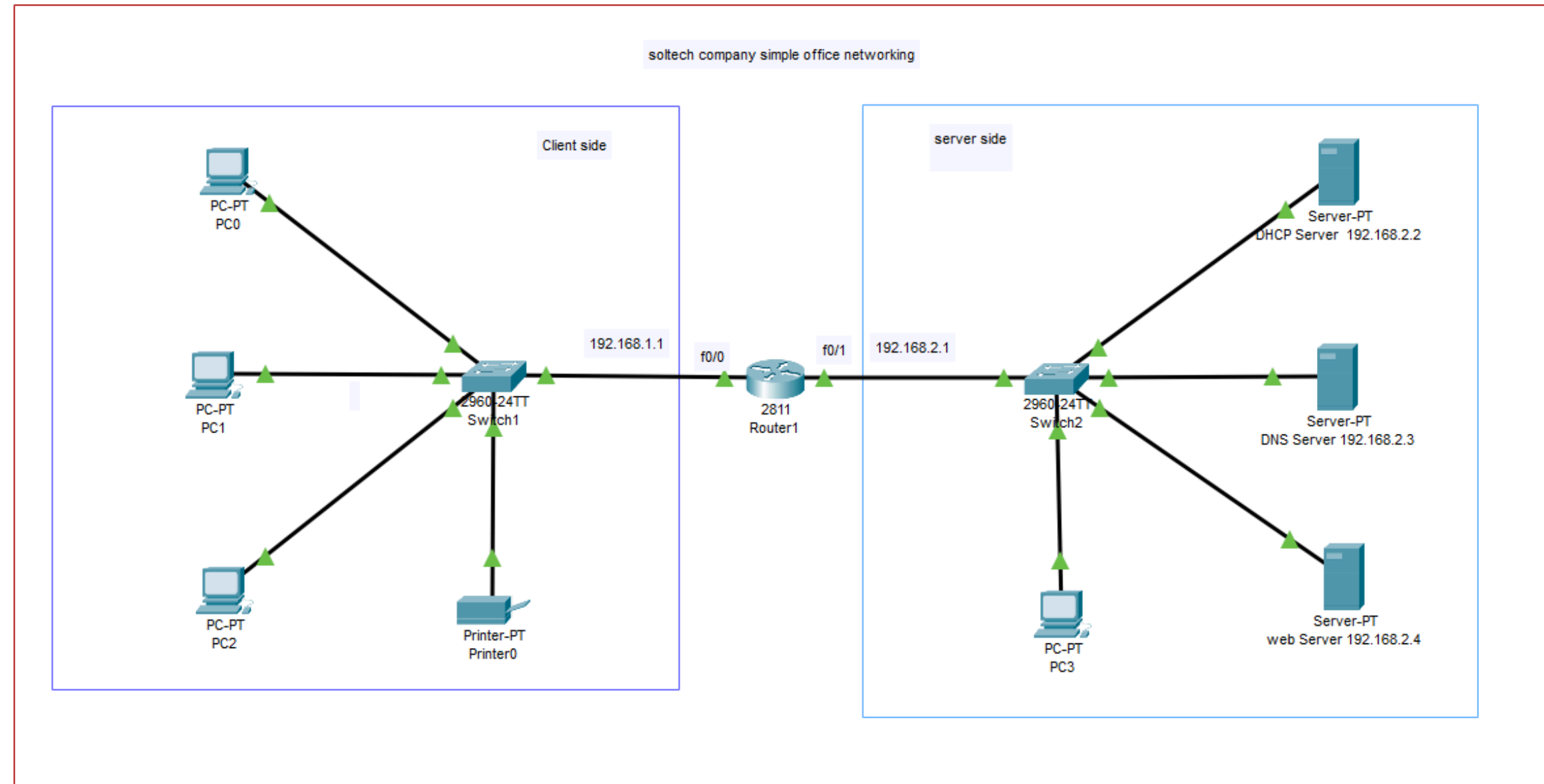


# **Akamai Assignment**

## **Network design**

Brahmadhathan KG

# Network Model



# Requirements

4 Server-PT

- DHCP Server
- DNS Server
- Web Server

2 Switches[2960-24TT

1 Router[2811]

4 PC

1 Printer-PT

# Task A

**Company Name - Soltech**

Company Website → [www.soltech.com](http://www.soltech.com)

