

## Final Project Report Computer Network

# WACIAL OFFICE

### Introduction

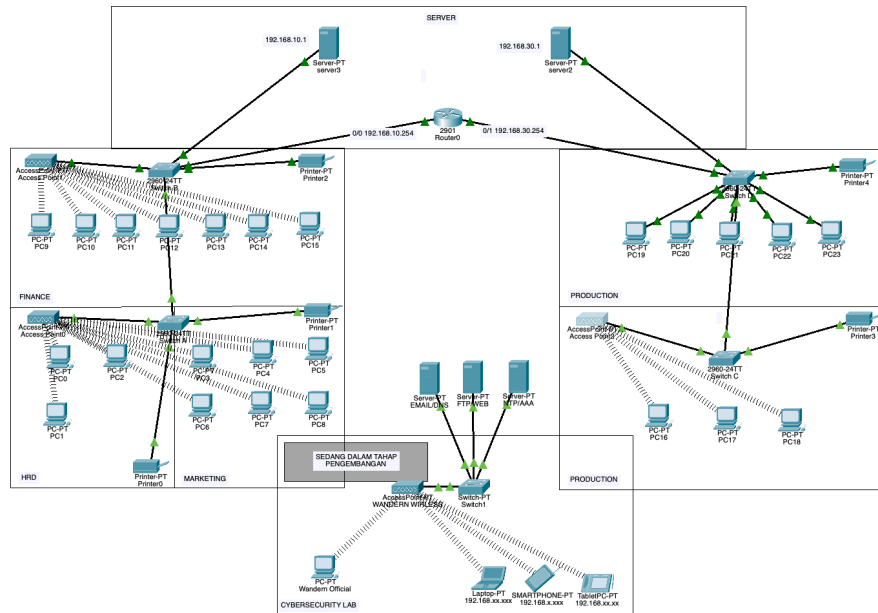
Packet Tracer Business, in this context, does not refer to "*business*" in the economic sense, but rather to the application of *Cisco Packet Tracer* network simulation applications for business or professional purposes. *Packet Tracer Business* means using Packet Tracer software to learn, practice, and test network concepts and configurations relevant to business or professional needs.

Packet Tracer is a Cisco network tool simulator that is often used as a learning and training medium, and also in the field of computer network simulation research. This program is made by *Cisco Systems* and is provided free of charge to faculty, students and alumni who have participated in the *Cisco Networking Academy*. The main purpose of Packet Tracer is to provide a tool for students and teachers to understand the principles of computer networks and also build skills in the field of Cisco network tools. Packet Tracer is usually used by Cisco Networking Academy students through the *Cisco Certified Network Associate* (CCNA) certification. Due to limitations in some of its features, this software is used only as a learning tool, not as a replacement for Cisco routers and switches. The function of Packet Tracer is to design a system or network topology that will be applied in the real world/work, because if we design a computer network topology without the help of an application like this, it can be expensive.

Smart Office is a concept of an office that optimizes the use of technology to enhance productivity and efficiency. Cisco Packet Tracer is a network simulator used to design, configure, and simulate complex networks. In this research, the author aims to design and implement a network consisting of several network devices such as routers, switches, and servers. Additionally, IoT devices such as *Microcontroller Units* (MCU), *Motion Detectors*, and *RFID* will be added to the research. These devices will be connected to electrical appliances that can be controlled via a computer network using smartphones and computers.

## Overview

- Picture



- Link

- Github: