Green Wood Company’s infrastructure.

Network segmentation was used to control the traffic, this allowing the network to be limited by traffic type source, destination, etc (Cisco, 2025).

Open Shortest Path First (OSPF) was utilised as the routing protocol as it helps “calculate the best path for packet forwarding.” (GeeksForGeeks, 2018)

# Topology

The topology is a hybrid topology

Mix of star and mesh topology

# Security

Encrypted passwords restricting access to higher privilege modes (privileged (#) and configuration ((config)#) )

Network segmentation

# Addressing Schemes

The method used to develop ip addressing schemes for different departments

How you ensured efficient ip allocation

Network segmentation

# Reliabilty

# Network testing

# Conclusion

# References