IP Address → 192.168.2.4

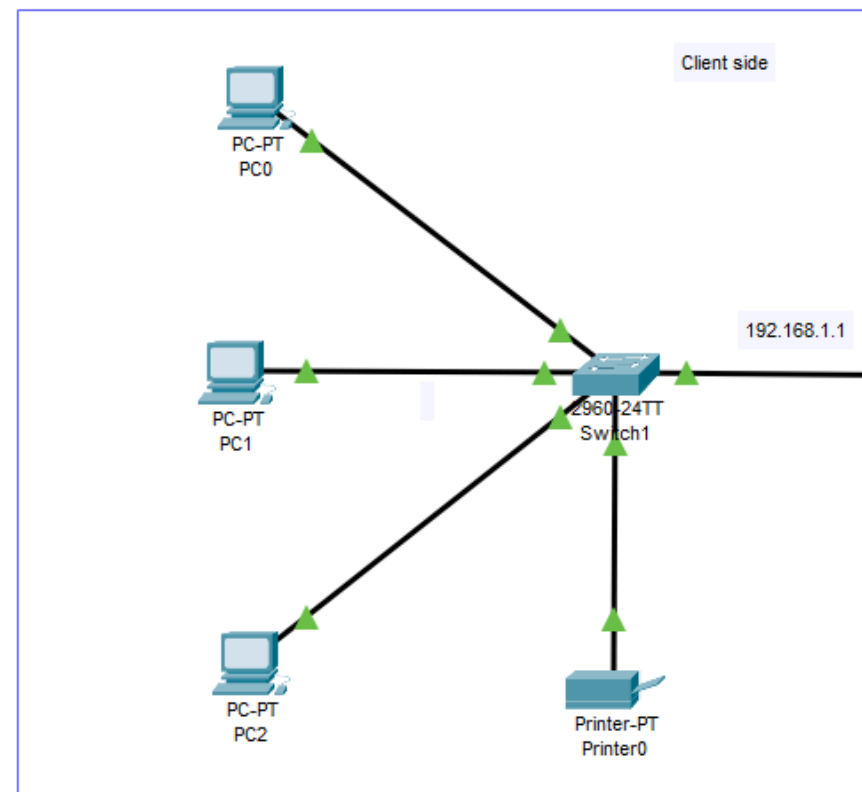
# Task B

The network is mainly divided into two parts

- Client side
- Server side

On the Client side we have 3 PCs, 1 Printer and 1 Switch connecting to the router

We will be using the wired connection using Copper Straight-Through wire



# Client Side

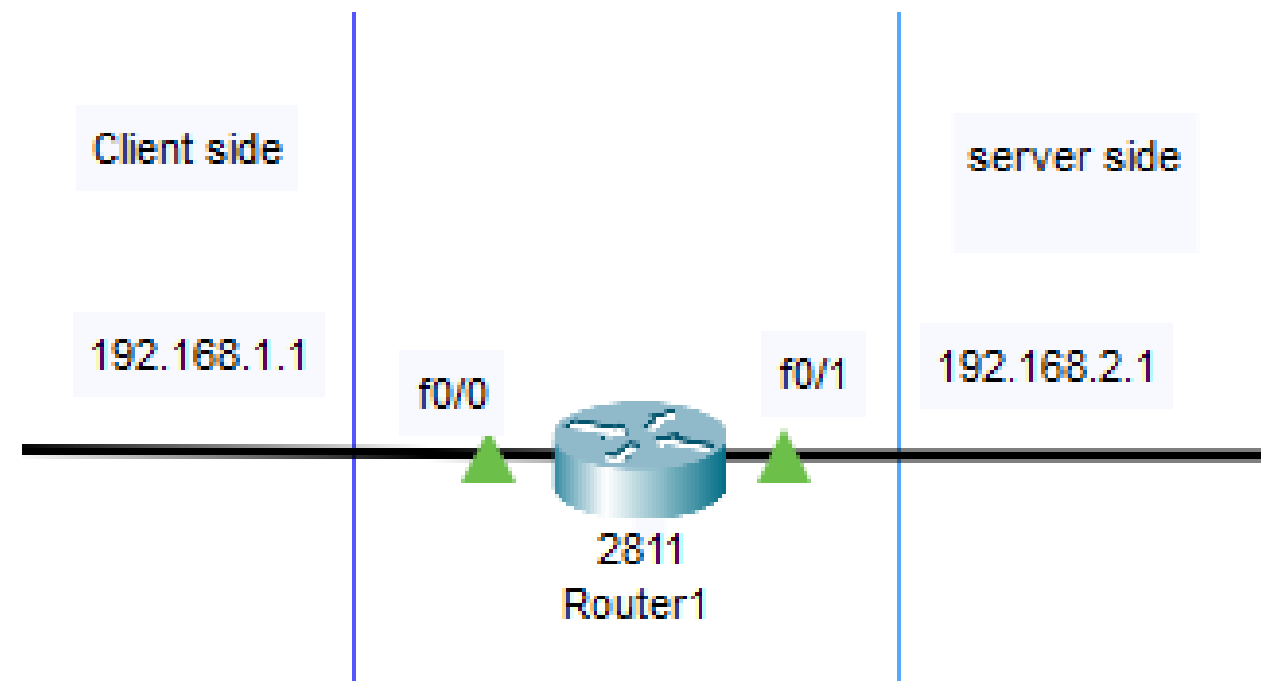
For the client side we will be using the Ip pool of 192.168.1.1/24

- Ip Address of Pc0 → 192.168.1.10/24
- Ip Address of Pc0 → 192.168.1.11/24
- Ip Address of Pc0 → 192.168.1.12/24
- Ip Address of Printer → 192.168.1.13/24

Each devices gets its ip from the DHCP Server for the Server side

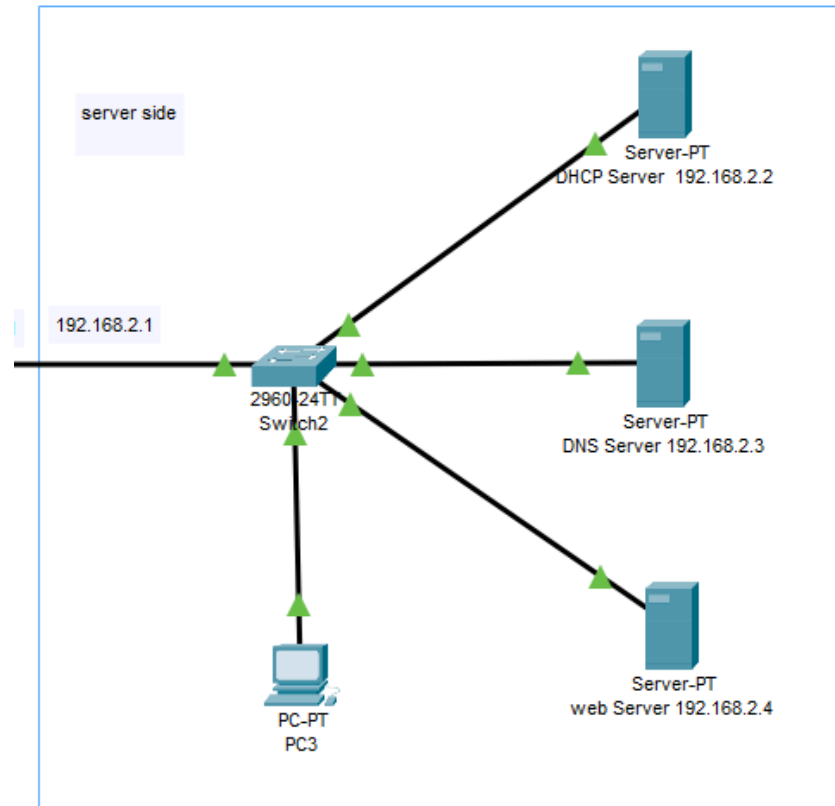
Every Pc can perform ping on each other and to the sever side to and can access the company website [www.soltech.com](http://www.soltech.com) and can also use the Printer

# Router



we will be using the Router connected to the switches on the both side using the copper straight-through wire assigned the client side to ip pool of 192.168.1.1/24 and sever side ip pool of 192.168.2.1. Configured the router setting in the CLI and established the connection

