

Computer Networks

Instructor: Rasikh Ali

Name: Muhammad Mubashir

Roll No: SU92-BAIFM-F24-001

Lab 2- Task

Task 1;

Why are we using 2911 router and not the others?

This Cisco 2911 router is purchased by several stakeholders in proportional manner in medium to large networks based on the performances rates. Technologically, it includes flexibility for extension of more functionality and services such as security and voice over the VLANs which might be necessary in the modern networks. As it comes with integrated support for VPN and firewall features, the 2911 is built to deliver security, and can support situations where data security is paramount. It also supports multiple services including routing, security and VoIP all from a single box and thus offers convenience as there is no need to purchase several devices to support the network. The 2911 router

can therefore be deemed to be more scalable and more powerful than smaller routers such as the 1841 or 1941 but is cheaper and more efficient than high end routers like the 3900 series. In the light of the above apparatus, the addition of these features make the Cisco 2911 a much needed versatile router for different networking possibilities.

Task 2;

Why are we using 2950T or 2960 switch and not the others?

Small- to medium-sized networks will benefit from this design using the Cisco's 2950T and 2960 switches for their affordability, durability, and only Layer 2 support. They contain basic functionalities such as VLAN and that they are easy to manage without being as costly or as complicated as the 3560.

Task 3;

Design the network of "Lab-7" or "Lab-8" (2-3 rows of computers)

Use: Switch, Router, & End-Devices like Laptop/PC

Cisco File is provided