# Server Side



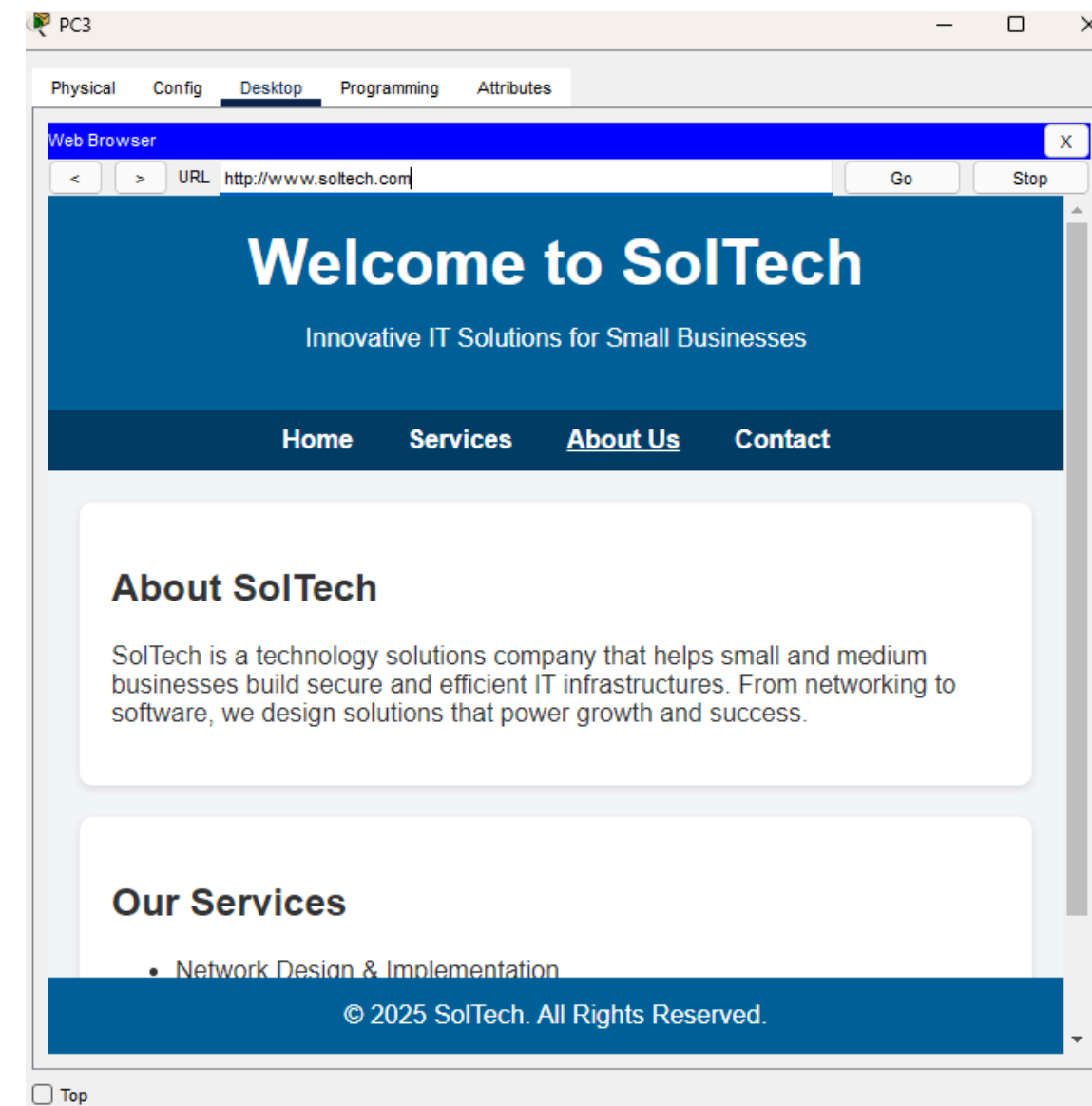
On the server side we have mainly a DHCP server that provides ip address to all the client devices and a pc on the sever side , a DNS sever that resolves the ip address of the company website and a Webserver that host the company website

we have configured the DHCP Server with 2 ip pool for the client side and the server side with ip starting from 192.168.1.10/24 for the client side and 192.168.2.10 for the sever side with max number of users to be up to 50 and make sure the DHCP services is turned on

we have configured the DNS Server with ip of 192.168.2.3/24 with the default gateway ip of 192.168.2.1/24 and maked sure the Http and Https sevice is turned on



On the Web server we have assigned the ip address 192.168.2.4/25 , default gateway ip 192.168.2.1 and the DNS sever ip 192.168.2.3  
turned on the Http and Https services and designed the company webpage and its all good to go  
now



**Thank you Akamai**